



**APSR**

**23<sup>rd</sup>** Congress of the Asian Pacific  
Society of Respirology  
TAIPEI / TAIWAN



**APSR**

**23<sup>rd</sup> Congress of the Asian Pacific  
Society of Respirology**

**TAIPEI, TAIWAN**

**29 November - 2 December 2018**

**Taipei International Convention Center**



Organized by

**PROGRAM  
BOOK**



*Courageous innovation  
in every breath*



 **NOVARTIS**

昂帝博 ONCE DAILY  
**ultibro**  
**breezhaler**  
indacaterol maleate/glycopyrronium bromide  
inhalation powder

Once Daily 眼補力  
**seebri**  
**breezhaler**  
glycopyrronium bromide inhalation powder

Once Daily  
**onbrez**  
**breezhaler**  
indacaterol inhalation powder

**Xolair**  
omalizumab

TW181900001

*Fly high with healthy lungs*



 **NOVARTIS**

**AFINITOR**  
(everolimus) Tablets

**Tafinlar**  
(dabrafenib)  
50 mg, 75 mg capsules

**Mekinist**  
(trametinib)  
0.5 mg, 2 mg tablets

**ZYKADIA**  
centinib  
150 mg capsules

TW1802014-11-2018



# Effective therapy can come in one.



INCRUSE ELLIPTA



RELVAR ELLIPTA



TRELEGY ELLIPTA



ANORO ELLIPTA

## Live Every Breath









# Contents

<b>WELCOME MESSAGES</b>	<b>4</b>
<b>ABOUT THE APSR</b>	<b>7</b>
<b>COMMITTEES</b>	<b>7</b>
<b>SPEAKERS</b>	<b>10</b>
<b>AWARDS</b>	<b>12</b>
<b>GENERAL INFORMATION</b>	<b>18</b>
<b>OPENING CEREMONY AND SOCIAL PROGRAMS</b>	<b>20</b>
<b>APSR MEMBERS' MEETINGS</b>	<b>21</b>
<b>VENUE MAP</b>	<b>22</b>
<b>PROGRAM AT-A-GLANCE</b>	<b>26</b>
<b>SCIENTIFIC PROGRAM</b>	<b>28</b>
Thursday 29 November	28
Friday 30 November	35
Saturday 1 December	52
Sunday 2 December	72
<b>POSTER SESSIONS</b>	<b>76</b>
Overview	76
Friday 30 November	77
Saturday 1 December	103
<b>SPONSORSHIP &amp; EXHIBITION</b>	<b>130</b>
Acknowledgements	130
Exhibit Floor Plan and Listing	132
Profiles	134
<b>INDEX OF AUTHORS</b>	<b>140</b>

# WELCOME MESSAGE FROM THE CONGRESS PRESIDENT

Dear colleagues and friends,

It is a great pleasure and privilege to welcome you to Taipei for the 23rd Congress of the Asian Pacific Society of Respiriology (APSR 2018) which will take place from 29 November to 2 December 2018 at Taipei International Convention Center. As the leading congress covering key topics in respiratory medicine from across the spectrum of disease areas including TB, lung cancer, pediatric lung diseases and pulmonary circulation, our scientific committee has worked very hard to prepare a series of symposia, educational workshops & hands-on sessions, and oral presentations in parallel tracks, complete with poster displays and industry seminars, in a fully packed four-day program. You will surely be equally excited by this year's top-notch plenary presentations by world-renowned speakers.

APSR 2018 aims at bringing together scientists of different research fields sharing a common interest and goal in advancement and promotion of knowledge of the respiratory system in lung health and disease. We encourage your active participation in all sessions to optimally meet your professional needs and to provide you with the knowledge, expertise and required clinical skills to pursue best practice. In addition, please visit the exhibition where our industry partners present tomorrow's science and technology to share scientific discoveries and explore new pathways.

Taipei, a vibrant and hospitable city with easy access from across the Asia Pacific and the world, merges traditional and modern lifestyles in an unforgettable manner. Apart from inspiring sessions and fruitful discussions, we hope you will take this opportunity to experience historic heritage, and gamut of cuisines ranging from diverse international delicacies to must-try local gourmet that Taipei has to offer.

Finally, we wish to acknowledge contributions and efforts of the Central Congress Committee, Scientific Assemblies, and Local Organizing Committee. We thank you for making this congress one of the top scientific events of the year.

Welcome you to Taiwan.



**Chong-Jen Yu, M.D., PhD**

President, APSR 2018

Vice Superintendent, National Taiwan University Hospital





# WELCOME MESSAGE FROM THE PRESIDENT OF TAIWAN SOCIETY OF PULMONARY AND CRITICAL CARE MEDICINE

Dear colleagues and friends,

Greetings! On behalf of Taiwan Society of Pulmonary and Critical Care Medicine (TSPCCM), I am glad to extend a heartfelt welcome to you all for being with us in the 23rd Congress of the Asian Pacific Society of Respiriology (APSR 2018) to be held in Taipei, Taiwan.

This congress is all about learning, networking and connections; as a member of the Local Organizing Committee (LOC) of APSR, the TSPCCM has worked closely with the APSR scientific assembly to prepare one of the most influential and educational congresses that will enable unique platforms for scientific discussions and exchange of novel information related to all aspects of respiratory diseases amongst specials. In addition to cutting-edge sessions delivered by international and local speakers, the LOC has developed exciting social and cultural programs for you to meet with friends and learn more about Taiwan.

The venue, Taipei International Convent Center, sits in the heart of Taipei commercial center. A mayraid of malls, restaurants and hotels are within walking distance. The extensive public transport system provides easy access to greater Taiwan city and the High Speed Rail will take you to central and southern Taiwan within a couple hours. From Taipei 101 to the National Palace Museum, from parks to temples, I encourage you to explore, indulge and relax during your stay in this spectacular city.

I would like to thank you to be part of this most prestigious event. Together with your contribution, we continue our mission to promote lung health and drive standards in respiratory medicine in close partnership with national and international societies, patient organizations, and various institutions all over Asian-Pacific and beyond.

Welcome to APSR 2018 and hope you bring home the most beautiful memories.

Best Regards,

**Meng-Chih Lin, M.D.**

President, Taiwan Society of Pulmonary and Critical Care Medicine  
Vice Superintendent, Kaohsiung Chang Gung Memorial Hospital, Taiwan

# WELCOME MESSAGE FROM THE APSR PRESIDENT

Dear friends and colleagues,

On behalf of the APSR, it is a great honour to welcome you all to the 2018 Congress of the Asian Pacific Society of Respiriology, in the magnificent city of Taipei.

Our Congresses are unique in where they are held, reflecting the wonderful countries and cultures that make up our fast growing and dynamic region. As our region develops and matures, every Congress brings together wonderful science, education and fellowship to enable us to learn from each other and serve our communities.

This year promises to be yet another superb Congress, not only because of its unique location, and also because of the amazing work so kindly and diligently undertaken by our friends and colleagues at TSPCCM. They have worked hard with APSR Assembly troika leaders and the Central Program Committee led by Philip Eng, to develop the highest quality scientific and educational program, including plenary lectures, major symposia, workshops and other events from local, regional and global clinicians and researchers.

The highest level respiratory science and innovations will be coupled to the fellowship and culture of our hosts and the APSR members, when members from our en bloc countries, each bringing their own special knowledge and wonderful history, will work together to achieve better lung health for our communities in the AP region.

We hope that you enjoy this opportunity to improve and share your knowledge and expertise at the Congress and to contribute our individual efforts to improve lung health. Thank you to the Organisers so ably led by Chong-Jen Yu (President of APSR 2018 Congress) and Meng-Chih Lin (President of TSPCCM)!

Best Regards,



**Kwun Fong**  
President, Asian Pacific Society of Respiriology  
Director, UQ Thoracic Research Centre, Prince Charles Hospital





## ABOUT THE APSR

## What We Do

The Asian Pacific Society of Respiriology was established in 1986. The objectives of the Society are the advancement and promotion of knowledge of the respiratory system in health and disease. It strives to encourage research, improve clinical practice through, increase awareness of health problems in the area and promote the exchange of knowledge among respirologists in the Asia-Pacific region. The specific aims of the Society are:

- Promoting and coordinating activities in the field of respiratory medicine
- Fostering research activities in the field of respiratory medicine
- Organizing and coordinating regular congresses and occasional meetings
- Producing regular publications, including a Newsletter, the APSR Respiratory Updates and Respiriology, a journal of international repute

## COMMITTEES

### APSR Executive Committee

#### Kwun Fong, Chairperson

Chunxue Bai  
Philip Bardin  
J Patrick Barron  
Teresita de Guia  
Philip Eng  
Yoshinosuke Fukuchi

Shu Hashimoto  
Mary Sau-Man Ip  
Young Whan Kim  
David C. L. Lam  
Michiaki Mishima  
Yoichi Nakanishi

Arth Nana  
Chau Ngo Quy  
Paul Reynolds  
Wan-Cheng Tan  
Chong-Jen Yu  
Faisal Yunus

### APSR Central Congress Committee

#### Philip Eng, Chairperson

Kwun Fong  
President  
Yoichi Nakanishi  
Secretary General  
Chunxue Bai  
Treasurer  
Young Whan Kim  
Chairperson of the Research Committee  
David C. L. Lam  
Chairperson of the Education Committee

Philip Bardin  
Joint Representative of the Editorial Office  
Paul Reynolds  
Joint Representative of the Editorial Office  
Jane Bourke  
Joint President of the Previous Congress  
Matthew Peters  
Joint President of the Previous Congress  
Chong-Jen Yu  
President of the Current Congress  
Heads of Assemblies (as listed on the next page)

## Assembly Troika Leaderships

### Clinical Respiratory Medicine

Head | Yun Wing Thomas Mok  
Head-Elect | Dushantha Madegedara  
Deputy-Head | Roland Leung

### Clinical Allergy and Immunology

Head | Yasuhiro Gon  
Head-Elect | Takashi Iwanaga  
Deputy-Head | Janet Rimmer

### Respiratory Infections (non-tuberculosis)

Head | Ki-Suck Jung  
Head-Elect | Yuanlin Song  
Deputy-Head | Soon Hin How

### COPD

Head | Kazuto Matsunaga  
Head-Elect | Chin Kook Rhee  
Deputy-Head | Hao-Chien Wang

### Asthma

Head | Peter Gibson  
Head-Elect | Kang-Yun Lee  
Deputy-Head | Phan Thu Phuong

### Critical Care Medicine

Head | Rodolfo Roman T Bigornia  
Head-Elect | Rex Chin-Wei Yung  
Deputy-Head | Phunsup Wongsurakiat

### Paediatric Lung Disease

Head | Jessi Anne de Bruyne  
Head-Elect | Anna Marie Nathan  
Deputy-Head | Anne Goh

### Pulmonary Circulation

Head | Nobuhiro Tanabe  
Head-Elect | Masayuki Hanaoka  
Deputy-Head | Talant Sooronbaev

### Cell and Molecular Biology

Head | Takahide Nagase  
Head-Elect | Tomoaki Hoshino  
Deputy-Head | Chul-Gyu Yoo

### Environmental & Occupational Health and Epidemiology

Head | Yasuo Morimoto  
Head-Elect | Woo Jin Kim  
Deputy-Head | Kozo Kuribayashi

### Tuberculosis

Head | Erlina Burhan  
Head-Elect | Jennifer Ann Mendoza Wi  
Deputy-Head | Lalaine Mortera

### Lung Cancer

Head | Chong Kin Liam  
Head-Elect | Emily Stone  
Deputy-Head | Laksmi Sita Andarini

### Respiratory Neurobiology and Sleep

Head | Yoshitaka Oku  
Head-Elect | Christopher Kim-Ming Hui  
Deputy-Head | Hiromasa Ogawa

### Bronchoscopy and Interventional Techniques

Head | Pyng Lee  
Head-Elect | Fumihiko Asano  
Deputy-Head | Phan Nguyen

### Respiratory Structure and Function

Head | Hajime Kurosawa  
Head-Elect | Greg King  
Deputy-Head | Tsuyoshi Oguma

### Interstitial Lung Disease

Head | Arata Azuma  
Head-Elect | Takafumi Suda  
Deputy-Head | Moo Suk Park





## APSR 2018 Local Organizing Committee

### Congress President

**Chong-Jen Yu**

### Secretary General

**Chao-Chi Ho**

### Finance Committee

#### **Meng-Chih Lin, Chair**

Wu-Huei Hsu  
Shang-Jyh Kao

Ching-Hsiung Lin  
Hen-I Lin

Wei-Juin Su

### Scientific Committee

#### **Inn-Wen Chong, Chair**

Yeun-Chung Chang  
Ning-Hung Chen  
Chen-Yuan Chiang  
Teh-Ying Chou  
Hsao-Hsun Hsu  
Po-Ren Hsueh  
Yi-Wen Huang

Yuh-Chin Tony Huang  
Kuo-Chin Kao  
Jang-Ming Lee  
Kang-Yun Lee  
Hui-Ping Liu  
Diahn-Warng Perng  
Chau-Chyun Sheu

Po-Nien Tsao  
Chih-Yen Tu  
Hao-Chien Wang  
Reen Wu  
Cheng-Ta Yang  
James Chih-Hsin Yang  
Kuang-Yao Yang

# SPEAKERS

*in alphabetical order of last name*

Sandra D Anderson	Australia	Charles Lamar Daley	United States
Chunxue Bai	China	Hiroshi Date	Japan
Philip Bardin	Australia	Yuan-Pu (Peter) Di	United States
Sonja Bartolome	United States	Bastiaan Driehuys	United States
James M. Beck	United States	Anke van Eekelen	Australia
Alison Bell	Australia	Mark William Elliott	United Kingdom
Hwangbo Bin	Korea	Philip Eng	Singapore
Lieve Bultynck	Australia	Yun Feng	China
Erlina Burhan	Indonesia	Kwun Fong	Australia
Bin Cao	China	Jean-Pierre Frat	France
Wellington V. Cardoso	United States	Pin-Kuei Fu	Taiwan
Yun Sil Chang	Korea	Yi Gao	China
Gee-Chen Chang	Taiwan	Michael Athanasios Gatzoulis	United Kingdom
Po-Jui Chang	Taiwan	Peter Gerard Gibson	Australia
Wei-An Chang	Taiwan	Shimpei Gotoh	Japan
Yeun-Chung Chang	Taiwan	Jincui Gu	China
Yin-Kai Chao	Taiwan	Yan Gu	China
Kenneth R. Chapman	Canada	Fang Han	China
Rongchang Chen	China	Masayuki Hanaoka	Japan
Yu Chen	China	Naozumi Hashimoto	Japan
Chia-Hung Chen	Taiwan	Felix JF Herth	Germany
Jin-Shing Chen	Taiwan	Leora Horn	United States
Yen-Lin Chen	Taiwan	Tomoaki Hoshino	Japan
You-Yi Chen	Taiwan	Hsao-Hsun Hsu	Taiwan
Yung-Hsuan Chen	Taiwan	Po-Kuei Hsu	Taiwan
Ching-Hsien Chen	United States	Wu-Huei Hsu	Taiwan
Suet Lai Cheng	Hong Kong	Chun-Kai Huang	Taiwan
Aristine Cheng	Taiwan	Hsin-Chieh Huang	Taiwan
Chieh-Chih Estelle Cheng	Taiwan	Yu-Sen Huang	Taiwan
Shih-Lung Cheng	Taiwan	Yuh-Chin T. Huang	United States
Chen-Yuan Chiang	Taiwan	Ming-Hui Hung	Taiwan
Jung-Yien Chien	Taiwan	Masakazu Ichinose	Japan
Ying-Chun Chien	Taiwan	Kazuhiro Ito	Japan
Kazuo Chin	Japan	Steven Kao	Australia
Naricha Chirakalwasan	Thailand	Kuo-Chin Kao	Taiwan
Kuo-Liang Chiu	Taiwan	Yuki Kataoka	Japan
Augustine M.K. Choi	United States	Hans-Ulrich Kauczor	Germany
Kun-Ta Chou	Taiwan	Nicholas James Kenyon	United States
Teh-Ying Chou	Taiwan	Ali Zamir Khan	United Kingdom
Li-Pang Chuang	Taiwan	Hyaе Young Kim	Korea
Kuei-Pin Chung	Taiwan	Woo Jin Kim	Korea
Kian Fan Chung	United Kingdom	Won-Jung Koh	Korea
William Cookson	United Kingdom	Shigeru Kohno	Japan
Clayton T. Cowl	United States	Martin Kolb	Canada



Yao-Wen Kuo	Taiwan	Egbert Smit	Netherlands
Pyng Lee	Singapore	Hisatoshi Sugiura	Japan
Chon-Lin Lee	Taiwan	Jiayuan Sun	China
I-Hsien Lee	Taiwan	Tamiko Takemura	Japan
Kang-Yun Lee	Taiwan	Sadatomo Tasaka	Japan
Pei-Lin Lee	Taiwan	William David Travis	United States
Yee-Fan Lee	Taiwan	Thierry Troosters	Belgium
Chi Chiu Leung	Hong Kong	Ming-Ju Tsai	Taiwan
Wei-Chih Liao	Taiwan	Chih-Yen Tu	Taiwan
Hui Fang Lim	Singapore	Frank van Haren	Netherlands
Huihuang Lin	China	Chun-Hua Wang	Taiwan
Kang-Ping Lin	Taiwan	Hao-Chien Wang	Taiwan
Meng-Chih Lin	Taiwan	Jann-Yuan Wang	Taiwan
Ming-Tzer Lin	Taiwan	Jiu Yao Wang	Taiwan
Mong-Wei Lin	Taiwan	Jadwiga Anna Wedzicha	United Kingdom
Shih-Wei Lin	Taiwan	Yu-Feng Wei	Taiwan
Jules Lin	United States	Yueh-Feng Wen	Taiwan
Beth Lingenfelter	United States	Reen Wu	United States
Augusto A. Litonjua	United States	Kuang-Yao Yang	Taiwan
Ching-Lung Liu	Taiwan	Pan-Chyr Yang	Taiwan
Wei-Lun Liu	Taiwan	Tsu Fuh Yeh	Taiwan
Sophia Chan	Taiwan	Chong-Jen Yu	Taiwan
Rongguang Lou	China	Chung-Chieh Yu	Taiwan
Hisako Matsumoto	Japan	Qihui (Jim) Zhai	United States
Jacques F. Meis	Netherlands	Donghui Zhang	China
Hiroyuki Mochizuki	Japan	Nanshan Zhong	China
Kozo Morimoto	Japan	Yu Zhu	China
Yung-Lun Ni	Taiwan		
Akio Niimi	Japan		
Hiroshi Onishi	Japan		
Polly Ellsbeth Parsons	United States		
Diahn-Warng (Steve) Perng	Taiwan		
David Planchard	France		
Venerino Poletti	Italy		
Ganesh Raghu	United States		
Suresh S. Ramalingam	United States		
Paul Reynolds	Australia		
Chin-Kook Rhee	Korea		
Luca Richeldi	Italy		
Susumu Sakamoto	Japan		
Richard John Schwab	United States		
Joon Beom Seo	Korea		
Chol Shin	United States		
Dave Singh	United Kingdom		

# AWARDS

## APSR Medal

Wah-Kit Lam (Hong Kong)

## Michiyoshi Harasawa Research Award

**Kazuo Chin (Japan)**  
**Overcoming sleep disordered breathing for a healthy life expectancy**  
Plenary Lecture - Memorial Lecture 2  
08:10-08:50, Sunday 2 December 2018  
Plenary Hall, 3F

## Ann Janet Woolcock Research Award

**Sandra D Anderson (Australia)**  
**Tests for identifying bronchial hyperresponsiveness**  
Plenary Lecture - Memorial Lecture 1  
08:10-08:50, Saturday 1 December 2018  
Plenary Hall, 3F

## Fukuchi Award for the Best Original Paper in Respiriology

Hai Van Nguyen (Canada)

## APSR-ATS Young Investigator Award

**Meredith Tennis (United States)**  
**Epigenetic regulation of FZD9 and iloprost lung cancer chemoprevention**  
Symposium 12  
14:00-15:30, Friday 30 November 2018  
Room 102, 1F

**Neeta Thakur (United States)**  
**A multi-level approach to asthma health disparities: From biomarkers to geocoded data**  
Symposium 16  
16:00-17:30, Friday 30 November 2018  
Room 102, 1F

## APSR-ERS Young Investigator Award

**Sohail Ahmad (Malaysia)**  
**A qualitative study exploring the barriers and challenges to asthma management as perceived by Malaysian asthmatic patients**  
Symposium 12  
14:00-15:30, Friday 30 November 2018  
Room 102, 1F

**Brijesh Prajapat (India)**  
**Evaluation of Upper Airway (UA) anthropometry using Magnetic Resonance Imaging (MRI) and lateral cephalometry in patients of Obstructive Sleep Apnea (OSA) in north Indian population**  
Symposium 16  
16:00-17:30, Friday 30 November 2018  
Room 102, 1F

## APSR-TSANZ New Investigator Award

**Eunice To (Australia)**  
**Endosomal NOX oxidase inhibitor protects against highly pathogenic influenza virus morbidity**  
Symposium 16  
16:00-17:30, Friday 30 November 2018  
Room 102, 1F





## APSR-JRS Young Investigator Award

**Koji Furuuchi (Japan)**  
**Clinical significance of *Aspergillus* species isolated from respiratory specimens in patients with *Mycobacterium avium* complex lung disease**

Symposium 12  
14:00-15:30, Friday 30 November 2018  
Room 102, 1F

**Mari Hikichi (Japan)**  
**Identification of a new target for diagnosing idiopathic pulmonary fibrosis with autoimmune features**

Symposium 12  
14:00-15:30, Friday 30 November 2018  
Room 102, 1F

**Motoyasu Kato (Japan)**  
**Combination therapy with nintedanib and prednisolone in patients with idiopathic pulmonary fibrosis**

Symposium 16  
16:00-17:30, Friday 30 November 2018  
Room 102, 1F

## APSR Travel Award

**Christy Efiyanti (Indonesia)**  
**Prognostic values of CURB-65, expanded-CURB-65, and CURB-65 plus albumin and platelet in community acquired pneumonia in Cipto Mangunkusumo National General Hospital, Jakarta**

Oral Session 8  
14:00-15:30, Friday 30 November 2018  
Room 105, 1F

**Mary Joy Ordanza (Philippines)**  
**A comparative study on the diaphragm muscle thickness and Rapid Shallow Breathing Index (RSBI) as a predictor for successful extubation among critically ill adult patients**

Oral Session 13  
09:00-10:30, Saturday 1 December 2018  
Room 103, 1F

**Ruwanpura Saleela (Australia)**  
**Therapeutic targeting of the IL-6 trans-signalling in pulmonary emphysema**

Oral Session 15  
11:00-12:30, Friday 30 November 2018  
Room VIP, 4F

**Huong Ho (Vietnam)**  
**Community-acquired necrotizing pneumonia due to methicillin-resistant *Staphylococcus aureus* secreting panton-valentine leukocidin in 4 patients admitted to children's hospital 1 in November 2017: Case series report**

Oral Session 16  
11:00-12:30, Saturday 1 December 2018  
Room 102, 1F

**Omohaire Dilangalen (Philippines)**  
**Utility of 6-minute walk test in predicting post-operative pulmonary complications among patients undergoing cardiothoracic surgeries**

Oral Session 17  
11:00-12:30, Saturday 1 December 2018  
Room 103, 1F

**Dhammika Leshan Wannigama (Thailand)**  
**Overcoming biofilm mediated respiratory infections through exploitation of pathogen and host-directed novel peptides**

Oral Session 22  
14:00-15:30, Saturday 1 December 2018  
Room 105, 1F

**Debkanya Dey (India)**  
**Does FEF<sub>25-75</sub> distinguish between airway obstruction and restriction in DPLD?**

Oral Session 26  
16:00-17:30, Saturday 1 December 2018  
Room 105, 1F

**Sayantana Sengupta (India)**  
**Novel benzoxazin derivative as neutrophil elastase inhibitor for treatment of chronic obstructive pulmonary disease**

Poster Session II  
14:00-15:30, Friday 30 November 2018  
Banquet Hall, 3F

### APSR Young Investigators Travel Award

**Li Yang (Australia)**  
**Changes in ventilation and perfusion following lower lobe Endoscopic Lung Volume Reduction (ELVR) with endobronchial valves in patients with severe COPD**

Oral Session 2  
09:00-10:30, Friday 30 November 2018  
Room 105, 1F

**Wei-An Chang (Taiwan)**  
**Investigating microRNA-mRNA interactions in the COPD microenvironment by next-generation sequencing and bioinformatics**

Oral Session 3  
11:00-12:30, Saturday 1 December 2018  
Room VIP, 4F

**Victor Chun (United States)**  
**Chronic inhalation of unflavored nicotine and no-nicotine containing electronic cigarette vapor leads to impaired lung function**

Oral Session 5  
11:00-12:30, Friday 30 November 2018  
Room 105, 1F

**Jie Huang (China)**  
**Mesenchymal stem cell-based therapy attenuates silica-induced macrophage activation via circZC3H4/ZC3H4 pathway**

Oral Session 10  
16:00-17:30, Friday 30 November 2018  
Room 103, 1F

**Yuji Matsumoto (Japan)**  
**Cryobiopsy – a potential to break through the diagnostic bronchoscopy for peripheral pulmonary nodules -**

Oral Session 14  
09:00-10:30, Saturday 1 December 2018  
Room 105, 1F

**Kuei-Pin Chung (Taiwan)**  
**Mitofusins in type 2 alveolar cells are required for metabolic adaptation in pulmonary fibrosis**

Oral Session 21  
14:00-15:30, Saturday 1 December 2018  
Room 103, 1F



**Fariz Nurwidya (Indonesia)**

**Treatment with Trichostatin A restores sensitivity to gefitinib and impairs cancer stem cells features in EGFR-mutant non-small cell lung cancer cells**

Oral Session 21

14:00-15:30, Saturday 1 December 2018

Room 103, 1F

**Hanbyeol Lee (Korea)**

**A novel peptide WKYMMVm has therapeutic effect via IRF7/STAT1 pathway against endotoxin-induced ARDS**

Oral Session 21

14:00-15:30, Saturday 1 December 2018

Room 103, 1F

**Yuki Ikematsu (Japan)**

**Immunological analysis of pleural effusion in cancer patients who received Immune Checkpoint Inhibitors (ICI) for the development of biomarkers**

Oral Session 28

11:00-12:30, Sunday 2 December 2018

Room 102, 1F

**Yun Feng (China)**

**Genetic variants in the TNF/TNFR signaling pathway genes are associated with survival of nonsmall-cell lung cancer patients**

Poster Session III

11:00-12:30, Saturday 1 December 2018

Banquet Hall, 3F

**APSR/APTA Young Investigator Award**

**Anjuli May Jaen (Philippines)**

**A meta-analysis on indwelling pleural catheters versus pleurodesis in the management of malignant pleural effusions: A modern dilemma**

Poster Session I

11:00-12:30, 30 November 2018

Banquet Hall, 3F

**APSR/Peter Sly Paediatric Young Investigator Award**

**Pham Uyen (Vietnam)**

**Pneumonia due to burkholderia pseudomallei in children at the Children's Hospital No 1, Hochiminh-City, Vietnam**

Oral Session 16

11:00-12:30, Saturday 1 December

Room 102, 1F

**APSR/Norbert Berend COPD Young Investigator Award**

**John Ray Galamay (Philippines)**

**Association of serum uric acid levels and outcomes of patients with chronic obstructive pulmonary disease: A prospective cohort study**

Poster Session II

14:00-15:30, Friday 30 November

Banquet Hall, 3F

**APSR/Paul Zimmerman Physiology Young Investigator Award**

**Mary Claire Orden (Philippines)**

**A case report on bilateral diaphragmatic dysfunction due to bilateral phrenic nerve neuropathy in a 65-year-old male with dyspnea on supine position**

Poster Session II

14:00-15:30, Friday 30 November

Banquet Hall, 3F

### **APSR/Geoffrey Bush Paediatric Young Investigator Award**

**Crestita Gorme (Philippines)**  
**Utility of Fractional exhaled Nitric Oxide (FeNO)  
levels in differentiating upper respiratory tract  
infection and bronchial asthma from healthy  
normal school children**

Oral Session 16  
11:00-12:30, Saturday 1 December  
Room 102, 1F

### **APSR/Malcolm Winterburn Lung Cancer Young Investigator Award**

**Karen Anne Bispo (Philippines)**  
**Primary atypical neuroendocrine tumor of the  
thymus: A case report**

Poster Session III  
11:00-12:30, Saturday 1 December  
Banquet Hall, 3F

### **APSR/KYF Young Investigator Award for Geriatric Respiriology**

**Yijue Zhong (China)**  
**The role of sirtuin1 in the macrophage polarization  
induced directly by airborne PM2.5**

Oral Session 10  
16:00-17:30, Friday 30 November  
Room 103, 1F





# GENERAL INFORMATION in alphabetical order

## Abstracts

All abstracts are published on the supplement issue of *Respirology*, the official journal of the Asian Pacific Society of Respirology, and only online version is available, <https://onlinelibrary.wiley.com/toc/14401843/2018/23/S2>.

---

## Badges

Name badges must be worn for admittance to all APSR 2018 events. There will be a US\$50 fee for replacement of badges.

---

## Camera and Recording

Any electronic recording as well as photograph taking are NOT allowed in session rooms nor in the exhibit and poster areas.

---

## Certificate of Attendance

Certificate of attendance will be provided with the name badge.

---

## Congress APP

Search APSR 2018 to install the congress interactive mobile App to your smartphone and portable device to access all the information you need!

---

## Exhibition

Exhibits are located in TICC, room 101, south & north foyer (1st floor), south & north corridor (1st & 2nd floor). Badges must be worn for admittance.

---

## First Aid

A first aid station is located in room 203 and will be staffed during service hours. In case of a medical emergency, please dial 112 from your mobile phone.

---

## Internet Access

WiFi is available throughout the congress venue. No username and password is need. Select "TICC" as network name and open a browser for connection.

---

## Language

The official language of the congress is English. Simultaneous translation will NOT be provided.

---

## Liability and Insurance

The organizers are not able to take any responsibility whatsoever for injury or damage involving persons and property during the congress. Participants are advised to take out their own personal travel and health insurance for their trip.

---

## Lost and Found

Any missing or unattended personal belongings will be removed and taken to the Information Counter. Unclaimed items at the end of the congress will be turned over to the convention center.

---

## Mobile Phone

Please be aware that mobile phones must be switched off or turned on silent mode during all sessions.

---

## Poster

Poster sessions will take place in TICC, banquet hall (3rd floor) from 30 November to 2 December.

---

## Prayer Room

A prayer room is available for use during the Congress. Visit the Information Counter in the lobby for more information.

---

## Refreshments and Lunch

Coffee breaks are served inside room 101 and south & north foyer (1st floor) along with exhibition. Meal boxes will be distributed in sponsored symposia during 12:45-13:45 & 17:45-18:45 on 30 November and 1 December.

---



## Registration & Tours

Express and onsite registration are located in the lobby of TICC. Tours can be booked through the service counter.

Thursday 29 November	07:30-19:30
Friday 30 November	07:00-18:45
Saturday 1 December	07:00-18:45
Sunday 2 December	07:00-13:00

---

## Secretariat Office/ FAPSR Lounge/ Cloakroom

Service are available in room 203 during business hours:

Thursday 29 November	07:30-19:30
Friday 30 November	07:00-18:45
Saturday 1 December	07:00-18:45
Sunday 2 December	07:00-13:00

---

## Smoking Policy

TICC is a non-smoking facility and smoking is prohibited inside the center.

---

## Shipping

If you need to have a package shipped from Taipei, please visit your hotel's business center or Information Counter in the lobby for more information.

---

## Speaker Ready Room

Speakers may preview and upload their presentation(s) in room 202 during business hours:

Thursday 29 November	07:30-17:30
Friday 30 November	07:00-18:00
Saturday 1 December	07:00-18:00
Sunday 2 December	07:00-12:30

---

## Venue: TICC

Address: 1 Hsin-Yi Rd., Sec. 5, Taipei, Taiwan  
Telephone: +886-2-2725-2500

### Congress Manager

Elite Professional Conference Organizer  
4F., No. 285, Sec. 2, Tiding Blvd., Taipei, Taiwan 114  
Tel: +886-2-2798-8329  
eliteint@ms64.hinet.net



# OPENING CEREMONY AND SOCIAL PROGRAMS

## Opening Ceremony

All registered participants and exhibitors are cordially invited to the Opening Ceremony. You are kindly requested to wear your badge for recognition.

### Agenda

Date:	Thursday 29 November 2018
Time:	17:30-18:20
Venue:	Plenary Hall, 3F, TICC
Dress Code:	Business casual
	<b>17:30 Guests to be seated</b>
	<b>17:31 Performance by Diabolo Dance Theatre</b>
	<b>17:41 Welcome address</b>
	Chong-Jen Yu, APSR 2018 President
	Meng-Chih Lin, TSPCCM President
	Kwun Fong, APSR President
	Philip Eng, Chairperson of APSR Central Congress Committee
	<b>17:53 Greetings by guests-of-honor</b>
	<b>18:08 Award ceremony</b>
	<b>18:20 Performance by Techno Prince Nezha</b>

---

## Welcome Reception

After the Opening Ceremony, all attendees are invited to attend the Welcome Reception, giving you a taste of Taiwan. Have fun at the cultural booths and redeem your gift voucher to take home a souvenir.

Date:	Thursday 29 November 2018
Time:	18:30-20:30
Venue:	Banquet Hall, 3F, TICC
Dress Code:	Business casual

---

## Gala Dinner **ticket event**

Catch up with experts from all over the globe and enjoy a selection of Taiwanese cuisines during the dinner. Award winners will be presented at the event.

Date:	Saturday 1 December 2018
Time:	19:00-21:00
Venue:	Grand Ballroom II, 3F, Grand Hyatt Taipei
Dress Code:	Business casual

---

## Closing Ceremony

Next congress will be introduced during Closing Ceremony.

Date:	Sunday 2 December 2018
Time:	12:30-13:00
Venue:	Plenary Hall, 3F, TICC
Dress Code:	Business casual





# APSR MEMBERS' MEETINGS

## APSR Annual General Meeting (AGM)

Meeting Time	Meeting Room in TICC
16:30-17:00, Thursday 29 November	South Lounge, 3F

## APSR Assembly Meetings

Assembly	Assembly Meeting Time/Date	Meeting Room in TICC
Clinical Respiratory Medicine	07:15-08:00, Saturday, 1 December 2018	201E
Cell and Molecular Biology	07:15-08:00, Saturday, 1 December 2018	201F
Clinical Allergy & Immunology	07:15-08:00, Saturday, 1 December 2018	201A
Environmental & Occupational Health and Epidemiology	07:15-08:00, Friday, 30 November 2018	201A
Respiratory Infections (non-tuberculosis)	07:15-08:00, Friday, 30 November 2018	201D
Tuberculosis	07:15-08:00, Saturday, 1 December 2018	102
COPD	07:15-08:00, Friday, 30 November 2018	201B
Lung Cancer	07:15-08:00, Saturday, 1 December 2018	102
Asthma	07:15-08:00, Saturday, 1 December 2018	201B
Respiratory Neurobiology and Sleep	07:15-08:00, Friday, 30 November 2018	201C
Critical Care Medicine	07:15-08:00, Saturday, 1 December 2018	201D
Bronchoscopy and Interventional Techniques	07:15-08:00, Friday, 30 November 2018	201E
Respiratory Structure and Function	07:15-08:00, Saturday, 1 December 2018	201C
Pulmonary Circulation	07:15-08:00, Saturday, 1 December 2018	103
Interstitial Lung Disease	07:15-08:00, Saturday, 1 December 2018	105

# VENUE MAP

Taipei International  
Convention Center (TICC)

**1st  
Floor**

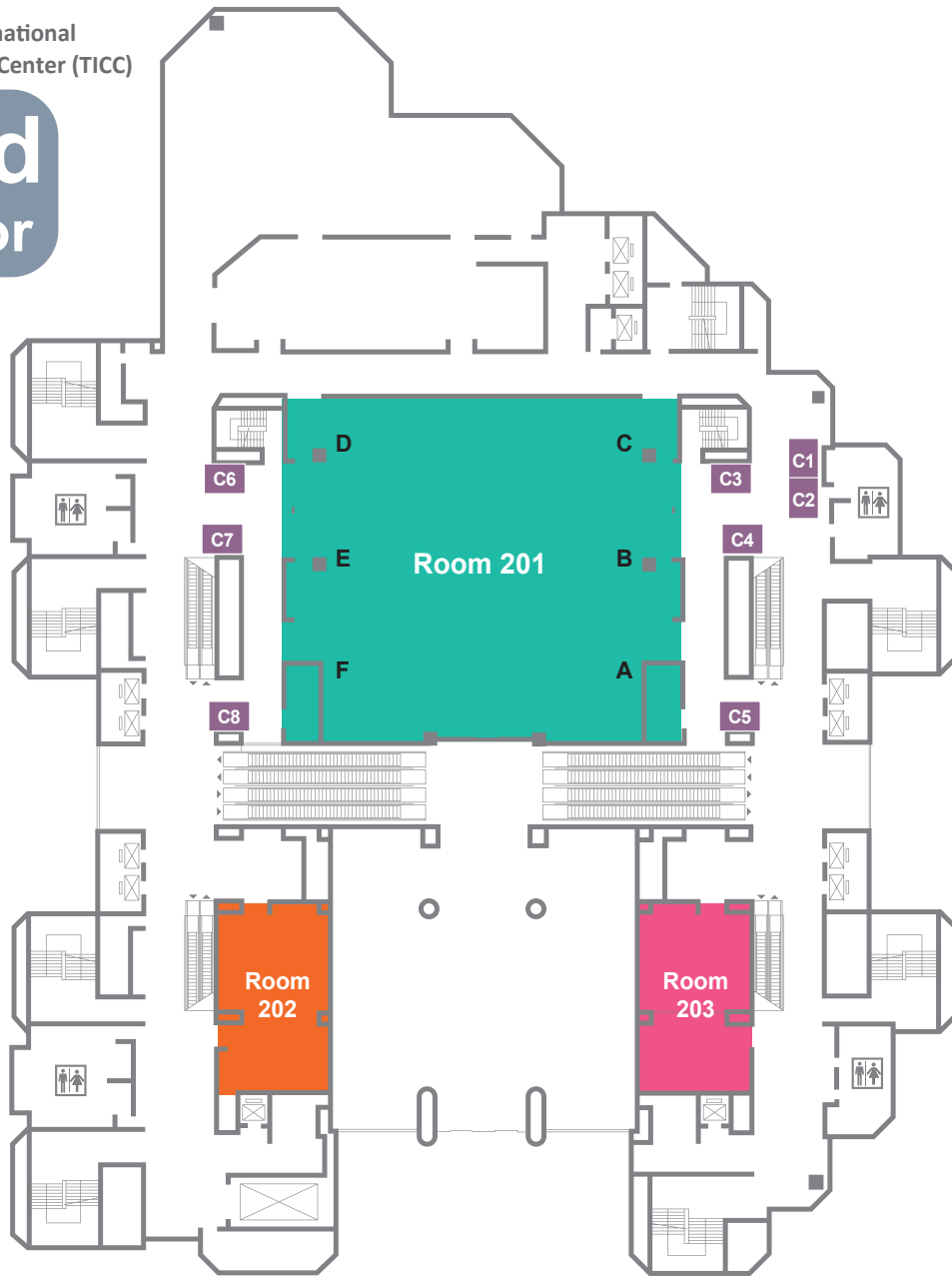


- Scientific Sessions  
Sponsored Symposia**
- Exhibition**
- Prayer Room**
- Registration**
- Coffee Break**



Taipei International  
Convention Center (TICC)

# 2nd Floor



 **Scientific Sessions  
Sponsored Symposia**

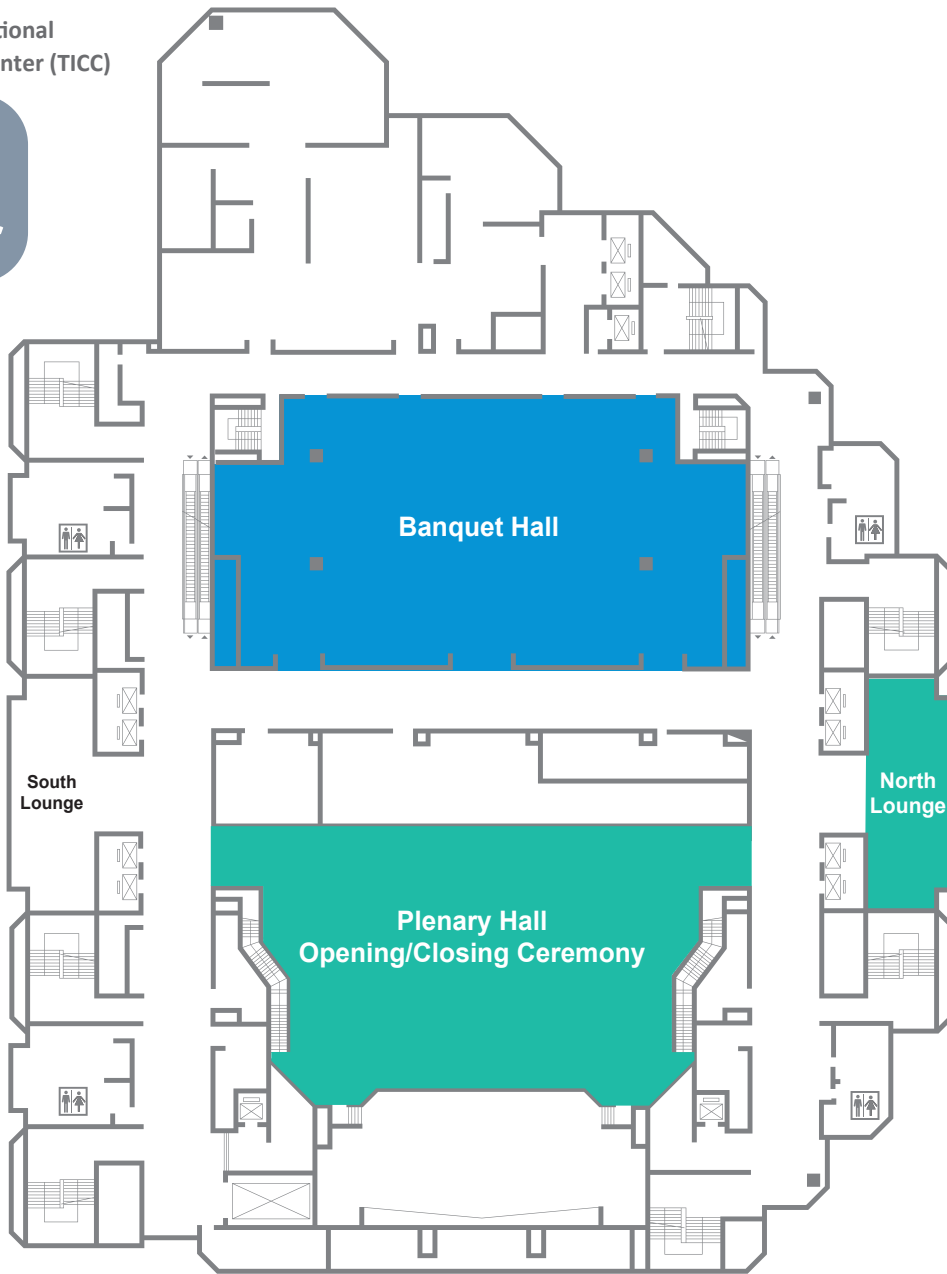
 **Exhibition**

 **Speaker Ready Room**

 **Secretariat Office/FAPSR Lounge**

Taipei International  
Convention Center (TICC)

# 3rd Floor



 Scientific Sessions

 Welcome Reception  
Poster Sessions





Taipei International  
Convention Center (TICC)

**4th  
Floor**



**Scientific Sessions  
Sponsored Symposia**

# PROGRAM AT-A-GLANCE

## Thursday 29 November 2018

Time/Room	Plenary Hall 3F	201A 2F	201BC 2F	201DE 2F	201F 2F	105 1F	North Lounge 3F
09:00-12:00		Pre-congress Workshop 1 Respiratory infections (non-tuberculosis) - Molecular diagnosis of pneumonia	Pre-congress Workshop 2 Bronchoscopy and interventional techniques 1 - Interventional workshop	Pre-congress Workshop 3 Lung cancer - Early detection of lung cancer	Pre-congress Workshop 4 Respiratory neurobiology and sleep 1 - Home ventilator during sleep	Pre-congress Workshop 5 RESPIROLOGY workshop: Author awareness of transparency for successful publishing	Pre-congress Workshop 6 Interstitial lung disease - IPF treatment in real world
12:45-13:30		Lunch	Lunch	Lunch	Lunch		
Time/Room	Plenary Hall 3F	201A 2F	201BC 2F	North Lounge 3F	201F 2F	105 1F	201DE 2F
14:00-17:00		Pre-congress Workshop 7 Severe asthma	Pre-congress Workshop 8 Bronchoscopy and interventional techniques 2 - Interventional workshop	Pre-congress Workshop 9 Clinical respiratory medicine - How to approach small lung nodule	Pre-congress Workshop 10 Respiratory neurobiology and sleep 2 - Home ventilator during sleep	Pre-congress Workshop 11 China day	Pre-congress Workshop 12 Interventional pulmonology techniques - Ultrasound diagnosis in chest diseases and ultrasound guided needle aspiration biopsy (Hands-on Session)
17:30-18:20		Opening Ceremony					
Registration	08:30-19:30 @Lobby, 1F						
Welcome Reception	18:30-20:30 @Banquet Hall, 3F						

## Friday 30 November 2018

Time/Room	Plenary Hall 3F	201ABC 2F	201DEF 2F	VIP 4F	102 1F	103 1F	105 1F	Banquet Hall 3F
07:15-08:00				APSR Assembly Meetings				
08:00-08:50	Plenary Lecture Presidential lecture							
09:00-10:30	Symposium 1 COPD 1	Symposium 2 Clinical respiratory medicine - Presidents' symposium 1	Symposium 3 Respiratory structure and function - Emerging technology for pulmonary structure and function	Symposium 4 Pulmonary circulation 1 - Diagnosis and registry for pulmonary hypertension		Oral Session 1 Tuberculosis 1	Oral Session 2 Bronchoscopy and interventional techniques 1	
10:30-11:00					Coffee Break			
11:00-12:30	Symposium 5 Interstitial lung disease 1 - Pathology of interstitial lung diseases	Symposium 6 Respiratory neurobiology and sleep 1 - The impact of home ventilator over the world	Symposium 7 E-cigarette and health	Oral Session 3 COPD 1 - Epigenetics and microbiom in COPD	Symposium 8 Clinical Respiratory Medicine - Emerging threat of respiratory diseases in Asia-pacific	Oral Session 4 Clinical respiratory medicine 1	Oral Session 5 Respiratory structure and function	Poster Session 1
12:45-13:45		Lunch Symposium 1 AstraZeneca Taiwan	Lunch Symposium 2 Boehringer Ingelheim International GmbH	Lunch Symposium 3 Mundipharma		Lunch Symposium 4 ResMed	Lunch Symposium 5 Eli Lilly	
14:00-15:30	Symposium 9 Interstitial lung disease 2 - Clinical management of interstitial lung diseases	Symposium 10 Tuberculosis 1 - Addressing MDR-TB in the era of end-TB strategy	Symposium 11 Environmental & occupational health and epidemiology - Particulate air pollution and cardiopulmonary health	Oral Session 6 Lung cancer 1	Symposium 12 Young investigator award	Oral Session 7 Critical care medicine 1	Oral Session 8 Respiratory infections (non-tuberculosis) 1	Poster Session 2
15:30-16:00					Coffee Break			
16:00-17:30	Symposium 13 Lung cancer 1 - Treatment for oligometastases	Symposium 14 Respiratory infections (non-tuberculosis) 1 - Invasive pulmonary fungal infection	Symposium 15 Critical care medicine 1 - Update in critical care	Oral Session 9 Asthma 1	Symposium 16 Young investigator award	Oral Session 10 Environmental & occupational health and epidemiology	Oral Session 11 Interstitial lung disease 1	
17:45-18:45						Evening Symposium 1 MSD Taiwan		
Registration	07:00-18:45 @Lobby, 1F							
Exhibition	09:30-17:30 @South & North Foyer, 1F / Room 101 / Corridor 1&2F							
Poster	11:00-17:30 @Banquet Hall, 3F							

## Saturday 1 December 2018

Time/Room	Plenary Hall 3F	201ABC 2F	201DEF 2F	VIP 4F	102 1F	103 1F	105 1F	Banquet Hall 3F
07:15-08:00				APSR Assembly Meetings				
08:10-08:50	Plenary Lecture Memorial Lecture 1: Ann Janet Woodcock Research Award							
09:00-10:30	Symposium 17 COPD 2	Symposium 18 Clinical respiratory medicine - Presidents' symposium 2	Symposium 19 Critical care medicine 2 - Management of acute respiratory failure	Symposium 20 Pulmonary and surgical interventions for pulmonary hypertension	Oral Session 12 Respiratory neurobiology and sleep	Oral Session 13 Clinical respiratory medicine 2	Oral Session 14 Bronchoscopy and interventional techniques 2	
10:30-11:00	Symposium 21 Lung cancer 2 - Immunotherapy for lung cancer	Symposium 22 Respiratory infections (non-tuberculous) 2 - Pulmonary diseases caused by nontuberculous mycobacteria (NTM) <i>Co-organized by ISIC working group on Mycobacteria</i>	Symposium 23 Bronchoscopy and interventional techniques - Bronchoscopic treatment of benign lung disease	Oral Session 15 COPD 2 - Inflammatory mechanisms and immunomodulation in COPD	Oral Session 16 Paediatric lung disease	Oral Session 17 Critical care medicine 2	Oral Session 18 Pulmonary circulation	Poster Session 3
11:00-12:30		Lunch Symposium 6 AstraZeneca Taiwan	Lunch Symposium 7 GSK	Lunch Symposium 8 Chiesi and OEP	Lunch Symposium 9 Boehringer Ingelheim International GmbH	Lunch Symposium 10 Novartis	Lunch Symposium 11 Novartis	
12:45-13:45		Symposium 25	Symposium 26 Paediatric lung disease 1 - Is bronchopulmonary dysplasia preventable?	Oral Session 19 Asthma 2	Oral Session 20 Tuberculosis 2	Oral Session 21 Cell and molecular biology	Oral Session 22 Respiratory infections (non-tuberculosis) 2	Poster Session 4
14:00-15:30	Symposium 24 Lung cancer 3 - Update on targeted therapy	Symposium 25 Clinical respiratory medicine 1 - Current state of treatment for pleural disease	Symposium 26 Paediatric lung disease 1 - Is bronchopulmonary dysplasia preventable?	Oral Session 19 Asthma 2	Oral Session 20 Tuberculosis 2	Oral Session 21 Cell and molecular biology	Oral Session 22 Respiratory infections (non-tuberculosis) 2	
15:30-16:00	Symposium 27	Symposium 28	Symposium 29 Paediatric lung disease 2 - Paediatric asthma	Oral Session 23 Lung cancer 2	Oral Session 24 Tuberculosis 3	Oral Session 25 Clinical allergy and immunology	Oral Session 26 Interstitial lung disease 2	
16:00-17:30	Clinical respiratory medicine 2 - Respiratory neurobiology and sleep Update of lung transplantation	Symposium 28 Respiratory neurobiology and sleep apnea syndrome	Paediatric lung disease 2 - Paediatric asthma	Lung cancer 2	Tuberculosis 3	Clinical allergy and immunology	Interstitial lung disease 2	
17:45-18:45		Evening Symposium 2 Chiesi & OEP	Evening Symposium 3 GSK	Evening Symposium 4 Roche	Evening Symposium 4 Roche	Evening Symposium 5 Novartis	Evening Symposium 6 AstraZeneca Taiwan	
Registration	07:00-18:45 @Lobby, 1F							
Exhibition	09:30-17:30 @South & North Foyer, 1F / Room 101 / Corridor 1&2F							
Poster	11:00-17:30 @Banquet Hall, 3F							
Gala Dinner	19:00-21:00 @Grand Ballroom II, 3F, Grand Hyatt Taipei (ticket event)							

## Sunday 2 December 2018

Time/Room	Plenary Hall 3F	201ABC 2F	201DEF 2F	102 1F
08:10-08:50	Plenary Lecture Memorial Lecture 2: Michiyoshi Harasawa Research Award			
09:00-10:30	Symposium 30 Asthma 1 - Phenotypes of severe asthma and evolving treatment	Symposium 31 Tuberculosis 2 - Management of latent TB infection (LTBI): An update	Symposium 32 Clinical respiratory medicine 3 - Recent advance in thoracic imaging biomarker and functional imaging of the chest	Oral Session 27 COPD 3 - Advance treatment and pulmonary rehabilitation in COPD
10:30-11:00	Symposium 33 Asthma 2 - Novel pathogenesis of severe asthma	Symposium 34 Cell and molecular biology - Therapeutics in advanced lung diseases	Symposium 35 Clinical allergy and immunology - Allergic pathogenesis of non-allergic airway diseases	Oral Session 28 Lung cancer 3
12:30-13:00	Closing Ceremony			
Registration	07:00-13:00 @Lobby, 1F			
Exhibition	09:00-12:30 @South & North Foyer, 1F / Room 101 / Corridor 1&2F			
Poster	09:00-11:00 @Banquet Hall, 3F			
Half-day City Tour	13:00-18:00 (ticket event)			

# SCIENTIFIC PROGRAM

Thursday 29 November 2018

09:00-12:00

Room 201A, 2F

## Pre-congress Workshop 1

### Respiratory infections (non-tuberculosis) - Molecular diagnosis of pneumonia

Chair: Yuan-Pu (Peter) Di (United States)

Chair: Po-Ren Hsueh (Taiwan)

- 09:00 **W01-1 Multiplex PCR for etiologic diagnosis of pneumonia: Reality and practice**  
Beth Lingenfelter (United States)
- 09:30 **W01-2 MDR threats: Challenge of antimicrobial resistance in 2018**  
Yuan-Pu (Peter) Di (United States)
- 10:30 **W01-3 Etiology diagnosis of pneumonia: Unmet medical need**  
Jung-Yien Chien (Taiwan)
- 11:00 **Demonstration and instruction**  
All speakers

09:00-12:00

Room 201BC, 2F

## Pre-congress Workshop 2

### Bronchoscopy and interventional techniques 1 - Interventional workshop

Chair: Pyng Lee (Singapore)

Chair: Chih-Yen Tu (Taiwan)

- 09:00 **W02-1 Radial probe Endobronchial Ultrasound (EBUS) in Peripheral Lung Lesions (PPL)**  
Chih-Yen Tu (Taiwan)
- 09:45 **W02-2 Virtual bronchoscopic navigation system and BTPNA of peripheral lung lesions**  
Jiayuan Sun (China)
- 10:30 **W02-3 Clinical aspects of EBUS TBNA and EUS-B FNA**  
Hwangbo Bin (Korea)
- 11:15 **W02-4 Medical pleuroscopy: Equipment, procedure, and complications**  
Chia-Hung Chen (Taiwan)

09:00-12:00

Room 201DE, 2F

**Pre-congress Workshop 3**  
**Lung cancer - Early detection of lung cancer**

Chair: Inn-Wen Chong (Taiwan)

Chair: Hui-Ping Liu (Taiwan)

- 09:00    **W03-1 Early lung cancer pathological view point**  
William David Travis (United States)
- 09:50    **W03-2 Low dose CT screening of lung cancer for never smokers**  
Pan-Chyr Yang (Taiwan)
- 10:40    **W03-3 New advances in surgery for early lung cancer**  
Jin-Shing Chen (Taiwan)
- 11:30    **Discussion**  
All speakers

09:00-12:00

Room 201F, 2F

**Pre-congress Workshop 4**  
**Respiratory neurobiology and sleep 1 - Home ventilator during sleep**

Chair: Li-Pang Chuang (Taiwan)

Chair: Naricha Chirakalwasan (Thailand)

- 09:00    **W04-1 Acute NIV in the real world – what is needed to achieve the results from clinical trials in everyday practice?**  
Mark William Elliott (United Kingdom)
- 09:36    **W04-2 Breath-easy NIV design from nebulization to ventilation**  
Kang-Ping Lin (Taiwan)
- 10:12    **W04-3 Compliance with home non-invasive ventilation**  
Suet Lai Cheng (Hong Kong)
- 10:48    **W04-4 Current evidence of NIV implication during post extubation**  
Naricha Chirakalwasan (Thailand)
- 11:24    **W04-5 NIV in COPD**  
Ming-Ju Tsai (Taiwan)

09:00-12:30

Room 105, 1F

**Pre-congress Workshop 5**

**RESPIROLOGY workshop: Author awareness of transparency for successful publishing**

- 09:00 **W05-1 Modern-day multilevel transparency in science publishing**  
Paul Reynolds/ Co-Editor-in-Chief RESPIROLOGY
- 09:30 **W05-2 Journal transparency in peer review**  
Philip Bardin/ Co-Editor-in-Chief RESPIROLOGY
- 09:55 **W05-3 Openness in manuscript writing**  
Anke van Eekelen  
Lieve Bultynck/ Editorial office, RESPIROLOGY
- 10:45 **Morning tea**
- 11:00 **W05-4 Sharing research facilitates collaboration**  
Martin Kolb/ Chief editor, European Respiratory Journal (ERJ)
- 11:25 **W05-5 Track record transparency: Open Researcher and Contributor ID (ORCID)**  
Chieh-Chih Estelle Cheng/ Engagement lead, Asia-Pacific region, ORCID
- 11:50 **W05-6 Clarity on open access publishing**  
Alison Bell/ Journal publishing manager  
Research, WILEY
- 12:15 **The reality of achieving transparency in the wider Asia Pacific region**  
Panel of all speakers  
**Chair:** Paul Reynolds

09:00-12:00

North Lounge, 3F

**Pre-congress Workshop 6**

**Interstitial lung disease - IPF treatment in real world**

Chair: Yoshikazu Inoue (Japan)

Chair: Luca Richeldi (Italy)

- 09:00 **W06-1 Anti-fibrotic drugs for Idiopathic pulmonary fibrosis post-marketing surveillance in Japan**  
Susumu Sakamoto (Japan)
- 09:50 **W06-2 IPF registry in Taiwan**  
Hao-Chien Wang (Taiwan)
- 10:40 **W06-3 Real world experience of IPF treatment in western countries**  
Luca Richeldi (Italy)
- 11:30 **W06-4 The pathogenesis and unresolved issues of idiopathic pulmonary fibrosis**  
Naozumi Hashimoto (Japan)



**14:00-17:00**
**Room 201A, 2F**
**Pre-congress Workshop 7**
**Severe asthma**

Chair: Po-Jui Chang (Taiwan)

Chair: Akio Niimi (Japan)

- 14:00 **W07-1 Management of severe asthma using biologics with greater precision**  
Hisako Matsumoto (Japan)
- 15:00 **W07-2 Bronchial thermoplasty for the treatment of severe asthma: Who are the right patients?**  
Akio Niimi (Japan)
- 16:00 **W07-3 Corticosteroid insensitivity in severe asthma: Mechanisms and clinical**  
Po-Jui Chang (Taiwan)

**14:00-17:00**
**Room 201BC, 2F**
**Pre-congress Workshop 8**
**Bronchoscopy and interventional techniques 2 - Interventional workshop**

Chair: Pyng Lee (Singapore)

Chair: Chih-Yen Tu (Taiwan)

- 14:00 **W08-1 EBUS-TBNA (Hands-on)**  
Hwangbo Bin (Korea)
- 14:45 **W08-2 Radial EBUS (Hands-on)**  
Chih-Yen Tu (Taiwan)
- 15:30 **W08-3 Lung point/ virtual bronchoscopy (Hands-on)**  
Jiayuan Sun (China)
- 16:15 **W08-4 Pleuroscopy (Hands-on)**  
Chia-Hung Chen (Taiwan)

**14:00-17:00**
**North Lounge, 3F**
**Pre-congress Workshop 9**
**Clinical respiratory medicine - How to approach small lung nodule**

Chair: Hsao-Hsun Hsu (Taiwan)

Chair: Yeun-Chung Chang (Taiwan)

- 14:00 **W09-1 CT appearance of small lung nodules**  
Hyaе Young Kim (Korea)
- 14:25 **W09-2 Preoperative CT-guided localization of lung nodule with dye injection**  
Yee-Fan Lee (Taiwan)
- 14:50 **W09-3 Hybrid operating room dyna-computed tomography-guided small lung tumor localization: Experience of a thoracic surgeon**  
Yin-Kai Chao (Taiwan)

- 15:15           **Discussion**  
All speakers
- 15:25           **Break time**
- 15:35    **W09-4 Preoperative CT-guided localization of lung nodule with coil implantation**  
Hsin-Chieh Huang (Taiwan)
- 16:00    **W09-5 Electromagnetic navigation-guided preoperative localization for small pulmonary nodule**  
Po-Kuei Hsu (Taiwan)
- 16:25    **W09-6 Management and follow-up after surgical resection of small lung nodules**  
Mong-Wei Lin (Taiwan)
- 16:50           **Discussion**  
All speakers

**14:00-17:30**

**Room 201F, 2F**

**Pre-congress Workshop 10**  
**Respiratory neurobiology and sleep 2 - Home ventilator during sleep**

Chair: Fang Han (China)

Chair: Kuo-Liang Chiu (Taiwan)

- 14:00    **W10-1 Non-invasive ventilation for patients with heart failure**  
Kuo-Liang Chiu (Taiwan)
- 14:30    **W10-2 Nocturnal hypoventilation and non-invasive ventilation in amyotrophic-lateral-sclerosis patients with daytime normocapnia**  
Pei-Lin Lee (Taiwan)
- 15:00    **W10-3 The factors affect humidity on NIV**  
Chung-Chieh Yu (Taiwan)
- 15:30    **W10-4 The remote management of PAP utility through telemedicine system**  
Fang Han (China)
- 16:00    **W10-5 Hands-on practice of NIV**  
Ming-Tzer Lin (Taiwan)
- 16:20    **W10-6 Hands-on practice of NIV**  
Yung-Lun Ni (Taiwan)
- 16:40    **W10-7 Hands-on practice of NIV**  
Shih-Wei Lin (Taiwan)
- 17:00    **W10-8 Hands-on practice of NIV**  
Ching-Lung Liu (Taiwan)

**14:00-17:00**
**Room 105, 1F**
**Pre-congress Workshop 11**  
**China day**

Chair: Chunxue Bai (China)

Chair: Rongchang Chen (China)

Chair: Kwun Fong (Australia)

- 14:00 **W11-1 Early detection of lung cancer in China**  
Chunxue Bai (China)
- 14:30 **W11-2 Localization and treatment of pulmonary peripheral nodules by bronchoscopy**  
Jiayuan Sun (China)
- 15:00 **W11-3 Early detection of lung cancer with AI**  
Yu Zhu (China)
- 15:30 **W11-4 TBC**  
Kwun Fong (Australia)
- 16:00 **W11-5 Genetic variants in the TNF/TNFR signaling pathway genes predict survival of non-small cell lung cancer patients in the PLCO Cancer Screening Trial**  
Yun Feng (China)
- 16:05 **W11-6 Next generation sequencing assisted pathogenic detection can improve outcomes in immunocompromised host with pulmonary infection**  
Donghui Zhang (China)
- 16:10 **W11-7 Analysis of 35 cases of bronchial fistula cured by implantation of nitinol double drum type occluder**  
Yu Chen (China)
- 16:15 **W11-8 Spirometer validation using a flow/volume simulator has**  
Yi Gao (China)
- 16:20 **W11-9 Investigating microRNA-mRNA interactions in the COPD microenvironment by next-generation sequencing and bioinformatics**  
Wei-An Chang (Taiwan)
- 16:25 **W11-10 Mitofusins in type 2 alveolar cells are required for metabolic adaptation in pulmonary fibrosis**  
Kuei-Pin Chung (Taiwan)
- 16:30 **W11-11 Presence of pldA and exoU in mucoid Pseudomonas aeruginosa associated with high risk of exacerbations in non-CF bronchiectasis patients**  
Rongguang Lou (China)
- 16:35 **W11-12 Deciphering microenvironment of NSCLC based on CD8+ TIL density and PD-1/PD-L1 expression**  
Jincui Gu (China)
- 16:40 **W11-13 Evaluation of the efficacy and safety of intrapleural injection of Bevacizumab treatment of malignant pleural effusion caused by lung adenocarcinoma**  
Yan Gu (China)
- 16:45 **W11-14 Prenatal chronic intermittent hypoxia leads to early atherosclerotic lesions and upregulates Caveolin-1 expression in rats**  
Huihuang Lin (China)

14:00-17:00

Room 201DE, 2F

**Pre-congress Workshop 12**

**Interventional pulmonology techniques - Ultrasound diagnosis in chest diseases and ultrasound-guided needle aspiration biopsy (Hands-on Session)**

Chair: Wu-Huei Hsu (Taiwan)

Chair: Hao-Chien Wang (Taiwan)

- 14:00 **W12-1 Transthoracic ultrasonography in lung tumor**  
Yao-Wen Kuo (Taiwan)
- 14:20 **W12-2 Clinical applications of color doppler ultrasound in chest diseases**  
Wu-Huei Hsu (Taiwan)
- 14:40 **W12-3 Transthoracic ultrasound-guided needle aspiration biopsy in chest disease**  
Hao-Chien Wang (Taiwan)
- 15:00 **W12-4 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
Yao-Wen Kuo (Taiwan)
- 15:20 **W12-5 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
Chun-Kai Huang (Taiwan)
- 15:40 **W12-6 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
Yung-Hsuan Chen (Taiwan)
- 16:00 **W12-7 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
Ying-Chun Chien (Taiwan)
- 16:20 **W12-8 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
Yen-Lin Chen (Taiwan)
- 16:40 **W12-9 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
You-Yi Chen (Taiwan)
- 17:00 **W12-10 Ultrasound-guided needle aspiration biopsy (Hands-on)**  
I-Hsien Lee (Taiwan)

17:30-18:20

Plenary Hall, 3F

**Opening Ceremony**

## Friday 30 November 2018

08:10-08:50

Plenary Hall, 3F

### Plenary Lecture

#### Presidential lecture

Chair: Chong-Jen Yu (Taiwan)

Chair: Shu Hashimoto (Japan)

08:10 **PL1 Mitochondria and respiratory disease**  
 Augustine M.K. Choi (United States)

09:00-10:30

Plenary Hall, 3F

### Symposium 1

#### COPD 1

Chair: Hen-I Lin (Taiwan)

Chair: Chin-Kook Rhee (Korea)

09:00 **S01-1 COPD guidelines in the Asia-Pacific regions: Similarities and differences**  
 Shih-Lung Cheng (Taiwan)

09:30 **S01-2 Factors influencing the management of COPD in Asia: Current status**  
 Chin Kook Rhee (Korea)

10:00 **S01-3 The management of COPD: Past, present, and future**  
 Kenneth R. Chapman (Canada)

09:00-10:30

Room 201ABC, 2F

### Symposium 2

#### Clinical respiratory medicine - Presidents' symposium 1

Chair: Yoichi Nakanishi (Japan)

Chair: Philip Eng (Singapore)

09:00 **S02-1 CT screening for lung cancer in 2018**  
 Kwun Fong (Australia)/ APSR President

09:22 **S02-2 Biomarker study in sepsis**  
 Chong-Jen Yu (Taiwan)/ APSR 2018 Congress President

09:44 **S02-3 Targeted therapy in patients with non-small cell lung cancer- issues beyond target**  
 Meng-Chih Lin (Taiwan)/ TSPCCM President

10:06 **S02-4 Occupational related interstitial lung disease**  
 Clayton T. Cowl (United States)/ CHEST President

09:00-10:30

Room 201DEF, 2F

### Symposium 3

#### Respiratory structure and function - Emerging technology for pulmonary structure and function

Chair: Yuh-Chin Tony Huang (United States)

Chair: Yu-Sen Huang (Taiwan)

- 09:00 **S03-1 FeNO, an update**  
Hisatoshi Sugiura (Japan)
- 09:30 **S03-2 Quantitative CT imaging of lung**  
Yu-Sen Huang (Taiwan)
- 10:00 **S03-3 Hyperpolarized 129Xe MRI: Beyond ventilation**  
Bastiaan Driehuys (United States)

09:00-10:30

Room VIP, 4F

### Symposium 4

#### Pulmonary circulation 1- Diagnosis and registry for pulmonary hypertension

Chair: Nobuhiro Tanabe (Japan)

Chair: Masayuki Hanaoka (Japan)

- 09:00 **S04-1 Brief review of NICE PH conference**  
Masayuki Hanaoka (Japan)
- 09:30 **S04-2 Etiology, diagnosis, and management of hepatopulmonary syndrome and portopulmonary hypertension**  
Sonja Bartolome (United States)
- 10:00 **S04-3 Preliminary report of CTEPH registry in Taiwan**  
Wei-Chih Liao (Taiwan)

09:00-10:30

Room 103, 1F

### Oral Session 1

#### Tuberculosis 1

Chair: Jennifer Ann M. Wi (Philippines)

Chair: Charles Lamar Daley (United States)

- 09:00 **AO001 Association between nutritional status using malnutrition screening tool and bacterial load among MDR-TB patients**  
Andi Puji Pratiwi\*, Farah Vidiast, Sarah Naura Irbah, Diah Handayani (Indonesia)
- 09:10 **AO002 Pharmacovigilance for public health utility - safety monitoring of new regimen for latent tuberculosis infection treatment**  
Pei-Chun Chan\*, Pin-Hui Lee, Min-Ju Lu, You-Chieh Huang, Wen-Wen Chen, Chia-Chi Lee, Yen-Fang Huang (Taiwan)



- 09:20 **AO003 Public-private mix activities in enhancing tuberculosis case notifications in Surabaya, Indonesia**  
Tutik Kusmiati\*, Desilia Atikawati, Soedarsono Soedarsono, Erlina Burhan (Indonesia)
- 09:30 **AO004 GeneXpert MTB/RIF for rapid diagnosis and rifampin resistance detection of endobronchial tuberculosis**  
Qin Zhang\*, Qing Zhang, Bing-Qi Sun, Chang Liu, An-Na Su, Xiao-Han Wang, Na Liu, Juan Zhang, Jian Kang, Gang Hou (China)
- 09:40 **AO005 Efficacy and safety of delamanid for pulmonary multi-drug resistant tuberculosis**  
Kazunari Tsuyuguchi\*, Shiomi Yoshida, Takehiko Kobayashi, Yu Kurahara, Yoshikazu Inoue, Katsuhiko Suzuki, Seiji Hayashi (Japan)
- 09:50 **AO006 Poly-functional CD8 T cells can discriminate MAC lung disease from airway colonization in non-HIV host**  
Chin-Chung Shu\*, Ping-Huai Wang (Taiwan)
- 10:00 **AO007 Rare extrapulmonary tuberculosis - four cases report**  
Eliana Muis\*, Muhammad Ilyas, Harry Iskandar, Nur Ahmad Tabri, Erwin Arief, Irawaty Djaharuddin, Mirnawati Mappiare, Dewi Resnawita, Fahidah Faisal, Marlina Rays (Indonesia)
- 10:10 **AO008 Quantiferon-TB gold plus is more sensitive than quantiferon-TB gold in-tube for latent tuberculosis infection among residents in long-term care facility**  
Jung-Yien Chien\*, Chong-Jen Yu, Yen-Hsu Chen, Po-Ren Hsueh (Taiwan)

09:00-10:30

Room 105, 1F

**Oral Session 2**

**Bronchoscopy and interventional techniques 1**

Chair: Phan Nguyen (Australia)

Chair: Pyng Lee (Singapore)

- 09:00 **AO009 Changes in ventilation and perfusion following lower lobe Endoscopic Lung Volume Reduction (ELVR) with endobronchial valves in patients with severe COPD**  
Li Yang\*, Kelvin Hsu, Jonathan Williamson, Matthew Peters, Alvin Ing (Australia)
- 09:10 **AO010 Analysis of 35 cases of bronchial fistula cured by implantation of nitinol double drum type occluder**  
Yu Chen\*, Shiyue Li, Changhao Zhong, Xiaobo Chen, Chunli Tang (China)
- 09:20 **AO011 Utility and safety of cobalt chromium needle for Endobronchial Ultrasound-guided Transbronchial Needle Aspiration (EBUS-TBNA)**  
Keigo Uchimura\*, Kei Yamasaki, Takashi Tachiwada, Shingo Noguchi, Toshinori Kawanami, Takashi Kido, Akira Kisohara, Kazuhiro Yatera (Japan)
- 09:30 **AO012 Usefulness of transesophageal bronchoscopic ultrasound-guided fine-needle sspiration in the diagnosis of mediastinal lesions adjacent to the esophagus**  
Wei-Chun Huang\*, Chia-Hung Chen, Biing-Ru Wu, Wen-Chien Cheng, Wei-Chih Liao Liao, Te-Chun Hsia, Wu-Huei Hsu, Chih-Yen Tu (Taiwan)

- 09:40 **AO013** **Is bronchoscopy indicated in patients with hemoptysis when the CT is normal?**  
T. K. LIM (Singapore)
- 09:50 **AO014** **Feasibility and clinical impact of re-biopsy in advanced lung adenocarcinoma after progresses during first-line epidermal growth factor receptor-tyrosine kinase inhibitors**  
Chih-Yen Tu\*, Chia-Hung Chen, Wen-Chien Cheng, Wei-Chih Liao, Biing-Ru Wu, Te-Chun Hsia, Wu-Huei Hsu (Taiwan)
- 10:00 **AO015** **The role of CT-guided percutaneous transthoracic needle biopsy with Vietnam biopsy calibrator for the diagnosis of pulmonary nodules**  
Hoi Nguyen Thanh\*, The Pham Dac, Thanh Tra Van, Hanh Do Tien, Linh Pham Van, Anh Le Van, Phuong Dinh Thi (Vietnam)

11:00-12:30

Plenary Hall, 3F

### Symposium 5

#### Interstitial lung disease 1 - Pathology of interstitial lung diseases

Chair: William David Travis (United States)

Chair: Teh-Ying Chou (Taiwan)

- 11:00 **S05-1** **The pathology of acute interstitial pneumonia**  
Teh-Ying Chou (Taiwan)
- 11:30 **S05-2** **Smoking-related interstitial lung diseases: An update**  
Tamiko Takemura (Japan)
- 12:00 **S05-3** **The new classification of interstitial lung diseases: Clinical application with emphasis on therapeutics**  
William David Travis (United States)

11:00-12:30

Room 201ABC, 2F

### Symposium 6

#### Respiratory neurobiology and sleep 1 - The impact of home ventilator over the world

Chair: Yoshitaka Oku (Japan)

Chair: Pei-Lin Lee (Taiwan)

- 11:00 **S06-1** **The impact of sleep apnea**  
Kun-Ta Chou (Taiwan)
- 11:30 **S06-2** **Home care for sleep respiratory disorders in Japan**  
Kazuo Chin (Japan)
- 12:00 **S06-3** **Which patients with OSAS should be advised not to drive?**  
Mark William Elliott (United Kingdom)

11:00-12:30

Room 201DEF, 2F

### Symposium 7

#### E-cigarette and health

Chair: Inn-Wen Chong (Taiwan)

Chair: Yasuo Morimoto (Japan)

- 11:00 **S07-1 E-cigarette, short term and long term effects on health**  
Shu Ying Lo (Taiwan)
- 11:30 **S07-2 Target control on tobacco MS/ETS- and e-Cigarettes-Mediated airway mucosal immunity and lung remodeling**  
Reen Wu (United States)
- 12:00 **S07-3 E cigarette world wide legislation**  
Philip Eng (Singapore)

11:00-12:30

Room 102, 1F

### Symposium 8

#### Clinical Respiratory Medicine - Emerging threat of respiratory diseases in Asia-pacific

Chair: David C. L. Lam (Hong Kong)

Chair: Ngo Quy Chau (Vietnam)

- 11:00 **S08-1 Current status and perspectives of COPD**  
Nanshan Zhong (China)
- 11:30 **S08-2 Rising threat of lung cancer**  
Pan-Chyr Yang (Taiwan)
- 12:00 **S08-3 Issues of respiratory infection in Asia- pneumonia in elderly patients and emerging infectious diseases**  
Shigeru Kohno (Japan)

11:00-12:30

Room VIP, 4F

### Oral Session 3

#### COPD 1 - Epigenetics and microbiom in COPD

Chair: Chin Kook Rhee (Korea)

Chair: Kuo-Chin Chiu (Taiwan)

- 11:00 **AO016 Linking airway gene expression and lung microbiome in Chronic Obstructive Pulmonary Disease (COPD)**  
Samuel Tait\*, Hannah O'Farrell, Janet Shaw, Brielle Parris, Rayleen Bowman, Kwun Fong, Ian Yang (Australia)
- 11:10 **AO017 Investigating microRNA-mRNA interactions in the COPD microenvironment by next-generation sequencing and bioinformatics**  
Wei-An Chang\*, Ming-Ju Tsai, Shu-Fang Jian, Chau-Chyun Sheu, Po-Lin Kuo (Taiwan)
- 11:20 **AO018 The effect and related mechanism of Phosphodiesterase 4 (PDE4) inhibitor on CD4+ T lymphocyte proliferation**  
Shin young Kim\*, Hyoung Kyu Yoon, Chin Kook Rhee, Seung Hoon Kim (Korea)

- 11:30 **AO019 The role of miR-21/SMAD7/TGF- $\beta$  pathway in COPD and the influence on activation of Th17 cell**  
Lihua Xie\*, Shengyang He, Junjuan Lu, Shenghua Sun (China)
- 11:40 **AO020 Decreased levels of PTEN, a negative regulator of Phosphoinositide 3-kinase (PI3K)/Akt pathway, are correlated with obstructive impairment of chronic obstructive pulmonary disease**  
Tamaki Kawamoto\*, Kazuhiro Yamada, Kazuhisa Asai, Kanako Sato, Toshiyuki Nakai, Norio Yamamoto, Naoki Ijiri, Tetsuya Watanabe, Kazuto Hirata, Tomoya Kawaguchi (Japan)
- 11:50 **AO021 Observation of the effect of metered dose inhalers and electrical impedance tomography patterns on mechanically ventilated patients with acute exacerbation of obstructive pulmonary diseases**  
Chien-Hung Gow\*, Hui-Ju Hsu, Jia-Hao Zhang, Hou-Tai Chang, Zhanqi Zhao (China)
- 12:00 **AO022 Small molecule C enhances cellular metabolism via CREB signalling in experimental models of COPD**  
Jooyeon Lee\*, Hanbyeol Lee, Youngheon Park, Se-Ran Yang (Korea)
- 12:10 **AO023 Changes of new epigenetic modifications in the lungs of cigarette smoke extract-induced murine emphysema model**  
Xue He, Tiao Li, Yan Chen, Lijuan Luo\* (China)

11:00-12:30

Room 103, 1F

#### Oral Session 4

#### Clinical respiratory medicine 1

Chair: Thomas Mok (Hong Kong)

Chair: Yuki Kataoka (Japan)

- 11:00 **AO024 Pattern of sputum culture in adult patients with bronchiectasis in the top end of Australia**  
Chor Kiu Lam\*, Sumit Mehra, Stuart Campbell, Subash Heraganahally (Australia)
- 11:10 **AO025 Endothelin-1 induces mesothelial mesenchymal transition and correlates with pleural fibrosis in tuberculous pleural effusions**  
Chi-Li Chung\*, Zhung-Han Wu, Wei-Lin Chen, Mei-Chuan Chen (Taiwan)
- 11:20 **AO026 The correlation between smoking status and urinary cotinine level with FEF<sub>25-75%</sub> in high school students**  
Helmia Hasan\*, Trisasonko Budisatrio (Indonesia)
- 11:30 **AO027 Implementation of collaborative nursing interventions and pointing and calling for checking and delivering ventilation parameters of invasive mechanical ventilator**  
Yip Fung Cheung (Hong Kong)
- 11:40 **AO028 Additional role of bronchial mucosal biopsy for ciliary structural abnormality in diagnosis of primary ciliary dyskinesia**  
Hyun-Il Gil\*, Taebum Lee, Byeong-Ho Jeong, Hyun Lee, So-Young Park, Kyeongman Jeon, Kangmo Ahn, Won-Jung Koh, Jung-Sun Kim, Hye Yun Park (Korea)

- 11:50 **AO029 Effect of oral chlorhexidine in preventing hospital-acquired pneumonia among non-intubated patients in the Philippines**  
Martin Kristoffer Ogbac (Philippines)
- 12:00 **AO030 The use of Medical Research Council (MRC) dyspnoea grade in predicting peak oxygen uptake and eork rate in undifferentiated dyspnoea**  
Geak Poh Tan\*, Gin Tsen Chai, Danqing Qi, Yusmarita Bte Mohd Yusoff, Chu Ying Gan, John Arputhan Abisheganaden (Singapore)
- 12:10 **AO031 Pulmonary rehabilitation in Japan: A position statement from the JSRCR/JSRPT/JRS**  
Jun Ueki\*, Ryo Kozu, Tetsuro Ohdaira, Hideki Katsura, Hajime Kurosawa, Emika Sano (Japan)

**11:00-12:30**

**Room 105, 1F**

**Oral Session 5**

**Respiratory structure and function**

Chair: Liang-Wen Hang (Taiwan)

Chair: Hajime Kurosawa (Japan)

- 11:00 **AO032 Chronic inhalation of unflavored nicotine and no-nicotine containing electronic cigarette vapor leads to impaired lung function**  
Victor Chun\*, Alex Moshensky, John Shin, Laura Crotty Alexander (United States)
- 11:10 **AO033 Astrocytic activation is necessary for hypoxic respiratory facilitation**  
Isato Fukushi\*, Makoto Uchiyama, Yuki Kurita, Itaru Yazawa, Shuntaro Okazaki, Yosuke Kono, Kotaro Takeda, Hiroshi Onimaru, Yasuo Mori, Yasumasa Okada (Japan)
- 11:20 **AO034 Retrospective analysis of five years on single center pulmonary function test**  
Wei Lei\*, Fei Li, Xiao-Fei Wang, Ye-Han Zhu, Jian-An Huang (China)
- 11:30 **AO035 Comparative analysis of PFT and 3D low dose chest CT based lung volume assessments in Scoliosis patients before and after surgical correction**  
Eun Mi Chun\*, Donkyu Lee (Korea)
- 11:40 **AO036 Inter-operator variabilities of airway indices in MDCT images of COPD patients**  
Satoru Kawashima\*, Daisuke Kinose, Mikiko Sawada, Hiroaki Nakagawa, Kentaro Fukunaga, Masafumi Yamaguchi, Makoto Osawa, Taishi Nagao, Emiko Ogawa, Yasutaka Nakano (Japan)
- 11:50 **AO037 Spirometer validation using a flow/volume simulator**  
Yi Gao\*, Yimin Kuang, Qiaohui Wu, Jinping Zheng (China)
- 12:00 **AO038 Quantitative assessment of airway structure using ultra-high resolution computed tomography**  
Hiroshi Shima\*, Naoya Tanabe, Tsuyoshi Oguma, Susumu Sato, Satoshi Kozawa, Takeshi Kubo, Koji Koizumi, Atsuyasu Sato, Kaori Togashi, Toyohiro Hirai (Japan)
- 12:10 **AO039 The value of respiratory biphasic pulse oscillation index in differential diagnosis of chronic obstructive pulmonary disease and asthma and the diagnosis of emphysema**  
Xin Ai\*, Mengshuang Xie, Xinyu Tian, Shuang Dou, Liwei Cui, Dexiang Wang, Chunhong Liu, Wei Xiao (China)

12:45-13:45

Room 201ABC, 2F

**Lunch Symposium 1 - AstraZeneca Taiwan**

**Time for new treatment paradigm in milder asthma?**

Chair: Diahn-Warng Perng (Taiwan)

- 12:45 **LS01-1 Overuse of SABA and underuse of ICS in milder asthma - the asthma paradox**  
Philip Bardin (Australia)
- 13:15 **LS01-2 Challenges in the treatment of patients with milder asthma**  
Ping-Hung Kuo (Taiwan)

12:45-13:45

Room 201DEF, 2F

**Lunch Symposium 2 - Boehringer Ingelheim International GmbH**

**Progressive pulmonary fibrosis: Current and future perspectives**

Chair: Meng-Chih Lin (Taiwan)

Chair: Athol Wells (United Kingdom)

- 12:45 **LS02-1 Diagnosis of IPF: Guidelines and practice**  
Athol Wells (United Kingdom)
- 13:05 **LS02-2 Optimal use of antifibrotic therapies in IPF**  
Martin Kolb (Canada)
- 13:25 **LS02-3 Ongoing research in progressive fibrosing ILDs**  
Luca Richeldi (Italy)

12:45-13:45

Room VIP, 4F

**Lunch Symposium 3 - Mundipharma**

**REALISEing the power of transformative RWEs**

Chair: Hao-Chien Wang (Taiwan)

- 12:45 **LS03-1 Tailoring asthma management to your patients: Realizations from REALISE ASIA**  
Aileen David Wang (Philippines)
- 13:05 **LS03-2 What is TRANSFORMing asthma practice: DPI, pMDI or upcoming breath triggered inhalers?**  
Chin-Kook Rhee (Korea)
- 13:25 **LS03-3 How will exacerbation rates from RWEs impact your practice?**  
Dato Abdul Razak Abdul Muttalif (Malaysia)

12:45-13:45

Room 103, 1F

**Lunch Symposium 4 - ResMed**

**From hospital to home - NIV management for COPD patient**

Chair: Naricha Chirakalwasan (Thailand)

Chair: Ning-Hung Chen (Taiwan)

- 12:50 **LS04-1 Overview of NIV management in Asia**  
Ning-Hung Chen (Taiwan)



13:00 **LS04-2 From hospital to home - NIV management for COPD patient**  
Mark William Elliott (United Kingdom)

**12:45-13:45**

**Room 105, 1F**

**Lunch Symposium 5 - Eli Lilly**  
**Optimize the clinical benefit of chemotherapy for NSCLC**

Chair: Yuh-Min Chen (Taiwan)

12:45 **LS05-1 Does the era of chemotherapy really end?**  
Te-Chun Hsia (Taiwan)

13:05 **LS05-2 Evolving treatment landscape in NSCLC**  
Egbert Smit (Netherlands)

13:35 **Q&A**

**14:00-15:30**

**Plenary Hall, 3F**

**Symposium 9**  
**Interstitial lung disease 2 - Clinical management of interstitial lung diseases**

Chair: Ganesh Raghu (United States)

Chair: Hao-Chien Wang (Taiwan)

14:00 **S09-1 TBC**  
TBC

14:18 **S09-2 Update of IPF diagnosis guideline**  
Ganesh Raghu (United States)

14:36 **S09-3 MDD for ILD diagnosis (Case 1)**  
Pin-Kuei Fu (Taiwan)

14:54 **S09-4 MDD for ILD diagnosis (Case 2)**  
Yueh-Feng Wen (Taiwan)

15:12 **S09-5 MDD for ILD diagnosis (Case 3)**  
Yu-Feng Wei (Taiwan)

**14:00-15:30**

**Room 201ABC, 2F**

**Symposium 10**  
**Tuberculosis 1 - Addressing MDR-TB in the era of end TB strategy**

Chair: Charles Lamar Daley (United States)

Chair: Wei-Juin Su (Taiwan)

14:00 **S10-1 Management of multidrug-resistant tuberculosis: Updates on shortened regimens**  
Chen-Yuan Chiang (Taiwan)

14:30 **S10-2 New anti-tuberculosis drugs for the treatment of drug-resistant TB**  
Charles Lamar Daley (United States)

15:00 **S10-3 Management of multidrug-resistant tuberculosis in Indonesia**  
Erlina Burhan (Indonesia)

14:00-15:30

Room 201DEF, 2F

### Symposium 11

## Environmental & occupational health and epidemiology - Particulate air pollution and cardiopulmonary health

Chair: Kazuhiro Yatera (Japan)

Chair: Diahn-Warng Perng (Taiwan)

- 14:00 **S11-1 Personal exposure assessment of ambient air contaminants by a numerical simulation model**  
Chon-Lin Lee (Taiwan)
- 14:30 **S11-2 Effects of longterm air pollution exposure in COPD cohort**  
Woo Jin Kim (Korea)
- 15:00 **S11-3 Cardiopulmonary health effects from PM2.5: What a clinician needs to know**  
Yuh-Chin Tony Huang (United States)

14:00-15:30

Room VIP, 4F

### Oral Session 6

## Lung cancer 1

Chair: Chong Kin Liam (Malaysia)

Chair: Egbert Smit (Netherlands)

- 14:00 **AO040 Functional analysis of MOB1 in resectable lung adenocarcinoma**  
Nobuhisa Ando\*, Kohei Otsubo, Yasuomi Yoneshima, Eiji Iwama, Kentaro Tanaka, Kayo Ijichi, Gouji Toyokawa, Tetsuzo Tagawa, Isamu Okamoto, Yoichi Nakanishi (Japan)
- 14:10 **AO041 From immunosurveillance to immunoediting: The role of immunobiology in early lung cancer detection**  
Ying-Yin Chen, Hsin-Yi Wang, Chung-Yu Chen\* (Taiwan)
- 14:20 **AO042 Genetic variants in the c-Myb signaling pathway genes predict survival of non-small cell lung cancer patients in the PLCO cancer screening trial**  
Yi Guo\* (China), Qingyi Wei (United States)
- 14:30 **AO043 NSCLC patients with both wildtype EGFR and high CD151 expression have poorer disease outcome**  
Amanda Wong\*, Min En Nga, Hung Chew Wong, Ross Soo, Omer An, Henry Yang, John KC Tam, Ju Ee Seet, Yaw Chyn Lim, Thai Tran (Singapore)
- 14:40 **AO044 Factors predicting the efficacy of osimertinib in T790M-mutated metastatic lung adenocarcinoma**  
Chi-Hsien Huang\*, Yu-Chen Huang, Shih-Min Shen, Chien-Ying Liu, Cheng-Ta Yang, Chih-Hsi Scott Kuo (Taiwan)
- 14:50 **AO045 The clinical analysis of pulmonary lymphoepithelioma-like carcinoma with epithelioid granuloma: Fourteen cases and literature review**  
Qin Yin, Guoying Gao\*, Chengzhi Zhou, Weijie Guan, Zheng Zhu, Xiaohong Xie, Xinqing Lin, Rongchang Chen, Shiyue Li, Nanshan Zhong (China)

- 15:00     **AO046 Gemcitabine enhances anti-tumor activity of paclitaxel by modulating tubulin acetylation**  
 Wiwin Effendi\*, Tatsuya Nagano, Motoko Tachihara, Kanoko Umezawa, Tatsunori Kiri, Ryota Dokuni, Masatsugu Yamamoto, Kazuyuki Kobayashi, Yoshihiro Nishimura (Japan)
- 15:10     **AO048 Micro RNA-21 targeting PI3K/PTEN/Akt signaling axis regulates multiple biological functions in human lung cancer**  
 Yonghua Zheng\*, Ding Zhang, Feng Long, Youzhi Zhang (China)

**14:00-15:30**

**Room 102, 1F**

**Symposium 12**

**Young investigators award**

Chair: Philip Bardin (Australia)

**APSR-JRS Young Investigator:**

- 14:00     **AO211 Clinical significance of *Aspergillus* species isolated from respiratory specimens in patients with *Mycobacterium avium* complex lung disease**  
 Koji Furuuchi\*, Akihiro Ito, Toru Hashimoto, Shogo Kumagai, Tadashi Ishida (Japan)

**APSR-ERS Young Investigator:**

- 14:10     **AO213 A qualitative study exploring the barriers and challenges to asthma management as perceived by Malaysian asthmatic patients**  
 Sohail Ahmad\*, Yii Zhi Wong, Mohd Arif Mohd Zim, Ahmad Izuanuddin Ismail (Malaysia)

**APSR-JRS Young Investigator:**

- 14:20     **AO215 Identification of a new target for diagnosing idiopathic pulmonary fibrosis with autoimmune features**  
 Mari Hikichi\*, Gon Yasuhiro, shuichiro Maruoka, Tomoko Morisawa, Kenji Mizumura, Yutaka Kozu, Eriko Tsuboi, Shu Hashimoto (Japan)

**APSR-ATS Young Investigator:**

- 14:30     **AO217 Epigenetic regulation of FZD9 and iloprost lung cancer chemoprevention**  
 Meredith Tennis (United States)

**14:00-15:30**

**Room 103, 1F**

**Oral Session 7**

**Critical care medicine 1**

Chair: Rex C.W. Yung (United States)

Chair: Jean-Pierre Frat (France)

- 14:00     **AO049 Intensive care unit admission and survival in stage IV cancer patients with septic shock: A population-based cohort study**  
 Meng-Rui Lee\*, Chao-Lun Lai, K. Arnold Chan (Taiwan)
- 14:10     **AO050 Nets promotes ALI/ARDS inflammation by regulating alveolar macrophages polarization**  
 Chao Song\*, Pinhua Pan, Haitao Li, Shuai Liu, Minhui Dai, Yi Li, Qian Li, Zhi Mao, Yuan Long (China)

- 14:20 **AO051 A predictive value of tryptophanyl-tRNA synthetase on the mortality in intensive care unit patients**  
Bo Ra Yoon\*, Chang Hwan Seol, Ah Young Leem, Joo Han Song, Moo Suk Park, Young Sam Kim, Kyung Soo Chung (Korea)
- 14:30 **AO052 Add on azithromycin: Reduce nosocomial infections and ventilator associated pneumonia in critical pediatric cardiovascular surgery patients**  
Yung-Feng Huang\*, Chiun-Yen Pan (Taiwan)
- 14:40 **AO053 Pirfenidone ameliorates lipopolysaccharide-induced pulmonary inflammation and fibrosis by blocking NLRP3 inflammasome activation**  
Yi Li\*, Pinhua Pan, Chengping Hu (China)
- 14:50 **AO055 Point-of-care ultrasound: A new choice of early quantitative diagnose of pulmonary edema**  
Zhixing Zhu\*, Xihua Lian (China)
- 15:00 **AO056 Effects of acid fibroblast growth factor on lipopolysaccharides-induced acute lung injury in rat**  
Yuan Luo\*, Xianghua Zhang, Shiyuan Li, Xixin Yan (China)

14:00-15:30

Room 105, 1F

**Oral Session 8**

**Respiratory infections (non-tuberculosis) 1**

Chair: Ki-Suck Jung (Korea)

Chair: Shih-Chi Ku (Taiwan)

- 14:00 **AO057 Empiric vancomycin treatment of Community-acquired Pneumonia (CAP): Increasing use in USA from 2007 to 2015 and possible strategy for deescalation**  
Hans Liu\*, Hemant Mutneja, Lisa Cushinotto (United States)
- 14:10 **AO058 Predictors of developing *Mycobacterium kansasii* pulmonary infection within 1 year among patients with single isolation in multiple sputum samples**  
Hung-Ling Huang\*, Meng-Hsuan Cheng, Po-Liang Lu, Chia-Jung Liu, Inn-Wen Chong, Jann-Yuan Wang (Taiwan)
- 14:20 **AO059 The first case of community-acquired primary and multiple lung abscess due to serotype K2 hypervirulent *Klebsiella pneumoniae* in adult; an extremely rare clinical course**  
Takeru Kawai\*, Jun Hirai, Masashi Momose, Daisuke Sakanashi, Jiro Fujita (Japan)
- 14:30 **AO060 Antibiotics susceptibility and treatment outcomes of *Mycobacterium chimaera* pulmonary disease – a retrospective study**  
Lun-Che Chen\*, Jung-Yien Chien, Po-Ren Hsueh (Taiwan)
- 14:40 **AO061 Next generation sequencing assisted pathogenic detection can improve outcomes in immunocompromised host with pulmonary infection**  
Donghui Zhang\*, Shujing Chen, Dongni Hou (China)

- 14:50 **AO062** **Prognostic values of CURB-65, expanded-CURB-65, and CURB-65 plus albumin and platelet in community acquired pneumonia in Cipto Mangunkusumo National General Hospital, Jakarta**  
Christy Efiyanti\*, Ceva Wicaksono Pitoyo, Gurmeet Singh, Sukamto Koesnoe (Indonesia)
- 15:00 **AO063** **Presence of *pldA* and *exoU* in mucoid *Pseudomonas aeruginosa* associated with high risk of exacerbations in non-CF bronchiectasis patients**  
Rongguang Luo\*, Jin-Fu Xu (China)

16:00-17:30

Plenary Hall, 3F

### Symposium 13

#### Lung cancer 1 - Treatment for oligometastases

Chair: Shang-Jyh Kao (Taiwan)

Chair: Meng-Chih Lin (Taiwan)

- 16:00 **S13-1** **Radiotherapy for oligometases, mainly in lung**  
Hiroshi Onishi (Japan)
- 16:30 **S13-2** **Medical treatment for brain metastasis**  
Egbert Smit (Netherlands)
- 17:00 **S13-3** **Oligometastasis for non-small cell lung cancer: Surgery perspectives**  
Jin-Shing Cheng (Taiwan)

16:00-17:30

Room 201ABC, 2F

### Symposium 14

#### Respiratory infections (non-tuberculous) 1 - Invasive pulmonary fungal infection

Chair: Shigeru Kohno (Japan)

Chair: Po-Ren Hsueh (Taiwan)

- 16:00 **S14-1** **Emerging fungal infections in ICU: Epidemiology and diagnosis**  
Wei-Lun Liu (Taiwan)
- 16:30 **S14-2** **Recent advances in the diagnosis and management of *Pneumocystis pneumonia***  
Sadatomo Tasaka (Japan)
- 17:00 **S14-3** **Invasive aspergillosis in patients with severe influenza**  
Bin Cao (China)

16:00-18:00

Room 201DEF, 2F

## Symposium 15

### Critical care medicine 1 - Update in critical care

Chair: Polly Parsons (United States)

Chair: Kuo-Chin Kao (Taiwan)

- 16:00 **S15-1 Global perspective of ARDS; insights from LUNG SAFE**  
Frank van Haren (Netherlands)
- 16:30 **S15-2 Flu-related Acute Respiratory Distress Syndrome (ARDS)**  
Kuo-Chin Kao (Taiwan)
- 17:00 **S15-3 Preoxygenation before intubation of hypoxemic patients: Noninvasive ventilation or high-flow oxygen therapy?**  
Jean-Pierre Frat (France)
- 17:30 **S15-4 Generation and applications of human iPS cell-derived lung epithelial cells**  
Shimpei Gotoh (Japan)

16:00-17:30

Room VIP, 4F

## Oral Session 9

### Asthma 1

Chair: Thu Phuong Phan (Vietnam)

Chair: Kian Fan Chung (United Kingdom)

- 16:00 **AO065 Development of the severe asthma toolkit: A clinical website resource for the management of severe treatment-refractory asthma**  
Vanessa M. McDonald\*, Steven Maltby, Vanessa L. Clark, Mark Hew, Gregory G. King, Stephen Oo, Louisa Owens, Helen K. Reddel, Lorraine Smith, Peter Gibson (Australia)
- 16:10 **AO066 Establishment of eosinophilic bronchitis mouse model with noninvasive lung function test**  
Chen Liyan\*, He Yaowei, Lai Kefang, Zhong Nanshan (China)
- 16:20 **AO067 Impact of fractional exhaled nitric oxide measurement on management of patients with suspected asthma**  
Nur Aisyah Mohamed Yusri\*, Kay Choong See (Singapore)
- 16:30 **AO068 Reduced nuclear factor- $\kappa$ B repressing factor and increased interleukin-8 in bronchial epithelial cells in asthma**  
Chunyu Lo\*, Ting-Yu Lin, Syuan-Cih Lin, Kang-Yun Lee, Yu-Lun Lo (Taiwan)
- 16:40 **AO069 The effectiveness of mepolizumab in 19 patients with severe asthma in Japan**  
Naoko Nagano\*, Motoyasu Iikura, Sachi Matsubayashi, Yoshie Tsujimoto, Tamaki Kakuwa, Satoru Ishii, Manabu Suzuki, Shinyu Izumi, Masayuki Hojo, Haruhito Sugiyama (Japan)
- 16:50 **AO070 Metabonomics of allergic asthma: Potential biomarkers HETEs and their metabolic key enzyme GPx**  
Cheng Li, Baoqing Sun, Peiyan Zheng\*, Xiaoqing Liu (China)



- 17:00 **AO071 Anti-remodelling features of artesunate as a potential novel drug for the treatment of asthma**  
Dorothy H. J. Cheong\*, Ian R. J. Tan, Yongkang Qiao, Jinrui Dong, Hong Yong Peh, W. S. Fred Wong, Thai Tran (Singapore)
- 17:10 **AO072 The prevalence and clinical characteristics of T2-low and T2-high endotype of severe uncontrolled asthma distinguished by combining type-2 biomarkers**  
Keiji Oishi\*, Tsunahiko Hirano, Kazuki Matsuda, Kazuki Hamada, Sho Uehara, Ryo Suetake, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Kazuto Matsunaga (Japan)
- 17:20 **AOL001 Multidimensional gaps in health care facilities for asthma patients in Indonesia; a formative research**  
Ari Probandari, Hary Sanjoto, Adistha Noveyani, Lucia Indriarini, Andriani Yulianti, Nusky Syaokani, Hanevi Djasri, Adi Utarini, Theresia Sandra Diah Ratih\* (Indonesia)

16:00-17:30

Room 102, 1F

### Symposium 16

#### Young investigators award

Chair: Young Whan Kim (Korea)

#### APSR-JRS Young Investigator:

- 16:00 **AO212 Combination therapy with nintedanib and prednisolone in patients with idiopathic pulmonary fibrosis**  
Motoyasu Kato\*, Takahiro Nakamura, Kana Kurokawa, Tomoko Yamada, Hiroaki Ihara, Fumiyuki Takahashi, Shinichi Sasaki, Kazuhisa Takahashi (Japan)

#### APSR-ERS Young Investigator:

- 16:10 **AO214 Evaluation of Upper Airway (UA) anthropometry using Magnetic Resonance Imaging (MRI) and lateral cephalometry in patients of Obstructive Sleep Apnea (OSA) in north Indian population**  
Brijesh Prajapat\*, A S Sandhya, Dhruva Chaudhry (India)

#### APSR-TSANZ New Investigator:

- 16:20 **AO216 Endosomal NOX oxidase inhibitor protects against highly pathogenic influenza virus morbidity**  
Eunice To (Australia)

#### APSR-ATS Young Investigator:

- 16:30 **AO218 A multi-level approach to asthma health disparities: From biomarkers to geocoded data**  
Neeta Thakur (United States)

16:00-17:30

Room 103, 1F

**Oral Session 10**

**Environmental & occupational health and epidemiology**

Chair: Woo Jin Kim (Korea)

Chair: Chau-Chyun Sheu (Taiwan)

- 16:00 **AO073 Mesenchymal stem cell-based therapy attenuates silica-induced macrophage activation via circZC3H4/ZC3H4 pathway**  
Jie Huang\*, Zewei Zhou, Rong Jiang, Jie Chao (China)
- 16:10 **AO074 Long-term exposures to air pollutants and risk of Major Adverse Cardiovascular Events (MACEs), a nationwide 10-year open cohort study in Taiwan**  
Ming-Shun Hsieh\*, Pau-Chung Chen, Chorng-Kuang How, Chen-June Seak, Vivian Chia-Rong Hsieh (Taiwan)
- 16:20 **AO075 The role of sirtuin1 in the macrophage polarization induced directly by airborne PM2.5**  
Yijue Zhong\*, Jiping Liao, Yan Hu, Yunxia Wang, Cao Sun, Guangfa Wang (China)
- 16:30 **AO076 Finding a hidden asbestos related lung cancer: Multi-centered active surveillance system in Korea**  
Jun-Pyo Myong\*, Jiyoun Jung, Hyoungkyu Yoon, JungIm Jung, HyoungRyoul Kim, JungWan Koo (Korea)
- 16:40 **AO077 Hypercapnic acidosis attenuates decompression sickness-induced lung injury**  
Kun-Lun Huang\*, Chong-Kang Peng, Shi-Jye Chu (Taiwan)
- 16:50 **AO078 Association of physical activity with lung function in dusty areas cohort**  
Yuri Han\*, Yoonki Hong, Sung Ok Kwon, Woo Jin Kim (Korea)
- 17:00 **AO079 Luteolin decreases the PM2.5-induced autophagy of MH-S by scavenging ROS**  
Chao Sun\*, Guangfa Wang (China)

16:00-17:30

Room 105, 1F

**Oral Session 11**

**Interstitial lung disease 1**

Chair: Arata Azuma (Japan)

Chair: Moo Suk Park (Korea)

- 16:00 **AO080 Nintedanib and pirfenidone inhibit lysophosphatidic acid-induced vascular endothelial growth factor and collagen production in human primary lung fibroblasts**  
Yi-Han Hsiao\*, Fang-Chi Lin, Diahn-Warng Perng (Taiwan)
- 16:10 **AO081 The long term study of sirolimus in Chinese population with lymphangioleiomyomatosis**  
Liu Jie (China)
- 16:20 **AO082 10 years-experience of using pirfenidone for idiopathic pulmonary fibrosis**  
Chikatoshi Sugimoto\*, Toru Arai, Shojiro Minomo, Naoko Takeuchi, Tomoko Kagawa, Kazunobu Tachibana, Seiji Hayashi, Masanori Akira, Takahiko Kasai, Yoshikazu Inoue (Japan)

- 16:30 **AO083 Pulmonary alveolar proteinosis in Korea: Analysis of prevalence and incidence by a nationwide population-based study**  
Hee-Young Yoon, Ye-Jee Kim, Jin Woo Song\* (Korea)
- 16:40 **AO084 The pulmonary manifestations of tuberous sclerosis complex in Taiwanese patients**  
Yao-Wen Kuo\*, Huey-Dong Wu, Hao-Chien Wang (Taiwan)
- 16:50 **AO085 Morphological analysis of alveolar macrophage in patients with sarcoidosis: Let's reflect the cell on a bronchoalveolar fluid specimen-*part 2***  
Manabu Ishida\*, Haruyuki Ishii, Daisuke Kurai, Shinji Teramoto, Hajime Takizawa, Toshio Ichiwata (Japan)
- 17:00 **AO086 Exosomes-derived from macrophages treated with AngII promote lung fibrosis via activating TGF- $\beta$ /Smad2/3 pathway by shifting RAS to ACE/AngII/AT1R axis**  
Ying Meng\*, Nana Sun (China)

**17:45-18:45**

**Room 103, 1F**

**Evening Symposium 1 - MSD Taiwan**

**The unprecedented overall survival benefits for advanced NSCLC by anti-PD-1 in 1L**

Chair: Chong-Jen Yu (Taiwan)

- 17:45 **ES01-1 The unprecedented overall survival benefits for advanced NSCLC by Anti-PD-1 in 1L**  
Steven Kao (Australia)

## Saturday 1 December, 2018

08:10-08:50

Plenary Hall, 3F

### Plenary Lecture

#### Memorial lecture 1: Ann Janet Woolcock Research Award

Chair: Peter Gerard Gibson (Australia)

Chair: Kian Fan Chung (United Kingdom)

08:10 **PL2** **Tests for identifying bronchial hyperresponsiveness**

Sandra D Anderson (Australia)

09:00-10:30

Plenary Hall, 3F

### Symposium 17

#### COPD 2

Chair: Kazuto Matsunaga (Japan)

Chair: Chong-Jen Yu (Taiwan)

09:00 **S17-1** **What you care most about in the management of COPD: Exacerbation, symptoms or lung function?**

Jadwiga Wisia Wedzicha (United Kingdom)

09:30 **S17-2** **What do we miss in the management of COPD?**

Diahn-Warng Perng (Taiwan)

10:00 **S17-3** **Personalised treatment in COPD: When to use LABA/ICS, dual bronchodilator or triple combination?**

Dave Singh (United Kingdom)

09:00-10:30

Room 201ABC, 2F

### Symposium 18

#### Clinical respiratory medicine - Presidents' symposium 2

Chair: Kwun Fong (Australia)

Chair: Chunxue Bai (China)

09:00 **S18-1** **Update on ARDS**

Polly Ellsbeth Parsons (United States)/ ATS President

09:22 **S18-2** **The lung microbiome in health and disease: Impact on clinical practice**

James Beck (United States)/ ATS President-Elect

09:44 **S18-3** **Pulmonary rehabilitation after exacerbations of COPD**

Thierry Troosters (Belgium)/ ERS President-Elect

10:06 **S18-4** **Potential roles of respiratory mechanics monitoring in optimizing NPPV use in stable COPD patients**

Rongchang Chen (China)/ CTS President

09:00-10:30

Room 201DEF, 2F

### Symposium 19

#### Critical care medicine 2 - Management of acute respiratory failure

Chair: Rex C.W. Yung (United States)

Chair: Kuang-Yao Yang (Taiwan)

- 09:00 **S19-1 Noninvasive ventilator in cancer patients**  
Kuang-Yao Yang (Taiwan)
- 09:30 **S19-2 Role of nasal high-flow oxygen therapy for patients with hypoxemic respiratory failure**  
Jean-Pierre Frat (France)
- 10:00 **S19-3 Weaning of mechanical ventilation: Role of inspiratory muscle training**  
Frank van Haren (Netherlands)

09:00-10:30

Room VIP, 4F

### Symposium 20

#### Pulmonary circulation 2 - Medical management and surgical interventions for pulmonary hypertension

Chair: Ching-Lung Liu (Taiwan)

Chair: Hsao-Hsun Hsu (Taiwan)

- 09:00 **S20-1 Latest on pulmonary artery hypertension and congenital heart disease including the results from the maestro study**  
Michael Athanasios Gatzoulis (United Kingdom)
- 09:30 **S20-2 Advanced pulmonary arterial hypertension: Mechanical support and lung transplantation**  
Sonja Bartolome (United States)
- 10:00 **S20-3 The cardio-pulmonary interaction during thoracic anesthesia**  
Ming-Hui Hung (Taiwan)

09:00-10:30

Room 102, 1F

### Oral Session 12

#### Respiratory neurobiology and sleep

Chair: Chia-Mo Lin (Taiwan)

Chair: Mao-chang Su (Taiwan)

- 09:00 **AO087 CPAP pressure is associated with effect of mandibular advancement device for treating treatment-naïve patients with OSA**  
Chien-Feng Lee\*, Yunn-Jy Chen, Wen-Chi Huang, Yu-Jou Hung, Pei-Lin Lee, Chong-Jen Yu (Taiwan)
- 09:10 **AO088 Relationship between obstructive sleep apnoea, other cardiovascular risk factors and cardiovascular disease**  
Cheng Lu\*, Nigel McArdle, Ivan Ling, Satvinder Dhaliwal, Christopher Kosky, David Hillman, Sutapa Mukerjee, Lyle Palmer, Bhajan Singh (Australia)

- 09:20 **AO089 Exploration on the intestinal micro-environmental changes in obstructive sleep apnea patients**  
Fengwei Chen, Kun Chen, Cheng Zhang\*, Jing Ma, Jue Zhang, Guangfa Wang, Yuqing Chen (China)
- 09:30 **AO090 Non-apnoea sleep disorder increases the risk of incident heart failure-a nationwide population-based cohort study**  
I-Duo Wang\*, Chung-Kan Peng (Taiwan)
- 09:40 **AO091 Does chronic intermittent hypoxia always increase blood glucose levels in mice?**  
Akira Umeda\*, Yasumasa Okada, Kenji Tsushima, Kotaro Takeda, Atsumi Saito, Kazuya Miyagawa, Hiroshi Takeda, Naoto Kubota, Takashi Kadowaki (Japan), David Gozal (United States)
- 09:50 **AO092 Decreased miR-21-5p and miR-23-3p expressions in patients with obstructive sleep apnea: A potential protective effect by regulating TNF-alpha signaling**  
Yung-Che Chen\*, Meng-Chih Lin, Mao-Chang Su, Kuo-Tung Huang, Chien-Hung Chin, Chang-Chun Hsiao, Ting-Ya Wang, Po-Yuan Hsu (Taiwan)
- 10:00 **AO093 Prenatal chronic intermittent hypoxia leads to early atherosclerotic lesions and upregulates Caveolin-1 expression in rats**  
Huihuang Lin\* (China)
- 10:10 **AO094 Upper airway imaging during a novel intra-oral negative pressure device therapy in patients with obstructive sleep apnea**  
Ching-Lung Liu\*, Tien-Jen Liu, Ying-Piao Wang (Taiwan)

09:00-10:30

Room 103, 1F

**Oral Session 13**

**Clinical respiratory medicine 2**

Chair: Dushantha Madegedara (Sri Lanka)

Chair: Roland Leung (Hong Kong)

- 09:00 **AO095 Lung inflammation, emphysema, and lung cancer development in A/J mice in response to chronic exposure to aerosol from a heated tobacco product and cigarette smoke**  
Ee Tsin Wong (Singapore), Karsta Luettich, Emmanuel Guedj, Yang Xiang, Bjoern Titz, Patrice Leroy (Switzerland), Blaine Phillips (Singapore), Patrick Vanscheeuwijck\*, Manuel Peitsch, Hoeng Julia (Switzerland)
- 09:10 **AO096 Automated alerting and decision support for reporting of physiologic deterioration via a clinical alerting system in patients with pneumonia admitted to the general wards**  
Jih-Shuin Jerng\*, Hsiao-Fang Huang, Li-Chin Chen, Szu-Fen Huang, Jui-Sheng Sun (Taiwan)
- 09:20 **AO097 First successful case of chemical pleurodesis with oxytetracycline through Rocket® Pleural Vent™ - ambulatory pneumothorax device for pneumothorax**  
Wang Chun Kwok\*, Ka Chun Cheng, Chi Chun Terence Tam (Hong Kong)

- 09:30 **AO098 Sound-spectrogram will be useful in the differential diagnosis of wheezes: Bronchospasm or fixed airways narrowing?**  
Yukio Nagasaka\*, Mihciko Tsuchiya, Noboru Morikawa, Chikara Sakaguchi, Keiko Ueda, Masutaro Ichinose (Japan)
- 09:40 **AO099 Clinical characteristics of chronic cough: Adult chronic cough cohort study of Korea**  
An Tai Joon, Chin Kook Rhee, Jong Min Lee, Hyoung Kyu Yoon\* (Korea)
- 09:50 **AO100 A comparative study on the diaphragm muscle thickness and Rapid Shallow Breathing Index (RSBI) as a predictor for successful extubation among critically ill adult patients**  
Mary Joy Ordanza\*, Geraldine Garcia (Philippines)
- 10:00 **AO101 Quality changes of clinical practice guidelines for respiratory diseases in China: A systematic appraisal**  
Kairui Wan\*, Mei Jiang, Guangqiao Zeng, Yao Li, Junwan Wu, Bangyu Zou (China)
- 10:10 **AO102 Clinical pathway and duration of hospitalization in patients with acute exacerbation of bronchiectasis**  
Hui Kai Koh, Evelyn Wei Yu Tan, John Abisheganaden, Albert Yick Hou Lim\* (Singapore)

09:00-10:30

Room 105, 1F

#### Oral Session 14

#### Bronchoscopy and interventional techniques 2

Chair: Jiayuan Sun (China)

Chair: Fumihiko Asano (Japan)

- 09:00 **AO103 The prognostic predictors of patients with airway involvement due to advanced esophageal cancer after metallic airway stenting using flexible bronchoscopy**  
Wen-Chien Cheng\*, Biing-Ru Wu, Chih-Yu Chen, Wei-Chun Chen, Wei-Chih Liao, Chia-Hung Chen, Chih-Yen Tu (Taiwan)
- 09:10 **AO104 A multicenter, prospective trial of electromagnetic bronchoscopic and electromagnetic transthoracic navigational approaches for the biopsy of peripheral pulmonary nodules (all in one)**  
Lonny Yarmus\*, Momen Wahidi, Alex Chen, Christopher Gilbert, Nick Pastis, Jason Akulian, Eric Flenaugh, Hans Lee (United States)
- 09:20 **AO105 Cryobiopsy – a potential to break through the diagnostic bronchoscopy for peripheral pulmonary nodules -**  
Yuji Matsumoto\*, Toshiyuki Nakai, Midori Tanaka, Takafumi Matsunaga, Takaaki Tsuchida, Yuichiro Ohe (Japan)
- 09:30 **AO106 Evaluation of transbronchial lung cryobiopsy freezing time, cryobiopsy size, histological quality and incidence of complication: A prospective clinical trial**  
Guo Shuliang\*, Li Yishi, Wei Jiawei (China)
- 09:40 **AO107 Feasibility and safety of cryobiopsy in interventional bronchoscopy**  
Chia-Hung Chen\*, Chih-Yen Tu, Wei-Chih Liao, Biing-Ru Wu, Wen-Chien Cheng, Te-Chun Hsia, Wu-Huei Hsu (Taiwan)



- 09:50 **AO108** Efficacy and safety of Argon Plasma Coagulation (APC) plus partially sprayed adhesive via thoracoscopy in the treatment of spontaneous pneumothorax patients with subpleural blebs diseases  
Zhang Hua (China)

11:00-12:30

Plenary Hall, 3F

### Symposium 21

#### Lung cancer 2 - Immunotherapy for lung cancer

Chair: Hiroshi Onishi (Japan)

Chair: Pan-Chyr Yang (Taiwan)

- 11:00 **S21-1** Immunotherapy for lung cancer patients, current state of art  
Leora Horn (United States)
- 11:30 **S21-2** Biomarkers for immunotherapy for today and future  
Qihui (Jim) Zhai (United States)
- 12:00 **S21-3** Immunotherapy other than PD-L1 axis  
Steven Kao (Australia)

11:00-12:30

Room 201ABC, 2F

### Symposium 22

#### Respiratory Infections (non-tuberculous) 2 - Pulmonary diseases caused by nontuberculous mycobacteria (NTM)

*Co-organized by ISAC Working Group on Mycobacteria*

Chair: Kozo Morimoto (Japan)

Chair: Po-Ren Hsueh (Taiwan)

- 11:00 **S22-1** NTM epidemiology in Asia  
Kozo Morimoto (Japan)
- 11:30 **S22-2** Treatment of NTM lung disease  
Won-Jung Koh (Korea)
- 12:00 **S22-3** Significance of the emergence of the globally successful clone of *Mycobacterium abscessus* subspecies *massiliense*  
Aristine Cheng (Taiwan)

11:00-12:30

Room 201DEF, 2F

### Symposium 23

#### Bronchoscopy and interventional techniques - Bronchoscopic treatment of benign lung disease

Chair: Felix JF Herth (Germany)

Chair: Chih-Yen Tu (Taiwan)

- 11:00 **S23-1** Endoscopic lung volume reduction  
Felix JF Herth (Germany)

- 11:30 **S23-2** **Bronchial thermoplasty for asthma**  
 Pyng Lee (Singapore)
- 12:00 **S23-3** **Transbronchial lung cryobiopsy for ILDs: Roles and limitations**  
 Venerino Poletti (Italy)

**11:00-12:30**

**Room VIP, 4F**

**Oral Session 15**

**COPD 2 - Inflammatory mechanisms and immunomodulation in COPD**

Chair: Jadwiga Wisia Wedzicha (United Kingdom)

Chair: Shih-Lung Cheng (Taiwan)

- 11:00 **AO109** **Early management of chronic obstructive pulmonary disease**  
 Nanshan Zhong\*, Pixin Ran, Yumin Zhou (China)
- 11:10 **AO110** **Therapeutic targeting of the IL-6 trans-signalling in pulmonary emphysema**  
 Ruwanpura Saleela\*, Louise McLeod, Gary Anderson, Ross Vlahos, Philip Bardin (Australia), Stefan Rose-John (Germany), Brendan Jenkins (Australia)
- 11:20 **AO111** **MMP-12 activates Protease Activated Receptor (PAR)-1, upregulates placenta growth factor and leads to pulmonary emphysema**  
 Hsin-Han Hou\*, Hao-Chien Wang, Chong-Jen Yu (Taiwan)
- 11:30 **AO112** **The protective role of bronchial epithelial cells derived exosome in COPD**  
 Shengyang He\*, Mengyun Hu, Zhengpeng Zeng, Junjuan Lu, Lihua Xie, Shenghua Sun (China)
- 11:40 **AO113** **Andrographolide simultaneously augments Nrf2 antioxidant defense and facilitate autophagic flux blockade in cigarette smoke-exposed human bronchial epithelial cells**  
 Wan Shun Daniel Tan\*, Wupeng Liao, Hong Yong Peh (Singapore), Merima Vila (Canada), Jinrui Dong, Han-Ming Shen, Wai-Shiu Fred Wong (Singapore)
- 11:50 **AO114** **PRMT6 mediates inflammation via the activation of NF- $\kappa$ B/p65 pathway on cigarette smoke extract-induced murine emphysema model**  
 Xue He, Tiao Li, Lijuan Luo\*, Lin Chen, Yan Chen (China)
- 12:00 **AO115** **The inflammatory cytokine environment of COPD alters the airway epithelial responses to viral and bacterial stimuli**  
 Yifan Chen\*, Paul Thomas, Rakesh Kumar, Cristan Herbert (Australia)
- 12:10 **AO116** **CCL-1/CCL-2 inhibition by rolipram in monocytes of COPD**  
 Ying-Ming Tsai\*, Chih-Hsing Hung, Jen-Yu Hung (Taiwan)
- 12:20 **AO117** **Sodium tanshinone IIA sulfonate inhibits cigarette smoke-induced inflammation and oxidative stress in mice via inhibiting AKT/HIF-1 $\alpha$  signaling pathway**  
 Guan Ruijuan\*, Wang Jian, Li Ziyang, Cai Zhou, Xu Jingyi, Li Defu, Lu Wenju (China)

11:00-12:30

Room 102, 1F

**Oral Session 16**

**Paediatric lung disease**

Chair: TBC

Chair: Yun Sil Chang (Korea)

- 11:00 **AO118 Post-operative outcome of paediatric empyema treated with Video Assisted Thoracoscopic Surgery (VATS)**  
Evie Yeap\*, Robert Roseby, Ramesh Nataraja, Angela McCullagh, Maurizio Pacilli (Australia)
- 11:10 **AO119 Community-acquired necrotizing pneumonia due to methicillin-resistant *Staphylococcus aureus* secreting Panton-Valentine leukocidin in 4 patients admitted to childrens hospital 1 in November 2017: Case series report**  
Huong Ho\*, Tuan Tran, Loc Mai (Vietnam)
- 11:20 **AO120 Changes after automated control of inspired oxygen concentration in preterm infant who underwent CPAP**  
Masayuki Kanno\*, Masaki Shimizu (Japan)
- 11:30 **AO121 Spontaneous pneumomediastinum with subcutaneous emphysema in an 8 year old female: A case report**  
Caroline Shane Arnado (Philippines)
- 11:40 **AO122 Diagnostic value of salivary liquefied carbohydrate antigen KL-6 in children with pneumonia**  
Huimin Huang\*, Baoqing Sun, Weiqi Ke, Shan Li, Liuqiao Huang, Xueqing Liang, Nili Wei (China)
- 11:50 **AO123 Pneumonia due to burkholderia pseudomallei in children at the Children's Hospital No 1, Hochiminh-City, Vietnam**  
Pham Uyen\*, Tran Tuan (Vietnam)
- 12:00 **AO124 Primary ciliary dyskinesia in Japan**  
Naozumi Hashimoto\*, Yoshinori Hasegawa, Naoto Keicho, Kazuhiko Takeuchi, Makoto Takase, Minako Hijikata, Sakae Homma, Naohiko Inase (Japan)
- 12:10 **AO125 Utility of Fractional exhaled Nitric Oxide (FeNO) levels in differentiating upper respiratory tract infection and bronchial asthma from healthy normal school children**  
Crestita Gorme (Philippines)

11:00-12:30

Room 103, 1F

**Oral Session 17**

**Critical care medicine 2**

Chair: Shimpei Gotoh (Japan)

Chair: Frank van Haren (Netherlands)

- 11:00 **AO126 Pathogen identification was not associated with mortality in patients admitted to a medical intensive care unit with pneumonia**  
Yu-Chen Tsai\*, Ming-Ju Tsai, Chia-Yu Kuo, Shan-Fong Huang, Chia-Min Chen, Jong-Rung Tsai, Wei-An Chang, Chau-Chyun Sheu (Taiwan)

- 11:10 **AO127 Predictors of outcome among lung transplantation patients supported with extracorporeal membrane oxygenation**  
Rong Zhang\*, Xiaoqing Liu, Ling Sang, Yonghao Xu, Sibe Chen, Yimin Li (China)
- 11:20 **AO128 Serotonin and vascular permeability (serotonin beyond the brain) --- analysis of serotonin in sepsis and ARDS**  
Takeshi Tanaka\* (Japan), Masahiko Mori (United Kingdom), Motohiro Sekino, Masahiro Takaki, Yoshiro Yamashita, Satoshi Kakiuchi, Konosuke Morimoto, Osamu Tasaki, Koya Ariyoshi (Japan)
- 11:30 **AO129 Protection effect of overweight and obesity in critically ill adult patients with influenza: A multicenter retrospective cohort study in Taiwan**  
Ying-Chun Chien\*, Hao-Chien Wang, Chong-Jen Yu (Taiwan)
- 11:40 **AO130 High tidal volume mechanical ventilation reduces respiratory center drive by potassium channels alteration**  
Yunxia Wang\*, Hong Zhang, Guangfa Wang (China)
- 11:50 **AO131 Utility of 6-minute walk test in predicting post-operative pulmonary complications among patients undergoing cardiothoracic surgeries**  
Omohaire Dilangalen\*, Aileen Banzon, Ma. Encarnita Limpin (Philippines)
- 12:00 **AO132 Kinetics of oxygen uptake during the spontaneous breathing trial predicts weaning outcomes for patients with prolonged mechanical ventilation: A prospective analysis at a weaning unit**  
I-Hsien Lee\*, Feng-Ching Lin, Yao-Wen Kuo, Jih-Shuin Jerng, Huey-Dong Wu (Taiwan)
- 12:10 **AO133 Neutrophil extracellular traps augmented alveolar macrophages pyroptosis in LPS induced ALI/ARDS**  
Haitao Li (China)
- 12:20 **AO054 Induced pluripotent stem cells attenuate endotoxin-induced acute lung injury via TREM-1 expression to reduce p38/Ikb pathway activity**  
Vincent Yi-Fong Su\*, Kuang-Yao Yang (Taiwan)

11:00-12:30

Room 105, 1F

**Oral Session 18**

**Pulmonary circulation**

Chair: Michael Athanasios Gatzoulis (United Kingdom)

Chair: Nobuhiro Tanabe (Japan)

- 11:00 **AO134 Clinical course and outcomes of patients with submassive pulmonary embolism**  
Youjin Chang\*, Jae Young Moon, Young Seok Lee (Korea)
- 11:10 **AO135 Prevalence of venous thromboembolism among adult patients diagnosed with cancer at St. Luke's Medical Center from 2010-2015**  
Sayyid Ronron Datukon\*, Amabelle Gerona (Philippines)
- 11:20 **AO136 Factors related to pulmonary hypertension in patients with human immunodeficiency virus infection**  
Muzakkir Amir\*, Titus Hariadi, Peter Kabo, Robertus Setiadji (Indonesia)

- 11:30 **AO137 Trends in hospitalization and mortality of venous thromboembolism from 2007 to 2016 in China**  
Zhu Zhang\*, Jieping Lei, Zhenguo Zhai, Chen Wang (China)
- 11:40 **AO221 Pulmonary hypertension in CPFE (Combined Pulmonary Fibrosis and Emphysema)**  
Noboru Morikawa\*, Michiko Tsuchiya, Chikara Sakaguchi, Yukio Nagasaka (Japan)

**12:45-13:45**

**Room 201ABC, 2F**

**Lunch Symposium 6 - AstraZeneca Taiwan**

**Focus on reducing OCS in severe asthma - the why and the how?**

Chair: Sang-Heon Kim (Korea)

- 12:45 **LS06-1 Insights into the cumulative burden of OCS exposure**  
Sang-Heon Kim (Korea)
- 13:05 **LS06-2 Understanding the patients experience and the impact of OCS use**  
V McDonald (Australia)
- 13:25 **LS06-3 Strategies to reduce OCS use and exposure in the era of biologic agents**  
J Upham (Australia)

**12:45-13:45**

**Room 201DEF, 2F**

**Lunch Symposium 7 - GSK**

**Breaking paradigms : Treatment evolution in asthma**

Chair: Shu-Min Lin (Taiwan)

- 12:45 **LS07-1 The ICS/LABA experience: Any new update?**  
Norbert Berend (Australia)
- 13:20 **LS07-2 Challenges in severe asthma: The role of new biologics**  
Frank Albers (United States)
- 13:35 **Q&A and closing remarks**

**12:45-13:45**

**Room VIP, 4F**

**Lunch Symposium 8 - Chiesi and OEP**

**COPD**

Chair: Chong-Jen Yu (Taiwan)

- 12:45 **LS08-1 The role of small airways and inflammation in COPD**  
Kang-Yun Lee (Taiwan)
- 13:15 **LS08-2 Extra-fine benefit in COPD**  
Dave Singh (United Kingdom)

**12:45-13:45**
**Room 102, 1F**
**Lunch Symposium 9 - Boehringer Ingelheim International GmbH**
**Practical, personalized care: A tailored approach to management of COPD**

Chair: Diahn-Warng Perng (Taiwan)

Chair: David M.G. Halpin (United Kingdom)

**12:45 LS09-1 COPD care in Asia: Current perspectives, future directions**

Diahn-Warng Perng (Taiwan)

**13:00 LS09-2 Building on strong foundations: The importance of inhaler choice in COPD**

Omar Usmani (United Kingdom)

**13:15 LS09-3 Mapping the role of ICS: Building on the latest insights in COPD**

Marc Miravittles (Spain)

**13:30 LS09-4 Steering the course: What outcomes matter most for our patients?**

David M.G. Halpin (United Kingdom)

**12:45-13:45**
**Room 103, 1F**
**Lunch Symposium 10 - Novartis**
**Recent advances in preventing exacerbations of COPD**

Chair: Wu-Huei Hsu (Taiwan)

Chair: Horng-Chyuan Lin (Taiwan)

**12:45 LS10-1 The Science of COPD exacerbations: Time to take it personally**

Jadwiga Wisia Wedzicha (United Kingdom)

**13:15 LS10-2 Preventing COPD exacerbations: Pharmacotherapeutic approaches in 2018**

Kenneth R. Chapman (Canada)

**12:45-13:45**
**Room 105, 1F**
**Lunch Symposium 11 - Novartis**
**Future rare lung cancer treatment landscape**

Chair: Jin-Yuan Shih (Taiwan)

**12:45 LS11-1 The role of NGS in determining sequential treatment for ALK-positive NSCLC**

David Planchard (France)

**13:05 LS11-2 Updated treatment strategy for BRAF mutant NSCLC and real world experience from France**

David Planchard (France)

**13:25 LS11-3 Classification and management of neuroendocrine tumor in lung**

Te-Chun Hsia (Taiwan)

14:00-15:30

Plenary Hall, 3F

### Symposium 24

#### Lung cancer 3 - Update on targeted therapy

Chair: Chong Kin Liam (Malaysia)

Chair: Chong-Jen Yu (Taiwan)

14:00 **S24-1 Update on EGFR TKI treatment in EGFR mutant patients**

Suresh S. Ramalingam (United States)

14:30 **S24-2 Update on ALK inhibitors for ALK fusion patients**

Gee-Chen Chang (Taiwan)

15:00 **S24-3 Update on rare driver mutations for NSCLC patients**

David Planchard (France)

14:00-15:30

Room 201ABC, 2F

### Symposium 25

#### Clinical respiratory medicine 1 - Current state of treatment for pleural disease

Chair: Hiroshi Date (Japan)

Chair: Hsao-Hsun Hsu (Taiwan)

14:00 **S25-1 New advances in the management of primary spontaneous pneumothorax**

Jin-Shing Chen (Taiwan)

14:30 **S25-2 Current state of treatment of empyema**

Ali Zamir Khan (United Kingdom)

15:00 **S25-3 Immuno therapy and radiation treatment for mesothelioma**

Yuki Kataoka (Japan)

14:00-15:30

Room 201DEF, 2F

### Symposium 26

#### Paediatric lung disease 1 - Is bronchopulmonary dysplasia preventable?

Chair: Augusto A. Litonjua (United States)

Chair: Jiu Yao Wang (Taiwan)

14:00 **S26-1 Airway progenitors from immaturity to postnatal diseases**

Wellington V. Cardoso (United States)

14:30 **S26-2 Mesenchymal stem cell therapy in bronchopulmonary dysplasia**

Yun Sil Chang (Korea)

15:00 **S26-3 Bronchopulmonary Dysplasia (BPD) in premature infant-is this preventable?**

Tsu Fuh Yeh (Taiwan)



14:00-15:30

Room VIP, 4F

**Oral Session 19**

**Asthma 2**

Chair: Peter Gerard Gibson (Australia)

Chair: William Cookson (United Kingdom)

- 14:00 **AO138 Altered airway transcriptomics after bronchial thermoplasty treatment in severe asthmatics**  
Shu-Yi Liao\*, Angela Linderholm, Ken Yoneda, Nicholas James Kenyon, Richart Harper (United States)
- 14:10 **AO139 Correlation between fungal allergen extracts and components of *Aspergillus fumigatus* sIgE sensitization in patients with respiratory tract allergic diseases in southern China**  
Wenting Luo\*, Zehong Wu, Baoqing Sun (China)
- 14:20 **AO140 Short term efficacy of benralizumab for severe asthmatic patients in Japan**  
Motoyasu Iikura\*, Junko Hirashima, Shinyu Izumi, Masayuki Hojo, Haruhito Sugiyama (Japan)
- 14:30 **AO141 Effectiveness of asthma education for nurses using an asthma care application compared to a written asthma action plan in Thailand**  
Thitima Hirunyanitiwattana\*, Patchara Boonya-anuchit, Thitinan Maitree, Orapan Poachanukoon, Pattarin Pirompnich (Thailand)
- 14:40 **AO142 The clinical and pathophysiological features of cough-predominant-asthma**  
Jianmeng Zhou\*, Fang Yi, Hu Li, Wei Luo, Qiaoli Chen, Kefang Lai (China)
- 14:50 **AO143 High fractional exhaled nitric oxide levels predict short-term worsening of respiratory resistance**  
Yoshinari Endo\*, Taisuke Akamatsu, Toshihiro Shirai, Eishi Kato, Hidehiko Furui, Tetsuo Hiramatsu (Japan)
- 15:00 **AO144 Can faster escalations improve the effectiveness of asthma action plans?**  
T. K. LIM\*, Nora Said, Jaleelah Beevi, C. C. Gan, Salimah Maidin (Singapore)
- 15:10 **AO145 The characteristics of serum hydroxy-eicosatetraenoic acids in allergic bronchopulmonary aspergillosis**  
Lu Li, Baoqing Sun, Ge Wu, Peiyan Zheng (China), Jian-lin Wu\* (Macau)
- 15:20 **AOL002 Vietnam healthy lung program—a solution to fulfill the gaps in asthma and COPD management**  
Ngo Quy Chau\*, Lan Le Thi Tuyet, Nhung Nguyen Viet, Thuan Phan Thi, Hanh Tran My, Phuong Nguyen Thi Thu (Vietnam)

14:00-15:30

Room 102, 1F

**Oral Session 20**

**Tuberculosis 2**

Chair: Lalaine Mortera (Philippines)

Chair: Yi-Wen Huang (Taiwan)

- 14:00 **AO146 Lymphocyte levels association with bacterial load and pulmonary lesion form in MDR TB patient**  
Farah Vidiast\*, Andi Puji Pratiwi, Sarah Naura Irbah, Diah Handayani, M.D (Indonesia)
- 14:10 **AO147 The adherence and adverse effect of using preventive therapy for latent tuberculosis therapy among kidney transplant candidates**  
Chin-Chung Shu\*, Chin-Yuan Lee, Shu-Wen Lin (Taiwan)
- 14:20 **AO148 Trend of multidrug-resistant tuberculosis over 20 years: Drug resistance, treatment outcomes, and adverse events**  
Nakwon Kwak, Hye-Ryoun Kim, Chul-Gyu Yoo, Young Whan Kim, Sung Koo Han, Jae-Joon Yim\* (Korea)
- 14:30 **AO150 Chylous empyema and secondary spontaneous pneumothorax complicating pulmonary tuberculosis**  
Emmylou Adamos\*, Arnold Germar, Chona de Vera, Eloisa de Guia (Philippines)
- 14:40 **AO151 Lung cancer and tuberculosis: Complexities in diagnosis and management**  
Jerold Loh\*, Jeffrey Huey-Yew Lum, Ross Soo, Lieng-Hsi Ling, Pyng Lee (Singapore)
- 14:50 **AO152 Resistance pattern among drug-resistant tuberculosis patients in Indonesia**  
Bintang Yinke Magdalena Sinaga\*, I Gede Ketut Sajinadiyasa, Bambang Sigit Riyanto, Tutik Kusmiati, Irawaty Djaharuddin, Banteng Hanang Wibisono, Retna Mustika Indah, Parluhutan Siagian, Erlina Burhan (Indonesia)
- 15:00 **AO153 Seven days of fluoroquinolone exposure prior to tuberculosis diagnosis is associated with an increased risk of mortality**  
Shih-En Tang\*, Chia-Chi Chang, Shu-Yu Wu, Chung-Kan Peng, Chih-Feng Chian, Wann-Cherng Perng, Kun-Lun Huang, Fu-Huang Lin, Ming-Kuan Hu, Hsiao-Hsien Kang (Taiwan)

14:00-15:30

Room 103, 1F

**Oral Session 21**

**Cell and molecular biology**

Chair: Takahide Nagase (Japan)

Chair: Chul-Gyu Yoo (Korea)

- 14:00 **AO154 Immunolocalization of zinc transporters and metallothioneins supports a potential role of zinc in endothelium-smooth muscle cross talk in vascular physiology and COPD**  
Hai Bac Tran\*, Rachel Jakobczak, John Beltrame, Sandra Hodge, Peter D Zalewski (Australia)

- 14:10 **AO155 Mitofusins in type 2 alveolar cells are required for metabolic adaptation in pulmonary fibrosis**  
Kuei-Pin Chung\* (Taiwan), Kiichi Nakahira (United States), Chong-Jen Yu (Taiwan), Suzanne M. Cloonan, Augustine M.K. Choi (United States)
- 14:20 **AO156 New insights of the pathology of pulmonary fibrosis revealed by metabolome analysis ~ anti-fibrotic factor stanniocalcin1 (STC1) and systemic damage response~**  
Shinya Ohkouchi\*, Masahiko Kanehira, Yoshinori Okada, Hajime Kurosawa (Japan)
- 14:30 **AO157 Experimental lung injury reduces Krüppel-like factor 2 to increase endothelial permeability via regulation of RAPGEF3-Rac1 signaling**  
Yun Fang (United States)
- 14:40 **AO158 Treatment with Trichostatin A restores sensitivity to gefitinib and impairs cancer stem cells features in EGFR-mutant non-small cell lung cancer cells**  
Fariz Nurwidya\* (Indonesia), Fumiyuki Takahashi, Moulid Hidayat, Aditya Wirawan (Japan), Hario Baskoro (Indonesia), Motoyasu Kato, Ken Tajima (Japan), Sita Andarini, Faisal Yunus (Indonesia), Kazuhisa Takahashi (Japan)
- 14:50 **AO159 Regulator mechanism of cell motility and GM-CSF secretion by p116Rip via myosin and CREB phosphorylation in human lung fibroblasts**  
Yasuhiko Koga\*, Haruka Aoki-Saitoh, Masakiyo Yatomi, Hiroaki Tsurumaki, Kunio Dobashi, Takeshi Hisada (Japan)
- 15:00 **AO160 A novel peptide WKYMMV has therapeutic effect via IRF7/STAT1 pathway against endotoxin-induced ARDS**  
Hanbyeol Lee\*, Jooyeon Lee, Youngheon Park, Se-Ran Yang (Korea)
- 15:10 **AO161 Biological effects of preterm birth on airway development**  
Yifan Shan (China), Peter Noble, Edwards York, Brad Zhang, Yong Song\* (Australia)
- 15:20 **AO162 The effect of obesity on the expression of  $\alpha 7$  nicotinic acetylcholine receptor in LPS-induced lung inflammation**  
Dan Si, Yanan Qi, Minghong Xie, Yong Qi\* (China)

14:00-15:30

Room 105, 1F

### Oral Session 22

#### Respiratory infections (non-tuberculosis) 2

Chair: Chieh-Liang Wu (Taiwan)

Chair: Shih-Ming Tsao (Taiwan)

- 14:00 **AO163 Clinical characteristics of community-acquired pneumonia due to *Moraxella catarrhalis* in adults: A retrospective single center study**  
Jun Hirai\*, Takeshi Kinjo, Shusaku Haranaga, Jiro Fujita (Japan)
- 14:10 **AO165 Relationship between initial antibiotic therapy and outcomes in hospitalized patients with community acquired pneumonia at Dr. Soetomo General Hospital, Surabaya**  
Putu Dyah Widyaningsih\*, Soedarsono (Indonesia)
- 14:20 **AO166 *In vitro* antimicrobial susceptibility and treatment outcomes of molecular diagnosed *Mycobacterium kansasii* pulmonary disease**  
Chia-Jung Liu\*, Po-Ren Hsueh, Jung-Yien Chien (Taiwan)

- 14:30 **AO167 Overcoming biofilm mediated respiratory infections through exploitation of pathogen and host-directed novel peptides**  
Dhammika Leshan Wannigama\* (Thailand), Cameron Hurst (Australia), Peter Monk (United Kingdom), Anthony Kicic, Stephen Stick (Australia), Tanittha Chatsuwan (Thailand)
- 14:40 **AO168 Application of transmission electron microscopy in the etiologi diagnosis of severe pneumonia via BALF: A retrospective study**  
Yuanyuan Li\*, Juan Jiang, Pengbo Deng, Pinhua Pan, Chengping Hu (China)
- 14:50 **AO169 Serum IgA antibodies against glycopeptidolipid core antigen with smooth or rough morphotypes in patients with *Mycobacterium abscessus* complex lung disease**  
Takehiko Kobayashi\*, Kazunari Tsuyuguchi, Shiomi Yoshida, Yu Kurahara, Shojiro Minomo, Seiji Hayashi, Yoshikazu Inoue, Katsuhiko Suzuki (Japan)
- 15:00 **AO170 The correlation analysis between virus loading and shedding with the clinical feature of patients infected by influenza virus in adult**  
Zhengtu Li\*, Xiaojuan Chen, Feng Ye (China)

16:00-17:30

Plenary Hall, 3F

### Symposium 27

#### Clinical respiratory medicine 2 - Update of lung transplantation

Chair: Hui-Ping Liu (Taiwan)

Chair: Kuo-Chin Kao (Taiwan)

- 16:00 **S27-1 Lung transplantation in Taiwan**  
Hsao-Hsun Hsu (Taiwan)
- 16:30 **S27-2 Living-donor lobar lung transplantation**  
Hiroshi Date (Japan)
- 17:00 **S27-3 Lung in a box: Ex vivo lung perfusion and ambulatory ECMO as a bridge to lung transplant**  
Jules Lin (United States)

16:00-17:30

Room 201ABC, 2F

### Symposium 28

#### Respiratory neurobiology and sleep 2 - The phenotype of obstructive sleep apnea syndrome

Chair: Richard John Schwab (United States)

Chair: Ning-Hung Chen (Taiwan)

- 16:00 **S28-1 The phenotype of OSA in Asians**  
Li-Pang Chuang (Taiwan)
- 16:30 **S28-2 Phenotype and genotype of OSA**  
Chol Shin (United States)
- 15:00 **S28-3 Novel insights into the pathogenesis and management of OSA with upper airway imaging**  
Richard John Schwab (United States)

16:00-17:30

Room 201DEF, 2F

### Symposium 29

#### Paediatric lung disease 2 - Pediatric asthma

Chair: Peter Gerard Gibson (Australia)

Chair: Chun-Hua Wang (Taiwan)

- 16:00 **S29-1 Vitamin D supplementation in pregnancy and offspring asthma and lung function**  
Augusto A. Litonjua (United States)
- 16:30 **S29-2 RSV infection and recurrent wheezing in children**  
Hiroyuki Mochizuki (Japan)
- 17:00 **S29-3 Update on pediatric asthma in Asia Pacific**  
Jiu Yao Wang (Taiwan)

16:00-17:30

Room VIP, 4F

### Oral Session 23

#### Lung cancer 2

Chair: Cheng-Ta Yang (Taiwan)

Chair: David Planchard (France)

- 16:00 **AO171 Taiwan lung cancer screening program for never smokers**  
Pan-Chyr Yang\* on behalf of TALENT study group, Taiwan Lung Cancer Screening in Never-smoker Trial (Taiwan)
- 16:10 **AO172 Clinical implication of DNA methylation analysis in the oral epithelium for lung cancer risk stratification**  
Hiroaki Harada\*, Narumi Yashiki, Tomohiro Kanbara, Kazuaki Miyamoto, Chika Murakami, Satoshi Shibata, Takashi Ogawa, Yoshifumi Nishimura, Kozue Miyazaki, Isao Murakami (Japan)
- 16:20 **AO173 Metabolic profiling classifies non-small cell lung cancer cells into different subtypes with distinct sensitivities to metabolic inhibitions**  
Ting-Chun Kuo\*, Kuo-Yen Huang, Shuenn-Chen Yang, Yih-Leong Chang, Tse-Ming Hong, Hsuan-Yu Chen, Tzu-Hung Hsiao, Pan-Chyr Yang (Taiwan)
- 16:30 **AO174 Angiotensin-(1-7) suppresses NSCLC acquired platinum resistance-induced tumor angiogenesis via PI3K/Akt and MAPK signaling pathways**  
Yun Feng\*, Yi Xiang, Beili Gao, Huanying Wan (China)
- 16:40 **AO175 The role of the ground-glass opacity ratio in resected lung adenocarcinoma**  
Tsai-Wang Huang (Taiwan)
- 16:50 **AO176 Differential C-terminal protein fragments of  $\alpha$ -1-microglobulin/bikunin precursor as potential maker for early detection of lung adenocarcinoma**  
Hironobu Tsubouchi\*, Shigehisa Yanagi, Nobuhiro Matsumoto, Nobuaki Okumura, Toshihumi Takao, Masamitsu Nakazato (Japan)
- 17:00 **AO177 Phosphorylation of the cytoskeletal protein CAP1 regulates non-small cell lung cancer survival and proliferation by GSK3 $\beta$**   
Shuanshuan Xie (China)

- 17:10 **AO178 Epigenetic therapy modulates polyfunctionality of tumor-reactive T cells in non-small cell lung cancer**  
Yi-Chieh Wu, Shu-Yung Lin, I-Yu Chen, Jih-Hsiang Lee, Kuang-Hua Cheng, Huan-Jang Ko, Wen-Chien Huang, Chong-Jen Yu, Yen-Ling Chiu, Hsing-Chen Tsai\* (Taiwan)
- 17:20 **AOL003 Progression-free survival among progressed Non-small Cell Lung Cancer (NSCLC) with T790M mutation as guided by liquid biopsy is shorter than those based on tissue re-biopsy**  
Wang Chun Kwok\*, James Chung Man Ho, David Chi Leung Lam Lam, Macy Mei Sze Lui, Mary Sau Man Ip, Terence Chi Chun Tam (Hong Kong)

16:00-17:30

Room 102, 1F

**Oral Session 24  
Tuberculosis 3**

Chair: Chen-Yuan Chiang (Taiwan)

Chair: Chi Chiu Leung (Hong Kong)

- 16:00 **AO179 Adverse reactions among patients being treated with shorter multi-drug resistant tuberculosis regimen at Persahabatan Hospital, Indonesia**  
Jaka Pradipta\*, Priyanti Z Soepandi, Erlina Burhan, Fathiyah Isbaniah, Heidy Agustin, Diah Handayani, Gatut Priyonugroho (Indonesia)
- 16:10 **AO180 The myeloid derived suppressor cells increased predominantly in latent tuberculosis infection while regulatory T cells elevated in TB reactivation**  
Chin-Chung Shu (Taiwan)
- 16:20 **AO181 How effective is the systemic integration of smoking cessation into tuberculosis control programme in creating smoke-free environments in the Philippines?**  
Akihiro Ohkado\* (Japan), Aurora Querri, Jesse Bermejo (Philippines), Lisa Kawatsu (Japan), Ana Marie Celina Garfin (Philippines)
- 16:30 **AO182 Correlation between clinical manifestation and severity of tuberculosis disease (a multy centre study in Indonesia)**  
Irawaty Djaharuddin\*, Parluhutan Siagian, I Gede Ketut Sajinadiyasa, Bambang Riyanto, Tutik Kusmiati, Diah Handayani, Banteng Wibisono, Nugroho Wibisono, Erlina Burhan (Indonesia)
- 16:40 **AO183 Endobronchial lesion in patients with smear-negative pulmonary tuberculosis**  
Lam Nguyen Ho\*, Ngoc Tran Van, Vu Le Thuong (Vietnam)
- 16:50 **AO184 Prolonged QT and torsade de pointes in patient with XDR tuberculosis treated with Bedaquilline**  
Priska Duana Putri\*, Neni sawitri, Alvin Kosasih, Fordiastiko Fordiastiko (Indonesia)
- 17:00 **AO185 CD8 response measured by QuantiFERON-TB gold plus and tuberculosis disease status**  
Meng-Rui Lee\*, Jann-Yuan Wang, Li-Na Lee (Taiwan)

- 17:10 **AO149 Initial implementation of shorter regimen for MDR-TB in Dr. Soetomo Hospital, Surabaya: The proportion between eligibility and ineligibility**  
Soedarsono (Indonesia)
- 17:20 **AOL004 A rare entity: Disseminated tuberculosis with evans syndrome**  
Dinesh Chand Gupta\*, Divesh Goyal (India)

**16:00-17:30**

**Room 103, 1F**

**Oral Session 25**

**Clinical allergy and immunology**

Chair: Takashi Iwanaga (Japan)

Chair: Horng-Chyuan Lin (Taiwan)

- 16:00 **AO186 An evidence-based medicine follow-up and comparison study on atopic upper and lower airway disorder**  
Kuang-Yu Chen\*, Ming-Hui Hung, Kuo-Chin Chiu, Wei-Chun Lin (Taiwan)
- 16:10 **AO187 Increased numbers of group 2 innate lymphoid cells in the airways of patients with eosinophilic bronchitis**  
Chen Zhan\*, Jiaying Liu, Rong Xu, Wanqin Liang, Wei Luo, Nanshan Zhong (China), Paul M O'Byrne (Canada), Kefang Lai (China), Roma Sehmi (Canada), Ruchong Chen (China)
- 16:20 **AO188 Asia Pacific survey of physicians on asthma and allergic rhinitis (ASPAIR): Data for general practitioners compared to paediatricians**  
Sumitra Shantakumar, Bhumika Aggarwal\* (Singapore), Aruni Mulgirigama (United Kingdom), David Hinds (United States)
- 16:30 **AO189 Increased numbers of CD4<sup>+</sup>CRTh2<sup>+</sup> T cells in the airways of patients with eosinophilic bronchitis**  
Jiaying Liu\*, Chen Zhan, Rong Xu, Wanqin Liang, Wei Luo, Nanshan Zhong (China), Paul M. O'Byrne (Canada), Kefang Lai (China), Roma Sehmi (Canada), Ruchong Chen (China)

**16:00-17:30**

**Room 105, 1F**

**Oral Session 26**

**Interstitial lung disease 2**

Chair: Takafumi Suda (Japan)

Chair: Chi-Wei Tao (Taiwan)

- 16:00 **AO190 Impairment of lung diffuse function in patients with pulmonary lymphangiomyomatosis (LAM)**  
An Jia-Ying\*, Jie Liu, Zheng Zhu, Yi-min Kuang, Zheng Jin-ping (China)
- 16:10 **AO191 Long-term treatment with nintedanib in Asian patients with idiopathic pulmonary fibrosis: Results from INPULSIS-ON**  
Jin Woo Song\* (Korea), Takashi Ogura, Yoshikazu Inoue (Japan), Zuojun Xu (China), Manuel Quaresma, Susanne Stowasser, Wibke Stansen (Germany), Bruno Crestani (France)



- 16:20 **AO192 Non-interventional study collecting experiences for IPF in Taiwan (NICEFIT study): Interim report**  
Hao-Chien Wang, Diahn-Warng Perng, Chih-Feng Chian, Kuo-Chin Kao, Shih-Lung Cheng\*, Jeng-Yuan Hsu, Liang-Wen Hang, Ching-Hsiung Lin, Chau-Chyun Sheu, Wen-Feng Fang, Yu-Ling Chang (Taiwan)
- 16:30 **AO193 Effect of tocilizumab on interstitial lung disease in patients with rheumatoid arthritis**  
Naotatsu Otsuji\*, Kumiya Sugiyama, Kentaro Nakano, Tomoshige Wakayama, Hirokuni Hirata, Yasutsugu Fukushima (Japan)
- 16:40 **AO194 Does FEF<sub>25-75</sub> distinguish between airway obstruction and restriction in DPLD?**  
Debkanya Dey\*, Mintu Paul, Sayoni Sengupta, Dipanjan Saha, Parthasarathi Bhattacharyya (India)
- 16:50 **AO195 Cigarette smoking can aggravate pulmonary fibrosis by inducing alveolar epithelial cell II senescence**  
Ying Meng\*, Yue Zhang (China)

17:45-18:45

Room 201ABC, 2F

### Evening Symposium 2 - Chiesi and OEP

#### Asthma

Chair: Jubert Benedicto (Philippine)

- 17:45 **ES02-1 Symptomatic patients with preserved lung function: Treat it or not ? Why?**  
Diahn-Warng Perng (Taiwan)
- 18:15 **ES02-2 Real-life study of extra-fine formulation in asthma**  
David Price (United Kingdom)

17:45-18:45

Room 201DEF, 2F

### Evening Symposium 3 - GSK

#### Individualizing the therapeutic strategy in COPD

Chair: Meng-Chih Lin (Taiwan)

- 17:45 **ES03-1 COPD facts and gaps in Asia Pacific**  
Horng-Chyuan Lin (Taiwan)
- 18:00 **ES03-2 The role of the Ellipta portfolio**  
Paul Jones (United Kingdom)
- 18:35 **Q&A and closing remarks**

17:45-18:45

Room VIP, 4F

**Evening Symposium 4 - Roche**

**Cancer immunotherapy**

Chair: Gee-Chen Chang (Taiwan)

17:45 **ES04-1 Activate the POWER- clinical advances of atezolizumab in lung cancer**

Leora Horn (United States)

18:15 **ES04-2 Cancer immunotherapy in EGFR+ patients**

Shih-Hsin Hsiao (Taiwan)

17:45-18:45

Room 103, 1F

**Evening Symposium 5 - Novartis**

**The asthma patient journey: What more can be done?**

Chair: Kang-Yun Lee (Taiwan)

Chair: Shih-Lung Cheng (Taiwan)

17:45 **ES05-1 Phenotype/endotype in severe asthma patients**

Kian Fan Chung (United Kingdom)

18:15 **ES05-2 Current options for severe asthma treatment and what's on the horizon?**

Po-Jui Chang (Taiwan)

17:45-18:45

Room 105, 1F

**Evening Symposium 6 - AstraZeneca Taiwan**

**A paradigm shift in the treatment of locally advanced and advanced NSCLC**

Chair: Pan-Chyr Yang (Taiwan)

17:45 **ES06-1 Evolving decisions and best practices in the management of EGFR M+ NSCLC**

Suresh S. Ramalingam (United States)

18:15 **ES06-2 Incorporating multimodality strategy in unresectable stage III NSCLC**

Chao-Chi Ho (Taiwan)

## Sunday 2 December, 2018

08:10-08:50

Plenary Hall, 3F

### Plenary Lecture

#### Memorial lecture 2: Michiyoshi Harasawa Research Award

Chair: Ning-Hung Chen (Taiwan)

Chair: Chol Shin (United States)

08:10 **PL3** **Overcoming sleep disordered breathing for a healthy life expectancy**  
Kazuo Chin (Japan)

09:00-10:30

Plenary Hall, 3F

### Symposium 30

#### Asthma 1 - Phenotypes of severe asthma and evolving treatment

Chair: Kang-Yun Lee (Taiwan)

Chair: Thu Phuong Phan (Vietnam)

09:00 **S30-1** **Multi-level data integration to get asthma subphenotypes: Aiming towards personalised medicine**  
Kian Fan Chung (United Kingdom)

09:30 **S30-2** **Current biologics for asthma treatable traits**  
Peter Gerard Gibson (Australia)

10:00 **S30-3** **New insights into the respiratory infection trigger a paradigm shift in the treatment of severe asthma**  
Kazuhiro Ito (Japan)

09:00-10:30

Room 201ABC, 2F

### Symposium 31

#### Tuberculosis 2 - Management of latent TB infection (LTBI): An update

Chair: Yi-Wen Huang (Taiwan)

Chair: Erlina Burhan (Indonesia)

09:00 **S31-1** **Diagnosis of latent TB infection: Recent advance**  
Won-Jung Koh (Korea)

09:30 **S31-2** **Programmatic scaling up of treatment of latent TB infection**  
Jann-Yuan Wang (Taiwan)

10:00 **S31-3** **Adverse effects during treatment of latent tuberculosis infection**  
Chi Chiu Leung (Hong Kong)

09:00-10:30

Room 201DEF, 2F

### Symposium 32

#### Clinical respiratory medicine 3 - Recent advance in thoracic imaging biomarker and functional imaging of the chest

Chair: Hsian-He Hsu (Taiwan)

Chair: Hans-Ulrich Kauczor (Germany)

09:00 **S32-1 MRI of the thorax: Recent advances in pulmonary disease**

Hans-Ulrich Kauczor (Germany)

09:30 **S32-2 Artificial intelligence application in chest imaging**

Joon Beom Seo (Korea)

10:00 **S32-3 Imaging biomarker of lung cancer**

Yeun-Chung Chang (Taiwan)

09:00-10:30

Room 102, 1F

### Oral Session 27

#### COPD 3 - Advance treatment and pulmonary rehabilitation in COPD

Chair: Kazuto Matsunaga (Japan)

Chair: Dave Singh (United Kingdom)

09:00 **AO196 Heart rate variabilities biofeedback as an adjunct to pulmonary rehabilitative in chronic obstructive pulmonary disease**

Yu-Ju Chen\*, Liang-Hui Huang, Ching-Yi Lee, Kun-Lun Huang (Taiwan)

09:10 **AO197 Factors associated with non-attendance to pulmonary rehabilitation in Canterbury, New Zealand**

David Chen (New Zealand)

09:20 **AO198 Impact of music therapy on Chronic Obstructive Pulmonary Disease (COPD) patients**

Suk Fong Wai\*, Kah Lin Choo, Chiu Sin Man, Yee Ping Vong, Ching Han Leung, Hok Tsun Ma (Hong Kong)

09:30 **AO199 Efficacy and safety of Glycopyrronium/Formoterol Fumarate dihydrate Metered Dose Inhaler (GFF MDI) delivered using co-suspension delivery technology in Chinese patients with COPD**

Nanshan Zhong\*, Rongchang Chen, Hao-Yan Wang, Li Zhao, Xiaodong Mei, Zhiqiang Qin, Pryseley N. Assam (China), Andrea Maes, Ubaldo J. Martin, Colin Reisner (United States)

09:40 **AO200 Benefits and risks of inhaled corticosteroid treatment in patients with COPD classified by blood eosinophil counts**

Zenya Saito\*, Masahiro Yoshida, Tsukasa Hasegawa, Kazuyoshi Kuwano (Japan)

09:50 **AO201 Clinical course of COPD patients with both emphysema and airway wall thickening on CT compared to other phenotypes**

Jeong Uk Lim\*, Sang-Do Lee, Yeon-Mok Oh, Chin Kook Rhee (Korea)

10:00 **AO202 Four-weeks remote pulmonary rehabilitation protocol with mobile APPs of real-time heart rate monitoring for GOLD category B/C/D- a study design**

Kuang-Yu Chen\*, Ming-Hui Hung, Ming-Che Chang, Chig-Wei Kuo, Chih-Ming Lin, Li-Pang Chuang, Kuo-Chin Kao (Taiwan)

11:00-12:30

Plenary Hall, 3F

**Symposium 33**

**Asthma 2 - Novel pathogenesis of severe asthma**

Chair: Peter Gerard Gibson (Australia)

Chair: Akio Niimi (Japan)

- 11:00 **S33-1 The asthmatic airway microbiome**  
William Cookson (United Kingdom)
- 11:30 **S33-2 Increased sputum B cells in severe eosinophilic asthma: A local auto-inflammatory process**  
Hui Fang Lim (Singapore)
- 12:00 **S33-3 Fibrocytes as a novel target in chronic obstructive asthma**  
Chun-Hua Wang (Taiwan)

11:00-12:30

Room 201ABC, 2F

**Symposium 34**

**Cell and molecular biology - Molecule- and Cell-based therapeutics in advanced lung diseases**

Chair: Augustine M.K. Choi (United States)

Chair: Reen Wu (United States)

- 11:00 **S34-1 Severe asthma: Cellular and immunological perspectives**  
Nicholas James Kenyon (United States)
- 11:30 **S34-2 Monomeric periostin is a specific biomarker for idiopathic pulmonary fibrosis**  
Tomoaki Hoshino (Japan)
- 12:00 **S34-3 Therapeutic targeting of activated fibroblasts in idiopathic pulmonary fibrosis**  
Ching-Hsien Chen (United States)

11:00-12:30

Room 201DEF, 2F

**Symposium 35**

**Clinical allergy and immunology - Allergic pathogenesis of non-allergic airway diseases**

Chair: Masakazu Ichinose (Japan)

Chair: Albert Yick Hou Lim (Singapore)

- 11:00 **S35-1 Allergic fungal airway diseases**  
Jacques F. Meis (Netherlands)
- 11:30 **S35-2 Pathogenesis of COPD**  
Masakazu Ichinose (Japan)
- 12:00 **S35-3 Molecular control of eosinophilic and neutrophilic inflammation in chronic obstructive airway diseases**  
Kang-Yun Lee (Taiwan)

**11:00-12:30**
**Room 102, 1F**
**Oral Session 28**  
**Lung cancer 3**

Chair: Gee-Chen Chang (Taiwan)

Chair: Sita Andarini (Indonesia)

- 11:00 **AO203 Immunological analysis of pleural effusion in cancer patients who received Immune Checkpoint Inhibitors (ICI) for the development of biomarkers**  
 Yuki Ikematsu\*, Kentaro Tanaka, Toyoshi Yanagihara, Rengpeng Liu, Isamu Okamoto, Yoichi Nakanishi (Japan)
- 11:10 **AO204 Study of synergistic effect of metformin with pemetrexed in lung cancer therapy via orthotopic lung injection fluorescent mice tumor model**  
 Jiun-Long Wang\*, Ying-Wei Lan, Chuan-Mu Chen (Taiwan)
- 11:20 **AO205 Adenylate cyclase-associated protein 1-targeted nanoparticles as a novel strategy for the treatment of metastatic non-small cell lung cancer**  
 Shuanshuan Xie\*, Yang Liu (China)
- 11:30 **AO206 Incidence of brain metastasis in patient with newly diagnosed lung adenocarcinoma**  
 Bumhee Yang\*, Hyun Lee, Hun-Il Gil, Sun Hye Shin, Sumin Shin, Kyung Soo Lee, Hojoong Kim (Korea)
- 11:40 **AO207 Association between liquid biopsy and tissue biopsy for EGFR mutation in lung adenocarcinoma**  
 Chia Yu Kuo\*, Mei-Hsuan Lee, Jen-Yu Hung, Ta-Chih Liu, Inn-Wen Chong (Taiwan)
- 11:50 **AO208 miR-126\* and miR-145 as potential biomarkers for non-small cell lung cancer**  
 Alvin Hong-Wai Fong, Jessica Ka-Men Lai, Jacky Yu-Chung Li, William Chi-Shing Cho\* (Hong Kong)
- 12:00 **AO209 Mir-204 restores the EGFR tyrosine kinase inhibitor-sensitivity through attenuating epithelial to mesenchymal transition and cancer stemness**  
 Jin-Yuan Shih\*, Tzu-Hua Chang, Shang-Gin Wu (Taiwan)
- 12:10 **AO210 Evaluation of the efficacy and safety of intrapleural injection of Bevacizumab treatment of malignant pleural effusion caused by lung adenocarcinoma**  
 Yan Gu\*, Wanling Yang, Xiuhua Fu (China)
- 12:20 **AO047 The real-world efficacy of first-line tyrosine kinase inhibitors in Asian patients with EGFR mutation non-small cell lung cancer**  
 Vincent Yi-Fong Su\*, Kuang-Yao Yang, Yuh-Min Chen (Taiwan)

**12:30-13:00**
**Plenary Hall, 3F**
**Closing Ceremony**

# POSTER SESSIONS

Poster area is open to all participants on Friday and Saturday from 11:00-17:30 and on Sunday from 09:00-11:00 in banquet hall on the 3<sup>rd</sup> floor;. Posters are exchanged on a daily basis. Poster authors must be present at their posters for discussion during their poster session; the presenting author is indicated by an asterisk [\*].

## Overview

### Friday 30 November

#### Poster Session I 11:00-12:30

Asthma 1	AP001-AP026
Critical Care Medicine 1	AP130-AP158; AP472; AP659; AP667; APL006
Environmental & Occupational Health and Epidemiology 1	AP159-AP170
Interstitial Lung Disease 1	AP171-AP190; AP192-AP198; AP660
Lung Cancer 1	AP199-AP243; AP665
Respiratory Infections (non-tuberculous) 1	AP254-AP283; AP662; APL008

#### Poster Session II 14:00-15:30

Bronchoscopy and Interventional Techniques 1	AP027-AP051
Cell and Molecular Biology 1	AP052-AP061; APL001
Clinical Allergy and Immunology 1	AP062-AP067
Clinical Respiratory Medicine 1	AP068-AP084
COPD 1	AP085-AP129; AP664; APL003-APL005
Paediatric Lung Disease 1	AP244; AP246-AP248
Pulmonary Circulation 1	AP249-AP253
Respiratory Neurobiology and Sleep 1	AP284-AP293
Respiratory Structure and Function 1	AP295-AP302; APL009
Tuberculosis 1	AP303-AP326; APL010

### Saturday 1 December

#### Poster Session III 11:00-12:30

Asthma 2	AP327-AP352
Cell and Molecular Biology 2	AP378-AP383
Clinical Allergy and Immunology 2	AP384-AP387
Interstitial Lung Disease 2	AP495-AP522
Lung Cancer 2	AP523-AP524; AP526-AP569; APL013
Respiratory Infections (non-tuberculous) 2	AP581-AP588; AP590-AP605; AP607-AP611; AP657-AP658; AP663
Tuberculosis 2	AP630-AP656; APL016-AP017

#### Poster Session IV 14:00-15:30

Bronchoscopy and Interventional Techniques 2	AP353-AP377
Clinical Respiratory Medicine 2	AP388-AP406
COPD 2	AP407-AP431; AP433; AP435-AP444; AP446-AP452; AP661; APL011
Critical Care Medicine 2	AP453-AP471; AP473-AP480; AP666
Environmental & Occupational Health and Epidemiology 2	AP481-AP494
Paediatric Lung Disease 2	AP570-AP576
Pulmonary Circulation 2	AP577-AP580; APL014
Respiratory Neurobiology and Sleep 2	AP612-AP620; APL015
Respiratory Structure and Function 2	AP621-AP629



**Friday 30 November**
**Banquet Hall, 3F**
**Asthma**

Chair: Thu Phuong Phan (Vietnam)

**AP001 Changes in fractional nitric oxide concentration in exhaled breath with the use of ICS/LABA inhalers**

Takeshi Saito\*, Naoki Miyao, Naoko Harada, Taro Takahashi, Kengo Otsuka (Japan)

**AP002 FEF<sub>25-75</sub> is the better diagnostic tool for identifying asthma patients**

Debkanya Dey\*, Dipanjan Saha, Mintu Paul, Sayoni Sengupta, Parthasarathi Bhattacharyya (India)

**AP003 Healthy lung Asia initiative**

Felicity Swan, Lucy Dance\* (Singapore)

**AP004 ANCA negative eosinophilic granulomatosis with polyangiitis: 4 cases report and literature review**

Xiaoyi Hu, Lingwei Wang\*, Chen Qui (China)

**AP005 Common microRNA changes in bronchial epithelial cells of asthma and chronic obstructive pulmonary diseases**

Ming-Ju Tsai\*, Wei-An Chang, Ya-Ling Hsu, Po-Lin Kuo, Chau-Chyun Sheu (Taiwan)

**AP006 S1P/S1PR3 pathway has the role in eosinophilic airway inflammation via release of CCL20 from bronchial epithelial cells**

Yuichiro Yasuda\*, Tatsuya Nagano, Yoshitaka Kawa, Tomomi Terashita, Kanoko Umezawa, Masahiro Katsurada, Masatsugu Yamamoto, Hiroshi Kamiryo, Kazuyuki Kobayashi, Yoshihiro Nishimura (Japan)

**AP007 Allergic sensitization profile of polysensitized asthmatic patients in southern China using molecule-based IgE technique**

Haisheng Hu, Baoqing Sun\*, Wenting Luo (China)

**AP008 Predictors to the exacerbation of bronchial asthma among children between 6-18 years old at Chong Hua Hospital**

Joseph Raevin Pelayo (Philippines)

**AP009 Post hoc analysis of initial treatments and control status using different GINA criteria in INITIAL, an observational study of newly diagnosed Chinese patients with asthma**

Jiangtao Lin\*, Xiuhua Fu, Ping Jiang, Weidong Song, Xiaoyun Hu, Zhijun Jie, Chuntao Liu, Zhengguang He, Xiangdong Zhou, Huaping Tang (China)

**AP010 Small airway dysfunction predicted fixed airflow obstruction in older asthma patients**

Eung gu Lee\*, Hwa Young Lee, Heo Yon Lee, Chin Kook Rhee, Young Kyoon Kim, Sook Young Lee (Korea)

**AP011 Chitin induced production of prostaglandin E2 in alveolar macrophages and bronchial epithelial cells**

Tomohito Takeshige\*, Norihiro Harada, Kei Matsuno, Ayako Ishimori, Yuki Tanabe, Hitoshi Sasano, Fumihiko Makino, Jun Ito, Hisaya Akiba, Kazuhisa Takahashi (Japan)

**AP012 The level of plasminogen activator inhibitors 1 in asthma patients and correlation with lung function and degree of asthma control**

Harun Iskandar\*, Junardy Polopadang, Makbul Aman (Indonesia)

**AP013 Corelation between inhaled beta-2 agonist and corticosteroid with the degree of asthma control and lung fuction**

Harun Iskandar\*, Muhammad Ranushar (Indonesia)

<b>AP014</b>	<b>The role of Aps f 6 the component of <i>Aspergillus fumigatus</i> on the identifying ABPA and asthma</b> Wenting Luo*, Baoqing Sun, Zehong Wu (China)
<b>AP015</b>	<b>Association of psoriasis with asthma: A systematic review and meta-analysis of observational studies</b> Tien-Pei Fang*, Ching-Chi Chi, Yu-Ching Lin, Shu-Huai Cheng (Taiwan)
<b>AP016</b>	<b>Perception of doctors about diagnosis, management and facing the challenges with their patients with asthma: An observation-based survey in Nepal</b> Ramesh Chokhani, Narendra Bhatta, Urya Narayan Pathak (Nepal), Urvi Khorani, Vaibhav Gaur*, Jaideep Gogtay (India)
<b>AP017</b>	<b>Routine benzodiazepine use may not increase the frequency of asthma exacerbations</b> Ryunosuke Ooi*, Kazunori Tobino (Japan)
<b>AP018</b>	<b>The effect of using mobile app for training nurses on correct use of inhaler devices</b> Lay Ping Neo*, Chee Yen Goh, Chung Leung Robin Chan, Simon Fauvel, Chunyan Miao, Ser Hon Pua (Singapore)
<b>AP019</b>	<b>A survey on the morbidity and cost of multiple chronic conditions in asthma patients</b> Eun-Jung Jo*, Kyu Min Lee, Hye-Kyung Park, Minhyeok Choi, Chang-Hoon Kim (Korea)
<b>AP020</b>	<b>Different impacts of comorbidity of allergic rhinitis on obese and non-obese patients with asthma</b> Masako To*, Ryuta Tsuzuki, Otohiro Katsube, Satoshi Yamawaki, Seiko Soeda, Yuta Kono, Natsue Honda, Ichino Kano, Kosuke Haruki, Yasuo To (Japan)
<b>AP021</b>	<b>Inhibition of mab on proliferation and migration of ASMCs Induced by PDGF-BB and its effects on mitochondria</b> Gu Yaru, Xie Zhehui, Yu Xitong, Yang Rui, Zhang Yuyang* (China)
<b>AP022</b>	<b>Retrospective study total serum immunoglobulin E, allergen-specific IgE profile and peripheral blood eosinophilia percentage in moderate to severe asthmatic patients in respiratory clinic, Taiping Hospital</b> Mangayarkarasi M Ramanathan*, Teng Teng Tee, Umadevi A Muthukumar (Malaysia)
<b>AP023</b>	<b>Response of goblet cells of bronchial epithelium in patients with mild asthma and cold airway hyperresponsiveness to regular controller therapy with inhaled corticosteroids</b> Juliy M. Perelman*, Aleksey B. Pirogov, Anna G. Prikhodko (Russia), Xiangdong Zhou, Qi Li (China)
<b>AP024</b>	<b>Healthy lung programme- an initiative from TSPCCM (Taiwan Society of Pulmonary and Critical Care Medicine) and AstraZeneca (AZ) Taiwan to improve Taiwan asthma management</b> Hao-Chien Wang*, Ching-Hsiung Lin, Kuo-Chin Chiu, Meng-Chih Lin, Chia-Yun Chiang, Katelyn Chao, Ben Chen, Adam Hsieh (Taiwan)
<b>AP025</b>	<b>The ratio of neural drive to tidal volume measured from surface electrodes can detect clinically significant falls in FEV1 in asthmatic subjects during histamine challenge</b> Baiting He*, Ying-Mei Luo, Yin-Xin Wu (China), Joerg Steier (United Kingdom), Li-Shuang Wang, Sen-Rui Wu, Miaomiao Zhang (China), John Moxham, Michael I Polkey (United Kingdom), Yuanming Luo (China)
<b>AP026</b>	<b>Risk factors and mechanism for anxiety and depression in Chinese adults with asthma</b> Qiu Chen*, Xian Zhihong, Feng Mengjie (China)

## Bronchoscopy and interventional techniques

Chair: Phan Nguyen (Australia)

- |              |   |
|--------------|---|
| <b>AP027</b> | <b>Using guiding device as assisted tool with endobronchial ultrasound transbronchial biopsy to get adequate rebiopsy sample</b>  |
|              | Lih-Yu Chang*, Jen-Chung Ko, Chao-Chi Ho (Taiwan)   |
| <b>AP028</b> | <b>Radial probe endobronchial ultrasound assisted conventional transbronchial needle aspiration in the diagnosis of solitary peribronchial pulmonary lesion located in the segmental bronchi</b>  |
|              | Zhiang Huang*, Haidong Huang, Jin Han, Yibo Shen, Hui Shi, Qin Wang, Yunye Ning, Chong Bai, Qiang Li (China), Michael Simoff (United States)  |
| <b>AP029</b> | <b>A novel method for treating the refractory and severe benign central airway stenosis with oscillating positive expiratory pressure--two cases report</b>   |
|              | Haidong Huang, Weihua Zhu*, Hao Qin, Qin Wang, Chong Bai (China)  |
| <b>AP030</b> | <b>A case of bronchial foreign body aspiration caused by Japanese spiny lobster's antenna</b>   |
|              | Manabu Suzuki*, Eriko Miyawaki, Kawajiri Kohei, Yoshie Tsujimoto, Masao Hashimoto, Teruhiko Sato, Motoyasu Iikura, Shinyu Izumi, Yuichirou Takeda, Haruhito Sugiyama (Japan)  |
| <b>AP031</b> | <b>A case of bronchial mucoepidermoid carcinoma treated by photodynamic therapy</b>   |
|              | Fa Long*, Peng Fu, MingHui Chen, WenTing Huang, Liang Long, JiBin Zou, Ding Zhong (China)   |
| <b>AP032</b> | <b>Does bronchoscopy have a risk of postoperative recurrence?</b>   |
|              | Naoki Watanabe*, Takuya Inoue, Akira Tadokoro, Nobuhiro Kanaji, Norimitsu Kadowaki, Tomoya Ishii (Japan)  |
| <b>AP033</b> | <b>Factors influence the diagnostic yield of endobronchial ultrasound-guided transbronchial biopsy in peripheral pulmonary lesions</b>  |
|              | Ching-Kai Lin*, Kai-Lun Yu, Yueh-Feng Wen, Chao-Chi Ho (Taiwan)   |
| <b>AP034</b> | <b>Safety evaluation of rigid bronchoscopies and the rapetic precedures</b>   |
|              | Zhou Yunchun*, Huang Haidong (China)  |
| <b>AP035</b> | <b>Use of cryobiopsy during semi-rigid pleuroscopy</b>  |
|              | Mei Fong Liew*, Ju Ee Seet, Brendan Nghee Kheem Pang, Hiang Ping Chan, Pyng Lee (Singapore)   |
| <b>AP036</b> | <b>Endobronchial balloon tamponade achieving successful control of massive hemoptysis secondary to metastatic lung disease: A case report</b>   |
|              | Minerva Joy Villalobos*, Richmond Gregorio, Gilly May Santiago-Europa, Michelle Jane Buaron, Katherine Villareal, Melissa Biason, Raychelle Ann Yang-Nagano, Jude Patrick Roxas, Sayyid Ronron Datukon, Ferdinand Gerodias, Jr. (Philippines) |
| <b>AP037</b> | <b>Evaluation the physiological changes of central airway on multi-detector computed tomography</b>   |
|              | Yahua Li*, Lei Li, Kewei Ren, Xinwei Han (China)  |
| <b>AP038</b> | <b>Initial experience on percutaneous catheter drainage for respiratory diseases in Sri Lanka- an audit</b>   |
|              | Asela Bandara, Niroshan Abeygunawardane, Sachini Seneviratne, Samadara Nakandala, Sajani Dharmadasa, Dushantha Madegedara* (Sri Lanka)  |
| <b>AP039</b> | <b>A case of right lung reexpansion due to tracheal perforation</b>   |
|              | Xin Zhang, HaiDong Huang, Jie Ren* (China)  |

<b>AP040</b>	<b>The impact of the high-flow nasal oxygen to the safety and sedative quality of patients undergoing bronchoscopy- preliminary data</b>
	Chang-Wei Lin*, Ting-Yu Lin, Yu-Lun Lo (Taiwan)
<b>AP041</b>	<b>A simplified method of transesophageal needle aspiration with an ultrasound-guided bronchoscope (EBUS-TENA)</b>
	Guo Shuliang*, Liwan Dai, Yishi Li, Xinzhu Liu (China)
<b>AP042</b>	<b>Molecular analysis of small tissue samples obtained via transbronchial lung biopsy using radial probe endobronchial ultrasound</b>
	Kyu Min Lee*, Jung Seop Eom, Min Ki Lee, Hye-Kyung Park, Ki Uk Kim, Kwangha Lee, Mi Hyun Kim, Jeong Ha Mok, Eun-Jung Jo (Korea)
<b>AP043</b>	<b>Is uniportal video-assisted thoracoscopic surgery acceptable as a standard surgical technique for the primary spontaneous pneumothorax?</b>
	Yuki Onozato*, Hiroki Eban, Aki Kobayashi, Mizuto Otsuji (Japan)
<b>AP044</b>	<b>Case study double stenting of oesophagus and airway in palliative treatment of patient with oesophageal cancer</b>
	Giap Vu Van, Chau Ngo Quy, Hanh Chu Thi, Du Nguyen Ngoc*, Viet Nguyen Vu Hoang (Vietnam)
<b>AP045</b>	<b>Flexible bronchoscope interventional therapy under mechanical ventilation for severe airway stenosis: Case reports</b>
	Min Hu*, Fei Xu, Yang Lin (China)
<b>AP046</b>	<b>Recurrent pneumothorax in Sjogren syndrome</b>
	Ayuningtyas Setyoreni*, Wahyu Aniwidyaningsih, Santi Rahayu Dewayanti, Susan Hendriarini Mety (Indonesia)
<b>AP047</b>	<b>Sugar frosting-like lesion is a hint of mesothelial hyperplasia under pleuroscopy- a case report</b>
	Chung-Shu Lee*, Shih-Hong Li, Fu-Tsai Chung, Chih-Wei Wang, Chih-Hao Chang (Taiwan)
<b>AP048</b>	<b>Bronchial occlusion with endobronchial watanabe spigot for hemoptysis in a mechanically ventilated patient with extracorporeal circulation</b>
	Tadashi Sakaguchi*, Hirotaka Kida, Yuki Kanno, Baku Oyama, Takeo Inoue, Teruomi Miyazawa, Masamichi Mineshita (Japan)
<b>AP049</b>	<b>Feasibility and safety of flexible bronchoscopy-guided microwave ablation in porcine lung: A new image-guided micro-invasive ablation method for lung lesions</b>
	Haibin Yuan, Jiayuan Sun* (China)
<b>AP050</b>	<b>Improved hospitalisation stay with indwelling pleural catheter</b>
	Aisya Natasya Musa*, Nurul Yaqeen Esa, Muhammad Amin Ibrahim, Mohammed Fauzi Abdul Rani, Ahmad Izuanuddin Ismail, Mohd Arif Mohd Zim (Malaysia)
<b>AP051</b>	<b>Management of early airway restenosis after the placement of metal covered stent: A case report</b>
	Cen Chen, Huaping Yang, Liming Cao, Chengping Hu, Yuanyuan Li* (China)

## Cell and molecular biology

Chair: Ching-Hsien Chen (United States)

<b>AP052</b>	<b>The association of vanadium pentoxide and inflammatory response in patients with COPD and in human bronchial epithelial cell</b>
	Sheng-Hao Lin*, Ching-Hsiung Lin, Yi-Rong Li, Yu-Yun Ching, Hsiu Hui Chang (Taiwan)

<b>AP053</b>	<b>Genetic association of rs2227589 polymorphism with pulmonary embolism risk in Chinese population</b>
	Yongjian Yue, Lu Xiao, Qing Sun, Yazhen Li, Mei Huo, Ying Wen, Qijun Huang, Shulin Li, Yingyun Fu* (China)
<b>AP054</b>	<b>Mitochondrial membrane potential in children with Interstitial Lung Diseases (ILD)</b>
	Igor Yakovlev, Galina Evseeva, Olga Lebed'ko*, Maria Kuznecova, Natalia Kuderova, Sabina Pichugina, Vladimir Kozlov (Russia)
<b>AP055</b>	<b>Inhibition of neutrophil elastase contributes to attenuation of lipopolysaccharide induced acute lung injury during neutropenia recovery in mice</b>
	Ohbeom Kwon*, Hyonsoo Joo, Kyu Yean Kim, Jin Woo Kim (Korea)
<b>AP056</b>	<b>Dual bronchodilator suppresses cigarette smoke extract-induced autophagic cell death in human bronchial epithelial cells</b>
	Ching-Hsiung Lin*, Yi-Rong Li, Hsiu-Hui Chang, Yu-Yun Ching, Sheng-Hao Lin (Taiwan)
<b>AP057</b>	<b>Specific sphingosine kinase 1 inhibitor, SK1-I attenuates neutrophil elastase induced airway inflammation and goblet cell hyperplasia in mice</b>
	Tomohiro Akaba*, Kiyoshi Takeyama, Shigeru Ashino, Mitsuko Kondo, Etsuko Tagaya (Japan)
<b>AP058</b>	<b>Tiliroside can modulate upper airway secretion by the inhibition of calcium activated Cl<sup>-</sup> channel, ANO1</b>
	Yu-Ran Nam, Joo Hyun Nam* (Korea)
<b>AP059</b>	<b>Regulatory mechanisms of systemic inflammation in respiratory pathology</b>
	Marina Antonyuk*, Tatyana Novgorodtseva, Tatyana Gvozdenko, Tatyana Vitkina, Vera Knysheva (Russia)
<b>AP060</b>	<b>Polarization of alveolar macrophage in model of diet induced obese mice with ventilator induced lung injury</b>
	Shih-Wei Wu*, Kun-Lun Huang (Taiwan)
<b>AP061</b>	<b>Development of a method to predict the persistent pulmonary inflammation by nanoparticles at an early stage with gene expression level</b>
	Hiroto Izumi*, Yukiko Yoshiura, Taisuke Tomonaga, Yuri Fujisawa, Chinatsu Nishida, Yasuo Morimoto (Japan)
<b>APL001</b>	<b>Dichloroacetate, an inhibitor of aerobic glycolysis, ameliorates neutrophilic airway inflammation through suppressing Th17 population and inducing regulatory T cell population</b>
	Jaechan Leem*, Jung-Yeon Kim, Kiryeong Kim, Jae-Hyung Park (Korea)

## Clinical allergy and immunology

Chair: Kang-Yun Lee (Taiwan)

<b>AP062</b>	<b>Prevalence and clinical characteristics of airway diseases in patients with ulcerative colitis</b>
	Mitsuhiro Moda (Japan)
<b>AP063</b>	<b>Analysis of adverse reactions and risk factors to SCIT in children with allergic</b>
	Peiyan Zheng*, Changhong Shi, Baoqing Sun (China)
<b>AP064</b>	<b>Asia pacific survey of physicians on asthma and allergic rhinitis (ASPAIR): Data for three hypothetical case studies</b>
	Bhumika Aggarwal*, Sumitra Shantakumar (Singapore), David Hinds, Aruni Mulgirigama (United Kingdom)

<b>AP065</b>	<b>Uncontrolled bronchial asthma: A rare case of churg-strauss syndrome</b> Archie Apostol (Philippines)
<b>AP066</b>	<b>Analysis of distribution characteristics of tIgE and sIgE in patients with respiratory allergic diseases</b> Huimin Huang*, Baoqing Sun, Ying Chen, Xueqing Liang, Nili Wei, Shan Li (China)
<b>AP067</b>	<b>Mapping mimotopes for house dust mite allergen Der f 7 using a specific monoclonal antibody</b> Jianglong Peng, Hao Yin, Ying Zhou, Yubao Cui* (China)

## Clinical respiratory medicine

Chair: David C. L. Lam (Hong Kong)

<b>AP068</b>	<b>Thymoma (World Health Organization type B3) with neuroendocrine differentiation: A rare type of thymoma</b> Gracielle May Mendoza-YU*, Annie May Dela Cruz, Alfred Apostol (Philippines)
<b>AP069</b>	<b>Pneumoconiosis following chronic charcoal dust exposure: Description of a rare association and a case presentation</b> Thidar Htwe*, Chuan Rui Audrey Wee, Ai Ching Kor, Lyn Ding Cristine Szu, Chong Koh Nicholas Wee, Geak Poh Tan (Singapore)
<b>AP070</b>	<b>Quantifying myeloid-derived suppressor cells in pleural effusion can distinguish tuberculosis from pneumonia</b> Eun Sun Kim, Jahirul Islam, Yeon Joo Lee, Jong Sun Park, Young-Jae Cho, Ho Il Yoon, Choon-Taek Lee, Je-In Youn, Jae Ho Lee* (Korea)
<b>AP071</b>	<b>Safety of pre-operative pulmonary function testing in left main coronary artery disease</b> Thomas Aintree*, Lauren Bussell, Phan Nguyen, Sonya Johnston (Australia)
<b>AP072</b>	<b>Application of nocturnal oxygen therapy/ Bilevel Positive Airway Pressure (BiPAP) to treat patients with chronic lung disease and nocturnal oxygen desaturation who required hospitalization</b> Yi-Ying Liu*, Yu-Mu Chen, Jui-Fang Liu, Hong-Cheng Chen, Ying-Tan Fang, Yu-Ping Chang, Shih-Feng Liu, Wen-Feng Fang, Meng-Chih Lin (Taiwan)
<b>AP073</b>	<b>A case of empyema caused by esophagopleural fistula successfully treated with self-expandable metallic stent</b> Yosuke Fukuda*, Naruhito Oda, Hironori Sagara (Japan)
<b>AP074</b>	<b>Infected bullous lung disease</b> Suzila Che Sayuti (Malaysia)
<b>AP075</b>	<b>Skin deep: A case of dermatomyositis initially presenting with pleural effusion</b> Yves Jean Liong*, Ivy Catherine Rivera-Go (Philippines)
<b>AP076</b>	<b>Long uvula: An unusual cause of chronic cough in an adult</b> Sumedha Samankantha Heenagamage*, Sivapalan Niroshan, Vasuki Sujeewa, Sounthararajan Visagan, Balakrishnan Thirumaran (Sri Lanka)
<b>AP077</b>	<b>Pleura-contact sign for predicting indeterminate lung nodules in patients without cancer history</b> Yu-Ping Chang*, Yu-Mu Chen, Chien-Hao Lai, Chiung-Yu Lin, Meng-Chih Lin (Taiwan)
<b>AP078</b>	<b>A rare case of adolescent idiopathic scoliosis with right lung agenesis in a 16 year old female</b>



Jacob Viniegas (Philippines)

**AP079 A case of pulmonary langerhans cell histiocytosis developed after completed anti-tuberculosis treatment**

Yu-Chen Tsai\*, Chih-Hung Lin, Ming-Ju Tsai, Jen-Yu Hung (Taiwan)

**AP080 Comparison of two noninvasive devices for measuring respiratory rates without a facemask during walking**

Akio Yamamoto\*, Hiroyuki Nakamoto, Yusuke Bessho, Yukari Fujimoto, Yutaro Oki, Yusuke Iwata, Akira Ishikawa (Japan)

**AP081 Nutritional status assessment of pulmonary outpatients of University of Santo Tomas Hospital**

Shariff Amiloari Manibpel\*, Roland Panaligan (Philippines)

**AP082 Efficacy and safety of glucocorticoids in the treatment of severe community-acquired pneumonia: A meta-analysis**

Ke Wang, Shan Jiang\* (China)

**AP083 Pulmonary angiosarcoma mimicking pulmonary embolism - a case report**

Gladys Judynil Daba\*, Ma Paz Mateo, Teresita De Guia (Philippines)

**AP084 Use of ACE inhibitor and risk of post-stroke pneumonia: Evidence-based study**

Levina Putri Siswidiani\*, Sumariyono Sarmidi (Indonesia)

## COPD

Chair: Shih-Lung Cheng (Taiwan)

**AP085 Life space activity in the patients with chronic obstructive pulmonary disease**

Yoko Hamakawa\*, Susumu Sato, Aya Watanabe, Tatsushi Mizutani, Kiyoshi Uemasu, Naoya Tanabe, Atsuyasu Sato, Toyohiro Hirai (Japan)

**AP086 A home-based approach to better breathing in Canterbury - a pilot study**

David Chen (New Zealand)

**AP087 Potential therapeutic strategy in chronic obstructive pulmonary disease using pioglitazone augmented-Wharton's Jelly-derived mesenchymal stem cells**

Yeon-Mok Oh (Korea)

**AP088 Association between self-management behaviors of patients with chronic obstructive pulmonary disease and the types of healthcare services: Cross-sectional questionnaire study**

Satomi Kitamura\*, Ayumi Igarashi, Yasuhiro Yamauchi, Hideaki Senju, Hideki Yanai, Takeo Horie, Noriko Yamamoto-Mitani (Japan)

**AP089 Diaphragmatic contraction during high-intensity inspiratory muscle training in COPD patients**

Kazuki Okura\*, Atsuyoshi Kawagoshi, Kazuyuki Shibata, Masahiro Iwakura, Yutaka Furukawa, Keiyu Sugawara, Hitomi Takahashi, Takanobu Shioya (Japan)

**AP090 Chronic kidney disease leads to adverse cardiovascular events in chronic obstructive pulmonary disease patients using inhaled long-acting bronchodilators**

Yi-Ching Cheng, Yen-Fu Chen, Chung-Yu Chen\* (Taiwan)

**AP091 A study of the detection of oral bacteria in COPD patients**

Tomoko Oshiro\*, Michie Baba, Masaki Fujita, Yoko Ishibashi, Keiko Kamitani, Ayako Ura, Takashi Hanioka (Japan)



<b>AP092</b>	<b>The trend of chronic obstructive pulmonary disease on intensive care unit admission from 2003 to 2013 in Taiwan</b>
	Kuang-Ming Liao*, Chung-Han Ho (Taiwan)
<b>AP093</b>	<b>Chronic obstructive pulmonary disease with thoracic cage reduction upon movement leading to low back pain and lumber hyperextension</b>
	Kazuyuki Shibata*, Kazuki Okura, Yutaka Furukawa, Masahiro Iwakura, Atsuyoshi Kawagoshi, Keiyu Sugawara, Hitomi Takahashi, Takanobu Shioya (Japan)
<b>AP094</b>	<b>Identification of key modules and hub genes of COPD phenotypes with weighted gene coexpression network analysis</b>
	Jiangyue Qin*, Yongchun Shen, Fuqiang Wen (China)
<b>AP095</b>	<b>Bacterial colonization did not affect the decline of pulmonary function among bronchiectasis patients</b>
	Masaki Fujita*, Tomoya Sasaki, Rintaro On, Takemasa Matsumoto, Hisako Kushima, Hiroshi Ishii (Japan)
<b>AP096</b>	<b>Low socioeconomic status and incidence of airway obstruction in Korea: A community-based cohort study</b>
	Chi Young Kim*, Beong Ki Kim, Young Kim, Seung Heon Lee, Je Hyeong Kim (Korea)
<b>AP097</b>	<b>Patients with pulmonary infections and chronic obstructive pulmonary disease: A retrospective clinical study of 170 cases</b>
	Kyoko Yagyu*, Atsushi Miyamoto, Takahiro Ueda, Riki Uenishi, Haruhiko Matsushita (Japan)
<b>AP098</b>	<b>Acupuncture therapy for acute exacerbation in chronic obstructive pulmonary disease: A literature analysis of clinical study</b>
	Yang Xie*, Xuanlin Li, Jiajia Wang, Gaoyang Li (China)
<b>AP099</b>	<b>Production of reactive persulfide species in lungs of patients with COPD and their effects on lung-resident cells</b>
	Tadahisa Numakura*, Hisatoshi Sugiura, Takaaki Akaike, Mitsuhiro Yamada, Tomohiro Ichikawa, Naoya Fujino, Akira Koarai, Masakazu Ichinose (Japan)
<b>AP100</b>	<b>Serial changes in exercise capacity, quality of life and cardiopulmonary responses after pulmonary rehabilitation in patients with chronic obstructive pulmonary disease</b>
	Chou-Chin Lan*, Mei-Chen Yang, Kuo-Liang Huang, Wen-Lin Su, Chih-Wei Wu, Yi-Chih Huang, Xin-Yi Chen, Chun-Yao Huang, Yao-Kuang Wu (Taiwan)
<b>AP101</b>	<b>Pdpi version of COPD screening questionnaire validity as a screening tools</b>
	Yusup Sutanto*, Pramesti Fitria Kristianti, Dewi Nurul Makhbah, Harsini Kusumo, Reviono Reviono, Suradi Suradi (Indonesia)
<b>AP102</b>	<b>Efficacy and safety of high-dose budesonide/formoterol (320/9µg) in patients with bronchiolitis obliterans syndrome after allogeneic HSCT</b>
	Kyung Hoon Kim (Korea)
<b>AP103</b>	<b>Effect of dai-kenchu-to on COPD exacerbations in elderly patients: A retrospective study using a nationwide database in Japan</b>
	Taisuke Jo*, Yasuhiro Yamauchi, Hirokazu Urushiyama, Yoshihisa Hiraishi, Akihisa Mitani, Go Tanaka, Hideo Yasunaga, Takahide Nagase (Japan)

<b>AP104</b>	<b>Correlation between respiratory capacity, body mass index, six-minutes walking test, resting heart rate and severity of chronic obstructive pulmonary disease</b>
	Muhammad Amin*, Robert Christian Naiborhu (Indonesia)
<b>AP105</b>	<b>SAM protects against autoimmune emphysema of rats</b>
	Cheng Zhang*, Ye Zhang, Xia Li, Xiang-Yan Zhang (China)
<b>AP106</b>	<b>Risk factors for the acute exacerbation of chronic obstructive pulmonary disease</b>
	Keitaro Nakamoto*, Yuka Sasaki, Masafumi Shimoda, Kozo Morimoto, Ryoza Yano, Maki Miyamoto, Hiroyuki Kokuto, Yoshiaki Tanaka, Hideo Ogata, Hajime Goto (Japan)
<b>AP107</b>	<b>Prognostic utility of the DECAF score to predict in-hospital mortality among patients with acute exacerbation of chronic obstructive pulmonary disease admitted at Chinese General Hospital</b>
	Ruby Rose Bisquera*, Bernice Ong-Dela Cruz (Philippines)
<b>AP108</b>	<b>Quality of life of patients with chronic obstructive pulmonary disease based on clinical phenotypes</b>
	Chee-Shee Chai*, Chong-Kin Liam, Yong-Kek Pang, Diana-Leh-Ching Ng, Mau-Ern Poh, Chee-Kuan Wong, Jiunn-Liang Tan (Malaysia)
<b>AP109</b>	<b>Bufei Yishen granules suppress alveolar epithelial apoptosis in chronic obstructive pulmonary disease rats: Via PERK/ eIF2<math>\alpha</math> signaling</b>
	Yange Tian*, Jiansheng Li, Jindi Ma, Lanxi Zhang, Mingming Wu, Haoran Dong, Wanchun Zheng, Lihua Zhu, Shuai Liu (China)
<b>AP110</b>	<b>A new parallel two-step algorithm for the treatment of COPD</b>
	Keiji Oishi*, Kazuto Matsunaga (Japan)
<b>AP111</b>	<b>Effectiveness of pharmaceutical care on the patients with chronic obstructive pulmonary disease attending a community hospital in Thailand</b>
	Piyawan Kuwalairat*, Soodrutai Ratanaopas (Thailand)
<b>AP112</b>	<b>Effectiveness of a pulmonary rehabilitation program in a rehabilitation hospital day centre for chronic obstructive pulmonary disease patients from primary care clinics</b>
	Betty Young*, P N Tsui (Hong Kong)
<b>AP113</b>	<b>NO<sub>2</sub> inhalation causes impaired pulmonary function and hematological derangement in rats and intervention study</b>
	Zili Zhang (China)
<b>AP114</b>	<b>Environmental factors and COPD in the development of lung cancer</b>
	Joo Hun Park*, Jin Hee Jung, Song Vogue Ahn (Korea)
<b>AP115</b>	<b>The SNP rs61758360 loci reducing the risk of chronic obstructive pulmonary disease</b>
	Yan Wang*, Mingmei Xiong, Lingzhu Chen, Nanshan Zhong, Wenju Lu (China)
<b>AP116</b>	<b>Glycopyrrolate in high-risk COPD, a drug utilization surveillance study in India (GOAAL): Post-hoc analyses</b>
	Krishnaprasad K, Mahashur Ashok*, Sagar C, Himanshu Pophale, Gyanendra Agarwal, Aaratrika Das, Prashant Katke (India)
<b>AP117</b>	<b>Study on the effects of pulmonary rehabilitation exercise in patients with chronic obstructive pulmonary disease in stable period</b>
	Bingdi Yan*, Rong Gao, Danhua Qu, Peng Chen, Tiangang Ma (China)

<b>AP118</b>	<b>Composite index for recent mortality in COPD patients</b>
	Tzuen-Ren Hsiue*, Chiung-Zuei Chen, Chih-Ying Ou, Chun-Hsiang Yu, Szu-Chun Yang, Han-Yu Chang (Taiwan)
<b>AP119</b>	<b>Association of vitamin D3 with lung function and exercise tolerance in stable COPD patients- a cross-sectional study</b>
	Kazi Saifuddin Bennoor, Samia Hassan*, Taskina Ali, Md Ali Hossain, Md Rashidul Hassan, Mustafijur Rahman, M A Shakur Khan (Bangladesh)
<b>AP120</b>	<b>Efficacy and safety of once-daily inhaled umeclidinium in Asian patients with COPD: Results from a randomized, placebo-controlled study</b>
	Jinping Zheng*, Chunchen Huang, Xian Luo, Xin Du (China)
<b>AP121</b>	<b>Investigation of fractional exhaled nitric oxide levels in the differentiation of asthma, COPD and asthma-COPD overlap</b>
	Takahiro Akimoto*, Seiko Takazawa, Muneyuki Sekiya, Haruhiko Oota, Kunihiko Yoshimura, Satoshi Kasagi (Japan)
<b>AP122</b>	<b>Anti-interleukin 5 agents in the treatment of eosinophilic chronic obstructive pulmonary disease - a systematic review and meta-analysis</b>
	Irene Rosellen Tan*, Ralph Elvi Villalobos, Anjuli May Jaen, Aileen David-Wang (Philippines)
<b>AP123</b>	<b>Pulmonary emphysema and lipid dysfunction in mice lacking fatty acid synthase in alveolar epithelial cells</b>
	Li-Chao Fan*, Jin-Fu Xu (China)
<b>AP124</b>	<b>A study on the perception and real world data about long term oxygen therapy in patients with chronic lung diseases in Korea</b>
	Hyun-Kyung Lee*, Ji Young Yang, Sung Hyung Kim, Hong Yeul Lee (Korea)
<b>AP125</b>	<b>Metformin use reverses the adverse prognostic effect of diabetes mellitus in chronic obstructive pulmonary disease</b>
	Chun-Ta Huang*, Sheng-Yuan Ruan, Te-Wei Ho, Feipei Lais, Chong-Jen Yu (Taiwan)
<b>AP126</b>	<b>Preliminary application of intelligent wristbands in COPD patients</b>
	Yuandi Wang*, Wenhua Jian, Dongying Zhang, Jinping Zheng (China)
<b>AP127</b>	<b>Efficacy and safety of switch from tiotropium to indacaterol/glycopyrronium in symptomatic mild-to-moderate COPD patients from Korea: A randomized, open-label, 12-week trial</b>
	Chin Kook Rhee*, Sang Haak Lee, Kwangha Yoo, Jeong Woong Park, Suk Joong Yong, Jusang Kim, Taehoon Lee, Ji-Hyun Lee, Seungjae Baek, Ki-Suck Jung (Korea)
<b>AP128</b>	<b>Novel benzoxazin derivative as neutrophil elastase inhibitor for treatment of chronic obstructive pulmonary disease</b>
	Sayantana Sengupta*, J Rajnith, N Rajesh, P Radha Krishna, Pulok Mukherjee, Arun Bandyopadhyay (India)
<b>AP129</b>	<b>Appraisal value of peripheral blood eosinophils in the prognosis of chronic obstructive pulmonary disease</b>
	Lianqin Tao*, Kaili Dai, Bijun Wang, Junfei Zhu (China)
<b>AP664</b>	<b>Association of serum uric acid levels and outcomes of patients with chronic obstructive pulmonary disease: A prospective cohort study</b>
	John Ray Galamay*, Teresita De Guia, Maria Encarnita Limpin (Philippines)

**APL003 Analyzing patients' characteristics associated with sleep disturbance in COPD patients**

Robert S. Tsai\*, Yi-Jen Chen (Taiwan)

**APL004 A prediction model for hospitalized COPD exacerbations based on "treatable traits"**

Anthony Yii, Sean Loh, Aza Taha, Jansen Koh (Singapore), Antonio Anzueto (United States), Augustine Tee\* (Singapore)

**APL005 2 minute walk test as a screening tool for COPD**

Anitha Thilakan\*, Sophia Philip (India)

**Critical care medicine**

Chair: Alvin Ng (Singapore)

**AP130 Rare presentation of acute B-lymphoblastic leukemia mimics Guillain-Barre syndrome: A case report**

Wei-Cheng Chen\*, Chih-Yu Chen, Shinn-Jye Liang, Chi-Ching Chen, Cheng-Tsung Tien, Wei-Chun Huang (Taiwan)

**AP131 Prevention and treatment of early complications after DCD lung transplantation: A case series**

Wenping Zhang, Minghong Xie, Yong Qi\* (China)

**AP132 Derivation of WEANSNOW score to assess the probability of successful extubation and ventilator liberation: An analysis at the intensive care unit of a medical center**

Feng-Ching Lin\*, Yao-Wen Kuo, Jih-Shuin Jerng, Huey-Dong Wu (Taiwan)

**AP133 Risk of recurrent respiratory failure subsequent to successful weaning from invasive mechanical ventilation initiated for non-surgical reasons: A nationwide cohort study**

Sheng-Yuan Ruan\*, Chun-Ta Huang, Huey-Dong Wu, Chong-Jen Yu, Likwang Chen (Taiwan)

**AP134 Long-term outcome of very elderly (≥80 years) critical-ill patients in medical intensive care unit in a tertiary hospital of Korea**

Ho Cheol Kim\*, Sun Mi Ju, Jung-Wan Yoo (Korea)

**AP135 Long-term outcome of survivors with sepsis after intensive care**

Henry Hon Lai Wong\*, Chien-Min Chu, Chung-Chieh Yu, Yu-Chih Liu, Teng-Jen Yu, Chung-Ching Hua, Huang-Pin Wu (Taiwan)

**AP136 Delayed admission to ICU over 6 hours was associated with higher hospital mortality in patients with sepsis**

Wen-Feng Fang\*, Kai-Yin Hung, Chi-Han Huang, Yu-Mu Chen, Chiung-Yu Lin, Ya-Ting Chang, Kuo-Tung Huang, Yi-His Wang, Chin-Chou Wang, Meng-Chih Lin (Taiwan)

**AP137 Risk factors for mortality on patients with Acute Respiratory Distress Syndrome (ARDS) in Vietnam**

Luong Quoc Chinh\* (Vietnam), Toshie Manabe (Japan), Do Ngoc Son, Nguyen Van Chi (Vietnam), Yuji Fujikura (Japan), Nguyen Gia Binh, Dang Quoc Tuan (Vietnam), Hiroyuki Nagase, Koichiro Kudo (Japan), Nguyen Dat Anh (Vietnam)

**AP472 Clinical outcomes in patients with Acute Respiratory Distress Syndrome (ARDS) in Vietnam according to severity of the Berlin definition**

Toshie Manabe\* (Japan), Luong Quoc Chinh, Do Ngoc Son, Nguyen Van Chi (Vietnam), Yuji Fujikura (Japan), Nguyen Gia Binh, Dang Quoc Tuan (Vietnam), Hiroyuki Nagase (Japan), Nguyen Dat Anh (Vietnam), Koichiro Kudo (Japan)

<b>AP138</b>	<b>Acalculous cholecystitis: A fatal complication in post-lung transplantation patient- a case report</b> Hsin-Yueh Fang*, Ko-Wei Chang, Wei-Hsun Chen, Han-Chung Hu, Kuo-Chin Kao, Yun-Hen Liu (Taiwan)
<b>AP139</b>	<b>Prediction of prone position ventilation response for acute respiratory distress syndrome with high-resolution computed tomography</b> You-Yi Chen*, Ying-Chun Chien, Sheng-Yuan Ruan, Jung-Yien Chien, Pei-Lin Lee, Shih-Chi Ku, Ping-Hung Kuo, Hao-Chien Wang (Taiwan)
<b>AP140</b>	<b>Cross sectional prevalence study on pediatric patients diagnosed with severe dengue at a tertiary hospital in cebu city given non invasive ventilation versus mechanical intubation</b> Wivina Bancoro (Philippines)
<b>AP141</b>	<b>Migrating orthopedic pin presenting as hemoptysis in a 10 year old male: A case report</b> Wivina Bancoro (Philippines)
<b>AP142</b>	<b>Factors associated with poor outcome in sepsis patients with liver cirrhosis</b> Ya-Chun Chang*, Ying-Tang Fang, Hung-Cheng Chen, Chiung-Yu Lin, Yu-Ping Chang, Chi-Han Huang, Kuo-Tung Huang, Huang-Chih Chang, Meng-Chih Lin, Wen-Feng Fang (Taiwan)
<b>AP143</b>	<b>Weaning practices among patients with pneumonia on ventilatory support at Chinese General Hospital and Medical Center</b> Charles Erwin Cabus*, John Noel Chan (Philippines)
<b>AP144</b>	<b>Neutrophil-to-lymphocyte ratio and blood platelet count can be prognostic markers in acute respiratory distress syndrome patients of different immune states</b> Donghui Zhang*, Ying Wang (China)
<b>AP145</b>	<b>Hypercapnia during weaning from prolonged venovenous extracorporeal membrane oxygenation in acute respiratory distress syndrome</b> Hsiu-Nien Shen*, Hui-Lin Huang (Taiwan)
<b>AP146</b>	<b>Impact of patient- and family-centred care meetings on intensive care resource utilisation in terminally ill patients: A single-centre retrospective observational study in Taiwan</b> Nin-Chieh Hsu*, Chong-Jen Yu (Taiwan)
<b>AP147</b>	<b>Factors associated with high flow oxygen therapy failure in acute hypoxemic respiratory failure patients with idiopathic pulmonary fibrosis</b> Min Seo Ki*, Joo Han Song (Korea)
<b>AP148</b>	<b>First case of acute respiratory distress syndrome and alimentary tract hemorrhage following mass inhalation of methylisothiazolinone</b> Dan Han, Hanhan Liu*, Guoliang Li, Yang Zhao, Xuanzi Sun, Jingjing Sun, Yu Liu (China)
<b>AP149</b>	<b>Physical function after pulmonary rehabilitation as a predictor of weaning success and short-term and mid-term survival in patients requiring prolonged mechanical ventilation</b> Li-Ta Keng*, Sheng-Kai Liang, Meng-Rui Lee, Yueh-Feng Wen, Ping-Hsien Tsou, Chia-Hao Chang, Lih-Yu Chang, Kai-Lun Yu, Jen-Chung Ko (Taiwan)
<b>AP150</b>	<b>An optimizing medical management for acute hypercapnic respiratory failure due to acute exacerbation COPD</b> Nancy Sovira (Indonesia)

<b>AP151</b>	<b>Clinical parameters and serum biomarker for influencing ICU mortality in severe sepsis patients</b> Chia-Cheng Tseng*, Wen-Feng Fang, Meng-Chih Lin (Taiwan)
<b>AP152</b>	<b>Single-centre retrospective study of admissions to the Medical Intensive Care Unit (MICU) and the utility of lactate procalcitonin product in predicting mortality</b> Ying Na Ho, Jason Martin D'Souza*, Aruni Seneviratna, Sennen Jin Wen Lew, Abisheganaden John Arputhan, Ser Hon Pua (Singapore)
<b>AP153</b>	<b>Extracorporeal membrane oxygenation application in pregnant patient with urosepsis associated acute respiratory distress syndrome—a case report</b> Jia-Shiuan Ju*, Yu-Chen Huang, Chung-Chi Huang (Taiwan)
<b>AP154</b>	<b>The effectiveness of bronchoscopy in respiratory failure patients</b> Tatsuya Yuba*, Naoko Okura, Aosa Sasada, Shiho Goda, Hiroyuki Fujii, Ryosuke Hamashima, Taisuke Tsuji, Shinsuke Shiotsu, Chieko Takumi, Noriya Hiraoka (Japan)
<b>AP155</b>	<b>Severe influenza in the intensive care units in 2018---experience of a regional hospital</b> Wei-Sheng Chung (Taiwan)
<b>AP156</b>	<b>Incidence and clinical outcomes of delirium in critically ill medical patients in a Tertiary University Teaching Hospital</b> Naplika Kongpolprom*, Thunyawee Sermkaew (Thailand)
<b>AP157</b>	<b>Different PaO<sub>2</sub>/FIO<sub>2</sub> measuring time categorizes different severity of lung injury in patients with acute respiratory distress syndrome—a prospective study</b> Wei-Lun Liu*, Wan-Ling Chen, Shu-Chen Kung, Ching-Min Wang (Taiwan)
<b>AP158</b>	<b>Comparison of reintubation rate and mortality by high flow nasal cannula and conventional oxygen therapy in post-extubation patient : A systematic review and meta-analysis</b> Hui-Ju Hsu, Chan-Ching Chu, Nian-Jhen Lin, Ai-Jia Tien, Shin-Lung Chang , Cheng Yu Chang* (Taiwan)
<b>AP659</b>	<b>Influenza A pandemic (H1N1) 2009 virus infection with death limb extremities inferior and Acute Respiratory Distress Syndrome (ARDS) : A case report</b> Ariani Permatasari*, Winariani Koesoemoprodjo, Resti Yudhawati, Arief Bakhtiar (Indonesia)
<b>AP667</b>	<b>Assessment of quality of sleep in patients recovering from critical care illness and factors affecting it</b> Brijesh Prajapat*, A S sandhya (India)
<b>APL006</b>	<b>Outcomes of unplanned extubation in ordinary ward are similar to those in intensive care unit: A retrospective case-control study</b> Pi-Hua Lin, Chiu-Fan Chen*, Hsin-Wei Chiu, David Lin Lee, Ruay-Sheng Lai (Taiwan)

## Environmental & occupational health and epidemiology

Chair: Kazuhiro Yatera (Japan)

<b>AP159</b>	<b>Particulate matter increases eosinophilic airway inflammation</b> Juwhan Choi, Jee Youn Oh, Young Seok Lee, Kyung Hoon Min, Gyu Young Hur, Sung Yong Lee, Jae Jeong Shim, Kyung Ho Kang* (Korea)
<b>AP160</b>	<b>The effects of ambient fine particulates on 1-year changes of lung function among the elders in Taiwan</b> Chi-Hsien Chen*, Yue Leon Guo, Hung-Che Chiang, Chih-Da Wu, Kang-Yun Lee, Dachen Chu, Wen-Yi Lin, Jih-I Yeh, Kun-Wei Tsai (Taiwan)



<b>AP161</b>	<b>Autophagy involved oxidative stress induced by atmospheric fine particles (PM2.5) in mouse alveolar macrophages (MH-S)</b>
	Chao Sun*, Guangfa Wang (China)
<b>AP162</b>	<b>Development of community pharmacy to the center of smoking cessation, initiative in Thailand</b>
	Sunee Lertsinudom*, Pentipa Kaewketthong, Sirirat Tunpichart (Thailand)
<b>AP163</b>	<b>Role of Nrf2 in lung injury induced by diesel exhaust</b>
	Ying-Ji Li*, Takako Shimizu, Maiko Kobayashi, Ken Takeda, Masayuki Yamamoto, Arata Azuma, Tomoyuki Kawada (Japan)
<b>AP164</b>	<b>Prevalence, respiratory symptoms and risk of COPD among pneumoconiosis patients in China: A cross-sectional study</b>
	Xin Li (China)
<b>AP165</b>	<b>Prevalence of respiratory disorders in pilgrims travelling to India from central Sri Lanka</b>
	Asela Bandara*, Wijayani Wickramasinghe, Sajani Dharmadasa, Sachini Seneviratne, Samadara Nakandala, Dushantha Madegedara (Sri Lanka)
<b>AP166</b>	<b>Screening for respiratory diseases among biscuit factory employees in central Sri Lanka</b>
	Asela Bandara*, Sachini Seneviratne, Samadara Nakandala, Kavinda Amarasinghe, Sakalasooriya Bandara, Niroshan Abeygunawardane, Ruvini Silva, Erandika Kulathunga, Nidhika Rajapakshe, Dushantha Madegedara (Sri Lanka)
<b>AP167</b>	<b>Sociologic assessment of the degree of application of lung function examination in pulmonological practice</b>
	Victor P. Kolosov*, Leonid G. Manakov, Elena V. Polyanskaya, Svetlana V. Naryshkina, Juliy M. Perelman (Russia)
<b>AP168</b>	<b>Resources of pulmonology on the territory of the far east of Russia: Social-economic stratification and regional gradients</b>
	Leonid G. Manakov, Victor P. Kolosov*, Elena V. Polyanskaya (Russia)
<b>AP169</b>	<b>Age and gender distributions among chronic cough patients in China: Cough is not a simple reflection of cough reflex sensitivity</b>
	Li Long*, Fang Yi, Jiaman Tang, Jianmeng Zhou, Hu Li, Wenzhi Zhan, Kefang Lai (China)
<b>AP170</b>	<b>A case study of silicosis associated progressive massive fibrosis and scleroderma</b>
	Shervin Amirmalek*, Charlene Tan, Hsu Kelvin, Anthony Frankel (Australia)

## Interstitial lung disease

Chair: Chi-Wei Tao (Taiwan)

<b>AP171</b>	<b>Beyond depression and anxiety: A comprehensive assessment of the psychological health of people diagnosed with IPF and their caregivers</b>
	Debra Sandford*, Hubertus Jersmann, Paul Reynolds, Bernhard Baune (Australia)
<b>AP172</b>	<b>Difference of the clinical characteristics and outcome between connective tissue diseases associated interstitial lung disease and idiopathic pulmonary fibrosis</b>
	Dingyun Feng*, Mi Zhou, Yixiong Yuan, Jiasheng He, Heliang Li, Yuqi Zhou, Tiantuo Zhang (China)
<b>AP173</b>	<b>Clinical features of patients with clinically amyopathic dermatomyositis who have circulating anti-MDA5 autoantibodies with interstitial pneumonia</b>



	Koichi Yamaguchi*, Aya Yamaguchi, Masao Takemura, Kenichiro Hara, Toshitaka Maeno, Takeshi Hisada (Japan)
<b>AP174</b>	<b>Five cases of anti-MDA-5(anti-CADM140) positive Clinically Amyopathic Dermatomyositis (CADM) with interstitial pneumonia</b>
	Taisuke Kazuyori*, Yuuta Hirano, Ryoko Sasaki, Kazuya Tone, Wakako Shinohara, Akira Kojima, Kazuyoshi Kuwano (Japan)
<b>AP175</b>	<b>Clinical features and prognostic factors for systemic sclerosis related interstitial lung disease</b>
	Yoomi Yeo*, Eun Jin Chae, Jinwoo Song (Korea)
<b>AP176</b>	<b>Digestive adverse events following nintedanib administration in idiopathic pulmonary fibrosis</b>
	Motoyasu Kato*, Takahiro Nakamura, Kana Kurokawa, Tomoko Yamada, Hiroaki Ihara, Fumiyouki Takahashi, Shinichi Sasaki, Kazuhisa Takahashi (Japan)
<b>AP177</b>	<b>Serum soluble IL-2 receptor is a possible prognostic biomarker in idiopathic interstitial pneumonia</b>
	Yoshinori Tanino*, Yuki Sato, Takefumi Nikaido, Ryuichi Togawa, Yasuhito Suzuki, Manabu Uematsu, Atsuro Fukuhara, Suguru Sato, Junpei Saito, Yoko Shibata (Japan)
<b>AP178</b>	<b>Pulmonary Langerhans cell histiocytosis associated with severe pulmonary arterial hypertension: Report of a case</b>
	Yueh-Feng Wen*, Chien-Chin Lin, Cho-Kai Wu, Ping-Hung Kuo (Taiwan)
<b>AP179</b>	<b>Morphological analysis of alveolar macrophage in patients with pulmonary alveolar proteinosis: Let's reflect the cell on a bronchoalveolar fluid specimen-part 1</b>
	Haruyuki Ishii*, Ryushi Tazawa, Takeshi Saraya, Manabu Ishida, Keitaro Nakamoto, Yoshikazu Inoue, Koh Nakata, Hajime Takizawa (Japan)
<b>AP180</b>	<b>The prevalence of "clinical PPFE" in daily medical practice: Two years' experience at a medical center in Japan</b>
	Fumiaki Kudo*, Hiromitsu Ohta, Jun Shiihara, Motoko Nomura, Chihiro Miwa, Yoshiko Mizushima, Fumiyoshi Ohyanagi, Shinichiro Koyama (Japan)
<b>AP181</b>	<b>Good lung function but progressive Raynaud's phenomenon in a patient of systemic sclerosis-related interstitial lung disease after bilateral lung transplantation</b>
	Chi-Hsien Huang*, Ko-Wei Chang, Kuo-Chin Kao (Taiwan)
<b>AP182</b>	<b>Exploring the relationship between the pathophysiology of Pulmonary Hypertension (PH) and the status of Interstitial Pneumonia (IP) in IP-associated PH</b>
	Yosuke Tanaka*, Mitsunori Hino, Yozo Sato, Seiji Kosaihira, Norihisa Motohashi, Akihiko Gemma (Japan)
<b>AP183</b>	<b>External therapy of traditional chinese medicine for idiopathic pulmonary fibrosis: A literature analysis</b>
	Hulei Zhao*, Yang Xie (China)
<b>AP184</b>	<b>Analysis of clinical factors deciding necessity to treat interstitial pneumonias positive for anti-aminoacyl-tRNA synthetase antibodies</b>
	Yoshimi Noda*, Yumiko Samejima, Tomohiro Kanai, Sung-Ho Kim, Takuji Nishida, Taisei Umakoshi, Kazunori Shimizu, Yozo Kashiwa, Hiroshi Morishita, Hiroto Matsuoka (Japan)
<b>AP185</b>	<b>Cryptococcus neoforms induced hypersensitivity pneumonitis- a case report</b>
	Ching-Min Tseng*, Mei-Yin Chen, Chi-Wei Tao (Taiwan)

<b>AP186</b>	<b>Bleomycin-induced IPF model is associated with cell cycle arrest in lung epithelial cell</b>
	YoungHeon Park*, Jooyeon Lee, Hanbyeol Lee, Se-Ran Yang (Korea)
<b>AP187</b>	<b>The role of follow-up evaluation in the diagnostic algorithm of idiopathic interstitial pneumonia: A retrospective study</b>
	Qian Han*, Hong-yu Wang, Rong-chang Chen, Qun Luo (China), Martin Kolb (Canada)
<b>AP188</b>	<b>Investigation of introduction of Nintedanib for idiopathic pulmonary fibrosis in our hospital</b>
	Sato Yoza*, Tanaka Yosuke, Kitagawa Shingo, Kosaihira Seiji, Motohashi Norihisa, Hino Mitsunori, Gemma Akihiko (Japan)
<b>AP189</b>	<b>Lung transplant referrals for idiopathic pulmonary fibrosis patients in Hong Kong</b>
	Chi Fong Wong*, See Wan Yan (Hong Kong)
<b>AP190</b>	<b>Respiratory Bronchiolitis-associated Interstitial Lung Disease (RB-ILD) presents with progressive dyspnea- a case report</b>
	Mei-Yin Chen*, Ching-Min Tseng, Chi-Wei Tao (Taiwan)
<b>AP192</b>	<b>Safety of nintedanib in idiopathic pulmonary fibrosis: A real-life study at our hospital</b>
	Mariko Okamoto*, Junko Saji, Yuki Kanno, Akihito Tsunoda, Yuka Komatsubara, Rintaro Onoe, Naoki Furuya, Takeo Inoue, Teruomi Miyazawa, Masamichi Mineshita (Japan)
<b>AP193</b>	<b>Review analysis for clinical characteristics of Interstitial Lung Disease accompanied with Lung Cancer (ILD-LC)</b>
	Tiangang Ma*, Qun Zhang, Qinghua Zhang (China)
<b>AP194</b>	<b>Sporadic lymphangiomyomatosis presenting as spontaneous pneumothorax: A case report</b>
	May Joy Canillas-Amancio*, Karen Anne Bispo, Annabelle Dela Roca, Omohaire Dilangalen, Jan Michael Ocampo, Teresita De Guia (Philippines)
<b>AP195</b>	<b>Hyaluronan in bronchoalveolar laverage fluid from patients with autoimmune pulmonary alveolar proteinosis</b>
	Ryuichi Togawa*, Yoshinori Tanino, Takefumi Nikaido, Yuki Sato, Yasuhito Suzuki, Manabu Uematsu, Atsuro Fukuhara, Suguru Sato, Junpei Saito, Yoko Shibata (Japan)
<b>AP196</b>	<b>Observation on therapeutic efficacy of Gn-CSF inhalation in patients with recurrent pulmonary alveolar proteinosis</b>
	Ying Li (China)
<b>AP197</b>	<b>Disease activity in autoimmune pulmonary alveolar proteinosis analyzed by a multiplex immunoassay system</b>
	Keiichi Akasaka*, Tomotaka Nishizawa, Tomohiro Oba, Kazumasa Ohashi, Rie Kawabe, Hideaki Yamakawa, Shintaro Sato, Masako Amano, Hidekazu Matsushima, Toshinori Takada (Japan)
<b>AP198</b>	<b>Case of tuberous sclerosis complex with pulmonary lymphangiomyomatosis and angiomyolipomas of the liver and kidney</b>
	Orhan Akkaya*, Serhat Erol, Fatma Ciftci, Aydin Ciledag, Akın Kaya (Turkey)
<b>AP660</b>	<b>Clinical courses and treatment effects in systemic scleroderma-related interstitial lung disease</b>
	Takeshi Kawanobe*, Kiyokazu Kuwabara, Yuri Isaka, Tadasu Okaya, Kensuke Tanaka, Mizuki Fukuoka, Mika Suzuki, Chiyoko Kono, Yoshihito Yamada (Japan)

## Lung cancer

Chair: Young Whan Kim (Korea)

<b>AP199</b>	<b>A case of resected lung metastasis from uterine leiomyosarcoma</b>
	Hiromitsu Domen*, Yasuhiro Hida, Midori Hashimoto, Yuma Aoki, Kazuho Inoko, Syotaro Furukawa, Kazuomi Ichinokawa, Hidehisa Yamada (Japan)
<b>AP200</b>	<b>Fucosyltransferase 4 promotes cancer metastasis via enhancing glycosylation of EGFR/TGFBR signaling network in non-small cell lung cancer</b>
	Hsuan-Hsuan Lu*, Yi-Hsiu Juan, Rueyhung Roc Weng, Shu-Yung Lin, Yen-Wei Chen, Hsin-Han Hou, Zheng-Ci Hung, Yi-Jhen Huang, Hsing-Chen Tsai, Chong-Jen Yu (Taiwan)
<b>AP201</b>	<b>Experience on Hyperprogression Disease (HPD) by immunotherapy for lung cancer</b>
	Osamu Honjo*, Akihisa Fujita, Toyohiro Saikai, Mie Sotoshiro, Hirotsugu Takabatake, Yasuto Honda, Hiroyuki Koba, Kyuichiro Sekine (Japan)
<b>AP202</b>	<b>Stereotactic Body Radiotherapy (SBRT) for early stage of non-small cell lung cancer: A retrospective, single-institutional experience</b>
	Juock Na*, Ji-Hyun Oh, Ji-Won Ryu, Ho-Sung Lee, Jae-Sung Choi, Ki-Hyun Seo (Korea)
<b>AP203</b>	<b>Primary thymic carcinoma, clear cell type: A case report</b>
	Annie May Dela Cruz*, Alfred Apostol (Philippines)
<b>AP204</b>	<b>Prognostic effect of serum oxidative stress level according to smoking status in patients with curatively resected stage I non-small cell lung cancer</b>
	Tomohiro Kambara*, Hiroaki Harada, Narumi Yashiki, Chika Murakami, Satoshi Shibata, Yoshifumi Nishimura, Takashi Ogawa, Kozue Miyazaki, Isao Murakami (Japan)
<b>AP205</b>	<b>The role of the circulating tumor cells in the solitary pulmonary nodules</b>
	Hui Xiao (China)
<b>AP206</b>	<b>A case of osteosarcoma lung metastasis with long-term survival by multidisciplinary treatment centered on multiple surgical excision</b>
	Satoshi Takamori*, Hiroyuki Oizumi, Jun Suzuki, Akira Hamada, Hikaru Watarai, Kenta Nakahashi (Japan)
<b>AP207</b>	<b>Adjuvant chemotherapy for patients with non-small cell lung cancer- experience from Taiwan</b>
	Yen-Han Tseng*, Yu-Chung Wu, Han-Shui Hsu, Wen-Hu Hsu, Yuh-Min Chen (Taiwan)
<b>AP208</b>	<b>Immunotherapy in NSCLC patients positive for ANA could be high-risk and high-return</b>
	Tadasu Okaya*, Kensuke Tanaka, Kiyokazu Kuwabara, Yuri Isaka, Takeshi Kawanobe, Mizuki Fukuoka, Mika Suzuki, Kouno Chiyoko, Yoshihito Yamada (Japan)
<b>AP209</b>	<b>Long-term nicotine exposure in lung cancer</b>
	Yeh YT, Wei YF, Wu JF, Chen JY, Huang MS* (Taiwan)
<b>AP210</b>	<b>Respiratory muscle strength, exercise capacity, and dyspnea during pulmonary rehabilitation after lobectomy in patients with non-small cell lung cancer</b>
	Tsuyoshi Ichikawa*, Masanori Yokoba, Yu Horimizu, Saki Yamaguchi, Akiko Kawakami, Satoru Oikawa, Haruka Takeichi, Masato Katagiri, Minoru Toyokura (Japan)
<b>AP211</b>	<b>The frequency of EGFR mutation and ALK rearrangement in patients with lung adenocarcinoma: The experience of a local hospital in Taiwan</b>
	Hsu-Chung Liu*, Chun Hui, Tu-Chen Liu (Taiwan)

<b>AP212</b>	<b>Rapid diagnosis of thoracic lymph node metastasis in patients with lung cancer during surgery by dielectric property test</b>
	Di Lu*, Xiguang Liu, Siyang Feng, Xiaoying Dong, Xiaoshun Shi, Hongli Ji, Chang Hong, Ying Sun, Xuefei Yu, Kaican Cai (China)
<b>AP213</b>	<b>Efficacy and safety of anti-PD-L1 antibody in NSCLC patients who previously treated with anti PD-1 antibodies: Preliminary study</b>
	Kohei Fujita*, Naohiro Uchida, Yuki Yamamoto, Osamu Kanai, Misato Okamura, Koichi Nakatani, Tadashi Mio (Japan)
<b>AP214</b>	<b>A comprehensive analysis of PD-L1 expression in lung cancer patients: With emphasis on the impact of archival tissue</b>
	Chin-Chou Wang*, Kuo-Tung Huang, Huang-Chih Chang, Chia-Cheng Tseng, Chien-Hao Lai, Wen-Feng Fang, Yu-Mu Chen, Chao-Cheng Huang, Meng-Chih Lin (Taiwan)
<b>AP215</b>	<b>The incidence of EGFR mutations in patients with adenocarcinoma</b>
	Masaru Nishitsuji*, Koichi Nishi, Taisuke Isono, Naohiko Ogawa, Mayuko Tani (Japan)
<b>AP216</b>	<b>Effectiveness of treatments in advanced non-small cell lung cancer with exon 20 insertion epidermal growth factor receptor mutations</b>
	Jenn-Yu Wu*, Jin-Yuan Shih, Chong-Jen Yu (Taiwan)
<b>AP217</b>	<b>MicroRNA expression profiling for identifying malignant pleural effusion in patients with lung adenocarcinoma</b>
	Hiroyuki Tamiya*, Akihisa Mitani, Akira Saito, Taro Ishimori, Minako Saito, Hideaki Isago, Taisuke Jo, Yasuhiro Yamauchi, Goh Tanaka, Takahide Nagase (Japan)
<b>AP218</b>	<b>Texture analysis predicting EGFR mutation and recurrence in lung adenocarcinoma</b>
	Lae Hyung Kang, Tae Hwa Kim, Seong Hoon Yoon, Yun Seong Kim*, Seong-Jang Kim (Korea)
<b>AP219</b>	<b>Differences of clinical features based on PD-L1 expression in Japanese lung cancer patients</b>
	Konomi Kobayashi*, Yuta Koizumi, Shoki Miyoshi, Naoya Sugimoto, Hidenori Arai, Nobuhiko Seki, Fukuo Kondo, Masafumi Kawamura, Masao Yamaguchi, Hiroyuki Nagase (Japan)
<b>AP220</b>	<b>Non-small cell carcinoma of the lung initially presenting as lung abscess</b>
	Michael John Panganiban*, Rodolfo Dizon, Jr (Philippines)
<b>AP221</b>	<b>Osimertinib combined with cetuximab for Non-small Cell Lung Cancer (NSCLC) with T790M and C797S mutations</b>
	Chang Chia-Ling*, Shih Jin-Yuan (Taiwan)
<b>AP222</b>	<b>No time to lose- understanding how variation in practice affects length of stay for patients with malignant pleural effusion</b>
	Pei Sze Carmen Tan*, Poh Seo Quek, Rui Ying Ruth Chang, John Abisheganaden (Singapore)
<b>AP223</b>	<b>DNA demethylating agents sensitize immune-based cytotoxicity by upregulating immune synapse molecules on lung cancer cells</b>
	Rueyhung Weng*, Tai-Chung Huang, Hsuan-Hsuan Lu, Yin-Ting Tseng, Yi-Hsiu Juan, Zheng-Ci Hung, Chien-Ting Lin, Chong-Jen Yu, Hsing-Chen Tsai (Taiwan)
<b>AP224</b>	<b>A case of pseudomesotheliomatous lung cancer in patient without exposure to asbestos</b>
	Masashi Momose*, Jun Hirai (Japan)
<b>AP225</b>	<b>Metformin prolongs survival in lung cancer EGFR-TKIs patients</b>
	Ming-Szu Hung*, Min-Chun Chuang, Yao-Hsu Yang, Jrhau Lung, Ying-Huang Tsai (Taiwan)

<b>AP226</b>	<b>Northern Malaysia pulmonology centre experience and analysis of progression free survival rate with tyrosine kinase inhibitors in managing advanced adenocarcinoma of lung</b>
	Arvindran Alaga*, Nafiisah Pathi, Aiman Soelar, Razul Md Kassim (Malaysia)
<b>AP227</b>	<b>An immune profile of tumor PD-L1 Expression plus CD4 or CD8 T cell infiltrations correlated with treatment efficacy of PD-1 blockade antibodies in NSCLC patients</b>
	Ching-Yao Yang*, Chao-Chi Ho, Wei-Yu Liao, Kuan-Yu Chen, Tzu-Hsiu Tsai, Chia-Lin Hsu, Jin-Juan Shih, Chong-Jen Yu, Yih-Leong Chang, Chen-Tu Wu (Taiwan)
<b>AP228</b>	<b>Small cell lung cancer transformation and T790M mutation coexisting after subsequent first and third generation EGFR-TKI therapy : A rare case report and literature review</b>
	Yukun Kuang*, Neng Jiang, Kejing Tang, Zunfu Ke (China)
<b>AP229</b>	<b>Pulmonary sclerosing pneumocytoma in an asymptomatic young asian man: A clinicopathologic case report</b>
	Jamie Chua*, Albert Albay Jr., Waldemar Siy (Philippines)
<b>AP230</b>	<b>Lung cancer with small bowel metastasis and perforation with chemotherapy-naïve status, a rare case report and literature view</b>
	Sheng-Ting Wu, Jung Yueh Chen* (Taiwan)
<b>AP231</b>	<b>Chylothorax in mediastinal tumor</b>
	Lily Amirullah*, Muhammad Fahmi Alatas (Indonesia)
<b>AP232</b>	<b>Advanced non-small cell lung cancer with tonsil metastasis, a case report</b>
	Shu Farn Tey*, Chao-Kun Chen, Shih-Lun Chang (Taiwan)
<b>AP233</b>	<b>Adenylate cyclase-associated protein 1-targeted nanoparticles as a novel strategy for the treatment of metastatic non-small cell lung cancer</b>
	Yang Liu*, Shuanshuan Xie, Changhui Wang (China)
<b>AP234</b>	<b>A 3-year study on the incidence and predictors of early complications resulting from CT-guided transthoracic biopsy at the lung center of the philippines</b>
	Brian Nelson Ong*, Guia Elena Imelda Ladrera (Philippines)
<b>AP235</b>	<b>Impact of elderly on one years survival rates of patients with non small cell lung cancer</b>
	Eko Budiono*, Ika Trisnawati (Indonesia)
<b>AP236</b>	<b>A case of malignant pleural mesothelioma that complicated with peritoneal dissemination during the 10-year survival</b>
	Mitsuhito So*, Yukari Oyama, Kenichi Obata, Noriko Hayama, Yuichiro Honma, Yukinari Itoigawa, Mitsuhiro Fujii (Japan)
<b>AP237</b>	<b>Discovery the novel compound for overcoming EGFR-TKI resistance in lung adenocarcinoma</b>
	Kuo-yen Huang*, Chung-Chih Lin, Shuenn-Chen Yang, Pan-Chyr Yang (Taiwan)
<b>AP238</b>	<b>Comparability of automated image cytometry results of bronchial washings with manual cytology and histopathology in diagnosis of lung cancer at lung center of the Philippines</b>
	Portia Maria Tanyag*, Sergio Andres (Philippines)
<b>AP239</b>	<b>Multiple primary lung cancer or relapse? A report of two cases</b>
	Wiwi Pertiwi*, Daniel Maranatha (Indonesia)
<b>AP240</b>	<b>The risk of mechanical ventilation in patients with lung cancer at end-of life in Taiwan</b>
	Yen-Fu Chen*, Yi-Hsuan Chang, Chung-Yu Chen, Chong-Jen Yu (Taiwan)

<b>AP241</b>	<b>Nivolumab-induced severe acute kidney injury with a long latent phase in a patient with non-small cell lung cancer: A case report</b>
	Naohiro Uchida*, Seijiro Tsuji, Kohei Fujita, Tadashi Mio (Japan)
<b>AP242</b>	<b>Risk factors of lung cancer in male never-smokers in Persahabatan National Hospital</b>
	Aulya Fairuz*, Jamal Zaini, Elisna Syahrudin (Indonesia)
<b>AP243</b>	<b>Molecular biological analysis in a patient with multiple lung adenocarcinoma</b>
	Tmoshige Wakayama*, Hirokuni Hirata, Kozo Sato, Sadaaki Shiromori, Kei Sugitate, Kumiya Sugiyama, Yasutsugu Fukushima (Japan)
<b>AP665</b>	<b>A meta-analysis on indwelling pleural catheters versus pleurodesis in the management of malignant pleural effusions: A modern dilemma</b>
	Anjuli May Jaen*, Ralph Elvi Villalobos, Irene Rosellen Tan, Ruth Divinagracia (Philippines)

## Paediatric lung disease

Chair: Tsu Fuh Yeh (Taiwan)

<b>AP244</b>	<b>Therapeutic effect of leukotriene receptor antagonist montelukast in treatment of respiratory tract mycoplasmal infections in children</b>
	Peng Chen*, Fang Xiao, Yanbing Hu, Zhongsen Ma (China)
<b>AP246</b>	<b>An unexpected finding of persistent right lung collapse; childhood endobronchial tumour: A case report</b>
	Hafizah Zainuddin, N. Fafwati Akmar Mohamad, Shangari Kunaseelan*, Fazila Mat Arifin, Kok Hoi Teh, Zulaiha Muda, Asiah Kassim, Norzila Mohamed Zainudin, Zakaria Zahari (Malaysia)
<b>AP247</b>	<b>Massive hemoptysis in children due to intralobar pulmonary sequestration (case report)</b>
	Tina Reisa*, Ahmad Fikri Syadzali, Prasenohadi Prasenohadi (Indonesia)
<b>AP248</b>	<b>Pulmonary intralobar sequestration with Congenital Pulmonary Airway Malformation type II (CPAM type II)</b>
	Florangel Avellana (Philippines)

## Pulmonary circulation

Chair: Wei-Chih Liao (Taiwan)

<b>AP249</b>	<b>Pulmonary arteriovenous malformation presenting as recurrent ischemic stroke-a case report</b>
	Aleli de Guzman-Pamplona (Philippines)
<b>AP250</b>	<b>Risk of symptomatic venous thromboembolism in patients following appendectomy: A nationwide cohort study</b>
	Wei-Sheng Chung (Taiwan)
<b>AP251</b>	<b>Haemoptysis due to a rare cause in three patients from central Sri Lanka</b>
	Asela Bandara, Sachini Seneviratne, Samadara Nakandala, Dushantha Madegedara* (Sri Lanka)
<b>AP252</b>	<b>Air-crescent is not always infectious event</b>
	Ya-Shin Hsu, Ying-Ming Tsai*, Ching-Yi Li (Taiwan)
<b>AP253</b>	<b>Pathways hsa_circ_0026480-miR-27a-3p-ATXN1 and hsa_circ_0046159-miR-1226-3p-ATP2A2 are involved in the development of chronic thromboembolic pulmonary hypertension</b>



Ran Miao\*, Juanni Gong, Jun Wan, Jifeng Li, Suqiao Yang, Wenyi Pang, Yunxia Zhang, Yanyan Liu, Zhenguo Zhai, Yuanhua Yang (China)

## Respiratory infections (non-tuberculous)

Chair: Rongchang Chen (China)

**AP254 The physician's perspectives on the definition, clinical practices and clinically important outcomes in the management of acute bronchiolitis in the tertiary hospitals of Cebu City, Philippines**

Philip Hester Gilbuena\* (Philippines)

**AP255 Diagnostic predictive factor of adenoviral pneumonia in patients admitted for community-acquired pneumonia in Korea military trainees**

Chul Park (Korea)

**AP256 CT-guided drainage for lung abscess**

Eiichi Maruyama\*, Norihiro Takahara, Kenichi Watanabe, Toshinao Arakawa, Azumi Watanabe (Japan)

**AP257 Progressive disseminated histoplasmosis derived from acute pulmonary histoplasmosis in a 61-year-old male in north-western China: A case report and review of literature**

Bo Zhou\*, Jianqing She, Lan Yang (China)

**AP258 Clinical significance of serum presepsin level in hospitalized pneumonia**

Motoi Ugajin\*, Hiroshi Matsuura, Yu Matsuura, Kei Matsuura, Yuichi Urino (Japan)

**AP259 Inflammatory tracheobronchitis - a rare presentation of *Pseudomonas aeruginosa* infection**

Nirmal Kanti Sarkar\*, Mahmud Masum Attar, Sanjoy Kumar Kar (Bangladesh)

**AP260 Transbronchial instillation of liposomal amphotericin B: Topical therapy for chronic progressive pulmonary aspergillosis**

Atsushi Miyamoto\*, Takahiro Ueda, Riki Uenishi, Kyoko Yagyu, Haruhiko Matsushita (Japan)

**AP261 Tanreqing injection for bronchiectasis: A systematic review and meta-analysis**

Jiajia Wang\*, Weihong Han, Yang Xie (China)

**AP262 Retrospective analysis of surgery for the management of parapneumonic pleural effusion and acute empyema**

Jun Suzuki\*, Hiroyuki Oizumi, Akira Hamada, Hikaru Watarai, Kenta Nakahashi, Satoshi Takamori (Japan)

**AP263 Pulmonary infections in post-lung transplantation patients: Case series of a tertiary medical center in Taiwan**

Ko-wei Chang\*, Hsin-Yueh Fang, Wei-Hsun Chen, Jeng-How Yang, Hsin-She Wu, Han-Chung Hu, Yun-Hen Liu, Kuo-Chin Kao (Taiwan)

**AP264 Multicenter survey of post-influenza respiratory complications in the season between 2017 and 2018 in Tokyo central area**

Naoki Nishimura\*, Ryosuke Imai, Morio Nakamura, Yusuke Suzuki, Taichi Mochizuki (Japan)

**AP265 Frequent empiric broad-spectrum antimicrobial use among hospitalized patients with lower respiratory tract infection in southern Sri Lanka**

Sky Vanderburg\*, Tianchen Sheng (United States), Gaya Wijayaratne, Thushani Dabrera, Champica K. Bodinayake, Ajith Nagahawatte, Ruvini Kurukulasooriya (Sri Lanka), Richard Drew, Christopher W. Woods, L. Gayani Tillekeratne (United States)



<b>AP266</b>	<b>Role of bronchoscopy for pathogen differentiation in patients with empyema</b>
	Beomsu Shin*, Seok Jeong Lee, Myoung Kyu Lee, Sang-Ha Kim, Won-Yeon Lee, Suk Joong Yong (Korea)
<b>AP267</b>	<b>Risk factors of discontinuation of multiple drugs treatment of MAC lung disease</b>
	Atsuhito Ushiki*, Junpei Akahane, Yuichi Ikuyama, Makoto Kosaka, Yoshiaki Kitaguchi, Kazunari Tateishi, Kazuhisa Urushihata, Masanori Yasuo, Hiroshi Yamamoto, Masayuki Hanaoka (Japan)
<b>AP268</b>	<b>Utilization of procalcitonin as a diagnostic biomarker of pediatric ventilator-associated pneumonia in patients with congenital heart disease following cardiac surgery</b>
	Frances Jane Dago-Oc (Philippines)
<b>AP269</b>	<b>Single-trocar video-assisted flexible thoracoscopic debridement under local anesthesia for multiloculated parapneumonic empyema</b>
	Masatsugu Ohuchi*, Shuhei Inoue, Yoshitomo Ozaki, Yuki Namura, Hiroshi Wada, Takuto Sakashita (Japan)
<b>AP270</b>	<b>Urinary antigen testing in community-acquired pneumonia: Clinical utility, cost effectiveness and the impact on antibiotic treatment</b>
	Lauren Ng*, Lata Jayaram, Anne Marie Southcott (Australia)
<b>AP271</b>	<b>Efficacy of corticosteroid administration in severe community-onset pneumonia patients: Using the Japanese diagnostic procedure combination database</b>
	Takashi Tachiwada*, Shingo Noguchi, Takashi Kido, Keiji Muramatsu, Tatsuhiko Kubo, Takeshi Asakawa, Yoshihisa Fujino, Matsuda Shinya, Hiroshi Mukae, Kazuhiro Yatera (Japan)
<b>AP272</b>	<b>Risk factors and implications for readmission of patients following hospitalization for community-acquired pneumonia in Korea</b>
	June Hong Ahn, Jong Geol Jang*, Eun Young Choi (Korea)
<b>AP273</b>	<b>Rare presentation of hydatid cyst</b>
	Dr Aamir Nadeem*, Dr Sandeep Nayar, Dr Pratibha Gogia, Dr Sunny Kalra (India)
<b>AP274</b>	<b>A case of primary mediastinal actinomycosis presented with recurrent lymphocyte-predominant pleural effusion</b>
	Jieun Park, Changlim Hyun, Jee Won Chang, Changhwan Kim* (Korea)
<b>AP275</b>	<b>Effects of intravena N-acetylcystein on neutrophil, procalcitonin, creactive protein and length of clinical improvement in community acquired pneumonia</b>
	Harsini Harsini*, Rohmat Andriyadi, Jatu Aphridasari, Reviono Reviono (Indonesia)
<b>AP276</b>	<b>Characteristics of patients with high <i>Mycobacterium-avium</i> complex antibody</b>
	Seiko Takasawa*, Muneyuki Sekiya, Haruhiko Oota, Kunihiro Yoshimura, Satoshi Kasagi (Japan)
<b>AP277</b>	<b>IFN-<math>\gamma</math> response to PPD stimulation in non-tuberculous mycobacterial patients may distinguish active stage from chronic one</b>
	Kensuke Minami*, Yoshiro Yamashita, Ikkoh Yasuda, Takeshi Tanaka, Koya Ariyoshi (Japan)
<b>AP278</b>	<b>Retrospective analyze the clinical application of cryptococcal antigen (colloidal gold method) to detect pulmonary cryptococcosis</b>
	Bingdi Yan*, Tiangang Ma, Peng Chen, Danhua Qu (China)
<b>AP279</b>	<b>Pneumonia in early post-kidney transplant period; a retrospective cohort study</b>

Duminda Yasaratne\*, Premil Rajakrishna, Anwer Badurdeen, Ranil Dikkapitiya, Sudammi Perera (Sri Lanka)

**AP280 Pulmonary Nocardia infection presenting as multiple lung masses**

Ting-Chia Chang\*, Shu-Farn Tey (Taiwan)

**AP281 Kartagener's syndrome : A rare case report in male**

Titah Dhadhari Suryananda\*, Daniel Maranatha (Indonesia)

**AP282 Clinical efficacy and cost-effectiveness analysis of cefepime or piperacillin/tazobactam both with ciprofloxacin in MICU patients with severe pneumonia**

Myung Goo Lee (Korea)

**AP283 Importance and efficacy of concurrent intravenous colistin with nebulized colistin for ventilator-associated pneumonia compared with only intravenous colistin**

Yu Jin Kim\*, Sungyoung Kyung, Jeong-Woong Park, SungHwan Jeong (Korea)

**AP662 Characteristics of hospital-acquired pneumonia patients with multidrug-resistant bacterial infection in Cipto Mangunkusumo General Hospital Indonesia**

Artati Murwaningrum\*, Telly Kamelia (Indonesia)

**APL008 The effect of procalcitonin-guided therapy on prescription and duration of antibiotics among patients with community acquired pneumonia: A meta-analysis**

Catherine Jordan, Mark James Arce, Timmons Cruz\*, Armin Masbang, Marites Tan-Ang (Philippines)

## Respiratory neurobiology and sleep

Chair: Ning-Hung Chen (Taiwan)

**AP284 A case report on bilateral diaphragmatic dysfunction due to bilateral phrenic nerve neuropathy in a 65-year-old male with dyspnea on supine position**

Mary Claire Orden\*, Riccel Salazar, Virginia Delos Reyes, Dina Diaz (Philippines)

**AP285 Aberrant DNA methylation levels of the formyl peptide receptor 1/2/3 gene promoter regions are associated with obstructive sleep apnea**

Yung-Che Chen\*, Meng-Chih Lin, Chien-Hung Chin, Kuo-Tung Huang, Mao-Chang Su, Ting-Ya Wang, Chang-Chun Hsiao, Po-Yuan Hsu (Taiwan)

**AP286 Using NoSAS score to predict severe obstructive sleep apnea in a clinic-based population**

Pei Shi Priscillia Lye\*, Rui Ya Soh, Ai Ping Chua, Adeline Tan (Singapore)

**AP287 Too little O<sub>2</sub>, too much Hgb**

Michelle Angela Tan-Reyes, Larizze Leonica Principe\* (Philippines)

**AP288 CPAP adherence in adults with newly diagnosed OSAHS and related influential factors- a study in Changsha, China**

Yayong Li, Yina Wang\*, Xingang Huang, Jing Su (China)

**AP289 How does the obstructive sleep apnea influence the sleep efficiency, sleepiness, and neurocognitive function in patients with REM sleep behavior disorder**

Shin-Fang Chang\*, Kai-Chieh Chang, Chin Hsien Lin, Pei-Lin Lee, Ruey Meei Wu (Taiwan)

**AP290 Retrospective observational study of obstructive sleep apnoea in women in northern territory Australia**

Kyi Kyi Zaw\*, Subash Heraganahally, Henrik Falhammar, Sai Tip (Australia)

<b>AP291</b>	<b>The use of continuous pulse oximetry in the diagnosis of deventilation syndrome in a case of kyphoscoliosis with chronic ventilatory failure</b>
	Weiling Lim*, Geak Poh Tan (Singapore)
<b>AP292</b>	<b>Dyspnea improvement in patients with lung diseases in a single session of mindful breathing: A randomized controlled study</b>
	Chee Shee Chai*, Chong Kin Liam, Yong Kek Pang, Seng Beng Tan, Diana Leh Ching Ng, Tat Seng Wong (Malaysia)
<b>AP293</b>	<b>Treatment emergent sleep apnea: A case report</b>
	Verlene Anne dela Cruz*, Rodolfo Dizon Jr (Philippines)

## Respiratory structure and function

Chair: Hisatoshi Sugiura (Japan)

<b>AP295</b>	<b>Non-alcoholic Fatty Liver Disease (NAFLD) &amp; respiratory functions</b>
	Mufide Arzu Ozkarafakili*, Salih Boğa, M.Banu Yılmaz Özgüven (Turkey)
<b>AP296</b>	<b>The weight loss therapy improved respiratory function and respiratory system impedance in obese subjects</b>
	Etsuhiro Nikkuni*, Ritsuko Arakawa, Emiri Miura, Yu Igarashi, Tokiwa Tamai, Shinya Ohkouchi, Masaomi Tabata, Toshiya Irokawa, Hiromasa Ogawa, Hajime Kurosawa (Japan)
<b>AP297</b>	<b>Primary mediastinal seminoma presenting as superior vena cava syndrome: A case report</b>
	Mari Chris Mercado*, Glynna Cabrera, Jaime Mendoza (Philippines)
<b>AP298</b>	<b>The correlation between respiratory function and gait asymmetry in stroke patients</b>
	Yoshino Terui*, Eriko Suto, Satomi Iwasawa, Kazuto Kikuchi, Yutaka Furukawa, Kouichi Hasegawa, Masahiro Satake, Takanobu Shioya (Japan)
<b>AP299</b>	<b>Left bronchial isomerism presented as a severe obstructive ventilatory disturbance in a healthy adult</b>
	Hyang Rae Lee*, Jong Deog Lee, Yi Yeong Jeong, Yu Ji Cho, Jung-Wan You, Sunmi Ju, Seung Jun Lee (Korea)
<b>AP300</b>	<b>Relationship between low-frequency intervention for inspiratory muscle training and cough peak flow in healthy young adults</b>
	Mariko Fujita*, Yukari Fujimoto, Kanji Yamada, Keita Ohashi, Yutaro Ok, Yuji Mitani, Yoji Yamada, Takumi Yamaguchi, Akio Yamamoto, Akira Ishikawa (Japan)
<b>AP301</b>	<b>Decline in lung function is associated with elevated lipoprotein a levels in Korean health screening subjects without clinically apparent disease: A cross-sectional study</b>
	Jae-Uk Song*, Yoonjung Jang, Si Young Lim (Korea)
<b>AP302</b>	<b>Traumatic chylothorax in young children: Case series and management</b>
	Marianne Madamba (Philippines)
<b>APL009</b>	<b>Comparison of the efficiency of oral airway and nasal airway inserted in the oral airway during mask ventilation</b>
	Yu-Kyung Bae*, Seongjoo Park, Jinhee Kim (Korea)

## Tuberculosis

Chair: Jann-Yuan Wang (Taiwan)

- |              |   |
|--------------|---|
| <b>AP303</b> | <b>Impact of additional antibiotics on in-hospital mortality in pulmonary tuberculosis complicated by bacterial pneumonia: A propensity score analysis</b>  |
|              | Takamasa Kan*, Kosaku Komiya, Sonoe Uchida, Kokoro Honjo, Jun-ichi Kadota (Japan)   |
| <b>AP304</b> | <b>A novel combinative adjunct therapy targeting host nuclear receptors minimizes tuberculosis treatment regimen</b>  |
|              | Drishti Tiwari*, Pawan Gupta (India)  |
| <b>AP305</b> | <b>Profound CD4 lymphopenia in a non HIV patient with miliary tuberculosis, presenting with an aids defining infection</b>  |
|              | Ethel Añonuevo, Joy Kristine Balbastre* (Philippines)   |
| <b>AP306</b> | <b>The prognostic factors among elderly patients with lung tuberculosis: A competing risk analysis</b>  |
|              | Kosaku Komiya*, Kokoro Honjo, Sonoe Uchida, Shuichi Takikawa, Jun-ichi Kadota (Japan)   |
| <b>AP307</b> | <b>Correlation between radiologic activities on chest CT with microbiologic results via bronchoscopy in pulmonary tuberculosis</b>  |
|              | Ho Young Lee (Korea)  |
| <b>AP308</b> | <b>The correlation between interferon-<math>\gamma</math> and interleukin-17 levels to the chest radiographic interpretation in rifampicin-resistance and rifampicin-sensitive pulmonary tuberculosis</b> |
|              | Andreas Antonius Surbakti*, Yani Jane Sugiri, Ungky Agus Setyawan (Indonesia)   |
| <b>AP309</b> | <b>Clinical outcomes of tailored versus standard anti-tuberculosis therapy in patients with tuberculous lymphadenitis</b>   |
|              | Yousang Ko*, Changhwan Kim, Yong Bum Park (Korea)   |
| <b>AP310</b> | <b>Neutrophil-lymphocyte Count Ratio (NLR) was associated with disease activity in tuberculosis and diabetic mellitus patients</b>  |
|              | Telly Kamelia*, Tri Hapsoro Guno, Suharko Subardi, Arif Mansjoer, Dante saksono Harbuwono (Indonesia)   |
| <b>AP311</b> | <b>The compliance and side effects of 3HR therapy in latent tuberculosis infection</b>  |
|              | Sang Won Yoon*, Jae Chol Choi, Jong Wook Shin, Jae Yeol Kim, In Won Park, Byoung Whui Choi, Jae Woo Jung (Korea)  |
| <b>AP312</b> | <b>Corticosteroids for managing tuberculous serositis: A meta-analysis of randomized controlled trials</b>  |
|              | Xiuhua Fu*, Yan Gu (China)  |
| <b>AP313</b> | <b>Impact of non-tuberculosis mycobacteria colonization or infection on multidrug resistance tuberculosis treatment</b>   |
|              | Shun-Tien Chien*, Ying-Hsun Wu, Ruay-Ming Huang (Taiwan)  |
| <b>AP314</b> | <b>Extra pulmonary tuberculosis in HIV patients: Profile &amp; outcome of patients at western visayas medical center PPM DOTS unit Philippines January 2015 to June 2018</b>                              |
|              | Fel Angelie Colon*, Elaine Louise Gabayoyo, Marinel Gabayoyo (Philippines)  |
| <b>AP315</b> | <b>A case of tuberculous spondylitis following intravesical BCG therapy</b>   |
|              | Isao Kobayashi*, Hiroki Ienaga, Koichiro Kanamori, Yuuki Sandhu, Hiroaki Motomura, Kazuhisa Takahashi (Japan)   |

<b>AP316</b>	<b>Performance of GeneXpert MTB/RIF assay in pulmonary and extrapulmonary samples in real world setting</b>
	Chiou Perng Lee*, Noor Aliza Md Tarekh, Rozanah Abdul Rahman, Wan Ying Tay (Malaysia)
<b>AP317</b>	<b>Low incidence of drug induced hepatitis in 4 months rifampicin regimen for the preventive chemotherapy of latent tuberculosis infection</b>
	Hee Jin Kim*, Soo Yeon Oh, Jin Beom Lee, Minju Heo, Jeong Hee Jeon (Korea)
<b>AP318</b>	<b>Clinical differences between positive AFB and negative AFB in lung tuberculosis patients in Indonesia</b>
	Bambang Sigit Riyanto*, I Gede Ketut Sajinadiyasa, Tutik Kusmiati, Irawaty Muzakkir, Banteng Hanang Wibisono, Nughroho Susanto, Parluhutan Siagian, Erlina Burhan (Indonesia)
<b>AP319</b>	<b>Knowledge, attitudes and practices regarding pulmonary tuberculosis among high risk health care workers in UST Hospital</b>
	Maria Cristina Maranion*, Marilyn Ong-Mateo (Philippines)
<b>AP320</b>	<b>Characteristics of tuberculosis patients with AFB sputum smear examination positive at pulmonary health center (Balai Kesehatan Paru Masyarakat) in Banyumas, Central Java, Indonesia</b>
	Kolanda Maria*, Heidy Agustin, Puji Astuti, Joko Susilo (Indonesia)
<b>AP321</b>	<b>A cross-sectional study to profile non-cystic fibrosis bronchiectasis in Malaysia</b>
	Anez Aslan*, Tidi Hassan, Andrea Ban Yu - Lin (Malaysia)
<b>AP322</b>	<b>Factors predicting the need of intensive care in patients who were admitted for pulmonary tuberculosis</b>
	Junghyun Kim*, Byung Gwan Jeon, Ji Yeon Lee, Ina Jeong, Joon-Sung Joh (Korea)
<b>AP323</b>	<b>Eligibility of shorter regimen (STR) among multidrug resistant tuberculosis patients in Persahabatan Hospital, Indonesia</b>
	Diah Handayani*, Dwi Rendra Hadi, Erlina Burhan (Indonesia)
<b>AP324</b>	<b>Acquired bronchoesophageal fistula in adult Filipino</b>
	Omohaire Dilangalen*, Teresita De Guia (Philippines)
<b>AP325</b>	<b>Solitary pulmonary nodules due to non-tuberculous mycobacterial infection diagnosed with video-assisted thoracoscopic surgery</b>
	Katsuhiro Matsuoka, Masaomi Marukawa*, Atsuko Hirabae, Noriyuki Suzaki, Takuya Nagata (Japan)
<b>AP326</b>	<b>Latent tuberculosis infection and treatment status of north Korean refugees</b>
	Young Kim*, Seung Heon Lee Lee, Ho Jin Kim, Chi Young Kim, Byeong Ki Kim, Chol Shin, Je Hyeong Kim (Korea)
<b>APL010</b>	<b>Primary MDR TB cases in west Sumatera</b>
	Elsis Mareta Edriyenti*, Irvan Medison, Yessy Susanty Sabri (Indonesia)

**Saturday 1 December**
**Banquet Hall, 3F**
**Asthma**

Chair: Horng-Chyuan Lin (Taiwan)

<b>AP327</b>	<b>Development of a cost-effectiveness model to assess asthma inhaler adherence and technique interventions</b>
	Chong Kim* (United States), Piyameth Dilokthornsakul (Thailand), Jonathan D. Campbell (United States), Job F.M. van Boven (Netherlands)
<b>AP328</b>	<b>Impact of omalizumab in treatment of severe allergic asthma: Perspective from single center experience in Malaysia</b>
	Sasi Kumar Maniyam*, Mat Zuki Mat Jaeb, Azza Omar, Suzila Che Sayuti (Malaysia)
<b>AP329</b>	<b>Production of reactive nitrogen species in asthma-chronic obstructive pulmonary disease overlap</b>
	Yorihiko Kyogoku*, Hisatoshi Sugiura, Tadahisa Numakura, Tomohiro Ichikawa, Mitsuhiro Yamada, Akira Koarai, Rie Tanaka, Takaaki Akaike, Masakazu Ichinose (Japan)
<b>AP330</b>	<b>Trimethylamine-N-oxide reverses autophagic dysfunction in the lung tissues of OVA-OVA bronchial asthma mice</b>
	Bo Zhou*, Jianqing She, Lan Yang (China)
<b>AP331</b>	<b>The condition of lung function in patients with asthma depending on the body mass</b>
	Marina Antonyuk*, Elena Mineeva, Alla Yurenko (Russia)
<b>AP332</b>	<b>Factors associated with efficacy of tiotropium in patients with asthma</b>
	Chie Morimoto*, Tsuyoshi Oguma, Yumi Ishiyama, Hironobu Sunadome, Tadao Nagasaki, Isao Ito, Hisako Matsumoto, Toyohiro Hirai (Japan)
<b>AP333</b>	<b>Bronchial thermoplasty success in asthma-chronic obstructive pulmonary disease overlap: A case report</b>
	Liping Wang*, Xiaolian Song, Changhui Wang (China)
<b>AP334</b>	<b>The efficacy of a structured asthma disease management program impacts on overall control of asthma &amp; quality of life of asthma patients</b>
	Wong Wai Mun*, Gan Chi Ching (Singapore)
<b>AP335</b>	<b>Physicians' perception on patterns of diagnosing and managing asthma: A survey in Myanmar</b>
	Win Naing (Myanmar), Urvi Khorani, Vaibhav Gaur*, Jaideep Gogtay (India)
<b>AP336</b>	<b>The potential role of serum TGF-<math>\beta</math> as a biomarker for asthma</b>
	Shoki Miyoshi*, Hiroyuki Nagase, Ayaka Ito, Konomi Kobayashi, Yuta Koizumi, Naoya Sugimoto, Michio Kuramochi, Hidenori Arai, Masao Yamaguchi, Ken Ohta (Japan)
<b>AP337</b>	<b>Novel association between asthma and osteoarthritis</b>
	Hyeon-Kyoung Koo*, So Hee Park, Hyung Koo Kang, Hye Kyeong Park, Sung-Soon Lee (Korea)
<b>AP338</b>	<b>A compliance study of the management of patients with asthma against the Global Initiative for Asthma (GINA) guidelines 2016</b>
	Hsiao Peng Toh*, Rozana Abdul Rashid, Norlidah Mohd Noor, Hai Juan Chen (Singapore)



<b>AP339</b>	<b>Neutrophilic inflammation of the upper airways is a characteristic feature of macrolide responders in patients with asthma</b>
	Kiyoshi Takeyama*, Tomohiro Akaba, Nahoko Honda, Azusa Miyoshi, Osamitsu Yagi, Mitsuko Kondo, Etsuko Tagaya (Japan)
<b>AP340</b>	<b>The asthma exacerbation after inhaled corticosteroid withdrawal: The analyses of the national health insurance database</b>
	Dong-woo Han*, Sei-won Lee, Hwa-jung Kim (Korea)
<b>AP341</b>	<b>Assessment of the actual condition of elderly asthma</b>
	Takashi Iwanaga*, Nanase Watatani, Yusaku Nishikawa, Takashi Omori, Akiko Sano, Osamu Nishiyama, Hiroyuki Sano, Ryuta Haraguchi, Yuji Tohda (Japan)
<b>AP342</b>	<b>The situation of service in patient with asthma exacerbation, experience in Secondary Care Hospital, Thailand</b>
	Sunee Lertsinudom, Lukkana Matvises*, Renukarn Anusorn (Thailand)
<b>AP343</b>	<b>Bitter taste receptor and its role of relieving bronchospasm for the asthmatics- an evidence-based medicine update, 2018</b>
	Kuang-Yu Chen (Taiwan)
<b>AP344</b>	<b>The change of nasal resistance at the acute nasal challenge with cold air in asthmatics with cold airway hyperresponsiveness</b>
	Juliy M. Perelman, Anna G. Prikhodko*, Denis E. Naumov (Russia)
<b>AP345</b>	<b>Poly-unsaturated fatty acids metabolomics study reveals childhood serum HETEs levels closely related to glutathione peroxidases in allergic asthma</b>
	Peiyan Zheng (China), Xiqing Bian (Macau), Baoqing Sun (China), Jian-Lin Wu* (Macau)
<b>AP346</b>	<b>Resolvin E3 attenuates asthmatic inflammation in a murine model of House Dust Mite (HDM)-induced airway inflammation</b>
	Makiko Sato*, Haruka Aoki-Saito, Hayato Fukuda, Yasuhiko Koga, Masakiyo Yatomi, Hiroaki Tsurumaki, Takashi Nakakura, Masanobu Yamada, Satoshi Shuto, Takeshi Hisada (Japan)
<b>AP347</b>	<b>Effect of nebulized inhaled triptolide in mouse model of asthma</b>
	Li Han (China)
<b>AP348</b>	<b>Validation of risk factors of asthma attack questionnaire among Malaysian adult asthmatic patients</b>
	Sohail Ahmad*, Nurul Irfana Binti Hassan Bashri, Mohd Arif Mohd Zim, Ahmad Izuanuddin Ismail, Muhammad Qamar, Nahlah Elkudssiah Ismail (Malaysia)
<b>AP349</b>	<b>The different relationship in single nucleotide polymorphisms of Chitinase 3-like 1 (CHI3L1) gene, CHI3L1 serum level, with bronchial asthma and allergic rhinitis in Taiwan</b>
	Chia-Hung Chen*, Chih-Yen Tu, Wen-Chien Cheng, Wei-Chih Liao, Biing-Ru Wu, Te-Chun Hsai, Wu-Huei Hsu (Taiwan)
<b>AP350</b>	<b>Effectiveness of a long-term combined therapy in patients with persistent asthma depends on the pattern of inflammation and airway response to cold air</b>
	Aleksey B. Pirogov, Juliy M. Perelman*, Anna G. Prikhodko, Victor P. Kolosov, Svetlana V. Naryshkina (Russia)
<b>AP351</b>	<b>The correlation of airway responses to osmotic and thermal stimuli in asthmatics with exercise-induced bronchoconstriction</b>



Leonid G. Nakhamchen, Julyi M. Perelman\*, Anna G. Prikhodko, Elena I. Karapetyan, Tatyana A. Maltseva, Svetlana V. Naryshkina (Russia)

**AP352 The first equation to estimate the six-minute walk distance in healthy Malaysian adult aged 20 to 40 years old**

Fatim Tahirah Mirza\*, A'laa Dayana Mohd Faridz, Nor Amira Abiden (Malaysia)

## Bronchoscopy and interventional techniques

Chair: Fumihiro Asano (Japan)

**AP353 Comparison of radial probe endobronchial ultrasound guided and blind transbronchial lung biopsy in diffuse lung lesions**

Kyung Chan Kim, Soyeon Lee, Eun Jin Kim\* (Korea)

**AP354 Analyses of lung sounds before and after the treatments for large airway stenosis**

Takashi Suzuki\*, Hiroshi Kiyokawa (Japan)

**AP355 Right main bronchial pleomorphic adenoma: A rare case report and literatures review**

Zhixing Zhu\*, Dongyong Yang (China)

**AP356 Bronchoscopic Thermal Vapour Ablation (BTVA) for severe emphysema: Preliminary experience with a novel Intervapor® technology in a Singapore Tertiary Hospital**

Jessica Tan\*, Pei Yee Tiew, Ruiya Soh, Devanand Anantham (Singapore)

**AP357 Efficacy and influence factors of interventional bronchoscopy for the treatment of scarring airway stenosis**

Ting Wang\*, Jie Zhang, Xiaojian Qiu, Juan Wang, Yinghua Pei, Yuling Wang (China)

**AP358 Feasibility of re-biopsy by Endobronchial Ultrasound-guided Transbronchial Aspiration (EBUS-TBNA) in patients with previously treated lung cancer**

Kai-Lun Yu\*, Lih-Yu Chang, Hung-Jen Fan, Ching-Kai Lin, Chao-Chi Ho, Jin-Yuan Shih (Taiwan)

**AP359 Tracheal stenosis in a young lady following short-term intubation: Mimicking asthma**

Nirmal Kanti Sarkar\*, Anwarul Anam Kibria (Bangladesh)

**AP360 Comparison of dexmedetomidine to propofol for sedation of endobronchial ultrasound-guided transbronchial needle aspiration: A randomized controlled trial**

Ting-Yu Lin\*, Chih-Hsi Kuo, Fu-Tsai Chung, Chun-Liang Chou, Yu-Lun Lo (Taiwan)

**AP361 Diagnosis of pulmonary fungus ball using endobronchial ultrasound-guided transbronchial needle aspiration: Case reports**

Yasuyuki Mizumori\*, Kenji Hanaoka, Ryogo Kagami, Rhinko Katsuda, Yoko Yokoi, Kohei Miyake, Hiroaki Tsukamoto, Shin Sasaki, Tetsuji Kawamura, Yasuharu Nakahara (Japan)

**AP362 A case of tracheobronchopathia osteochondroplastica observed on endobronchial ultrasound**

Huihuang Lin (China)

**AP363 Diagnostic yield and safety of EBUS-TBNA and peripheral EBUS guided TBLB under moderate sedation: A single-center retrospective audit**

Valencia Lim\*, Reon Yew Zhou Chin, Adrian Chin Leong Kee, See Kay Choong (Singapore)

**AP364 Endobronchial treatment of bronchopleural fistulas by using oval foramen occluder under virtual bronchoscopic navigation: A case**

Haoda Yu\*, Haidong Huang (China)

<b>AP365</b>	<b>Pseudo-Meigs' s syndrome- case report</b> Ying-Ming Tsai*, Wei-An Chang, Jen-Yu Hung (Taiwan)
<b>AP366</b>	<b>Clinical impact of a new 25 gauge endobronchial ultrasound-guided transbronchial needle in lymph node staging</b> Yu Okubo*, Yuji Matsumoto, Toshiyuki Nakai, Midori Tanaka, Takaaki Tsuchida (Japan)
<b>AP367</b>	<b>Removal of the high-risk bronchial osseous foreign body under virtual bronchoscope navigation and formulation</b> Jie Ren*, Haidong Huang (China)
<b>AP368</b>	<b>The usefulness of pleural biopsy in pleural effusion</b> Chamroeunnon Long*, Bunpaul Chhar (Cambodia)
<b>AP369</b>	<b>A new technique for self-expanding metallic Y-shaped airway stents deployment, safe and simple</b> Guo Shuliang*, Xinzhu Liu, Yishi Li, Yang Xiao, Meiling Xiao, Xingxing Jin (China)
<b>AP370</b>	<b>Transbronchial cryobiopsy in diffuse parenchymal lung disease: A Chinese perspective</b> Guo Shuliang, Yishi Li*, Xinzhu Liu, Xianghua Yi, Meiling Xiao, Xingxing Jin, Yang Xiao (China)
<b>AP371</b>	<b>Novel use of spyscope for placement of catheter in right upper lobe to control bleeding during cryobiopsy</b> Rahul Antony Simon, Mohamed Izudheen Irshad* (India)
<b>AP372</b>	<b>Two years experience of indwelling pleural catheter placement for malignant and recurrent pleural effusion in Songklanagarind Hospital</b> Asma Navasakulpong (Thailand)
<b>AP373</b>	<b>Diagnosing malignancies in the lung: The quality of a bronchoscopy service at a tertiary hospital</b> Bapti Roy*, Peter Wu (Australia)
<b>AP374</b>	<b>Bronchial leiomyoma -- a rare bronchial tumor with uncommon presentation of recurrent hemoptysis</b> Meng-Cheng Ko*, Chen-Yiu Hung (Taiwan)
<b>AP375</b>	<b>Diagnostic value of thoracoscope for pleural diseases in internal medicine</b> Tiangang Ma*, Bingdi Yan, Qun Zhang (China)
<b>AP376</b>	<b>Concurrent procedure of primary tumour biopsy using navigational EBUS bronchoscopy and lymph node stage using EBUS-TBNA in lung cancer patients with peripheral and mediastinal lesions</b> Masafumi Misawa*, Ayumu Otsuki, Kei Nakashima, Yu Tanaka, Akihiro Shiroshita, Akiko Tateishi, Masahiro Nemoto, Masahiro Aoshima (Japan)
<b>AP377</b>	<b>Etiology and management of 131 patients with main tracheal stenosis</b> Yang Junling*, Lin Sujie, Zhang Hui, Gao Rong, Yan Bingdi (China)

## Cell and molecular biology

Chair: Chul-Gyu Yoo (Korea)

<b>AP378</b>	<b>Vitexin may exerts anti-allergic inflammatory effects via ORAI1 channel inhibition</b> Hyun Jong Kim, Yu Ran Nam, Woo Kyung Kim* (Korea)
--------------	--

<b>AP379</b>	<b>Inhibition of NKCC1 modulates inflammation and apoptosis of alveolar epithelium in ischemia-reperfusion lung injury via NF-kb and p38 mapk pathways</b>
	Chih-Hao Shen*, Jr-Yu Lin, Kun-Lun Huang (Taiwan)
<b>AP380</b>	<b>Association between cigarette smoking status and composition of gut microbiota in Korean men</b>
	Su Hwan Lee*, Yeojun Yun, Soo Jung Kim, Eun-Ju Lee, Yoosoo Chang, Seungho Ryu, Hocheol Shin, Hyung-Lae Kim, Han-Na Kim, Jin Hwa Lee (Korea)
<b>AP381</b>	<b>The role of sodium-potassium-chloride cotransporter in LPS-induced alveolar macrophage activation</b>
	Ching-Yu Liu, Chung-Kan Peng, Chih-Hao Shen, Kun-Lun Huang* (Taiwan)
<b>AP382</b>	<b>The hypoxia-inducible factor 1<math>\alpha</math> protein stabilizer inhibits transforming growth factor <math>\beta</math>-induced extracellular matrix proteins beyond cell types and species</b>
	Akira Ando*, Naozumi Hashimoto, Yoshio Nakahara, Koji Sakamoto, Yoshinori Hasegawa (Japan)
<b>AP383</b>	<b>Heteronemin induces ROS-based mitochondrial-mediated apoptosis in lung cancer cells</b>
	Meng-Hsuan Cheng*, Hsiao-Mei Kuo, Hung-Ling Huang, Zhi-Hong Wen, Mei-Hsuan Lee, Jen-Yu Hung, Chau-Chyun Sheu, Jong-Rung Tsai, Inn-Wen Chong (Taiwan)

## Clinical allergy and immunology

Chair: Takashi Iwanaga (Japan)

<b>AP384</b>	<b>Bronchoscopic features of relapsing polychondritis of large airways after tracheostomy</b>
	Hiroshi Nakaoka*, Takeshi Tanaka, Masahiro Takaki, Yoshiro Yamashita, Kosuke Matsui, Konosuke Morimoto, Koya Ariyoshi (Japan)
<b>AP385</b>	<b>One-year follow-up study of pharmacokinetic interactions in a tacrolimus-treated lung transplant patient</b>
	Li-Huei Chiang*, Wei-Hsun Chen, Han-Chung Hu, Tzu-Cheng Tsai, Jeng-How Yang, Hsin-Hsu Wu, Yun-Hen Liu, Kuo-Chin Kao (Taiwan)
<b>AP386</b>	<b>Asia-pacific Survey of Physicians on Asthma and Allergic Rhinitis (ASPAIR)- India results</b>
	Bhumika Aggarwal*, Sumitra Shantakumar (Singapore), David Hinds (United States), Aruni Mulgirigama (United Kingdom)
<b>AP387</b>	<b>Metabolomic profiling of serum during allergen immunotherapy in asthmatic children</b>
	Peiyan Zheng*, Baoqing Sun (China)

## Clinical respiratory medicine

Chair: Thomas Mok (Hong Kong)

<b>AP388</b>	<b>The role of high altitude simulation test (hast) in patients with pulmonary disease and normal oxygen saturation at baseline</b>
	Yasser Alkassar*, Maria Cristina Mendoza, Rehab Almaashari, Marwan Najib, Wagih Djazmati (United Arab Emirates)
<b>AP389</b>	<b>High attenuation area along the bronchial wall on computed tomography suggests the iron pill aspiration</b>
	Shouichi Okamoto*, Mikio Takamori, Miake Yamamoto, Kengo Murata, Akihiko Wada (Japan)

<b>AP390</b>	<b>Accuracy of a sonographic scoring index in the classification of pleural effusion</b> Raychelle Anne Yang-Nagaño*, Ricardo Zotomayor, Richmond Gregorio, Dave Benson Bucad, Mercy Go-Santi (Philippines)
<b>AP391</b>	<b>NIPPV (Non Invasive Positive Pressure Ventilation) can improve the clinical outcomes of thoracic surgery patients</b> Hung Ju Chen*, Chia Chen Lin, Yin Ying Wang, Cih Han Sheng, Tuan Jung Hsu, Jong Rung Tsai (Taiwan)
<b>AP392</b>	<b>Improvement quality of life in mediastinal solitary fibrous tumor patient: Chemotherapy palliative perspective</b> Aryo Dirgantara Putra*, Winariani Koesoemoprodjo (Indonesia)
<b>AP393</b>	<b>The role of immunohistochemistry in a malignant pleural effusion from an occult papillary thyroid carcinoma: A case report</b> Marian Dimabuyu*, Patricia Maningat, Marie Belle Francia (Philippines)
<b>AP394</b>	<b>Successful management of leptospirosis associated diffuse alveolar hemorrhage using an Extracorporeal Membrane Oxygenation (ECMO)</b> DSA Wickramasinghe, MSK Vijayabandara*, AAEN Atukorala, JDVC Lekamwasam, JMM Udugama, T Welivitiya, Tolusha Harishchandra, RMA Dinendra (Sri Lanka)
<b>AP395</b>	<b>Respiratory events and prognosis during pregnancy and peripartum</b> Yon Ju Ryu*, Yeji Han, Jin Hwa Lee, Jung Hyun Chang (Korea)
<b>AP396</b>	<b>Comparison the pulmonary capacity in lung transplantation patients with and without pre-transplantation pulmonary rehabilitation</b> Huang Ching-Tzu*, Chen Yi-Chin, Chen I-Hsuan, Chiang Mei-Hsueh, Hsiao Hsiu-Feng, Ho Wan-Jing, Hu Han-Chung, Chiu Chien-Hung, Liu Yun-Hen, Kao Kuo-Chin (Taiwan)
<b>AP397</b>	<b>Late-presenting congenital diaphragmatic hernia in a 4-year-old male: An incidental finding</b> Philip Hester Gilbuena (Philippines)
<b>AP398</b>	<b>Evaluation of inhaled drug procedure among patients with asthma or COPD</b> Tamaki Kakuwa*, Motoyasu Iikura, Naoko Nagano, Sachi Matsubayashi, Yoshie Tsujimoto, Jyunko Terada, Manabu Suzuki, Shinyu Izumi, Haruhito Sugiyama (Japan)
<b>AP399</b>	<b>The cause of dyspnea was diagnosed during emergent endotracheal intubation: A case report of trachea, stenosis</b> Chih-Hao Chang*, Chung-Shu Lee, Shih-How Huang (Taiwan)
<b>AP400</b>	<b>Social media in academic pulmonology : #PCCP2018 experience</b> Rodolfo Jr Pagcatipunan*, Guinevere Dy-Agra, Patrcik Gerald Moral, Earl Louis Sempio (Philippines)
<b>AP401</b>	<b>Inhaler technique training for patients with respiratory diseases, supported by rehabilitation therapists</b> Yusuke Iwata*, Saki Kakuta, Satoshi Osawa, Yukari Fujimoto, Yutarou Oki, Akio Yamamoto, Kumiko Ono, Kaku Sawada, Hiroshi Natori, Akira Ishikawa (Japan)
<b>AP402</b>	<b>Quality assesment of clinical practice guidelines for respiratory diseases in China in 2017</b> Kairui Wan*, Mei Jiang, Yao Li, Junwan Wu, Bangyu Zou (China)
<b>AP403</b>	<b>Catamenial pneumothorax in three Filipino females: A case series</b>

	Daphne Lee*, Ma. Luisa Baylon, Guinevere Dy-Agra (Philippines)
<b>AP404</b>	<b>Features of radiologic diagnostics of respiratory cystic fibrosis first diagnosed in adolescence</b>
	Anatoliy V. Lenshin, Andrey V. Il'in, Juliy M. Perelman* (Russia)
<b>AP405</b>	<b>Correlation of Forced Expiratory Flow (FEF) 25-75% and the number of pack-years among smokers</b>
	Annabelle Dela Roca*, Ma. Encarnita Blanco-Limpin, Aileen Guzman-Banzon, Karen Anne Bispo, Teresita De Guia (Philippines)
<b>AP406</b>	<b>Changes in CD4+CD25+FoxP3+ Treg cells and INF-<math>\gamma</math> between sublingual and subcutaneous immunotherapy with house dust mite in Chinese patients with allergic rhinitis</b>
	Mo Xian*, Jing Li (China)

## COPD

Chair: Ngo Quy Chau (Vietnam)

<b>AP407</b>	<b>Consumer-led better breathing support groups - a health and social enterprise</b>
	David Chen (New Zealand)
<b>AP408</b>	<b>An action plan for self-management of patients with chronic obstructive pulmonary disease in Korea</b>
	Hee-Young Song (Korea)
<b>AP409</b>	<b>Predictive value of combining rapid decline of FEV1 and inflammatory biomarkers for developing COPD-a prospective cohort study in Beijing</b>
	Jiping Liao*, Yanni Zhao, Yuan Cheng, Cheng Zhang, Guangfa Wang (China)
<b>AP410</b>	<b>Clinical characteristics of Chronic Obstructive Pulmonary Disease (COPD) patients detected with COPD screening in three different rural areas in Japan</b>
	Makoto Kawaguchi*, Masayuki Nakayama, Masashi Bando, Yoichi Dotake, Naoko Mato, Hideaki Yamasawa, Takuji Suzuki, Koichi Hagiwara, Yukihiko Sugiyama (Japan)
<b>AP411</b>	<b>Impaired skeletal muscle oxygenation in people with chronic obstructive pulmonary disease</b>
	Shirley P.C. Ngai*, Sheung-Ying Cheung, Timothy Fung (Hong Kong)
<b>AP412</b>	<b>Lower serum immunoglobulin free light chain predicts exacerbation risk in patients with COPD</b>
	Kazuya Tanimura*, Susumu Sato, Atsuyasu Sato, Koichi Hasegawa, Kiyoshi Uemasu, Yoko Hamakawa, Motokazu Kato, Toyohiro Hirai, Shigeo Muro (Japan)
<b>AP413</b>	<b>Inhaled steroids and risk of pneumonia in patients with chronic obstructive pulmonary disease</b>
	Ferina Angelia*, Purwentyastuti, Vivian Soetikno, Zulkifli Amin (Indonesia)
<b>AP414</b>	<b>Pattern of patients diagnosed with Chronic Obstructive Pulmonary Disease (COPD) in a medical center, Taiwan, from 2006 to 2017</b>
	Lu-Cheng Kuo*, Chong-Jen Yu (Taiwan)
<b>AP415</b>	<b>Clinical usefulness of once-daily triple therapy, ciclesonide and tiotropium bromide/ olodaterol combination inhaler for COPD patients (2nd report)</b>
	Masayuki Hojo*, Aya Saihara, Yuri Taniguchi (Japan)
<b>AP416</b>	<b>The impact of atrial fibrillation in patients with chronic obstructive pulmonary disease during hospitalization</b>
	Kuang-Ming Liao*, Chung-Yu Chen (Taiwan)

<b>AP417</b>	<b>The long-term efficacy of domiciliary noninvasive positive pressure ventilation in COPD: A meta-analysis of randomized controlled trials</b>
	Yun Su Sim*, Tae Rim Shin, Dongyu Kim, Hayoung Choi (Korea)
<b>AP418</b>	<b>The Interpretation of respiratory system impedance in the early expiratory phase measured by forced oscillation technique</b>
	Toshiyuki Ogasa*, Shinobu Osanai (Japan)
<b>AP419</b>	<b>Could probiotics useful for COPD patients? An EBM view</b>
	Yi-Shan Wang*, Shi-Pan Yang (Taiwan)
<b>AP420</b>	<b>The prevalence of voiding dysfunction and the effect of bronchodilator in patients with chronic obstructive pulmonary disease</b>
	Kyung Mee Song*, Jae Seung Lee (Korea)
<b>AP421</b>	<b>Long-term course of emphysema without airflow limitation</b>
	Yuko Tanaka*, Toshihiro Shirai, Yoshinari Endo, Mika Saigusa, Taisuke Akamatsu, Akito Yamamoto, Satoru Morita, Kazuhiro Asada (Japan)
<b>AP422</b>	<b>Pedometer as a tool for quality of life improvement in COPD patients</b>
	Yusup Subagio Sutanto*, Nur Santi, Dewi Nurul Makhahah, Jatu Aphridasari, Harsini Kusumo, Reviono Reviono (Indonesia)
<b>AP423</b>	<b>Comparison of clinical characteristics and incidence of acute exacerbation in patients with asthma-COPD overlap and COPD</b>
	Keitaro Nakamoto*, Yuka Sasaki, Masafumi Shimoda, Kozo Morimoto, Ryoza Yano, Maki Miyamoto, Hiroyuki Kokuto, Yoshiaki Tanaka, Hideo Ogata, Hajime Goto (Japan)
<b>AP424</b>	<b>Whole genome DNA methylation analysis of asthma and chronic obstructive pulmonary disease overlap identifies novel epigenetic signatures</b>
	Yung-Che Chen, Meng-Chih Lin, Ying-Huang Tsai, Chin-Chou Wang, Shih-Feng Liu, Wen-Feng Fang, Tung-Ying Chao, Chia-Cheng Tsen, Yu-Ping Chang*, Ting-Wen Chen (Taiwan)
<b>AP425</b>	<b>COPD Assessment Test (CAT) score of patients with chronic obstructive pulmonary disease based on clinical phenotypes</b>
	Chee-Shee Chai*, Chong-Kin Liam, Yong-Kek Pang, Diana-Leh-Ching Ng, Seng-Beng Tan (Malaysia)
<b>AP426</b>	<b>Which is the adequate timing? Blood eosinophil count in patients with COPD exacerbation</b>
	Miyuki Munechika*, Kazunori Tobino (Japan)
<b>AP427</b>	<b>Accuracy of peak expiratory flow rate: height ratio (PEFR/Ht<sup>2</sup>) measured by portable device in predicting low FEV<sub>1</sub>/FVC in patients undergoing spirometry at Santo Tomas Hospital</b>
	Shariff Amiloari Manibpel*, Tim Trinidad (Philippines)
<b>AP428</b>	<b>R-value comprehensive evaluation method for the effect and long-term influence of tiaobu fei-shen therapies on chronic obstructive pulmonary disease rats</b>
	Jiansheng Li*, Hongxin Cui, Yange Tian, Ya Li, Yang Xie, Yunping Bai (China)
<b>AP429</b>	<b>Comparison of three combinations of inhaled long-acting muscarinic antagonists with long-acting beta agonists in patients with chronic obstructive pulmonary disease</b>
	Taichi Mochizuki*, Yasushi Inoue, Ryuta Ueda, Seisuke Nagase, Kentarou Iwasaki, Masakazu Kojika, Aeru Hayashi (Japan)
<b>AP430</b>	<b>Comparing the different diagnostic criteria of Asthma-COPD overlap</b>
	Yong Suk Jo*, Chin Kook Rhee (Korea)



<b>AP431</b>	<b>Diffusing capacity of the lungs for carbon monoxide is a predictor for exertional desaturation in chronic obstructive pulmonary disease</b>
	Shih-Feng Liu*, Guan-Heng Liu, Chien-Hung Chin, Yung-Che Chen, Ching-Wan Tseng, Yuh Chyn Tsai, Meng-Chih Lin (Taiwan)
<b>AP433</b>	<b>The proportion and clinical characteristics of Asthma-COPD Overlap (ACO) in Taiwan: A cross-sectional study</b>
	Wei-Chang Huang*, Chau-Chyun Sheu, Jeng-Yuan Hsu, Diahn-Warng Perng, Hao-Chien Wang, Shih-Lung Cheng (Taiwan)
<b>AP435</b>	<b>Study regarding the clinical efficacy of AG NPP709 (Synatura®) in patients with chronic bronchitis type COPD</b>
	Eung gu Lee*, Chin Kook Rhee (Korea)
<b>AP436</b>	<b>Effects of pedometer intervention on daily physical activity and QOL in patients with COPD, including additional analysis on ACO</b>
	Yuko Sano*, Rokuro Matsuoka, Yoko Sato, Shinobu Kimura, Shyoji Mihara, Hajime Kurosawa (Japan)
<b>AP437</b>	<b>Prevalence of chronic obstructive pulmonary disease and associated risk factors in north India</b>
	Prashant Jarhyan* (India), Anastasia Hutchinson (Australia), Rajesh Khatkar, Nikhil Srinivasapuravenkateshmurthy, Dorairaj Prabhakaran, Sailesh Mohan (India)
<b>AP439</b>	<b>Survey of the health-related quality-of-life of chronic obstructive pulmonary disease patients and disease-related indirect burdens</b>
	Hye Sook Choi*, Yong Bum Park, Chin Kook Rhee, Kwang Ha Yoo (Korea)
<b>AP440</b>	<b>The value of allergy screening in Chinese adult patients with chronic respiratory diseases</b>
	Haisheng Hu, Baoqing Sun*, Peiyan Zheng (China)
<b>AP441</b>	<b>Life expectancy and expected years of life lost in patients with severe chronic obstructive pulmonary disease</b>
	Chiung-Zuei Chen*, Chia-Yin Shih, Jung-Der Wang, Tzuen-Ren Hsiue (Taiwan)
<b>AP442</b>	<b>The correlation of absolute eosinophil count in stable Chronic Obstructive Pulmonary Disease (COPD) in Filipino patients</b>
	May Joy Canillas-Amancio*, Aileen G. Banzon Banzon, Ma. Encarnita Blanco-Limpin (Philippines)
<b>AP443</b>	<b>Enhancing the competence of nurses in COPD care</b>
	Chi Keung Lam (Hong Kong)
<b>AP444</b>	<b>Study on characteristics of chronic obstructive pulmonary disease with different phenotypes</b>
	Ying Fang*, Jingping Zheng, Wenhua Jian, Dongying Zhang (China)
<b>AP446</b>	<b>Cardiopulmonary exercise test in evaluation of functional capacity in patients with chronic obstructive pulmonary disease</b>
	Hena Khatun*, Hasina Akter Chowdhury, Mohammad Mostafizur Rahman, Mohammad Aminul Islam, Mohammad Mohiuddin Ahmad, Md. Rashidul Hassan (Bangladesh)
<b>AP447</b>	<b>Eosinophilic airway inflammation and airway hyperresponsiveness in COPD</b>
	Hiroaki Kume (Japan)
<b>AP448</b>	<b>The application of intelligent wristbands in the acute exacerbation of COPD patients</b>
	Yuandi Wang*, Wenhua Jian, Dongying Zhang, Jinping Zheng (China)



<b>AP449</b>	<b>Impact of smoking on COPD death in Taiwan and forecasting mortality to 2025</b> Chun-Kai Huang*, Shih-Yung Su, Jei-Yie Huang, Hao-Chien Wang, Ping-Hung Kuo, Jin-Yuan Shih, Kuo-Liong Chien (Taiwan)
<b>AP450</b>	<b>Direct and indirect costs of chronic obstructive pulmonary disease in Korea</b> Yong Bum Park*, Changhwan Kim, Chin Kook Rhee, Kwang Ha Yoo (Korea)
<b>AP451</b>	<b>QT interval as a predictor for the severity and progression among COPD patients</b> Jianqing She, Bo Zhou* (China)
<b>AP452</b>	<b>FENO concentration distribution in COPD patients</b> Yu-Il Kim*, Sung Ahn, Tae-Ok Kim, Minsuk Kim, Hayoung Park (Korea)
<b>AP661</b>	<b>Perception of symptoms and patient's view in COPD- markers of changing needs</b> Can Ozturk (Turkey)
<b>APL011</b>	<b>Prevalence and predictor factors influence overlap syndrome among COPD patients in Dr. Cipto Mangunkusumo Hospital Jakarta : A cross sectional study</b> Telly Kamelia (Indonesia)

## Critical care medicine

Chair: Rex C.W. Yung (United States)

<b>AP453</b>	<b>Major adverse cardiovascular events and gastrointestinal bleeding during sepsis and their impacts on hospitalization outcomes</b> Ming-Shun Hsieh*, Vivian Chia-Rong Hsieh, Chorng-Kuang How, Sung-Yuan Hu, Chen-June Seak, Pau-Chung Chen, Shu-Hui, Liao (Taiwan)
<b>AP454</b>	<b>Electrical impedance tomography and respiratory mechanics change in tween lavage induced acute lung injury porcine model</b> Dai Yu-Ling*, Chang Hung, Peng Chung-Kan, Huang Kun-Lun (Taiwan)
<b>AP455</b>	<b>Proportional assist ventilation as a mode of weaning in adult patients requiring mechanical ventilation: A meta-analysis</b> Vladimir Lennin Roque*, Jan Michael Jesse Lomanta, Jhoanna Rose Velasquez, Norman Maghuyop (Philippines)
<b>AP456</b>	<b>Comparing indirect calorimetry and estimating energy equations to explore the energy expenditure in bilateral lung transplant patients</b> Tsao Ya-Tzu*, Huang Ching-Tzu, Hsiao Hsiu-Feng, Chen Wei-Hsun, Hu Han-Chung, Liu Yun-Hen, Kao Kuo-Chin (Taiwan)
<b>AP457</b>	<b>The comparison of surgical and medical patients experienced unplanned extubation</b> Chin-Ming Chen (Taiwan)
<b>AP458</b>	<b>Usefulness of noninvasive positive-pressure ventilation delivered by helmet versus facial mask in patients with postextubational respiratory distress</b> Jung Soo Kim*, Seung-Min Kwak, Mihwa Park, Minjeong Kim (Korea)
<b>AP459</b>	<b>Different characteristic pattern in ICU septic patients due to pneumonia or non-pneumonia</b> ChiHan Huang, Wen-Feng Fang*, Kai-Yin Hung, Yu-Mu Chen, Ya-Ting Chang, Chiung-Yu Lin, Kuo-Tung Huang, Yi-His Wang, Chin-Chou Wang, Meng-Chih Lin (Taiwan)

<b>AP460</b>	<b>Body Mass Index (BMI) can help predict immune status and short-term survival in patients with sepsis admitted to ICU</b>
	Kai-Yin Huang, Wen-Feng Fang*, Chi-Han Huang, Yu-Mu Chen, Chiung-Yu Lin, Ya-Ting Chang, Kuo-Tung Huang, Yi-His Wang, Chin-Chou Wang, Meng-Chih Lin (Taiwan)
<b>AP461</b>	<b>Genotypic characteristics of carbapenem-resistant enterobacteriaceae in patients with sepsis</b>
	Eun-Hye Ha*, Joo-Won Min, Sang Joon Park, Chang Hyeok An (Korea)
<b>AP462</b>	<b>Cross-cultural adaptation and psychometric testing of a Chinese version of respiratory distress observation scale</b>
	Yu-chuan Chang*, Yu-Ju Chen, Chung-kan Peng (Taiwan)
<b>AP463</b>	<b>Hypernatremia in critically ill sepsis patients: A propensity score analysis</b>
	Yu-Mu Chen*, Wen-Feng Fang, Chiung-Yu Lin, Ya-Chun Chang, Ying-Tang Fang, Chi-Han Huang, Kuo-Tung Huang, Yi-His Wang, Chin-Chou Wang, Meng-Chih Lin (Taiwan)
<b>AP464</b>	<b>Time to lung volume recovery after suctioning predicts lung collapse after peep decrement in recovering ards patients</b>
	Napplika Kongpolprom (Thailand)
<b>AP465</b>	<b>Reverse triggering in a patient with cryptococcal meningitis complicated with cerebellar tonsillar herniation</b>
	Napplika Kongpolprom (Thailand)
<b>AP466</b>	<b>Protective effects of ramelteon on acute lung injury -induced by ventilator in a rat model</b>
	Geng-Chin Wu*, Kun-Lun Huang, Chung-Kan Peng, Shi-Jye Chu (Taiwan)
<b>AP467</b>	<b>Fluid balance is associated with multi-organ dysfunction syndrome in patients with septic shock in the ICU</b>
	Allen Chung Cheng Huang*, Chi-Hsien Huang, Meng-Cheng Ko, Shu-Min Lin (Taiwan)
<b>AP468</b>	<b>Balanced crystalloids versus normal saline solution as intravenous fluid therapy among critically ill patients: A meta-analysis</b>
	Jamie Chua*, Jubert Benedicto, Harold Henrison Chiu (Philippines)
<b>AP469</b>	<b>Relationship of retinopathy of prematurity with aerosol therapy in mechanically ventilated preterm infants</b>
	Mei-Chin Yang*, Yi-Hao Weng, Hsiu-Feng Hsiao (Taiwan)
<b>AP470</b>	<b>DM septic patients are associated with impaired immune response but not poor survival in ICU</b>
	Hung Chen Chen*, Yu-Mu Chen, Chiung-Yu Lin, Kuo-Tung Huang, Meng-Chih Lin, Wen-Feng Fang (Taiwan)
<b>AP471</b>	<b>Case report : Bilateral pneumotoraks of catamenial pneumothorax with multiple bullae</b>
	Enita Mayasari*, Lily Amirullah, Prasenhadi Prasenhadi (Indonesia)
<b>AP473</b>	<b>A study on the prediction of death in ICU patients using CRRT</b>
	Seung Hyun Yong*, Kyung Soo Chung, Joo Han Song, Moo Suk Park (Korea)
<b>AP474</b>	<b>Acute hyperglycemia aggravates acute lung injury via activation of sodium- potassium- chloride cotransporter 1</b>
	Chou-Chin Lan*, Chung-Kan Peng, Kun-Lun Huang, Chin-Pyng Wu (Taiwan)

<b>AP475</b>	<b>Factors affecting families' perception about the process of decision to forgo life-sustaining treatments</b>
	Hou-Tai Chang*, Duan-Rung Chen, Fu-Chang Tsai (Taiwan)
<b>AP476</b>	<b>High peaked airway pressures from a kinked endotracheal tube</b>
	Rachel Wong Su Jen*, Kee Chin Leong Adrian (Singapore)
<b>AP477</b>	<b>The mortality rate of prone position compared with supine position for treating ARDS patients: A systematic review and meta-analysis</b>
	Hui-Chen Teng, Mei-Ying Chang, Shin-Lung Cheng, Cheng Yu Chang* (Taiwan)
<b>AP478</b>	<b>The mortality rate of lung recruitment maneuvers in ARDS patients: A systematic review and meta-analysis</b>
	Wei-Tsung Fan, Chan-Ching Chu, Hai-Yen Hsia, Shin-Ping Chuang, Hsuan Kung Wan, Cheng Yu Chang* (Taiwan)
<b>AP479</b>	<b>Does mechanical ventilation have any role in affecting sleep architecture in critically ill patients??</b>
	Brijesh Prajapat*, A S Sandhya (India)
<b>AP480</b>	<b>Effects of driving pressure to mortality in patients with severe ARDS who receiving prone position</b>
	Lawan Jamjumrus*, Nittha Oer-areemitr, Petch Wacharasint (Thailand)
<b>AP666</b>	<b>Accuracy of gas exchange measurements as predictors of early successful weaning among ICU patients of philippine heart center: A prospective cohort study</b>
	John Ray Galamay*, Teresita De Guia, Maria Encarnita Limpin (Philippines)

## Environmental & occupational health and epidemiology

Chair: Chau-Chyun Sheu (Taiwan)

<b>AP481</b>	<b>The ciR-008885/miR-30C/LRRC8D axis enhances the macrophage activation induced by Silica</b>
	Wei Zhang*, Zewei Zhou, Biqi Chen, Jie Chao (China)
<b>AP482</b>	<b>Assessment of the pathophysiological size ranges of air microsuspensions causing development and progression of respiratory diseases</b>
	Marina Antonyuk*, Lyudmila Barskova, Tat'yana Vitkina, Lyudmila Veremchuk (Russia)
<b>AP483</b>	<b>Pulmonary toxicity of cross-linked soluble polyacrylate following intratracheal instillation</b>
	Chinatsu Nishida*, Kazuhiro Yatera, Hiroto Izumi, Yasuo Morimoto (Japan)
<b>AP484</b>	<b>Efficacy and safety of vernonia cinerea pastilles for smoking cessation</b>
	Sunee Lertsinudom, Sutasinee Srisoi*, Jringjai Areemit, Nadthatida Hansuri Hansuri, Nirachra Tawinkan, Sineenard Pranboon, Bangorn Sripanidkulchai (Thailand)
<b>AP485</b>	<b>Survey on respiratory disorders in preschool children pre and post admission to preschools in Kandy, central Sri Lanka</b>
	Sachini Seneviratne, Wijayani Wickramasinghe, Dilami Pathiraja, Asela Bandara, Samadara Nakandala, Sajani Dharmadasa, Dushantha Madegedara, Sumedha Samankantha Heenagamage* (Sri Lanka)

<b>AP486</b>	<b>Survey of respiratory symptoms among preschool children in response to domestic triggers in Kandy, central Sri Lanka</b>
	Sachini Seneviratne, Dilami Pathiraja, Premali Manorangi, Wijayani Wickramasinghe, Asela Bandara, Sajani Dharmadasa, Samadara Nakandala, Dushantha Madegedara, Sumedha Samankantha Heenagamage* (Sri Lanka)
<b>AP487</b>	<b>Occupational lung cancer: Experience in a medical center in southern Taiwan</b>
	Yau-Chang Kuo (Taiwan)
<b>AP488</b>	<b>Effects of tungsten oxide on lungs following inhalation</b>
	Takashi Marui*, Yukiko Yoshiura, Taisuke Tomonaga, Hiroto Izumi, Yuri Fujisawa, Chinatsu Nishida, Kazuhiro Yatera, Masaru Kubo, Manabu Shimada, Yasuo Morimoto (Japan)
<b>AP489</b>	<b>Analysis of clinical features in patients with pneumoconiosis complicated with pulmonary emphysema</b>
	Xin Li (China)
<b>AP490</b>	<b>The level and dynamics of respiratory diseases morbidity in Russia</b>
	Leonid G. Manakov*, Victor P. Kolosov, Tatyana V. Zabolotskikh (Russia)
<b>AP491</b>	<b>Comparison of occupational exposure limits of chemical substances in workplace between China GBZ 2.1 and German MAK</b>
	Qi Li (China)
<b>AP492</b>	<b>Survey on respiratory symptoms of urban vs. rural preschool children in Kandy, central Sri Lanka</b>
	Sachini Seneviratne, Asela Bandara, Sajani Dharmadasa, Samadara Nakandala, Dilami Pathiraja, Wijayani Wickramasinghe, Premali Manorangi, Dushantha Madegedara* (Sri Lanka)
<b>AP493</b>	<b>A therapeutic method for PM2.5-induced lung injury based on exosome in rats</b>
	Gao Yongheng*, Jin Faguang (China)
<b>AP494</b>	<b>Obstructive airway disease in tribal and non-tribal populations in rural Bengal, India</b>
	Debkanya Dey*, Rupak Ghosh, Dipanjan Saha, Madan Sarma, Pallav Bhattacharyya, Kajal Chatterjee, Saibal Mazumdar, Ratna Dey, Avijit Chowdhury, Parthasarathi Bhattacharyya (India)

## Interstitial lung disease

Chair: Moo Suk Park (Korea)

<b>AP495</b>	<b>The use of ketoconazole for the treatment of refractory hypercalcaemia in sarcoidosis</b>
	Joanna Yu, Hervey Lau*, Dinithi Samaratunga (Australia)
<b>AP496</b>	<b>Symptoms of interstitial lung disease that affect quality of life</b>
	Fujiko Someya*, Takao Nakagawa, Naoki Mugii (Japan)
<b>AP497</b>	<b>Clinical characteristics and outcome of patients with interstitial pneumonia with autoimmune features compared to connective tissue disease related-interstitial lung disease and idiopathic pulmonary fibrosis</b>
	Jeong Uk Lim, BoMi Gil, Jongyeol Oh, Hye Seon Kang, Yong-Hyun Kim*, Soon Seog Kwon (Korea)
<b>AP498</b>	<b>Clinical analysis of the cases of interstitial pneumonia combined with malignant tumor associated with polymyositis and dermatomyositis in our hospital</b>
	Masao Takemura*, Koichi Yamaguchi, Aya Yamaguchi, Hiroaki Masubuchi, Shinsuke Kitahara, Kenichiro Hara, Toshitaka Maeno, Takeshi Hisada (Japan)

<b>AP499</b>	<b>Prevalence of anxiety and depression as well as its impact on quality of life in patients with interstitial lung disease</b>
	Neha Kaushik*, Raj Kumar (India)
<b>AP500</b>	<b>Clinical prognosis of acute exacerbation of combined pulmonary fibrosis and emphysema</b>
	Yuichi Ikuyama*, Atsuhito Ushiki, Makoto Kosaka, Akahane jumpei, Yoshiaki Kitaguchi, Kazunari Tateishi, Kazuhisa Urushihata, Masanori Yasuo, Hiroshi Yamamoto, Masayuki Hanaoka (Japan)
<b>AP501</b>	<b>Pattern of interstitial lung diseases in a single center of Sri Lanka</b>
	Asela Bandara*, Sachini Seneviratne, Samadara Nakandala, Dushantha Madegedara (Sri Lanka)
<b>AP502</b>	<b>The serum KL-6 levels in untreated idiopathic pulmonary fibrosis can naturally decline in association with disease progression</b>
	Hiroshi Ishii*, Hisako Kushima, Yoshiaki Kinoshita, Kentaro Watanabe, Masaki Fujita (Japan)
<b>AP503</b>	<b>Efficacy and safety analysis of the whole lung lavage in treatment of pulmonary alveolar proteinosis</b>
	Yukun Kuang*, Fengjia Chen, Canmao Xie (China)
<b>AP504</b>	<b>B cell activating factors in patients with autoimmune pulmonary alveolar proteinosis</b>
	Masaki Hirose*, Toru Arai, Chikatoshi Sugimoto, Yoshikazu Inoue (Japan)
<b>AP505</b>	<b>The chronology of pulmonary and cutaneous manifestations in systemic sclerosis related interstitial lung disease patients- a case series</b>
	Lin Chiung-hung*, Chang Ko-wei (Taiwan)
<b>AP506</b>	<b>Multiple cysts formation in pulmonary Lung Chain Deposition Disease (LCDD): A case report</b>
	Haruya Koshiishi*, Hiroki Ebana, Masaki Onosato, Aki Kobayashi, Mizuhito Otsuji, Eisuke Takahashi, Norihiko Ikeda (Japan)
<b>AP507</b>	<b>Pulmonary alveolar proteinosis with upper-lobe predominance in a nonsmoking young female</b>
	Hong-Ping Er*, Chung-Ta Lee, Tang-Hsiu Huang (Taiwan)
<b>AP508</b>	<b>Impact of physical activity prior to and after antifibrosis therapy in patients with idiopathic pulmonary fibrosis</b>
	Tsugitoshi Onuki*, Masayuki Nakayama, Masashi Bando, Rie Yada, Toshie Sekine, Hiroyoshi Yamauchi, Shu Hisata, Yoshiaki Nagai, Takuji Suzuki, Koichi Hagiwara (Japan)
<b>AP509</b>	<b>Histone deacetylase 3 induces alveolar epithelial-mesenchymal transition under hypoxic condition</b>
	Jeong-Woong Park*, Yu Jin Kim, Eun Suk Son, Se-Hee Kim (Korea)
<b>AP510</b>	<b>Clinical significance of ferritin levels in bronchoalveolar lavage fluid from patients with anti-aminoacyl-trna synthetase antibody-positive interstitial lung disease</b>
	Mari Yamasue*, Shin-ichi Nureki, Masaru Ando, Yuko Usagawa, Kosaku Komiya, Kenji Umeki, Jun-ichi Kadota (Japan)
<b>AP511</b>	<b>An expert questionnaire analysis for developing idiopathic pulmonary fibrosis patient-reported outcome scale</b>
	Yang Xie*, Hulei Zhao, Jiajia Wang, Xiangyu Xu, Minghang Wang (China)
<b>AP512</b>	<b>Idiopathic pulmonary fibrosis is a possible risk factor for osteoporosis</b>
	Takefumi Nikaido*, Yoshinori Tanino, Yuki Sato, Ryuichi Togawa, Yasuhito Suzuki, Manabu Uematsu, Atsuro Fukuhara, Suguru Sato, Junpei Saito, Yoko Shibata (Japan)

<b>AP513</b>	<b>An experience of pulmonary rehabilitation in a patient with combined pulmonary fibrosis and emphysema - a case report</b>
	Chung-Shu Lee*, Chih-Hao Chang (Taiwan)
<b>AP514</b>	<b>Analysis of clinical features and cough characteristics of patients with interstitial lung disease</b>
	Chen Liyan*, Liang Xiaofeng, Lai Kefang (China)
<b>AP515</b>	<b>Acute exacerbation of pleuroparenchymal fibroelastosis in patient status post hematopoietic stem cell transplantation: A case report</b>
	Koji Sakamoto*, Yasushi Murakami, Yuki Okumura, Shinji Mii, Naozumi Hashimoto, Toyoharu Yokoi, Yoshinori Hasegawa (Japan)
<b>AP516</b>	<b>Clinical analysis of 45 diabetic patients with idiopathic pulmonary fibrosis</b>
	Bingdi Yan*, Junling Yang, Tiangang Ma, Hui Zhang (China)
<b>AP517</b>	<b>Interval of previous X-ray examination in advanced lung cancer with interstitial pneumonia</b>
	Ayaka Ito*, Konomi Kobayashi, Hikaru Toyota, Fuminori Tomyo, Shoki Miyoshi, Yuta Koizumi, Masao Yamaguchi, Nobuhiko Seki, Ken Ohta, Hiroyuki Nagase (Japan)
<b>AP518</b>	<b>The expression and significance of p-ERK1/2,FGF2,FGFR2 in idiopathic pulmonary fibrosis and non-small cell lung cancer</b>
	Shan Cong, Jingjin Tan, Ke Wang*, Yan Wang (China)
<b>AP519</b>	<b>Humidifier lung: Characterization of features and comparison to other hypersensitivity pneumonitis phenotypes</b>
	Masafumi Shimoda*, Kozo Morimoto, Keitaro Nakamoto, Koji Furuuchi, Tatsuya Shirai, Yoshiaki Tanaka, Yuka Sasaki, Hideo Ogata, Hajime Goto (Japan)
<b>AP520</b>	<b>A rare case of sarcoidosis-tuberculosis masquerading as malignancy with galaxy sign and hypercalcaemia</b>
	Aisya Natasya Musa*, Muhammad Amin Ibrahim, Bushra Johari, Mohammad Hanafiah, Mohd Arif Mohd Zim (Malaysia)
<b>AP521</b>	<b>Combined marker assay, not the value of a single KL-6 in early diagnosis of IPF</b>
	Junling Yang*, Hui Zhang, Sujie Ling, Rong Gao, Bingdi Yan (China)
<b>AP522</b>	<b>Drug-induced lung injury due to bepridil with positive DLST after spontaneous improvement in clinical features</b>
	Kei Sugitate*, Shingo Tokita, Hirokuni Hirata, Kumiya Sugiyama, Yasutsugu Fukushima (Japan)

## Lung cancer

Chair: Jin-Yuan Shih (Taiwan)

<b>AP523</b>	<b>Therapeutic outcomes in patients with cT1mi-cN0M0 lung cancer dominant with ground glass opacity treated by carbon ion radiotherapy</b>
	Teruaki Mizobuchi*, Naoyoshi Yamamoto (Japan)
<b>AP524</b>	<b>The role of patient's self-reported health-related quality of life as a predictor of overall survival in advanced non-small cell lung cancer with age over 75</b>
	Sung bae Cho (Korea)



<b>AP526</b>	<b>Clinical correlation between preoperative serum oxidative stress level and aberrant DNA methylation in peripheral blood of patients with stage I lung adenocarcinoma; a pilot analysis</b>
	Narumi Yashiki*, Hiroaki Harada, Kazuaki Miyamoto, Tomohiro Kanbara, Takashi Ogawa, Yoshifumi Nishimura, Kozue Miyazaki, Isao Murakami, Chika Murakami, Satoshi Shibata (Japan)
<b>AP527</b>	<b>A study of cases with postoperative recurrent lung cancer treated with immune checkpoint inhibitors</b>
	Naoki Kanauchi, Hikaru Watanabe* (Japan)
<b>AP528</b>	<b>Genetic variants in the TNF/TNFR signaling pathway genes are associated with survival of nonsmall-cell lung cancer patients</b>
	Yun Feng*, Yi Guo (China), Hongliang Liu, Qingyi Wei (United States)
<b>AP529</b>	<b>Improved treatment outcome of pembrolizumab in NSCLC patients with COPD</b>
	Sun Hye Shin*, Yunjoo Im, Jong-Mu Sun, Jin Seok Ahn, Myung-Ju Ahn, Keunchil Park, Ho Yun Lee, Se-Hoon Lee, Hye Yun Park (Korea)
<b>AP530</b>	<b>Oncogenic and immune pathways correlated with molecular prognostic marker sialyltransferase ST3GAL3 in non-small cell lung cancer</b>
	Shu-Yung Lin*, Yen-Wei Chen, Tsai-Yu Yang, Yi-Chieh Wu, Giovanni Audrey Oswita, Rueyhung Roc Weng, Hsuan-Hsuan Lu, Chong-Jen Yu, Hsing-Chen Tsai (Taiwan)
<b>AP531</b>	<b>The effect of EGFR mutation to metastasis in stage III-IVB lung adenocarcinoma</b>
	Ika Trisnawati*, Didik Setyo Heriyanto, Eko Budiono (Indonesia)
<b>AP532</b>	<b>First generation EGFR-TKIs comparison in non-small cell lung cancer patients harboring sensitive EGFR mutations</b>
	Chia Hao Chang*, Jen-Chung Ko, Chong-Jen Yu (Taiwan)
<b>AP533</b>	<b>Pembrolizumab as the first therapy for synchronous double cancer of lung cancer and gastric cancer: A case report</b>
	Hiroyuki Fujiwara*, Masanori Nakanishi, Takayuki Yumura, Kiyoshi Nakashima, Hiroyoshi Kitagawa, Takeo Yagi, Suguru Yamamoto (Japan)
<b>AP534</b>	<b>Preventing and treating brain metastases with three first-line EGFR-tyrosine kinase inhibitors in patients with EGFR mutation-positive advanced non-small cell lung cancer</b>
	Po-Lan Su*, Yi-Lin Wu, Wei-Yuan Chang, Chien-Chung Lin, Szu-Chun Yang (Taiwan)
<b>AP535</b>	<b>A case of primary pulmonary monophasic synovial sarcoma</b>
	Larrie-Lyn Albarico*, Adonis Guancia, Rhea Joy Tabujara (Philippines)
<b>AP536</b>	<b>Efficacy of salvage chemotherapy after immune checkpoint inhibitor in non-small cell lung cancer patients</b>
	Yuki Okamatsu*, Shigesato Inoue, Takahiro Utsumi, Takafumi Kayukawa, Kazuyasu Uryu, Katsuhiko Inoue, Kazuya Tsubouchi, Taishi Harada (Japan)
<b>AP537</b>	<b>The EGFR mutation pattern after epidermal growth factor receptor-tyrosine kinase inhibitors therapy in patients with non-small-cell lung cancer harboring activating uncommon EGFR mutations</b>
	Lih-Chyun Chang*, Chor-Kuan Lim, Kuan-Yu Chen (Taiwan)
<b>AP538</b>	<b>Diabetes is associated with the risk of progression and prognosis in lung cancer</b>
	Kun Zhao*, Yue Zhang, Yangrong Song, Guangyan Lei, Hao Cheng (China)



<b>AP539</b>	<b>Primary thymic malignant lymphoma suspected of thymoma: A report of two cases</b> Kazuki Ito*, Takaharu Kiribayashi, Hironobu Nishimuta, Osahiko Hagiwara, Toru Niitsuma, Toshiaki Oharazeki, Yasunori Enomoto, Shinya Kusachi (Japan)
<b>AP540</b>	<b>Establishment of primary patient-derived cancer cells of lung cancer</b> Chih-An Lin*, Chong-Jen Yu, Pan-Chyr Yang, Chao-Chi Ho (Taiwan)
<b>AP541</b>	<b>An autopsy case of ruptured liver metastases from small cell lung cancer: Case report and literature review</b> Yuki Goto*, Kazunori Tobino (Japan)
<b>AP542</b>	<b>Differences in small cell lung cancer genetic Profile between Disease progression (PD) and Partial Remission (PR) patients after the standard first-line chemotherapy</b> Yalei Zhang*, Yongxin Geng, Yan Hao, Hui Pan, Jun Liu, Fei Cui, Henghui Zhang, Minghui Ge, Jianxing He (China)
<b>AP543</b>	<b>Analysis of advanced or postoperative recurrent non-small cell lung cancer cases treated with Nivolumab at hospitals in Nagasaki, Japan</b> Noritaka Honda*, Kazumasa Akagi, Kazuhiro Oshima, Hiroshi Gytoku, Hiroaki Senjyu, Shinnosuke Takemoto, Takaya Ikeda, Takeshi Kitazaki, Hiroyuki Yamaguchi, Hiroshi Mukae (Japan)
<b>AP544</b>	<b>Factors associated with crizotinib efficacy in patients with advanced non-small cell lung cancer harboring different alk fusion variants</b> Yen-Ting Lin*, Jin-Yuan Shih (Taiwan)
<b>AP545</b>	<b>A case of thymic carcinoma found in Marie-Bamberger syndrome</b> Yukari Oyama*, Mitsuhiro So, Kenichi Obata, Noriko Hayama, Yuichiro Honma, Yukinari Itoigawa, Mitsuhiro Fujii (Japan)
<b>AP546</b>	<b>Lipid droplets support the cell growth and proliferation and alleviate the starvation induced cell death in the lung cancer cells</b> Ming-Szu Hung*, Yu-Ching Lin, Shao Lan Huang, Yuan Yuan Jiang, Tsung-Ming Yang, Ying Huang Tsai, Jrhau Lung (Taiwan)
<b>AP547</b>	<b>The sum of tumor size predicts the efficacy of immune checkpoint inhibitors in non-small cell lung cancer</b> Yusuke Shiraishi*, Satoshi Marumo, Hisanori Amimoto, Haruka Yamaki, Masahiro Shirata, Takamitsu Imoto, Takamasa Kitajima, Daiki Inoue, Yuko Katayama, Motonari Fukui (Japan),
<b>AP548</b>	<b>Priming of Anti-PD-1/ PD-L1 therapy by anti-metabolite chemotherapeutic agents in NSCLC</b> ChingWen Lin*, PeiYing Lin, PanChyr Yang (Taiwan)
<b>AP549</b>	<b>The relationship of melano-associated antigen (MAGE) A3 expression and bronchoalveolar lavage (BAL) cytological results NSCLS at Dr. Soetomo Regional Hospital of Surabaya</b> Isning Anang Marhana*, Mawartih Susanty (Indonesia)
<b>AP550</b>	<b>APSR membership survey of EGFR molecular testing of NSCLC in the Asia-pacific region</b> Emily Stone, Sita Andarini, Chong Kin Liam* (Malaysia)
<b>AP551</b>	<b>Incidence of hepatitis B reactivation during EGFR tyrosine kinase inhibitors treatment in non-small-cell lung cancer patients</b> Zong-Han Yao*, Wei-Yu Liao, Chao-Chi Ho, Kuan-Yu Chen, Jin-Yuan Shih, Jin-Shing Chen, Zhong-Zhe Lin, Chia-Chi Lin, James Chih-Hsin Yang, Chong-Jen Yu (Taiwan)

<b>AP552</b>	<b>Somatic gene mutations in patients with adenosquamous cell carcinoma of the lung</b> Goohyeon Hong*, Ji Hae Koo, Doh Hyung Kim, Jae Suk Park, Youn Seup Kim (Korea)
<b>AP553</b>	<b>Clinical perspectives on the uncommon EGFR p.L747P and p.L747S mutations in lung adenocarcinoma: A case series study</b> Sheng-Kai Liang*, Jen-Chung Ko, James Chih-Hsin Yang, Jin-Yuan Shih (Taiwan)
<b>AP554</b>	<b>Risk factors for Disseminated Intravascular Coagulation (DIC) in patients with lung cancer</b> Kentaro Nakano*, Naotatsu Otsuji, Hirokuni Hirata, Kumiya Sugiyama, Yasutsugu Fukushima (Japan)
<b>AP555</b>	<b>The survival analysis of inoperable stage III non-small cell lung cancer with the first-line therapy in southern of Taiwan</b> Lai Chien-Hao*, Yu-Mu Chen, Chin-Chou Wang, Meng-Chih Lin (Taiwan)
<b>AP556</b>	<b>RBM10 inhibits proliferation of lung adenocarcinoma via RAP1A-AKT-CREB signaling pathway</b> Xin Jin*, Ke Wang, Xin Di, Yan Wang, He Ma, Shan Cong (China)
<b>AP557</b>	<b>First-line gefitinib, erlotinib, and afatinib provided similar clinical efficacy in patients who had stage IV lung adenocarcinoma harboring rare EGFR mutation in Taiwan</b> Chih Jen Yang*, Ming-Ju Tsai, Jen-Yu Hung, Mei-Hsuan Lee, Ming-Shyan Huang, Inn-Wen Chong (Taiwan)
<b>AP558</b>	<b>A case report on lung adenocarcinoma in a pregnant patient</b> Brian Nelson Ong*, Guia Elena Imelda Ladrera (Philippines)
<b>AP559</b>	<b>1-year survival of Non-small Cells Lung Carcinoma (NSCLC) patients and influencing factors</b> Eliana Muis*, Harun Iskandar, Nur Ahmad Tabri, Muhammad Ilyas, Erwin Arief, Irawaty Djaharuddin (Indonesia)
<b>AP560</b>	<b>Patients who develop Febrile Neutropenia(FN) in the initial regimen in patients with Small Cell Lung Cancer (SCLC) have a poor prognosis</b> Rintarou On*, Takemasa Matsumoto, Tomoya Sasaki, Akira Nakao, Masaki Fujita (Japan)
<b>AP561</b>	<b>PINK1 regulates PD-L1 and MHC-I expression in lung cancer with glycolytic phenotype</b> Emily Pei-Ying Lin*, Wei-Yun Lai, Bo-Tsang Huang, Yi-Ting Tseng, Pan-Chyr Yang (Taiwan)
<b>AP562</b>	<b>Risk factors associated with the occurrence of lung cancer in women in Persahabatan Hospital, Jakarta</b> Hera Afidjati*, Jamal Zaini, Elisna Syahrudin (Indonesia)
<b>AP563</b>	<b>Real-world clinical outcomes and pathologic features of BRAF V600E-mutated lung adenocarcinoma patients in Taiwan</b> Chien-Hung Gow*, Min-Shu Hsieh, Jin-Yuan Shih (Taiwan)
<b>AP564</b>	<b>Primary atypical neuroendocrine tumor of the thymus: A case report</b> Karen Anne Bispo*, Teresita De Guia, Arlene De Luna, C Philip Radin (Philippines)
<b>AP565</b>	<b>Analysis of invasive risk factors for pure sub-centimeter ground-glass nodules</b> Yajuan Zhang*, Bo Ye, Xiwen Gao, Zhijun Yan (China)
<b>AP566</b>	<b>Effects of rodent tuber extract capsules (typhonium flagelliforme) inpatients with lung cancer who refused chemotherapy</b> Harun iskandar*, Burhan Asril (Indonesia)

<b>AP567</b>	<b>Treatment of non-small cell lung cancer with atezolizumab: A case series study</b>
	Yuki Yamamoto*, Kohei Fujita, Naohiro Uchida, Misato Okamura, Koichi Nakatani, Tadashi Mio (Japan)
<b>AP568</b>	<b>Oral vinorelbine and cisplatin plus concomitant chemo-radiotherapy as induction therapy in stage III non-small cell lung carcinoma: Results of a multi-center phase II trial</b>
	Ping-Chih Hsu*, Chih-Hung Chen, Chien-Ying Liu, Yu-Ching Lin, Chih-Liang Wang, Shih-Hong Li, Cheng-Ta Yang (Taiwan)
<b>AP569</b>	<b>Study of comparison among diagnostic modalities to establish the diagnosis of lung cancer : CEA marker, CT-scan imaging, and bronchoscopic method</b>
	Imam Nurjaya*, Abdul Fuad Hadi, Soekarno Hatta, Zuzannawati Zuzannawati, Harun Iskandar, Eliana Muis (Indonesia)
<b>APL013</b>	<b>Real-world first-line treatment patterns and outcomes among patients with advanced or metastatic non-small cell lung cancer in Taiwan: A population-based retrospective study</b>
	Te-Chun Hsia*, Ching-Hu Chung (Taiwan)

## Paediatric lung disease

Chair: Hiroyuki Mochizuki (Japan)

<b>AP570</b>	<b>Association between pneumonia in preterm infants and genital mycoplasmas in placentas</b>
	Olga Ostrovskaya, Olga Lebed'ko*, Oxana Galyant, Marina Vlasova, Elena Nagovitsyna, Stefania Suprun, Galina Evseeva (Russia)
<b>AP571</b>	<b>The availability of vitamin d to the amur region children and adolescents with pathology of the lungs</b>
	Galina Evseeva, Olga Lebed'ko*, Stefania Suprun, Evgeny Suprun, Elena Knizhnikova (Russia)
<b>AP572</b>	<b>Investigation on the relation between chronic cough and mycoplasma pneumonia chlamydia pneumonia infection in children</b>
	Peng Chen*, Junling Yang, Baihong Zheng, Shiyi Song (China)
<b>AP573</b>	<b>Curative observation on children with mycoplasma pneumonia treated by azithromycin and human- r- globulin</b>
	Peng Chen*, Fang Xiao, Sa Huang, Jinlan Zhang (China)
<b>AP574</b>	<b>Pulmonary sequestration: An unusual cause of respiratory distress in a newborn</b>
	Neil Jose Montecillo (Philippines)
<b>AP575</b>	<b>Outbreak of human metapneumovirus infection of children in Busan, Korea</b>
	Junseok Kang*, Park Jeongbo (Korea)
<b>AP576</b>	<b>A ten years old girl presented with JIA induced ILD</b>
	Mohammad Moshir Rahman (Bangladesh)

## Pulmonary circulation

Chair: Xin-Min Liao (Taiwan)

- |               |   |
|---------------|---|
| <b>AP577</b>  | <b>Rational and design of the largest prospective multicenter registry study on pulmonary embolism in China: The cures study</b>                          |
|               | Jieping Lei*, Zhenguo Zhai, Zhu Zhang, Dingyi Wang, Sinan Wu, Jun Wan, Wanmu Xie, Chen Wang (China)   |
| <b>AP578</b>  | <b>Hydrogen gas inhalation is a novel treatment for pulmonary hypertension</b>  |
|               | Tao Wang*, Zhen Long, Hanwei Liu, Wenju Lu (China)  |
| <b>AP579</b>  | <b>A case of pulmonary embolism from superficial venous thrombosis with an upper extremity source in a 35-year-old female on oral contraceptive pills</b> |
|               | Bryan Jeffrey Manzana, Roxanne Gillea Tan*, John Pocholo Tuason, Nicodemus Ong (Philippines)  |
| <b>AP580</b>  | <b>Genetic variant of CYP4V2 associated with venous thromboembolism: A case-control study</b>   |
|               | Yongjian Yue, Qing Sun, Mingliang Wang, Shengguo Liu, Xuemei Han, Yingyun Fu* (China)   |
| <b>APL014</b> | <b>Acupuncture induced pulmonary thromboembolism and deep vein thrombosis : A case report</b>   |
|               | Eun Seok Kang*, Yoon Mi Shin, Jin Young An, Kang Hyeon Choe, Ki Man Lee, Hyeran Kang (Korea)  |

## Respiratory infections (non-tuberculous)

Chair: Ngo Quy Chau (Vietnam)

- |              |  |
|--------------|--|
| <b>AP581</b> | <b>The clinical features analysis of tracheobronchial fungal infections with tumor-like lesion</b>   |
|              | Ruoxi He, Ruichao Niu, Chao Song* (China)  |
| <b>AP582</b> | <b>Prospective investigation of elderly Non-tuberculous Mycobacteria (NTM) lung disease: The actual treatment and the prognosis in clinical setting</b>                |
|              | Yoshitaka Uchida*, Jiro Terada, Ryouichi Honda, Hironori Sagara, Haruhisa Saitou (Japan)   |
| <b>AP583</b> | <b>Job's syndrome: Recurrent pulmonary infections in primary immunodeficiency, a case report</b>   |
|              | Gilly May Santiago*, Windfield Tan, Eliezer James Aguila (Philippines)   |
| <b>AP584</b> | <b>Prognosis of patient with bronchiectasis after hospitalized exacerbation</b>  |
|              | Mariko Kogo*, Atsushi Nakagawa, Kazutaka Hosoya, Hayato Kawachi, Ryosuke Hirabayashi, Ryobu Mori, Daichi Fujimoto, Kazuma Nagata, Ryo Tachikawa, Keisuke Tomii (Japan) |
| <b>AP585</b> | <b>Genotypic characteristics of carbapenem-resistant enterobacteriaceae in one of secondary referral hospital in Korea</b>   |
|              | Chang Hyeok An*, Eun-Hey Ha, Joo-Won Min, Sang Joon Park (Korea)   |
| <b>AP586</b> | <b>The limited impact of psychiatric disease and psychotropic medication on the outcome of hospitalization for pneumonia</b>   |
|              | Hisako Kushima*, Hiroshi Ishii, Takemasa Matsumoto, Kentaro Watanabe, Masaki Fujita (Japan)  |
| <b>AP587</b> | <b>Predictors of 30 days mortality among community-acquired pneumonia patients with comorbidity in tertiary care hospital</b>  |
|              | Christy Efiyanti (Indonesia)   |
| <b>AP588</b> | <b>Malnutrition alters performance status of elderly patients with parapneumonic effusion</b>  |
|              | Hitomi Nogawa*, Yuki Abe, Shuichi Abe, Toshihiro Wada, Katsuyoshi Iwabuchi (Japan)   |

<b>AP590</b>	<b>A case report: The coexistence of pulmonary cryptococcosis and granulomatosis with polyangiitis</b>
	Yan Wang*, Qinghua Zhang, Ke Wang (China)
<b>AP591</b>	<b>Quick SOFA and performance status scoring systems predict the prognosis of pneumococcal community-acquired pneumonia</b>
	Kotono Oe*, Shuichi Abe, Kazunori Moriya (Japan)
<b>AP592</b>	<b>Implementing a care bundle approach reduces duration of length of stay in community-acquired pneumonia</b>
	Chi-Hung Lo*, Ying-Chun Li, Shu-Fang Huang, Hwei-Ling Chou (Taiwan)
<b>AP593</b>	<b>Long-term observation of anti-glycopeptidolipid-core antibody titer in patients with <i>Mycobacterium avium</i> complex-positivelung disease</b>
	Tsukasa Ohnishi*, Naota Kuwahara, Yoshitaka Uchida, Yasunari Kishino, Sojiro Kusumoto, Hironori Sagara (Japan)
<b>AP594</b>	<b>Small cohort retrospective study mixed co- infection of fungus in pneumina population</b>
	Ruei Yuan Li (Taiwan)
<b>AP595</b>	<b>Candidal tracheobronchitis after total aortic replacement and thoracic endovascular aortic repair</b>
	Masahiro Takaki*, Takeshi Tanaka, Kosuke Matsui, Satoshi Kakiuchi, Hiroshi Nakaoka, Hiroyuki Ito, Mai Izumida, Yoshiro Yamashita, Konosuke Morimoto, Koya Ariyoshi (Japan)
<b>AP596</b>	<b>Pneumococcal urinary antigen test use as a prognostic marker in patients admitted with community-acquired pneumonia: A propensity score matching study</b>
	Jonghoo Lee*, Jae-UK Song (Korea)
<b>AP597</b>	<b>One case of pneumoconiosis associated with pulmonary nosocomial infection</b>
	Ying Li (China)
<b>AP598</b>	<b>Three cases of POM-1 metallo-<math>\beta</math>-lactamase producing <i>Pseudomonas otitidis</i> isolated from respiratory specimens</b>
	Naoya Nishiyama*, Kohei Uechi, Masashi Nakamatsu, Takeshi Kinjo, Jiro Fujita (Japan)
<b>AP599</b>	<b>Incidence and clinical features of community-acquired pneumonia caused by macrolide-resistant mycoplasma pneumoniae from adults in Jeju</b>
	Misun Kim, Jae Hong Choi, Young Ree Kim, Changhwan Kim* (Korea)
<b>AP600</b>	<b>Advances in establishment of bronchiectasis animal model</b>
	Yange Tian*, Yang Xie, Ya Li, Xuefang Liu, Lanxi Zhang, Jindi Ma (China)
<b>AP601</b>	<b>Is blood culture useful in the management of aspiration pneumonia?</b>
	Masanobu Okahisa*, Kazunori Tobino (Japan)
<b>AP602</b>	<b>Organization and clinic-epidemiologic assessment of efficiency of the regional program of respiratory infections prevention</b>
	Victor P. Kolosov*, Olga P. Kurganova, Leonid G. Manakov, Juliy M. Perelman (Russia)
<b>AP603</b>	<b>Pulmonary infection caused by nocardia farcinica in an immunocompetent patient: A case report and review of the literature</b>
	Shuanshuan Xie*, Changhui Wang (China)

<b>AP604</b>	<b>Natural history of non-cavitary nodular bronchiectatic <i>Mycobacterium avium</i> complex lung disease</b>
	Byoung Soo Kwon*, Tae Sun Shim, Kyung-Wook Jo (Korea)
<b>AP605</b>	<b>Microbiological pattern of pulmonary infection patients in persahabatan hospital intensive care unit and it's correlation with severity of the disease measure with apache II score</b>
	Raden Roro Diah Handayani, Hayatun Naimah* (Indonesia)
<b>AP607</b>	<b>Analysis for distribution range and drug resistance of pathogenic bacteria in sputum of AECOPD inpatients</b>
	Tiangang Ma*, Yanbing Hu, Peng Chen, Bingdi Yan (China)
<b>AP608</b>	<b>Disseminated <i>Mycobacterium kansasii</i> disease in a patient without a diagnosis of clinical immunodeficiency</b>
	Eriko Kashihara*, Naohiro Uchida, Kohei Fujita, Hiroshi Koyama (Japan)
<b>AP609</b>	<b>Legionella pneumonia induced acute respiratory distress syndrome: Case series of a tertiary medical center in Taiwan</b>
	Tzu-Hsuan Chiu*, Ko-Wei Chang, Chi-Hsien Huang, Han-Chung Hu, Chung-Chi Huang, Kuo-Chin Kao (Taiwan)
<b>AP610</b>	<b>Iatrogenic pleural empyema caused by <i>Propionibacterium acnes</i></b>
	Hyeyoung Jwa*, Jaechun Lee, Gil Myeong Seong, Changhwan Kim (Korea)
<b>AP611</b>	<b>Comparison of Grocott-Gomori methenamine silver and immunofluorescence staining for diagnosing <i>Pneumocystis pneumonia</i>: Analysis involving quantitative PCR for detection of <i>Pneumocystis jirovecii</i> in bronchoalveolar lavage fluid</b>
	Yu Kasamatsu*, Mitsuhiro Sumitani, Keiji Konishi, Michinori Shirano, Tetsushi Goto, Yasunori Fujikawa (Japan)
<b>AP657</b>	<b>The diagnosis value of bronchoalveolar lavage detection by high-throughput sequencing for pulmonary infectious diseases</b>
	Dingyun Feng*, Ying Li, Zhiyi Jiang, Yanhong Wang, Yuqi Zhou, Tiantuo Zhang (China)
<b>AP658</b>	<b>Hospital-acquired pneumonia rate in a hospital affiliated university in China: A cross-sectional survey involving 210417 inpatients</b>
	Dingyun Feng*, Xiaoling Zou, Yuqi Zhou, Heliang Li, Jiasheng He, Yixiong Yuan, Tiantuo Zhang (China)
<b>AP663</b>	<b>Identifying of risk factors of multi-drug resistant bacteria in hospitalized acquired pneumonia</b>
	Telly Kamelia, Artati Murwaningrum* (Indonesia)

## Respiratory neurobiology and sleep

Chair: Kun-Ta Chou (Taiwan)

<b>AP612</b>	<b>Different profiles of cough hypersensitivity mediated by TRPV1, TRPA1 in patients with chronic refractory cough</b>
	Li Long*, Hongmei Yao, Jing Tian, Kefang Lai (China)
<b>AP613</b>	<b>Motor unit recruitment in human genioglossus during flow-limited breathing in sleep</b>
	Vineeth George*, Peter Burke, Elizabeth Brown, Fiona Knapman, Daniel Eckert, Lynne Bilston, Jane Butler (Australia)



<b>AP614</b>	<b>The HMGB1-RAGE/TLR-TNF-<math>\alpha</math> signaling pathway may contribute to kidney injury induced by hypoxia</b>
	Cheng Zhang*, Hui Dong, Fengwei Chen, Yunxia Wang, Jing Ma, Guangfa Wang (China)
<b>AP615</b>	<b>Combination of non CPAP therapy in patients with OSA</b>
	Kin Wang To*, Tat On Chan, Wing Ho Yip, Susanna Ng, Ka Pang Chan, Rachel Lo, Fanny Ko, David SC Hui (Hong Kong)
<b>AP616</b>	<b>A retrospective analysis on the demographic characteristics of patients with excessive daytime sleepiness presenting to the Sleep Medicine Clinic Hospital Taiping</b>
	Mangayarkarasi M Ramanathan*, Umadevi A Muthukumar (Malaysia)
<b>AP617</b>	<b>Getting older is associated with the increased risk for OSA and hypoventilation in patients with duchenne muscular dystrophy</b>
	Ming-Tao Yang*, Frank Lu, Wen-Chin Weng, Wei-Chung Hsu, Jeng-Yi Hsieh, Pei-Lin Lee (Taiwan)
<b>AP618</b>	<b>Noradrenergic A7 cell group modulates the central regulation of genioglossus in rats</b>
	Xinshi Nie*, Wei Wang (China)
<b>AP619</b>	<b>A prediction equation of optimal CPAP pressure for obstructive sleep apnea in Malaysia</b>
	Mei Ching Yong*, Kho Sze Shyang, Swee Kim Chan, Siew Teck Tie (Malaysia)
<b>AP620</b>	<b>Sleep efficiency and nocturnal desaturation associated with hypertension</b>
	Wei-Sheng Chung*, Liang-Wen Hang, Chun-Sen Huang, Yung-Fu Chen (Taiwan)
<b>APL015</b>	<b>Epidemiological characteristic of ischemic stroke in adults Indonesian obstructive sleep apnea population : A preliminary study</b>
	Telly Kamelia*, Dimas Septiar (Indonesia)

## Respiratory structure and function

Chair: Tsuyoshi Oguma (Japan)

<b>AP621</b>	<b>Effect of moderate endurance training on exercise biological calibration</b>
	Geak Poh Tan*, Gin Tsen Chai, Danqing Qi (Singapore)
<b>AP622</b>	<b>Effects of different-intensity inspiratory muscle training on diaphragm and assistive inspiratory muscle thickness in healthy individuals</b>
	Yutaka Furukawa*, Kazuki Okura, Takato Miyashita, Masahiro Iwakura, Kazuyuki Shibata, Atsuyoshi Kawagoshi, Keiyu Sugawara, Hitomi Takahashi, Masahiro Satake, Takanobu Shioya (Japan)
<b>AP623</b>	<b>Right unilateral pulmonary aplasia: A case report</b>
	Portia Maria Tanyag*, Joven Gonong (Philippines)
<b>AP624</b>	<b>The effects of scapula and trunk muscle training on mouth pressure</b>
	Masahiro Satake*, Sonoka Kumagai, Yuuki Natsui, Yutaka Furukawa, Yoshino Terui, Takanobu Shioya (Japan)
<b>AP625</b>	<b>SWOT analysis on the promotion of pulmonary function test in primary medical and health service institutions</b>
	Dongying Zhang*, Yuandi Wang, Wenhua Jian, Jinping Zheng (China)



<b>AP626</b>	<b>Differences between thoracic and abdominal respiration in MostGraph analysis</b>
	Toshiya Inui*, Takayasu Watanabe, Maya Izawa, Saori Takata, Atsuto Mouri, Mitsuhiro Kamimura (Japan)
<b>AP627</b>	<b>A 6-week old infant with first episode of cough diagnosed with bronchus suis: A case report</b>
	Wivina Bancoro (Philippines)
<b>AP628</b>	<b>Short-term inspiratory muscle training in hospitalized heart failure patients is safe and effective for improving inspiratory muscle strength and dyspnoea on exertion</b>
	Yuki Kagaya*, Kazuki Okura, Shin Minakata, Kazutaka Echigoya, Yoshihisa Abe, Takanobu Shioya (Japan)
<b>AP629</b>	<b>Decreased lung function is associated with increased risk of developing non-alcoholic fatty liver disease: A longitudinal cohort study</b>
	Jae-Uk Song*, Hye kyeong Park (Korea)

## Tuberculosis

Chair: Diah Handayani (Indonesia)

<b>AP630</b>	<b>Analysis of age-specific background of active tuberculosis in aizu medical center, Japan</b>
	Tomoko Suzuki*, Miwako Saitou, Yuka Utano, Kennichi Utano, Mami Rikimaru, Mitsuru Munakata, Katsunao Niitsuma (Japan)
<b>AP631</b>	<b>Reducing tuberculosis but contracting shingles in patients with type 2 diabetes receiving statin versus nonstatin lipid lowering agents</b>
	Sheng-Wei Pan*, Jia-Yih Feng, Wei-Juin Su, Yu-Jiun Chan (Taiwan)
<b>AP632</b>	<b>Incidence of active tuberculosis within 1 year after tumor necrosis factor inhibitor treatment according to LTBI status in patients with inflammatory bowel disease</b>
	Jieun Kang, Yong-shik Kwon*, Kyung-Wook Jo (Korea)
<b>AP633</b>	<b>Decreased moR-150-5p expression in patients with active pulmonary Tuberculosis (TB) disease</b>
	Yung-Che Chen*, Chao-Chien Wu, Sum-Yee Leung, Huang-Chih Chang, Tung-Ying Chao, Wen-Feng Fang, Chiu-Ping Lee, Meng-Chih Lin (Taiwan)
<b>AP634</b>	<b>Correlation between matrix metalloproteinase-9 and the severity degree of chest x-ray in pulmonary tuberculosis patients</b>
	Winariani Koesoemoprodjo*, Gigih Setijawan (Indonesia)
<b>AP635</b>	<b>Differentiation between lymphoma associated effusions and tuberculous pleural effusion</b>
	Hyewon Seo*, Hyeyoung Park, Hye Jin Lee, Hong Geun Oh, Yong Hoon Lee, Jaehee Lee, Chang Ho Kim (Korea)
<b>AP636</b>	<b>Analysis of TB surveillance data on foreign-born persons “transferring out” in Japan - implications for cross-border collaboration for TB care and prevention</b>
	Lisa Kawatsu*, Akihiro Ohkado, Kazuhiro Uchimura, Kiyohiko Izumi (Japan)
<b>AP637</b>	<b>The role of surgery for the treatment of incidental pulmonary tuberculosis finding in a tuberculosis-endemic country</b>
	Hung-Chueh Peng, Chien-Te Pan, You-Lung Chang, Chung-Yu Chen* (Taiwan)

<b>AP638</b>	<b>The great mimicker: Pulmonary tuberculosis with axillary mass</b> Suzila Che Sayuti*, Azza Omar, Mat Zuki Mat Jaeb (Malaysia)
<b>AP639</b>	<b>A rare case of anterior mediastinal mass in a 12 month old: Tuberculosis</b> Mary Ann Enteria*, Ma. Dulce Requiron-Sy (Philippines)
<b>AP640</b>	<b>Vitamin D, serum IL-15 and serum IP-10 are potential biomarkers to differentiate active TB and latent TB</b> Ji Young Hong*, Yoonki Hong, Myung Goo Lee (Korea)
<b>AP641</b>	<b>Risk factors of time adverse effects of kanamisin on tuberculosis drug resistant</b> Reviono Reviono*, Martha Ratnawati (Indonesia)
<b>AP642</b>	<b>The great masquerader: A case report on pulmonary tuberculosis and lung cancer</b> Maria Cristina Maranion*, Earl Louis Sempio (Philippines)
<b>AP643</b>	<b>Tennis racket' sign – an oblivion predictor of active tuberculosis</b> Arvindran Alaga*, Razul Md Kassim, Asyif Fairus Ahmad, Tan Eng Liang (Malaysia)
<b>AP644</b>	<b>Analysis of age-specific ct findings of active tuberculosis in aizui medical center, Japan</b> Miwako Saitou*, Tomoko Suzuki, Yuka Utano, Kennichi Utano, Mami Rikimaru, Mitsuru Munakata, Katsunao Niitsuma (Japan)
<b>AP645</b>	<b>Knowledge, attitudes and behavior patient suspect MDR-TB at pulmonary health center (BKPM) in Maluku-Indonesia</b> Vebiyanti Tentua*, Yorike Latuheru, Rosdiana Perau (Indonesia)
<b>AP646</b>	<b>Clinical factors associated with initiation of LTBI treatment among health care workers in a referral hospital in Korea</b> Hyun Lee*, Tai Sun Park, Dong Won Park, Ji-Yong Moon, Sang-Heon Kim, Tae Hyung Kim, Ho Joo Yoon, Jang Won Sohn (Korea)
<b>AP647</b>	<b>Spectrum of tuberculosis in advanced chronic kidney disease (aCKD)</b> Duminda Yasaratne*, Indeewari Bulathsinhala (Sri Lanka)
<b>AP648</b>	<b>Pulmonary tuberculosis in advanced chronic kidney disease; a descriptive study on disease pattern and treatment outcome in a high CKD prevalent setting</b> Duminda Yasaratne*, Indeewari Bulathsinhala (Sri Lanka)
<b>AP649</b>	<b>The important of rapid molecular test in TB diagnosis and prompt treatment</b> Erlina Burhan, Diah Handayani*, Gatut Priyonugroho, Budi Haryanto, Fachrul Tamrin, Ika Fajarwati (Indonesia)
<b>AP650</b>	<b>The trend of tuberculosis research in north Korea based on a review of literature</b> Sue In Choi*, Eun Joo Lee, Byung-Keun Kim, Won Jai Jung, Sang Yeub Lee (Korea)
<b>AP651</b>	<b>A Filipino with multiple saccular aneurysms caused by <i>Mycobacterium tuberculosis</i></b> Omohaire Dilangalen*, Teresita De Guia (Philippines)
<b>AP652</b>	<b>The influence of complication of interstitial lung disease to mortality and length of stay in ward for the patients with pulmonary tuberculosis</b> Yasushi Nakanko*, Kenichi Arakawa, Ryosuke Arai, Hanako Hasegawa, Junko Kagyo, Yukiko Nakajima, Kazumi Nishio (Japan)

<b>AP653</b>	<b>Diagnostic discrepancy, a drug sensitive or MDR-TB: Case report</b>
	Erlina Burhan*, Diah Handayani, Gatut Priyonugroho, Budi Haryanto, Ika Fajarwati, Fachrul Tamrin (Indonesia)
<b>AP654</b>	<b>Quality of life of patients with multi-drug resistant tuberculosis at programmatic management of drug-resistant tuberculosis western visayas medical center January 2013 to April 2015 Philippines</b>
	Kaya Sharley Cercado, Fel Angelie Colon* (Philippines)
<b>AP655</b>	<b>Successful desensitization for anti-tuberculosis hypersensitivity drug reaction- a case series</b>
	Aisya Natasya Musa*, Muhammad Amin Ibrahim, Terence KW Lim, Zhi Yun Taye, Mohd Arif Mohd Zim (Malaysia)
<b>AP656</b>	<b>Abdominal tuberculosis managed surgically in the late phase: A case report</b>
	Ken Hui Fu (Taiwan)
<b>APL016</b>	<b>Latent tuberculosis infection on healthcare worker in west Sumatera Pulmonary Hospital</b>
	Fenty Anggrainy*, Irvan Medison, Sabrina Ermayanti, Yessy Sabri (Indonesia)
<b>APL017</b>	<b>Statin treatment may prevent development of active tuberculosis in diabetic state: An analysis of a nationally representative cohort</b>
	Hui-Yuan Hsiao*, Kwong-Leung Yu, Long-Chung Chang, Li-Hsiang Chen (Taiwan)



# SPONSORSHIP & EXHIBITION in alphabetical order of sponsorship and company name

## Acknowledgements

The Organizing Committee would like to recognize the following sponsors and collaborating organizations for their generous contributions and support of APSR 2018:

### Diamond Supporters



### Platinum Supporter



### Gold Supporters



### Silver Supporters



### Singular Supporters





nox medical



### Government Support



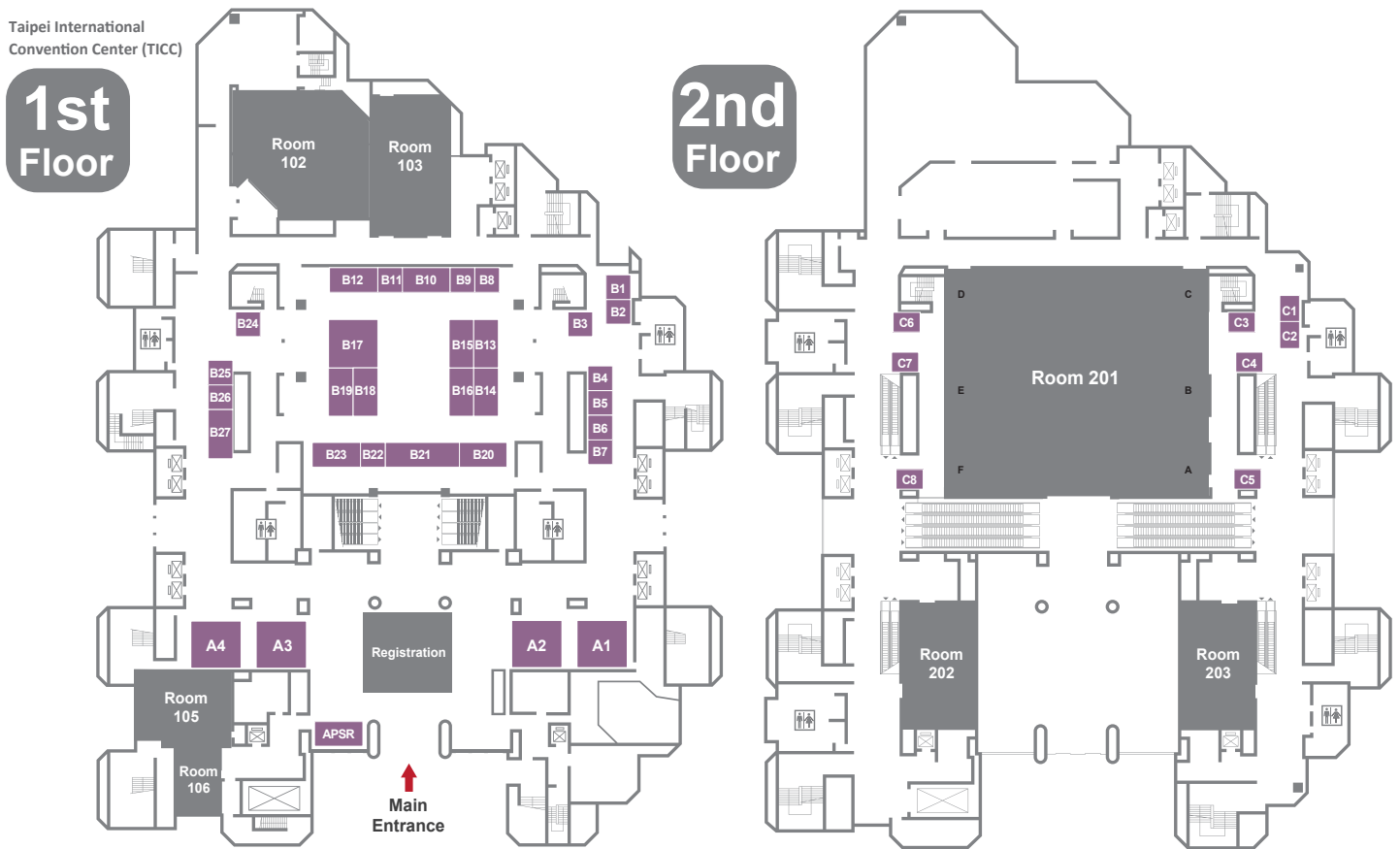
### Collaborating Societies



## Exhibit Floor Plan and Listing

During the APSR 2018, all participants have access to the industry exhibition, which is located in room 101, south & north foyer (1<sup>st</sup> floor), south & north corridor (1<sup>st</sup> & 2<sup>nd</sup> floor) at Taipei International Convention Center.

Coffee breaks will be served in the exhibition area.



## Exhibit Hours

Friday 30 November	09:30-17:30
Saturday 1 December	09:30-17:30
Sunday 2 December	09:00-12:30



*in alphabetical order by company name*

Exhibitor	Booth No.
ACT Genomics	B15
American College of Chest Physicians (CHEST)	C7
American Thoracic Society	C2
APSR 2019 Hanoi	C4
Asian Pacific Society of Respiriology	Lobby, 1F
AstraZeneca Taiwan	A3
Bayer Taiwan Co., Ltd	B8
bioMérieux	B12
Biosystems Inc.	B9
Boehringer Ingelheim	A1
Brojaw Inc.	B6
Broncus Medical	C8
Chiesi Farmaceutici S.p.A. / Orient EuroPharma Co., Ltd.	B17
Chugai Pharma Taiwan Ltd.	B23
Cook Medical	B24
Daiichi Sankyo Co., Ltd.	B19
Eli Lilly and Company	B27
European Respiratory Society	C1
Fisher & Paykel Healthcare	B11
Gilead Sciences, Inc.	B3

Exhibitor	Booth No.
GSK	A2
Japan Clean Air Association	C6
Manifold Health Tech, Inc.	C5
Merck Sharp & Dohme (I,A,) LLC, Taiwan Branch	B21
ndd Medizintechnik AG	B25
Nonin Medical	B5
Novartis Taiwan Co., Ltd	A4
Nox Medical	B7
Olympus	B20
Ono Pharmaceutical Co., Ltd./ Bristol-Myers Squibb	B13
PENTAX Medical Singapore Pte Ltd.	B1
Pfizer	B18
ResMed	B10
Roche Products Ltd.	B14
Standard Health Medical Co., Ltd	B26
Synmosa Biopharma Corporation	B16
Taiwan Shionogi (TS) & Co., Ltd.	B4
The Japanese Respiratory Society	C3
TTY Biopharm Company Limited	B22
Vitalograph Ltd.	B2

## Profiles

---

### ACT Genomics

**Booth no. B15**

ACT Genomics, an integrated cancer molecular information company in Taiwan, offering comprehensive genetic profiling services to cancer research, clinical cancer treatment, and drug discovery. Founded by a team of experts with solid experience in oncology, cancer genomics, bioinformatics, and new drug development, ACT Genomics aims to transform cancer genomic information into precision diagnosis and personalized treatments.

---

### Actelion Pharmaceuticals Taiwan Ltd.

Actelion is part of the Johnson & Johnson Family of Companies. We are the recognized global leader in pulmonary arterial hypertension. Our understanding of the complex pathways and molecular mechanisms of this disease has enabled us to develop tailored medicines to improve patient outcomes and make a difference.

---

### American College of Chest Physicians (CHEST)

**Booth no. C7**

The American College of Chest Physicians (CHEST) is the global leader in advancing patient outcomes through innovative chest medicine education, clinical research, and team-based care ([chestnet.org](http://chestnet.org)). CHEST serves 19,000+ members worldwide who provide patient care in pulmonary, critical care, and sleep medicine. Don't miss our upcoming education event—CHEST Congress 2019, 10-12 April, in Bangkok, Thailand. Learn more at [congress.chestnet.org](http://congress.chestnet.org).

---

### American Thoracic Society

**Booth no. C2**

With a mission of improving respiratory health worldwide, the American Thoracic Society offers educational opportunities to medical professionals through high-impact journals, International Conference sessions and online programs, and clinical guidelines and statements; many of these offer ABIM and ABP MOC, CME and nursing contact hours. The Society also provides research support, advocacy programs and patient education. ATS activities advance Research, Education, Global Health, Patient Health and Clinical Services.

---

### Amgen

Amgen is one of the world's leading biotechnology companies. Amgen is a values-based company, deeply rooted in science and innovation to transform new ideas and discoveries into medicines for patients with serious illnesses.

---

### APSR 2019 Hanoi

**Booth no. C4**

Vietnam Respiratory Society (VNRS) is a voluntary, non-profit social organization of Vietnamese organizations and individuals who have been working and teaching in the field of respiration. Vietnam Respiratory Society participates in scientific research, advises on professional work for competent authorities, participates in community health education as well as relations and international integration. In 2019, VNRS is honored to be local host of the 24<sup>th</sup> Congress of the Asian Pacific Society of Respiriology.

---

### Asian Pacific Society of Respiriology

**Lobby, 1F**

The Asian Pacific Society of Respiriology (APSR) was established in 1986. The objectives of the Society are the advancement and promotion of knowledge of the respiratory system in health and disease. It strives to encourage research, improve clinical practice through teaching, increase awareness of health problems in the area and promote the exchange of knowledge among respirologists in the Asia Pacific region.

---



---

### **AstraZeneca Taiwan**

**Booth no. A3**

AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialization of prescription medicines, primarily for the treatment of diseases in three therapy areas - Oncology, Cardiovascular, Renal & Metabolism and Respiratory. The Company also is selectively active in the areas of autoimmunity, neuroscience and infection.

---

### **Bayer Taiwan Co., Ltd**

**Booth no. B8**

Bayer is a Life Science company with a more than 150-year history and core competencies in the areas of health care and agriculture. With our innovative products, we are contributing to finding solutions to some of the major challenges of our time.

---

### **bioMérieux**

**Booth no. B12**

BioFire Diagnostics, a wholly owned subsidiary of bioMérieux, simplifies infectious disease testing by innovating easy-to-use clinical molecular diagnostic solutions that provide fast and accurate results. Our mission is simple and important: to help make the world a healthier place.

---

### **Biosystems Inc.**

**Booth no. B9**

BIOSYSTEMS runs business on import of biomedical research instrument and clinical equipment. We can provide professional sales for product demonstration and promotion, our sales covers whole Taiwan area, includes north, central and south area sales office, from hospital to home care.

---

### **Boehringer Ingelheim**

**Booth no. A1**

Boehringer Ingelheim, Taiwan has served in Taiwan since 1975 as a healthy issue solution provider with nearly 300 employees and 5 different offices located in north, central and south Taiwan. With core business in Human Pharm and Animal Health, we support patients in the area of the respiratory, oncology, diabetes, cardiovascular, Parkinson's disease, fibrosis disease, HIV and more. Boehringer Ingelheim, Taiwan has become the fastest growing and most innovative company within the industry in recent years.

---

### **Brojaw Inc.**

**Booth no. B6**

Brojaw Incorporation, founded in 1992, is a Taiwanese Medical Device Trade Company specializing in devices for respiration and sleep, providing services in hospitals and home care all over Taiwan for more than 20 years. While maintaining a spirit of excellence, we expect to offer our customers a supportive medical network.

---

### **Broncus Medical**

**Booth no. C8**

Broncus Medical is dedicated in diagnosing and treating lung diseases. LungPoint and Archimedes navigation systems can effectively and accurately locate, access and eventually diagnose and treat lung lesions no matter where the lesion is located in the lung. InterVapor offers a non-surgical, non-implantable treatment technology for emphysema and lung cancer.

---

---

**Chiesi Farmaceutici S.p.A. / Orient EuroPharma Co., Ltd.****Booth no. B17**

An Italian excellence, exporting in >70 countries and with a direct presence in 27, Chiesi researches, develops and markets innovative drugs in the respiratory, specialist and rare disease areas. Its R&D organization is headquartered in Parma (IT), and integrated with 6 other R&D groups in France, USA, UK, Sweden and Denmark.

Orient EuroPharma is an innovative global science based company and is active in health, nutrition, pharmaceuticals and cosmeceuticals. Founded in 1982, OEP was officially listed in the Taipei Exchange in 2003. OEP also established subsidiaries: OrientPHARMA and OP NanoPharma, focusing on new drug development and manufacture, to integrate pharmaceutical R&D, clinical development, manufacture and marketing.

---

**Chugai Pharma Taiwan Ltd.****Booth no. B23**

As a member of Chugai Pharmaceutical, Chugai Pharma Taiwan is dedicated to serving patients' needs while providing high quality innovative drugs in order to contribute to the Taiwan medical environment.

---

**Cook Medical****Booth no. B24**

Since 1963, Cook Medical has worked with physicians to develop minimally invasive technologies. Today we offer medical devices, biologic materials, biopharmaceuticals, and cellular therapies to deliver better patient outcomes more efficiently. We remain family owned so we can focus on what we care about: patients, our employees, and our communities. Visit [www.cookmedical.com](http://www.cookmedical.com).

---

**Daiichi Sankyo Co., Ltd.****Booth no. B19**

Daiichi Sankyo is a global pharmaceutical company with corporate origins in Japan. We provide innovative products and services in more than 20 countries around the world. With more than 100 years of scientific expertise, our company draws upon a rich legacy of innovation and a robust pipeline of promising new medicines to help patients.

---

**Eli Lilly and Company****Booth no. B27**

Lilly is a global healthcare leader that unites caring with discovery to make life better for people around the world. We were founded in 1876 by a man committed to creating high-quality medicines that meet real needs, and today we remain true to that mission. To learn more, visit [www.lilly.com](http://www.lilly.com). P-MKT-ONC-013-18-Oct-03

---

**European Respiratory Society****Booth no. C1**

ERS is an international organisation that brings together physicians, healthcare professionals, scientists and other experts working in respiratory medicine. We are one of the leading medical organisations in the respiratory field, with a growing membership representing over 160 countries. Our mission is to promote lung health in order to alleviate suffering from disease and drive standards for respiratory medicine globally. Science, education and advocacy are at the core of everything we do.

---

**Fisher & Paykel Healthcare****Booth no. B11**

Fisher & Paykel Healthcare's involvement in healthcare started in the late 1960s. we changed the way the world delivers respiratory humidification to critical patients in hospital, and were the first organisation in the world to make a humidifier specifically for use in the treatment of patients with obstructive sleep apnea.

---



---

### **Gilead Sciences, Inc.**

**Booth no. B3**

Gilead Sciences, Inc. is a research-based biopharmaceutical company that discovers, develops and commercializes innovative medicines in areas of unmet medical need. The company strives to transform and simplify care for people with life-threatening illnesses around the world. Gilead has operations in more than 35 countries worldwide, with headquarters in Foster City, California.

---

### **GSK**

**Booth no. A2**

GSK is a science-led global healthcare company with a special purpose: to help people do more, feel better, live longer. At APSR we will present the latest evidence and data with you to share the journey in our relentless pursuit for better breathing.

---

### **Japan Clean Air Association**

**Booth no. C6**

The Japan Clean Air Association (JCAA) was founded in 2016 to distribute the knowledge about ambient air- and indoor air-associated health problems and encourage and support the activities to reduce air pollution levels in collaboration with pharmaceutical company, industry, government office and academic association including the Japanese Respiratory Society.

---

### **Manifold Health Tech, Inc.**

**Booth no. C5**

COPD Smart Care is a total solution based on evidence-based guideline, including Apps for patient's self-care, caring team management support, and inter-facility communication support. The system records the personal disease related data, such as daily activity, respiration status, and environment data. Those data will be sent to backend system for analysis and provide the healthcare professional best strategy for intervention.

---

### **Merck Sharp & Dohme (I,A,) LLC, Taiwan Branch**

**Booth no. B21**

For more than a century, MSD has been inventing for life, bringing forward medicines and vaccines for many of the world's most challenging diseases. Today, MSD continues to be at the forefront of research to deliver innovative health solutions and advance the prevention and treatment of diseases that threaten people and animals around the world.

---

### **Mundipharma Singapore Holding Pte Limited**

With regional headquarters in Singapore, offices across Asia-Pacific, Latin America, the Middle-East and Africa, and a global network, Mundipharma now touches the lives of patients in 128 countries. Since establishing its first entity in 1957, Mundipharma has created a strong legacy of alleviating suffering and improving patients' quality of life.

---

### **ndd Medizintechnik AG**

**Booth no. B25**

ndd Medical Technologies provides equipment for early and accurate diagnosis of lung disease. ndd's unique TrueFlow technology makes the EasyOne product line robust, highly accurate and easy to use. Spirometry, DLCO, Lung Volume and LCI testing is now available at the point of care.

---

### **Nonin Medical**

**Booth no. B5**

Nonin Medical makes *nonin*vasive measurements simple by developing technologies and products that are accurate, durable, easy and affordable. Nonin designs and produces pulse and regional oximeters, capnographs, sensors and software. We sell to healthcare professionals and consumers globally, and we have more than 300 OEM partners worldwide. Learn more: [nonin.com](http://nonin.com).

---

**Novartis Taiwan Co., Ltd****Booth no. A4**

Novartis provides innovative healthcare solutions that address the evolving needs of patients and societies. Headquartered in Basel, Switzerland, Novartis offers a diversified portfolio to best meet these needs: innovative medicines, cost-saving generic and biosimilar pharmaceuticals and eye care. Novartis has leading positions globally in each of these areas.

---

**Nox Medical****Booth no. B7**

Nox Medical develops and manufactures medical devices for sleep diagnostics. The company is passionate to improve people's health by making sleep diagnostics more simple, efficient and comfortable in all patient groups plus using technology to evolve the field of sleep medicine. Nox Medical currently markets and sells the Nox T3 Sleep Monitor, Nox A1 PSG System and the Noxturnal Software.

---

**Olympus****Booth no. B20**

Olympus, which established in the microscope field in 1919, eventually earned widespread praise for its mastery of the highly demanding art of lens-polishing. Olympus' well-known optical technologies for cameras and endoscopes.

---

**Ono Pharmaceutical Co., Ltd./ Bristol-Myers Squibb****Booth no. B13**

ONO was established in 1717 as an apothecary in Osaka, and are in active pursuit of becoming an R&D-oriented global pharmaceutical company specialized in particular areas. We will continue being the most passionate champion dedicated to man's fight against disease and pain, together with patients, their families, and healthcare providers.

Bristol-Myers Squibb is a differentiated company, led by our unique BioPharma strategy that leverages the reach and resources of a major pharma company paired with the entrepreneurial spirit and agility of a biotech firm. We work every day to deliver innovative medicines for patients with serious and life-threatening diseases.

---

**PENTAX Medical Singapore Pte Ltd.****Booth no. B1**

PENTAX Medical is a division of HOYA Group delivering endo-imaging solutions and a globally diversified company with R&D innovation and manufacturing centers in Japan, Europe and the United States. Through leading-edge optical technologies, PENTAX Medical provides the most advanced clinically relevant endo-imaging solutions. Together with comprehensive customer service offerings, PENTAX Medical collaborates with customers worldwide to create long-term partnerships and customer satisfaction.

---

**Pfizer****Booth no. B18**

Founded in 1962, Pfizer is one of the first multi-national pharmaceutical companies established in Taiwan. Over the last 56 years, Pfizer Taiwan collaborates with government agencies, health care providers, medical associations, patients groups, and local communities to provide access to effective, reliable and affordable healthcare products. We aspire to be working together for a healthier world.

---

**ResMed****Booth no. B10**

ResMed, a world-leading connected health company with more than 5 million cloud-connected devices for daily remote monitoring. Its award-winning devices and software solutions treat sleep apnea, chronic obstructive pulmonary disease and other respiratory conditions. ResMed strives to improve patients' quality of life, reduce the impact of chronic disease and save healthcare costs.

---





---

### **Roche Products Ltd.**

**Booth no. B14**

The Roche Group, headquartered in Basel, Switzerland, is active in over 100 countries and in 2017 employed about 94,000 people worldwide. Genentech, in the United States, is a wholly owned member of the Roche Group. Roche is the majority shareholder in Chugai Pharmaceutical, Japan. For more information, please visit [www.roche.com](http://www.roche.com).

---

### **Standard Health Medical Co., Ltd**

**Booth no. B26**

Standard Health has been marketing and distributing medical products since 1991. We are one of importing company in Taiwan and major on introducing innovative medical products into Taiwan hospital market. We have a 10 sale personnel regularly marketing active calls on hospitals and clinics. At right now we are the sole Taiwan agent for Trudell Medical international company in Canada.

---

### **Synmosa Biopharma Corporation**

**Booth no. B16**

Synmosa Group, established in 1980, is a specialty pharmaceutical corporation that has long standing strength in niche technology platforms: MDI, hormones, nasal sprays, effervescent tablets, and granules; in addition, we excel in figured therapeutic areas: cardiovascular, respiratory, sex hormones, urology, and oncology.

---

### **Taiwan Shionogi (TS) & Co., Ltd.**

**Booth no. B4**

Shionogi & Co., Ltd., based in Osaka, Japan, was established on March 17th, 1878. Shionogi has continuously supplied superior pharmaceuticals to people everywhere, based on its company policy to “constantly strive to provide medicine of the best possible kind essential for protection of the health of the people.

---

### **The Japanese Respiratory Society**

**Booth no. C3**

The Japanese Respiratory Society (JRS) has currently approximately 12,000 members. Since Annual Meeting of 2001, the JRS began integrating international programs, which have been continuing with exchange and liaison with the Asian Pacific Society of Respiriology, the American Thoracic Society and the European Respiratory Society. The 10 JRS assemblies have been working actively. “Respiratory Investigation” is an official journal, published in English. The journal accepts contributions from nonmembers.

---

### **TTY Biopharm Company Limited**

**Booth no. B22**

TTY Biopharm Company Limited is active in development and manufacturing of special drug formulations focus on Liposomal products and Microsphere platform with unmet medical needs (patentable or high barrier) and new drugs. TTY is mainly focused on R&D, production and commercial in the anti-cancer and anti-critical infective fields.

---

### **Vitalograph Ltd.**

**Booth no. B2**

Vitalograph is a world leading provider of outstanding quality cardio-respiratory diagnostic devices, clinical trials and medical equipment servicing with over 50 years experience. Our extensive respiratory range includes PFT equipment, spirometers, peak flow meters, COPD screeners, asthma monitors, e-diaries, inhaler trainers and resuscitation devices.

---



# INDEX OF AUTHORS

A		
A Muthukumar, Umadevi	AP022, AP616	Akulian, Jason
Abdul Rahman, Rozanah	AP316	Alaga, Arvindran
Abdul Rani, Mohammed Fauzi	AP050	Alatas, Muhammad Fahmi
Abdul Rashid, Rozana	AP338	Albarico, Larrie-Lyn
Abe, Shuichi	AP588, AP591	Albay Jr., Albert
Abe, Yoshihisa	AP628	Ali, Taskina
Abe, Yuki	AP588	Alkassar, Yasser
Abeygunawardane, Niroshan	AP038, AP166	Almaashari, Rehab
Abiden, Nor Amira	AP352	Altree, Thomas
Abisheganaden, John	AO102, AP222	Aman, Makbul
Abisheganaden, John Arputhan	AO030	Amano, Masako
Adamos, Emmylou	AO150	Amarasinghe, Kavinda
Adrian, Kee Chin Leong	AP476	Amimoto, Hisanori
Afidjati, Hera	AP562	Amin, Muhammad
Agarwal, Gyanendra	AP116	Amin, Zulkifli
Aggarwal, Bhumika	AO188, AP064, AP386	Amir, Muzakkir
Aguila, Eliezer James	AP583	Amirmalek, Shervin
Agus Setyawan, Ungky	AP308	Amirullah, Lily
Agustin, Heidy	AO179, AP320	An, Chang Hyeok
Ahmad, Asyif Fairus	AP643	An, Jin Young
Ahmad, Mohammad Mohiuddin	AP446	An, Omer
Ahmad, Sohail	AO213, AP348	Anantham, Devanand
Ahn, Jin Seok	AP529	Andarini, Sita
Ahn, June Hong	AP272	Anderson, Gary
Ahn, Kangmo	AO028	Anderson, Sandra D
Ahn, Myung-Ju	AP529	Ando, Akira
Ahn, Song Vogue	AP114	Ando, Masaru
Ahn, Sung	AP452	Ando, Nobuhisa
Ai, Xin	AO039	Andres, Sergio
Akaba, Tomohiro	AP057, AP339	Andriyadi, Rohmat
Akagi, Kazumasa	AP543	Angelia, Ferina
Akahane, Junpei	AP267	Anggrainy, Fenty
Akaike, Takaaki	AP099, AP329	Anh, Nguyen Dat
Akamatsu, Taisuke	AO143, AP421	Aniwidyaningsih, Wahyu
Akasaka, Keiichi	AP197	Añonuevo, Ethel
Akiba, Hisaya	AP011	Antonius Surbakti, Andreas
Akihiko, Gemma	AP188	Antonyuk, Marina
Akimoto, Takahiro	AP121	Anusorn, Renukarn
Akira, Masanori	AO082	Anzuetto, Antonio
Akkaya, Orhan	AP198	Aoki, Yuma
		Aoki-Saito, Haruka

Aoki-Saitoh, Haruka	AO159	Ban Yu - Lin, Andrea	AP321
Aoshima, Masahiro	AP376	Bancoro, Wivina	AP140, AP141, AP627
Aphridasari, Jatu	AP275, AP422	Bandara, Asela	AP038, AP165, AP166, AP251, AP485, AP486, AP492, AP501
Apostol, Alfred	AP068, AP203	Bandara, Sakalasooriya	AP166
Apostol, Archie	AP065	Bando, Masashi	AP410, AP508
Arai, Hidenori	AP219, AP336	Bandyopadhyay, Arun	AP128
Arai, Ryosuke	AP652	Banzon, Aileen	AO131
Arai, Toru	AO082, AP504	Banzon, Aileen G. Banzon	AP442
Arakawa, Kenichi	AP652	Bardin, Philip	W05-2, AO110
Arakawa, Ritsuko	AP296	Barskova, Lyudmila	AP482
Arakawa, Toshinao	AP256	Bartolome, Sonja	S04-2, S20-2
Arce, Mark James	APL008	Baskoro, Hario	AO158
Areemit, Jringjai	AP484	Baune, Bernhard	AP171
Arief, Erwin	AO007, AP559	Baylon, Ma. Luisa	AP403
Ariyoshi, Koya	AO128, AP277, AP384, AP595	Beck, James	S18-2
Arnado, Caroline Shane	AO121	Beevi, Jaleelah	AO144
Arputhan, Abisheganaden John	AP152	Bell, Alison	W05-6
Asada, Kazuhiro	AP421	Beltrame, John	AO154
Asai, Kazuhisa	AO020	Benedicto, Jubert	AP468
Asakawa, Takeshi	AP271	Bennoor, Kazi Saifuddin	AP119
Asami-Noyama, Maki	AO072	Bermejo, Jesse	AO181
Ashino, Shigeru	AP057	Bessho, Yusuke	AP080
Ashok, Mahashur	AP116	Bhatta, Narendra	AP016
Aslan, Anez	AP321	Bhattacharyya, Pallav	AP494
Asril, Burhan	AP566	Bhattacharyya, Parthasarathi	AO194, AP002, AP494
Assam, Pryseley N.	AO199	Bian, Xiqing	AP345
Astuti, Puji	AP320	Biason, Melissa	AP036
Atikawati, Desilia	AO003	Bilston, Lynne	AP613
Attar, Mahmud Masum	AP259	Bin, Hwangbo	W02-3, W08-1
Atukorala, Atukorala Arachchige Edward Nuwan	AP394	Bingdi, Yan	AP377
Avellana, Florangel	AP248	Binh, Nguyen Gia	AP137, AP472
Azuma, Arata	AP163	Bispo, Karen Anne	AP194, AP405, AP564
<b>B</b>			
Baba, Michie	AP091	Bisquera, Ruby Rose	AP107
Badurdeen, Anwer	AP279	Blanco-Limpin, Ma. Encarnita	AO131, AP405, AP442
Bae, Yu-Kyung	APL009	Bodinayake, Champica K.	AP265
Baek, Seungjae	AP127	Boğa, Salih	AP295
Bai, Chong	AP028, AP029	Boonya-Anuchit, Patchara	AO141
Bai, Chunxue	W11-1	Bowman, Rayleen	AO016
Bai, Yunping	AP428	Brown, Elizabeth	AP613
Bakhtiar, Arief	AP659	Bte Mohd Yusoff, Yusmarita	AO030
Balbastre, Joy Kristine	AP305	Buaron, Michelle Jane	AP036
		Bucad, Dave Benson	AP390
		Budiono, Eko	AP235, AP531

Budisatrio, Trisasongko	AO026
Bulathsinhala, Indeewari	AP647, AP648
Bultynck, Lieve	W05-3
Burhan, Erlina	S10-3, AO003, AO152, AO179, AO182, AP318, AP323, AP649, AP653
Burke, Peter	AP613
Bussell, Lauren	AP071
Butler, Jane	AP613

## C

C, Sagar	AP116
Cabrera, Glynn	AP297
Cabus, Charles Erwin	AP143
Cai, Kaican	AP212
Campbell, Jonathan D.	AP327
Campbell, Stuart	AO024
Canillas-Amancio, May Joy	AP194, AP442
Cao, Bin	S14-3
Cao, Liming	AP051
Cardoso, Wellington V.	S26-1
Cercado, Kaya Sharley	AP654
Chae, Eun Jin	AP175
Chai, Chee-Shee	AP108, AP292, AP425
Chai, Gin Tsen	AO030, AP621
Chan, Chung Leung Robin	AP018
Chan, Hiang Ping	AP035
Chan, John Noel	AP143
Chan, K.Arnold	AO049
Chan, Ka Pang	AP615
Chan, Pei-Chun	AO002
Chan, Swee Kim	AP619
Chan, Tat On	AP615
Chan, Yu-Jiun	AP631
Chang, Cheng Yu	AP158, AP477, AP478
Chang, Chia Hao	AP532
Chang, Chia-Chi	AO153
Chang, Chia-Hao	AP149
Chang, Chih-Hao	AP047, AP399, AP513
Chang, Gee-Chen	S24-2
Chang, Han-Yu	AP118
Chang, Hou-Tai	AO021, AP475
Chang, Hsiu Hui	AP052
Chang, Hsiu-Hui	AP056
Chang, Huang-Chih	AP142, AP214, AP633

Chang, Jee Won	AP274
Chang, Jung Hyun	AP395
Chang, Kai-Chieh	AP289
Chang, Ko-Wei	AP138, AP181, AP263, AP609
Chang, Lih-Chyun	AP537
Chang, Lih-Yu	AP027, AP149, AP358
Chang, Long-Chung	APL017
Chang, Mei-Ying	AP477
Chang, Ming-Che	AO202
Chang, Po-Jui	W07-3
Chang, Rui Ying Ruth	AP222
Chang, Shih-Lun	AP232
Chang, Shin-Fang	AP289
Chang, Shin-Lung	AP158
Chang, Ting-Chia	AP280
Chang, Tzu-Hua	AO209
Chang, Wei-An	W11-9, AO017, AO126, AP005, AP365
Chang, Wei-Yuan	AP534
Chang, Ya-Chun	AP142, AP463
Chang, Ya-Ting	AP136, AP459, AP460
Chang, Yeun-Chung	S32-3
Chang, Yih-Leong	AO173, AP227
Chang, Yi-Hsuan	AP240
Chang, Yoosoo	AP380
Chang, Youjin	AO134
Chang, You-Lung	AP637
Chang, Yu-Chuan	AP462
Chang, Yu-Ling	AO192
Chang, Yun Sil	S26-2
Chang, Yu-Ping	AP072, AP077, AP142, AP424
Chao, Jie	AO073, AP481
Chao, Katelyn	AP024
Chao, Tung-Ying	AP424, AP633
Chao, Yin-Kai	W09-3
Chapman, Kenneth R.	S01-3
Chatsuwan, Tanittha	AO167
Chatterjee, Kajal	AP494
Chau, Ngo Quy	AOL002, AP044
Chaudhry, Dhruva	AO214
Che Sayuti, Suzila	AP074, AP638
Chen, Alex	AO104
Chen, Ben	AP024

Chen, Biqi	AP481	Chen, Peng	AP117, AP244, AP278, AP572, AP573, AP607
Chen, Cen	AP051	Chen, Qiaoli	AO142
Chen, Chao-Kun	AP232	Chen, Qiu	AP026
Chen, Chia-Hung	W02-4, W08-4, AO012, AO014, AO103, AO107, AP349	Chen, Rongchang	S18-4, AO045, AO199
Chen, Chia-Min	AO126	Chen, Rong-Chang	AP187
Chen, Chi-Ching	AP130	Chen, Ruchong	AO187, AO189
Chen, Chih-Hung	AP568	Chen, Shujing	AO061
Chen, Chi-Hsien	AP160	Chen, Sabei	AO127
Chen, Chih-Yu	AO103, AP130	Chen, Ting-Wen	AP424
Chen, Ching-Hsien	S34-3	Chen, Wan-Ling	AP157
Chen, Chin-Ming	AP457	Chen, Wei-Cheng	AP130
Chen, Chiu-Fan	APL006	Chen, Wei-Chun	AO103
Chen, Chiung-Zuei	AP118, AP441	Chen, Wei-Hsun	AP138, AP263, AP385
Chen, Chuan-Mu	AO204	Chen, Wei-Lin	AO025
Chen, Chung-Yu	AO041, AP090, AP240, AP416, AP637	Chen, Wen-Wen	AO002
Chen, David	AO197, AP086, AP407	Chen, Xiaobo	AO010
Chen, Duan-Rung	AP475	Chen, Xiaojuan	AO170
Chen, Fengjia	AP503	Chen, Xin-Yi	AP100
Chen, Fengwei	AO089, AP614	Chen, Yan	AO023, AO114
Chen, Hai Juan	AP338	Chen, Yen-Fu	AP090, AP240
Chen, Hong-Cheng	AP072	Chen, Yen-Hsu	AO008
Chen, Hsuan-Yu	AO173	Chen, Yen-Lin	W12-8
Chen, Hung Chen	AP470	Chen, Yen-Wei	AP200, AP530
Chen, Hung Ju	AP391	Chen, Yifan	AO115
Chen, Hung-Cheng	AP142	Chen, Yi-Jen	APL003
Chen, I-Yu	AO178	Chen, Ying	AP066
Chen, Jin-Shing	W03-3, S13-3, S25-1, AP551	Chen, Ying-Yin	AO041
Chen, Jung Yueh	AP230	Chen, You-Yi	W12-9, AP139
Chen, Kuan-Yu	AP227, AP537, AP551	Chen, Yu	W11-7, AO010
Chen, Kuang-Yu	AO186, AO202, AP343	Chen, Yuh-Min	AO047, AP207
Chen, Kun	AO089	Chen, Yu-Ju	AO196, AP462
Chen, Li-Chin	AO096	Chen, Yu-Mu	AP072, AP077, AP136, AP214, AP459, AP460, AP463, AP470, AP555
Chen, Li-Hsiang	APL017	Chen, Yung-Che	AO092, AP285, AP424, AP431, AP633
Chen, Likwang	AP133	Chen, Yung-Fu	AP620
Chen, Lin	AO114	Chen, Yung-Hsuan	W12-6
Chen, Lingzhu	AP115	Chen, Yunn-Jy	AO087
Chen, Lun-Che	AO060	Chen, Yuqing	AO089
Chen, Mei-Chuan	AO025	Cheng, Aristine	S22-3
Chen, Mei-Yin	AP185, AP190	Cheng, Chieh-Chih Estelle	W05-5
Chen, Minghui	AP031	Cheng, Hao	AP538
Chen, Pau-Chung	AO074, AP453	Cheng, Ka Chun	AO097

Cheng, Kuang-Hua	AO178	Cho, Sung Bae	AP524
Cheng, Meng-Hsuan	AO058, AP383	Cho, William Chi-Shing	AO208
Cheng, Shih-Lung	S01-1, AO192, AP433	Cho, Young-Jae	AP070
Cheng, Shin-Lung	AP477	Cho, Yu Ji	AP299
Cheng, Shu-Huai	AP015	Choe, Kang Hyeon	APL014
Cheng, Suet Lai	W04-3	Choi, Augustine M.K.	PL1
Cheng, Wen-Chien	AO012, AO014, AO103, AO107, AP349	Choi, Byoung Whui	AP311
Cheng, Yi-Ching	AP090	Choi, Eun Young	AP272
Cheng, Yuan	AP409	Choi, Hayoung	AP417
Cheong, Dorothy H. J.	AO071	Choi, Hye Sook	AP439
Cheung, Sheung-Ying	AP411	Choi, Jae Chol	AP311
Cheung, Yip Fung	AO027	Choi, Jae Hong	AP599
Chhar, Bunpaul	AP368	Choi, Jae-Sung	AP202
Chi, Ching-Chi	AP015	Choi, Juwhan	AP159
Chi, Nguyen Van	AP137, AP472	Choi, Minhyeok	AP019
Chi Ching, Gan	AP334	Choi, Sue In	AP650
Chia-Ling, Chang	AP221	Chokhani, Ramesh	AP016
Chian, Chih-Feng	AO153, AO192	Chong, Inn-Wen	AO058, AO207, AP383, AP557
Chiang, Chen-Yuan	S10-1	Choo, Kah Lin	AO198
Chiang, Chia-Yun	AP024	Chou, Chun-Liang	AP360
Chiang, Hung-Che	AP160	Chou, Hwei-Ling	AP592
Chiang, Li-Huei	AP385	Chou, Kun-Ta	S06-1
Chien, Jung-Yien	W01-3, AO008, AO060, AO166, AP139	Chou, Teh-Ying	S05-1
Chien, Kuo-Liong	AP449	Chowdhury, Avijit	AP494
Chien, Shun-Tien	AP313	Chowdhury, Hasina Akter	AP446
Chien, Ying-Chun	W12-7, AO129, AP139	Chu, Chan-Ching	AP158, AP478
Chien-Hao, Lai	AP555	Chu, Chien-Min	AP135
Chien-Hung, Chiu	AP396	Chu, Dachen	AP160
Chin, Chien-Hung	AO092, AP285, AP431	Chu, Shi-Jye	AO077, AP466
Chin, Kazuo	PL3, S06-2	Chu Thi, Hanh	AP044
Chin, Reon Yew Zhou	AP363	Chua, Ai Ping	AP286
Ching, Yu-Yun	AP052, AP056	Chua, Jamie	AP229, AP468
Ching-Tzu, Huang	AP396, AP456	Chuang, Li-Pang	S28-1, AO202
Chinh, Luong Quoc	AP137, AP472	Chuang, Min-Chun	AP225
Chirakalwasan, Naricha	W04-4	Chuang, Shin-Ping	AP478
Chiu, Harold Henrison	AP468	Chun, Eun Mi	AO035
Chiu, Hsin-Wei	APL006	Chun, Victor	AO032
Chiu, Kuo-Chin	AO186, AP024	Chung, Chi-Li	AO025
Chiu, Kuo-Liang	W10-1	Chung, Ching-Hu	APL013
Chiu, Tzu-Hsuan	AP609	Chung, Fu-Tsai	AP047, AP360
Chiu, Yen-Ling	AO178	Chung, Kian Fan	S30-1
Chiung-Hung, Lin	AP505	Chung, Kuei-Pin	W11-10, AO155
Chiyoko, Kouno	AP208	Chung, Kyung Soo	AO051, AP473
		Chung, Wei-Sheng	AP155, AP250, AP620

Chung-Kan, Peng	AP454
Ciftci, Fatma	AP198
Ciledag, Aydin	AP198
Clark, Vanessa L.	AO065
Colon, Fel Angelie	AP314, AP654
Cong, Shan	AP518, AP556
Cookson, William	S33-1
Cowl, Clayton T.	S02-4
Crestani, Bruno	AO191
Crotty Alexander, Laura	AO032
Cruz, Timmons	APL008
Cui, Fei	AP542
Cui, Hongxin	AP428
Cui, Liwei	AO039
Cui, Yubao	AP067
Cushinotto, Lisa	AO057

## D

Daba, Gladys Judynil	AP083
Dabrera, Thushani	AP265
Dac, The Pham	AO015
Dago-Oc, Frances Jane	AP268
Dai, Kaili	AP129
Dai, Liwan	AP041
Dai, Minhui	AO050
Daley, Charles Lamar	S10-2
Dance, Lucy	AP003
Das, Aaratrika	AP116
Date, Hiroshi	S27-2
Datukon, Sayyid Ronron	AO135, AP036
David-Wang, Aileen	AP122
De Guia, Eloisa	AO150
De Guia, Teresita	AP083, AP194, AP324, AP405, AP564, AP651, AP664, AP666
De Guzman-Pamplona, Aleli	AP249
De Luna, Arlene	AP564
De Vera, Chona	AO150
Defu, Li	AO117
Dela Cruz, Annie May	AP068, AP203
Dela Cruz, Verlene Anne	AP293
Dela Roca, Annabelle	AP194, AP405
Delos Reyes, Virginia	AP284
Deng, Pengbo	AO168
Dey, Debkanya	AO194, AP002, AP494

Dey, Ratna	AP494
Dhaliwal, Satvinder	AO088
Dharmadasa, Sajani	AP038, AP165, AP485, AP486, AP492
Di, Xin	AP556
Di, Yuan-Pu (Peter)	W01-2
Diaz, Dina	AP284
Dikkipitiya, Ranil	AP279
Dilangalen, Omohaire	AO131, AP194, AP324, AP651
Dilokthornsakul, Piyameth	AP327
Dimabuyu, Marian	AP393
Dinendra, RMA	AP394
Dirgantara Putra, Aryo	AP392
Divinagracia, Ruth	AP665
Dizon Jr, Rodolfo	AP220, AP293
Djharuddin, Irawaty	AO007, AO152, AO182, AP559
Djasri, Hanevi	AOL001
Djazmati, Wagih	AP388
Dobashi, Kunio	AO159
Dokuni, Ryota	AO046
Domen, Hiromitsu	AP199
Dong, Haoran	AP109
Dong, Hui	AP614
Dong, Jinrui	AO071, AO113
Dong, Xiaoying	AP212
Dotake, Yoichi	AP410
Dou, Shuang	AO039
Drew, Richard	AP265
Driehuys, Bastiaan	S03-3
D'Souza, Jason Martin	AP152
Du, Xin	AP120
Duana Putri, Priska	AO184
Dy-Agra, Guinevere	AP400, AP403

## E

Ebana, Hiroki	AP043, AP506
Echigoya, Kazutaka	AP628
Eckert, Daniel	AP613
Edakuni, Nobutaka	AO072
Edriyenti, Elsis Mareta	APL010
Eekelen, Anke van	W05-3
Effendi, Wiwin	AO046
Efiyanti, Christy	AO062, AP587



Elliott, Mark William	W04-1, S06-3
Endo, Yoshinari	AO143, AP421
Eng, Philip	S07-3
Eng Liang, Tan	AP643
Enomoto, Yasunori	AP539
Enteria, Mary Ann	AP639
Eom, Jung Seop	AP042
Er, Hong-Ping	AP507
Ermayanti, Sabrina	APL016
Erol, Serhat	AP198
Esa, Nurul Yaqeen	AP050
Evseeva, Galina	AP054, AP570, AP571

## F

Faguang, Jin	AP493
Fairuz, Aulya	AP242
Faisal, Fahidah	AO007
Fajarwati, Ika	AP649, AP653
Falhammar, Henrik	AP290
Fan, Hung-Jen	AP358
Fan, Lichao	AP123
Fan, Wei-Tsung	AP478
Fang, Hsin-Yueh	AP138, AP263
Fang, Tien-Pei	AP015
Fang, Wen-Feng	AO192, AP072, AP136, AP142, AP151, AP214, AP424, AP459, AP460, AP463, AP470, AP633
Fang, Ying	AP444
Fang, Ying-Tan	AP072
Fang, Ying-Tang	AP142, AP463
Fang, Yun	AO157
Fauvel, Simon	AP018
Feng, Dingyun	AP172, AP657, AP658
Feng, Jia-Yih	AP631
Feng, Siyang	AP212
Feng, Yun	W11-5, AO174, AP528
Flenaugh, Eric	AO104
Fong, Alvin Hong-Wai	AO208
Fong, Kwun	W11-4, S02-1, AO016
Fordiasiko	AO184
Francia, Marie Belle	AP393
Frankel, Anthony	AP170
Frat, Jean-Pierre	S15-3, S19-2
Fu, Ken Hui	AP656

Fu, Peng	AP031
Fu, Pin-Kuei	S09-3
Fu, Xiuhua	AO210, AP009, AP312
Fu, Yingyun	AP053, AP580
Fuad Hadi, Abdul	AP569
Fujii, Hiroyuki	AP154
Fujii, Mitsuhiro	AP236, AP545
Fujikawa, Yasunori	AP611
Fujikura, Yuji	AP137, AP472
Fujimoto, Daichi	AP584
Fujimoto, Yukari	AP080, AP300, AP401
Fujino, Naoya	AP099
Fujino, Yoshihisa	AP271
Fujisawa, Yuri	AP061, AP488
Fujita, Akihisa	AP201
Fujita, Jiro	AO059, AO163, AP598
Fujita, Kohei	AP213, AP241, AP567, AP608
Fujita, Mariko	AP300
Fujita, Masaki	AP091, AP095, AP502, AP560, AP586
Fujiwara, Hiroyuki	AP533
Fukuda, Hayato	AP346
Fukuda, Yosuke	AP073
Fukuhara, Atsuro	AP177, AP195, AP512
Fukui, Motonari	AP547
Fukunaga, Kentaro	AO036
Fukuoka, Mizuki	AP208, AP660
Fukushi, Isato	AO033
Fukushima, Yasutsugu	AO193, AP243, AP522, AP554
Fung, Timothy	AP411
Furui, Hidehiko	AO143
Furukawa, Syotaro	AP199
Furukawa, Yutaka	AP089, AP093, AP298, AP622, AP624
Furuuchi, Koji	AO211, AP519
Furuya, Naoki	AP192

## G

Gabayoyo, Elaine Louise	AP314
Gabayoyo, Marinell	AP314
Galamay, John Ray	AP664, AP666
Galyant, Oxana	AP570
Gan, C. C.	AO144
Gan, Chu Ying	AO030



Gao, Beili	AO174
Gao, Guoying	AO045
Gao, Rong	AP117, AP521
Gao, Xiwen	AP565
Gao, Yi	W11-8, AO037
Garcia, Geraldine	AO100
Garfin, Ana Marie Celina	AO181
Gatzoulis, Michael Athanasios	S20-1
Gaur, Vaibhav	AP016, AP335
Ge, Minghui	AP542
Gemma, Akihiko	AP182
Geng, Yongxin	AP542
George, Vineeth	AP613
Germar, Arnold	AO150
Gerodias, Ferdinand	AP036
Gerona, Amabelle	AO135
Ghosh, Rupak	AP494
Gibson, Peter Gerard	S30-2, AO065
Gil, Bomi	AP497
Gil, Hun-Il	AO206
Gil, Hyun-Il	AO028
Gilbert, Christopher	AO104
Gilbuena, Philip Hester	AP254, AP397
Goda, Shiho	AP154
Gogia, Dr Pratibha	AP273
Gogtay, Jaideep	AP016, AP335
Goh, Chee Yen	AP018
Gong, Juanni	AP253
Gonong, Joven	AP623
Gorme, Crestita	AO125
Go-Santi, Mercy	AP390
Goto, Hajime	AP106, AP423, AP519
Goto, Tetsushi	AP611
Goto, Yuki	AP541
Gotoh, Shimpei	S15-4
Gow, Chien-Hung	AO021, AP563
Goyal, Divesh	AOL004
Gozal, David	AO091
Gregorio, Richmond	AP036, AP390
Gu, Jincui	W11-12
Gu, Yan	W11-13, AO210, AP312
Guan, Weijie	AO045
Guancia, Adonis	AP535
Guedj, Emmanuel	AO095
Guno, Tri Hapsoro	AP310

Guo, Yi	AO042, AP528
Guo, Yue Leon	AP160
Gupta, Dinesh Chand	AOL004
Gupta, Pawan	AP304
Guzman-Banzon, Aileen	AP405
Gvozdenko, Tatyana	AP059
Gyotoku, Hiroshi	AP543

## H

Ha, Eun-Hey	AP585
Ha, Eun-Hye	AP461
Hadi, Dwi Rendra	AP323
Hagiwara, Koichi	AP410, AP508
Hagiwara, Osahiko	AP539
Haidong, Huang	AP034
Hamada, Akira	AP206, AP262
Hamada, Kazuki	AO072
Hamakawa, Yoko	AP085, AP412
Hamashima, Ryosuke	AP154
Han, Dan	AP148
Han, Dong-Woo	AP340
Han, Fang	W10-4
Han, Jin	AP028
Han, Li	AP347
Han, Qian	AP187
Han, Sung Koo	AO148
Han, Weihong	AP261
Han, Xinwei	AP037
Han, Xuemei	AP580
Han, Yeji	AP395
Han, Yuri	AO078
Hanafiah, Mohammad	AP520
Hanaoka, Kenji	AP361
Hanaoka, Masayuki	S04-1, AP267, AP500
Han-Chung, Hu	AP396, AP456
Handayani, Diah	AO001, AO146, AO179, AO182, AP323, AP605, AP649, AP653
Hang, Liang-Wen	AO192, AP620
Hanioka, Takashi	AP091
Hansuri, Nadthatida Hansuri	AP484
Hao, Yan	AP542
Hara, Kenichiro	AP173, AP498
Harada, Hiroaki	AO172, AP204, AP526
Harada, Naoko	AP001

Harada, Norihiro	AP011	Hew, Mark	AO065
Harada, Taishi	AP536	Hida, Yasuhiro	AP199
Haraguchi, Ryuta	AP341	Hidayat, Moulid	AO158
Haranaga, Shusaku	AO163	Hijikata, Minako	AO124
Harbuwono, Dante Saksono	AP310	Hikichi, Mari	AO215
Hariadi, Titus	AO136	Hillman, David	AO088
Harishchandra, Tolusha	AP394	Hinds, David	AO188, AP064, AP386
Harper, Richart	AO138	Hino, Mitsunori	AP182
Harsini, Harsini	AP275	Hirabae, Atsuko	AP325
Haruki, Kosuke	AP020	Hirabayashi, Ryosuke	AP584
Haryanto, Budi	AP649, AP653	Hirai, Jun	AO059, AO163, AP224
Hasan, Helmia	AO026	Hirai, Toyohiro	AO038, AP085, AP332, AP412
Hasegawa, Hanako	AP652	Hiraishi, Yoshihisa	AP103
Hasegawa, Koichi	AP412	Hiramatsu, Tetsuo	AO143
Hasegawa, Kouichi	AP298	Hirano, Tsunahiko	AO072
Hasegawa, Tsukasa	AO200	Hirano, Yuuta	AP174
Hasegawa, Yoshinori	AO124, AP382, AP515	Hiraoka, Noriyo	AP154
Hashimoto, Masao	AP030	Hirashima, Junko	AO140
Hashimoto, Midori	AP199	Hirata, Hirokuni	AO193, AP243, AP522, AP554
Hashimoto, Naozumi	W06-4, AO124, AP382, AP515	Hirata, Kazuto	AO020
Hashimoto, Shu	AO215	Hirose, Masaki	AP504
Hashimoto, Toru	AO211	Hirunyanitiwattana, Thitima	AO141
Hassan, Md Rashidul	AP119, AP446	Hisada, Takeshi	AO159, AP173, AP346, AP498
Hassan, Samia	AP119	Hisata, Shu	AP508
Hassan, Tidi	AP321	Ho, Chao-Chi	AP027, AP033, AP227, AP358, AP540, AP551
Hassan Bashri, Nurul Irfana Binti	AP348	Ho, Chung-Han	AP092
Hatta, Soekarno	AP569	Ho, Huong	AO119
Hayama, Noriko	AP236, AP545	Ho, James Chung Man	AOL003
Hayashi, Aeru	AP429	Ho, Te-Wei	AP125
Hayashi, Seiji	AO005, AO082, AO169	Ho, Ying Na	AP152
He, Baiting	AP025	Hodge, Sandra	AO154
He, Jianxing	AP542	Hojo, Masayuki	AO069, AO140, AP415
He, Jiasheng	AP172, AP658	Homma, Sakae	AO124
He, Ruoxi	AP581	Honda, Nahoko	AP339
He, Shengyang	AO019, AO112	Honda, Natsue	AP020
He, Xue	AO023, AO114	Honda, Noritaka	AP543
He, Zhengguang	AP009	Honda, Ryouichi	AP582
Heenagamage, Sumedha Samankantha	AP076, AP485, AP486	Honda, Yasuto	AP201
Hendriarini Mety, Susan	AP046	Hong, Chang	AP212
Heo, Minju	AP317	Hong, Goohyeon	AP552
Heraganahally, Subash	AO024, AP290	Hong, Ji Young	AP640
Herbert, Cristan	AO115		
Herth, Felix JF	S23-1		

Hong, Tse-Ming	AO173	Hsu, Wu-Huei	W12-2, AO012, AO014, AO107, AP349
Hong, Yoonki	AO078, AP640	Hsu, Ya-Ling	AP005
Honjo, Kokoro	AP303, AP306	Hsu, Ya-Shin	AP252
Honjo, Osamu	AP201	Hsueh, Po-Ren	AO008, AO060, AO166
Honma, Yuichiro	AP236, AP545	Htwe, Thidar	AP069
Horie, Takeo	AP088	Hu, Chengping	AO053, AO168, AP051
Horimizu, Yu	AP210	Hu, Haisheng	AP007, AP440
Horn, Leora	S21-1	Hu, Han-Chung	AP138, AP263, AP385, AP609
Hoshino, Tomoaki	S34-2	Hu, Mengyun	AO112
Hosoya, Kazutaka	AP584	Hu, Min	AP045
Hossain, Md Ali	AP119	Hu, Ming-Kuan	AO153
Hou, Dongni	AO061	Hu, Sung-Yuan	AP453
Hou, Gang	AO004	Hu, Xiaoyi	AP004
Hou, Hsin-Han	AO111, AP200	Hu, Xiaoyun	AP009
How, Chorng-Kuang	AO074, AP453	Hu, Yan	AO075
Hsai, Te-Chun	AP349	Hu, Yanbing	AP244, AP607
Hsia, Hai-Yen	AP478	Hua, Chung-Ching	AP135
Hsia, Te-Chun	AO012, AO014, AO107, APL013	Hua, Zhang	AO108
Hsiao, Chang-Chun	AO092, AP285	Huang, Allen Chung Cheng	AP467
Hsiao, Hsiu-Feng	AP469	Huang, Bo-Tsang	AP561
Hsiao, Hui-Yuan	APL017	Huang, Chao-Cheng	AP214
Hsiao, Tzu-Hung	AO173	Huang, Chihan	AP459
Hsiao, Yi-Han	AO080	Huang, Chi-Han	AP136, AP142, AP460, AP463
Hsieh, Adam	AP024	Huang, Chi-Hsien	AO044, AP181, AP467, AP609
Hsieh, Jeng-Yi	AP617	Huang, Chunchen	AP120
Hsieh, Ming-Shun	AO074, AP453	Huang, Chung-Chi	AP153, AP609
Hsieh, Min-Shu	AP563	Huang, Chun-Kai	W12-5, AP449
Hsieh, Vivian Chia-Rong	AO074, AP453	Huang, Chun-Sen	AP620
Hsiue, Tzuen-Ren	AP118, AP441	Huang, Chun-Ta	AP125, AP133
Hsiu-Feng, Hsiao	AP396, AP456	Huang, Chun-Yao	AP100
Hsu, Chia-Lin	AP227	Huang, Haidong	AP028, AP029, AP039, AP364, AP367
Hsu, Han-Shui	AP207	Huang, Hsiao-Fang	AO096
Hsu, Hsao-Hsun	S27-1	Huang, Hsin-Chieh	W09-4
Hsu, Hui-Ju	AO021, AP158	Huang, Hui-Lin	AP145
Hsu, Jeng-Yuan	AO192, AP433	Huang, Huimin	AO122, AP066
Hsu, Kelvin	AO009	Huang, Hung-Ling	AO058, AP383
Hsu, Nin-Chieh	AP146	Huang, Jei-Yie	AP449
Hsu, Ping-Chih	AP568	Huang, Jian-An	AO034
Hsu, Po-Kuei	W09-5	Huang, Jie	AO073
Hsu, Po-Yuan	AO092, AP285	Huang, Kai-Yin	AP460
Hsu, Tuan Jung	AP391		
Hsu, Wei-Chung	AP617		
Hsu, Wen-Hu	AP207		



Inoue, Shuhei	AP269	Iwasaki, Kentarou	AP429
Inoue, Takeo	AP048, AP192	Iwasawa, Satomi	AP298
Inoue, Takuya	AP032	Iwata, Yusuke	AP080, AP401
Inoue, Yasushi	AP429	Izawa, Maya	AP626
Inoue, Yoshikazu	AO005, AO082, AO169, AO191, AP179, AP504	Izumi, Hiroto	AP061, AP483, AP488
Inui, Toshiya	AP626	Izumi, Kiyohiko	AP636
Ip, Mary Sau Man	AOL003	Izumi, Shinyu	AO069, AO140, AP030, AP398
Irbah, Sarah Naura	AO001, AO146	Izumida, Mai	AP595
Irokawa, Toshiya	AP296		
Irshad, Mohamed Izudheen	AP371	<b>J</b>	
Isago, Hideaki	AP217	Jaen, Anjuli May	AP122, AP665
Isaka, Yuri	AP208, AP660	Jakobczak, Rachel	AO154
Isbaniah, Fathiyah	AO179	Jamjumrus, Lawan	AP480
Ishibashi, Yoko	AP091	Jane Sugiri, Yani	AP308
Ishida, Manabu	AO085, AP179	Jang, Jong Geol	AP272
Ishida, Tadashi	AO211	Jang, Yoonjung	AP301
Ishii, Haruyuki	AO085, AP179	Jarhyan, Prashant	AP437
Ishii, Hiroshi	AP095, AP502, AP586	Jayaram, Lata	AP270
Ishii, Satoru	AO069	Jenkins, Brendan	AO110
Ishii, Tomoya	AP032	Jeon, Byung Gwan	AP322
Ishikawa, Akira	AP080, AP300, AP401	Jeon, Jeong Hee	AP317
Ishimori, Ayako	AP011	Jeon, Kyeongman	AO028
Ishimori, Taro	AP217	Jeong, Byeong-Ho	AO028
Ishiyama, Yumi	AP332	Jeong, Ina	AP322
Iskandar, Harry	AO007	Jeong, Sunghwan	AP283
Iskandar, Harun	AP012, AP013, AP559, AP566, AP569	Jeong, Yi Yeong	AP299
Islam, Jahirul	AP070	Jeongbo, Park	AP575
Islam, Mohammad Aminul	AP446	Jerng, Jih-Shuin	AO096, AO132, AP132
Ismail, Ahmad Izuanuddin	AO213, AP050, AP348	Jersmann, Hubertus	AP171
Ismail, Nahlah Elkudssiah	AP348	Jf, Wu	AP209
Isono, Taisuke	AP215	Ji, Hongli	AP212
Ito, Akihiro	AO211	Jian, Shu-Fang	AO017
Ito, Ayaka	AP336, AP517	Jian, Wang	AO117
Ito, Hiroyuki	AP595	Jian, Wenhua	AP126, AP444, AP448, AP625
Ito, Isao	AP332	Jiang, Juan	AO168
Ito, Jun	AP011	Jiang, Mei	AO101, AP402
Ito, Kazuhiro	S30-3	Jiang, Neng	AP228
Ito, Kazuki	AP539	Jiang, Ping	AP009
Itoigawa, Yukinari	AP236, AP545	Jiang, Rong	AO073
Iwabuchi, Katsuyoshi	AP588	Jiang, Shan	AP082
Iwakura, Masahiro	AP089, AP093, AP622	Jiang, Yuan Yuan	AP546
Iwama, Eiji	AO040	Jiang, Zhiyi	AP657
Iwanaga, Takashi	AP341	Jiawei, Wei	AO106

Jia-Ying, An	AO190
Jie, Liu	AO081
Jie, Zhijun	AP009
Jin, Xin	AP556
Jin, Xingxing	AP369, AP370
Jingyi, Xu	AO117
Jin-Ping, Zheng	AO190
Jin-Yuan, Shih	AP221
Jo, Eun-Jung	AP042, AP019
Jo, Kyung-Wook	AP604, AP632
Jo, Taisuke	AP103, AP217
Jo, Yong Suk	AP430
Joh, Joon-Sung	AP322
Johari, Bushra	AP520
Johnston, Sonya	AP071
Joo, Hyonsoo	AP055
Jordan, Catherine	APL008
Ju, Jia-Shiuan	AP153
Ju, Sunmi	AP299
Juan, Yi-Hsiu	AP200, AP223
Julia, Hoeng	AO095
Jumpei, Akahane	AP500
Jung, Jae Woo	AP311
Jung, Jin Hee	AP114
Jung, Jiyoun	AO076
Jung, Jungim	AO076
Jung, Ki-Suck	AP127
Jung, Won Jai	AP650
Junling, Yang	AP377
JWA, Hyeyoung	AP610
JY, Chen	AP209

## K

K, Krishnaprasad	AP116
Kabo, Peter	AO136
Kadota, Jun-Ichi	AP303, AP306
Kadowaki, Norimitsu	AP032
Kadowaki, Takashi	AO091
Kaewketthong, Pentipa	AP162
Kagami, Ryogo	AP361
Kagawa, Tomoko	AO082
Kagaya, Yuki	AP628
Kagyo, Junko	AP652
Kakiuchi, Satoshi	AO128, AP595
Kakuta, Saki	AP401

Kakuwa, Tamaki	AO069, AP398
Kalra, Dr Sunny	AP273
Kambara, Tomohiro	AP204
Kamelia, Telly	AP310, AP662, AP663, APL011, APL015
Kamimura, Mitsuhiro	AP626
Kamiryo, Hiroshi	AP006
Kamitani, Keiko	AP091
Kan, Takamasa	AP303
Kanai, Osamu	AP213
Kanai, Tomohiro	AP184
Kanaji, Nobuhiro	AP032
Kanamori, Koichiro	AP315
Kanauchi, Naoki	AP527
Kanbara, Tomohiro	AO172, AP526
Kanehira, Masahiko	AO156
Kang, Eun Seok	APL014
Kang, Hsiao-Hsien	AO153
Kang, Hye Seon	AP497
Kang, Hyeran	APL014
Kang, Hyung Koo	AP337
Kang, Jian	AO004
Kang, Jieun	AP632
Kang, Junseok	AP575
Kang, Kyung Ho	AP159
Kang, Lae Hyung	AP218
Kanno, Masayuki	AO120
Kanno, Yuki	AP048, AP192
Kano, Ichino	AP020
Kao, Kuo-Chin	S15-2, AO192, AO202, AP138, AP181, AP263, AP385, AP396, AP456, AP609
Kao, Steven	S21-3
Kar, Sanjoy Kumar	AP259
Karapetyan, Elena I.	AP351
Kasagi, Satoshi	AP121, AP276
Kasai, Takahiko	AO082
Kasamatsu, Yu	AP611
Kashihara, Eriko	AP608
Kashiwa, Yozo	AP184
Kassim, Asiah	AP246
Katagiri, Masato	AP210
Kataoka, Yuki	S25-3
Katayama, Yuko	AP547



Katke, Prashant	AP116	Kibria, Anwarul Anam	AP359
Kato, Eishi	AO143	Kicic, Anthony	AO167
Kato, Motokazu	AP412	Kida, Hirotaka	AP048
Kato, Motoyasu	AO158, AO212, AP176	Kido, Takashi	AO011, AP271
Katsube, Othiro	AP020	Kikuchi, Kazuto	AP298
Katsuda, Rhinko	AP361	Kim, Beong Ki	AP096
Katsura, Hideki	AO031	Kim, Byeong Ki	AP326
Katurada, Masahiro	AP006	Kim, Byung-Keun	AP650
Kauczor, Hans-Ulrich	S32-1	Kim, Chang Ho	AP635
Kaushik, Neha	AP499	Kim, Chang-Hoon	AP019
Kawa, Yoshitaka	AP006	Kim, Changhwan	AP274, AP309, AP450, AP599, AP610
Kawabe, Rie	AP197	Kim, Chi Young	AP096, AP326
Kawachi, Hayato	AP584	Kim, Chong	AP327
Kawada, Tomoyuki	AP163	Kim, Doh Hyung	AP552
Kawagoshi, Atsuyoshi	AP089, AP093, AP622	Kim, Dongyu	AP417
Kawaguchi, Makoto	AP410	Kim, Eun Jin	AP353
Kawaguchi, Tomoya	AO020	Kim, Eun Sun	AP070
Kawai, Takeru	AO059	Kim, Han-Na	AP380
Kawakami, Akiko	AP210	Kim, Hee Jin	AP317
Kawamoto, Tamaki	AO020	Kim, Ho Cheol	AP134
Kawamura, Masafumi	AP219	Kim, Ho Jin	AP326
Kawamura, Tetsuji	AP361	Kim, Hojoong	AO206
Kawanami, Toshinori	AO011	Kim, Hwa-Jung	AP340
Kawanobe, Takeshi	AP208, AP660	Kim, Hyaе Young	W09-1
Kawashima, Satoru	AO036	Kim, Hye-Ryouн	AO148
Kawatsu, Lisa	AO181, AP636	Kim, Hyoungryoul	AO076
Kay Choong, See	AP363	Kim, Hyun Jong	AP378
Kaya, Akin	AP198	Kim, Hyung-Lae	AP380
Kayukawa, Takafumi	AP536	Kim, Jae Yeol	AP311
Kazuyori, Taisuke	AP174	Kim, Je Hyeong	AP096, AP326
Ke, Weiqi	AO122	Kim, Jin Woo	AP055
Ke, Zunfu	AP228	Kim, Jinhee	APL009
Kee, Adrian Chin Leong	AP363	Kim, Jung Soo	AP458
Kefang, Lai	AO066, AP514	Kim, Junghyun	AP322
Keicho, Naoto	AO124	Kim, Jung-Sun	AO028
Kelvin, Hsu	AP170	Kim, Jung-Yeon	APL001
Keng, Li-Ta	AP149	Kim, Jusang	AP127
Kenyon, Nicholas James	S34-1, AO138	Kim, Ki Uk	AP042
Khan, Ali Zamir	S25-2	Kim, Kiryeong	APL001
Khan, Mohammad Abdus Shakur	AP119	Kim, Kyu Yean	AP055
Khan		Kim, Kyung Chan	AP353
Khatkar, Rajesh	AP437	Kim, Kyung Hoon	AP102
Khatun, Hena	AP446	Kim, Mi Hyun	AP042
Khorani, Urvi	AP016, AP335	Kim, Minjeong	AP458
Ki, Min Seo	AP147		



Kim, Minsuk	AP452	Knysnova, Vera	AP059
Kim, Misun	AP599	Ko, Fanny	AP615
Kim, Sang-Ha	AP266	Ko, Huan-Jang	AO178
Kim, Sang-Heon	AP646	Ko, Jen-Chung	AP027, AP149, AP532, AP553
Kim, Se-Hee	AP509	Ko, Meng-Cheng	AP374, AP467
Kim, Seong-Jang	AP218	Ko, Yousang	AP309
Kim, Seung Hoon	AO018	Koarai, Akira	AP099, AP329
Kim, Shin Young	AO018	Koba, Hiroyuki	AP201
Kim, Soo Jung	AP380	Kobayashi, Aki	AP043, AP506
Kim, Sung Hyung	AP124	Kobayashi, Isao	AP315
Kim, Sung-Ho	AP184	Kobayashi, Kazuyuki	AO046, AP006
Kim, Tae Hwa	AP218	Kobayashi, Konomi	AP219, AP336, AP517
Kim, Tae Hyung	AP646	Kobayashi, Maiko	AP163
Kim, Tae-Ok	AP452	Kobayashi, Takehiko	AO005, AO169
Kim, Woo Jin	S11-2, AO078	Koesnoe, Sukamto	AO062
Kim, Woo Kyung	AP378	Koesoemoprodjo, Winariani	AP392, AP634, AP659
Kim, Ye-Jee	AO083	Koga, Yasuhiko	AO159, AP346
Kim, Yong-Hyun	AP497	Kogo, Mariko	AP584
Kim, Youn Seup	AP552	Koh, Hui Kai	AO102
Kim, Young	AP096, AP326	Koh, Jansen	APL004
Kim, Young Kyoon	AP010	Koh, Won-Jung	S22-2, S31-1, AO028
Kim, Young Ree	AP599	Kohei, Kawajiri	AP030
Kim, Young Sam	AO051	Kohno, Shigeru	S08-3
Kim, Young Whan	AO148	Koizumi, Koji	AO038
Kim, Yu Jin	AP283, AP509	Koizumi, Yuta	AP219, AP336, AP517
Kim, Yu-Il	AP452	Kojika, Masakazu	AP429
Kim, Yun Seong	AP218	Kojima, Akira	AP174
Kimura, Shinobu	AP436	Kokuto, Hiroyuki	AP106, AP423
King, Gregory G.	AO065	Kolb, Martin	W05-4, AP187
Kinjo, Takeshi	AO163, AP598	Kolosov, Victor P.	AP167, AP168, AP350, AP490, AP602
Kinose, Daisuke	AO036	Komatsubara, Yuka	AP192
Kinoshita, Yoshiaki	AP502	Komiya, Kosaku	AP303, AP306, AP510
Kiribayashi, Takaharu	AP539	Kondo, Fukuo	AP219
Kiriu, Tatsunori	AO046	Kondo, Mitsuko	AP057, AP339
Kishino, Yasunari	AP593	Kongpolprom, Napplika	AP156, AP464, AP465
Kisohara, Akira	AO011	Konishi, Keiji	AP611
Kitagawa, Hiroyoshi	AP533	Kono, Chiyoko	AP660
Kitaguchi, Yoshiaki	AP267, AP500	Kono, Yosuke	AO033
Kitahara, Shinsuke	AP498	Kono, Yuta	AP020
Kitajima, Takamasa	AP547	Koo, Hyeon-Kyoung	AP337
Kitamura, Satomi	AP088	Koo, Ji Hae	AP552
Kitazaki, Takeshi	AP543	Koo, Jungwan	AO076
Kiyokawa, Hiroshi	AP354	Kor, Ai Ching	AP069
Knapman, Fiona	AP613		
Knizhnikova, Elena	AP571		



Lan, Ying-Wei	AO204	Lee, Jong Min	AO099
Latuheru, Yorike	AP645	Lee, Jonghoo	AP596
Lau, Hervey	AP495	Lee, Jooyeon	AO022, AO160, AP186
Le Thi Tuyet, Lan	AOL002	Lee, Kang-Yun	S35-3, AO068, AP160
Le Thuong, Vu	AO183	Lee, Ki Man	APL014
Lebed'Ko, Olga	AP054, AP570, AP571	Lee, Kwangha	AP042
Lee, Chia-Chi	AO002	Lee, Kyu Min	AP019, AP042
Lee, Chien-Feng	AO087	Lee, Kyung Soo	AO206
Lee, Ching-Yi	AO196	Lee, Li-Na	AO185
Lee, Chin-Yuan	AO147	Lee, Mei-Hsuan	AO207, AP383, AP557
Lee, Chiou Perng	AP316	Lee, Meng-Rui	AO049, AO185, AP149
Lee, Chiu-Ping	AP633	Lee, Min Ki	AP042
Lee, Chon-Lin	S11-1	Lee, Myoung Kyu	AP266
Lee, Choon-Taek	AP070	Lee, Myung Goo	AP282, AP640
Lee, Chung-Shu	AP047, AP399, AP513	Lee, Pei-Lin	W10-2, AO087, AP139, AP289, AP617
Lee, Chung-Ta	AP507	Lee, Pin-Hui	AO002
Lee, Daphne	AP403	Lee, Pyng	S23-2, AO151, AP035
Lee, David Lin	APL006	Lee, Sang Haak	AP127
Lee, Donkyu	AO035	Lee, Sang Yeub	AP650
Lee, Eun Joo	AP650	Lee, Sang-Do	AO201
Lee, Eung Gu	AP010, AP435	Lee, Se-Hoon	AP529
Lee, Eun-Ju	AP380	Lee, Sei-Won	AP340
Lee, Hanbyeol	AO022, AO160, AP186	Lee, Seok Jeong	AP266
Lee, Hans	AO104	Lee, Seung Heon	AP096
Lee, Heo Yon	AP010	Lee, Seung Heon Lee	AP326
Lee, Ho Young	AP307	Lee, Seung Jun	AP299
Lee, Ho Yun	AP529	Lee, Sook Young	AP010
Lee, Hong Yeul	AP124	Lee, Soyeon	AP353
Lee, Ho-Sung	AP202	Lee, Su Hwan	AP380
Lee, Hwa Young	AP010	Lee, Sung Yong	AP159
Lee, Hyang Rae	AP299	Lee, Sung-Soon	AP337
Lee, Hye Jin	AP635	Lee, Taebum	AO028
Lee, Hyun	AO028, AO206, AP646	Lee, Taehoon	AP127
Lee, Hyun-Kyung	AP124	Lee, Won-Yeon	AP266
Lee, I-Hsien	W12-10, AO132	Lee, Yee-Fan	W09-2
Lee, Jae Ho	AP070	Lee, Yeon Joo	AP070
Lee, Jae Seung	AP420	Lee, Yong Hoon	AP635
Lee, Jaechun	AP610	Lee, Young Seok	AO134, AP159
Lee, Jaehee	AP635	Leem, Ah Young	AO051
Lee, Ji Yeon	AP322	Leem, Jaechan	APL001
Lee, Jih-Hsiang	AO178	Lei, Guangyan	AP538
Lee, Ji-Hyun	AP127	Lei, Jieping	AO137, AP577
Lee, Jin Beom	AP317	Lei, Wei	AO034
Lee, Jin Hwa	AP380, AP395	Lekamwasam, Jdvc	AP394
Lee, Jong Deog	AP299		

Lenshin, Anatoliy V.	AP404	Li, Yishi	AP041, AP369, AP370
Leroy, Patrice	AO095	Li, Yuanyuan	AO168, AP051
Lertsinudom, Sunee	AP162, AP342, AP484	Li, Zhengtu	AO170
Leung, Chi Chiu	S31-3	Liam, Chong-Kin	AP108, AP292, AP425, AP550
Leung, Ching Han	AO198	Lian, Xihua	AO055
Leung, Sum-Yee	AP633	Liang, Sheng-Kai	AP149, AP553
Lew, Sennen Jin Wen	AP152	Liang, Shinn-Jye	AP130
Li, Cheng	AO070	Liang, Wanqin	AO187, AO189
Li, Ching-Yi	AP252	Liang, Xueqing	AO122, AP066
Li, Fei	AO034	Liao, Jiping	AO075, AP409
Li, Gaoyang	AP098	Liao, Kuang-Ming	AP092, AP416
Li, Guoliang	AP148	Liao, Shu-Hui,	AP453
Li, Haitao	AO050, AO133	Liao, Shu-Yi	AO138
Li, Heliang	AP172, AP658	Liao, Wei-Chih	S04-3, AO014, AO103, AO107, AP349
Li, Hu	AO142, AP169	Liao, Wei-Chih Liao	AO012
Li, Jacky Yu-Chung	AO208	Liao, Wei-Yu	AP227, AP551
Li, Jiansheng	AP109, AP428	Liao, Wupeng	AO113
Li, Jifeng	AP253	Liew, Mei Fong	AP035
Li, Jing	AP406	Lim, Albert Yick Hou	AO102
Li, Lei	AP037	Lim, Chor-Kuan	AP537
Li, Lu	AO145	Lim, Hui Fang	S33-2
Li, Qi	AP023, AP491	Lim, Jeong Uk	AO201, AP497
Li, Qian	AO050	Lim, Si Young	AP301
Li, Qiang	AP028	Lim, T. K.	AO013, AO144
Li, Ruei Yuan	AP594	Lim, Terence Kw	AP655
Li, Shan	AO122, AP066	Lim, Valencia	AP363
Li, Shih-Hong	AP047, AP568	Lim, Weiling	AP291
Li, Shiyuan	AO056	Lim, Yaw Chyn	AO043
Li, Shiyue	AO010, AO045	Limpin, Maria Encarnita	AP664, AP666
Li, Shulin	AP053	Lin, Chang-Wei	AP040
Li, Tiao	AO023, AO114	Lin, Chia Chen	AP391
Li, Xia	AP105	Lin, Chia-Chi	AP551
Li, Xin	AP164, AP489	Lin, Chien-Chin	AP178
Li, Xuanlin	AP098	Lin, Chien-Chung	AP534
Li, Ya	AP428, AP600	Lin, Chien-Ting	AP223
Li, Yahua	AP037	Lin, Chih-An	AP540
Li, Yao	AO101, AP402	Lin, Chih-Hung	AP079
Li, Yayong	AP288	Lin, Chih-Ming	AO202
Li, Yazhen	AP053	Lin, Chin Hsien	AP289
Li, Yi	AO050, AO053	Lin, Ching-Hsiung	AO192, AP024, AP052, AP056
Li, Yimin	AO127	Lin, Ching-Kai	AP033, AP358
Li, Ying	AP196, AP597, AP657	Lin, Chingwen	AP548
Li, Ying-Chun	AP592		
Li, Ying-Ji	AP163		
Li, Yi-Rong	AP052, AP056		

Lin, Chiung-Yu	AP077, AP136, AP142, AP459, AP460, AP463, AP470	Liu, Chia-Jung	AO058, AO166
Lin, Chung-Chih	AP237	Liu, Chien-Ying	AO044, AP568
Lin, Emily Pei-Ying	AP561	Liu, Ching-Lung	W10-8, AO094
Lin, Fang-Chi	AO080	Liu, Ching-Yu	AP381
Lin, Feng-Ching	AO132, AP132	Liu, Chunhong	AO039
Lin, Fu-Huang	AO153	Liu, Chuntao	AP009
Lin, Huihuang	W11-14, AO093, AP362	Liu, Guan-Heng	AP431
Lin, Jiangtao	AP009	Liu, Hanhan	AP148
Lin, Jr-Yu	AP379	Liu, Hans	AO057
Lin, Jules	S27-3	Liu, Hanwei	AP578
Lin, Kang-Ping	W04-2	Liu, Hongliang	AP528
Lin, Meng-Chih	S02-3, AO092, AP024, AP072, AP077, AP136, AP142, AP151, AP214, AP285, AP424, AP431, AP459, AP460, AP463, AP470, AP555, AP633	Liu, Hsu-Chung	AP211
Lin, Ming-Tzer	W10-5	Liu, Jiaxing	AO187, AO189
Lin, Mong-Wei	W09-6	Liu, Jie	AO190
Lin, Nian-Jhen	AP158	Liu, Jui-Fang	AP072
Lin, Peiying	AP548	Liu, Jun	AP542
Lin, Pi-Hua	APL006	Liu, Na	AO004
Lin, Sheng-Hao	AP052, AP056	Liu, Rengpeng	AO203
Lin, Shih-Wei	W10-7	Liu, Shengguo	AP580
Lin, Shu-Min	AP467	Liu, Shih-Feng	AP072, AP424, AP431
Lin, Shu-Wen	AO147	Liu, Shuai	AO050, AP109
Lin, Shu-Yung	AO178, AP200, AP530	Liu, Ta-Chih	AO207
Lin, Syuan-Cih	AO068	Liu, Tien-Jen	AO094
Lin, Ting-Yu	AO068, AP040, AP360	Liu, Tu-Chen	AP211
Lin, Wei-Chun	AO186	Liu, Wei-Lun	S14-1, AP157
Lin, Wen-Yi	AP160	Liu, Xiaoqing	AO070, AO127
Lin, Xinqing	AO045	Liu, Xiguang	AP212
Lin, Yang	AP045	Liu, Xinzhu	AP041, AP369, AP370
Lin, Yen-Ting	AP544	Liu, Xuefang	AP600
Lin, Yu-Ching	AP015, AP546, AP568	Liu, Yang	AO205, AP233
Lin, Zhong-Zhe	AP551	Liu, Yanyan	AP253
Linderholm, Angela	AO138	Liu, Yi-Ying	AP072
Ling, Ivan	AO088	Liu, Yu	AP148
Ling, Lieng-Hsi	AO151	Liu, Yu-Chih	AP135
Ling, Sujie	AP521	Liu, Yun-Hen	AP138, AP263, AP385
Lingenfelter, Beth	W01-1	Liyan, Chen	AO066, AP514
Liong, Yves Jean	AP075	Lo, Chi-Hung	AP592
Litonjua, Augusto A.	S29-1	Lo, Chunyu	AO068
Liu, Chang	AO004	Lo, Rachel	AP615
		Lo, Shu Ying	S07-1
		Lo, Yu-Lun	AO068, AP040, AP360
		Loh, Jerold	AO151
		Loh, Sean	APL004
		Lomanta, Jan Michael Jesse	AP455
		Long, Chamroeunnon	AP368

Long, Fa	AP031
Long, Feng	AO048
Long, Li	AP169, AP612
Long, Liang	AP031
Long, Yuan	AO050
Long, Zhen	AP578
Lu, Cheng	AO088
Lu, Di	AP212
Lu, Frank	AP617
Lu, Hsuan-Hsuan	AP200, AP223, AP530
Lu, Junjuan	AO019, AO112
Lu, Min-Ju	AO002
Lu, Po-Liang	AO058
Lu, Wenju	AP115, AP578
Luettich, Karsta	AO095
Lui, Macy Mei Sze	AOL003
Lum, Jeffrey Huey-Yew	AO151
Lung, Jrhau	AP225, AP546
Luo, Lijuan	AO023, AO114
Luo, Qun	AP187
Luo, Rongguang	W11-11, AO063
Luo, Wei	AO142, AO187, AO189
Luo, Wenting	AO139, AP007, AP014
Luo, Xian	AP120
Luo, Ying-Mei	AP025
Luo, Yuan	AO056
Luo, Yuanming	AP025
Lye, Pei Shi Priscillia	AP286

## M

M Ramanathan, Mangayarkarasi	AP022, AP616
M. Cloonan, Suzanne	AO155
M.K. Choi, Augustine	AO155
Ma, He	AP556
Ma, Hok Tsun	AO198
Ma, Jindi	AP109, AP600
Ma, Jing	AO089, AP614
Ma, Tiangang	AP117, AP193, AP278, AP375, AP516, AP607
Ma, Zhongsen	AP244
Madamba, Marianne	AP302
Magededara, Dushantha	AP038, AP165, AP166, AP251, AP485, AP486, AP492, AP501
Maeno, Toshitaka	AP173, AP498

Maes, Andrea	AO199
Maghuyop, Norman	AP455
Mai, Loc	AO119
Maidin, Salimah	AO144
Maitree, Thitinan	AO141
Makhabah, Dewi Nurul	AP101, AP422
Makino, Fumihiko	AP011
Maltby, Steven	AO065
Maltseva, Tatyana A.	AP351
Man, Chiu Sin	AO198
Manabe, Toshie	AP137, AP472
Manakov, Leonid G.	AP167, AP168, AP490, AP602
Manibpel, Shariff Amiloari	AP081, AP427
Maningat, Patricia	AP393
Maniyam, Sasi Kumar	AP328
Manorangi, Premali	AP486, AP492
Mansjoer, Arif	AP310
Manzana, Bryan Jeffrey	AP579
Mao, Zhi	AO050
Mappiare, Mirnawati	AO007
Maranatha, Daniel	AP239, AP281
Maranion, Maria Cristina	AP319, AP642
Marhana, Isning Anang	AP549
Maria, Kolanda	AP320
Martin, Ubaldo J.	AO199
Marui, Takashi	AP488
Marukawa, Masaomi	AP325
Marumo, Satoshi	AP547
Maruoka, Shuichiro	AO215
Maruyama, Eiichi	AP256
Masbang, Armin	APL008
Masubuchi, Hiroaki	AP498
Mat Arifin, Fazila	AP246
Mat Jaeb, Mat Zuki	AP328, AP638
Mateo, Ma Paz	AP083
Mato, Naoko	AP410
Matsubayashi, Sachi	AO069, AP398
Matsuda, Kazuki	AO072
Matsui, Kosuke	AP384, AP595
Matsumoto, Hisako	W07-1, AP332
Matsumoto, Nobuhiro	AO176
Matsumoto, Takemasa	AP095, AP560, AP586
Matsumoto, Yuji	AO105, AP366
Matsunaga, Kazuto	AO072, AP110



Matsunaga, Takafumi	AO105	Mitani, Akihisa	AP103, AP217
Matsuno, Kei	AP011	Mitani, Yuji	AP300
Matsuoka, Hiroto	AP184	Mitsunori, Hino	AP188
Matsuoka, Katsuhiko	AP325	Miura, Emiri	AP296
Matsuoka, Rokuro	AP436	Miwa, Chihiro	AP180
Matsushima, Hidekazu	AP197	Miyagawa, Kazuya	AO091
Matsushita, Haruhiko	AP097, AP260	Miyake, Kohei	AP361
Matsuura, Hiroshi	AP258	Miyamoto, Atsushi	AP097, AP260
Matsuura, Kei	AP258	Miyamoto, Kazuaki	AO172, AP526
Matsuura, Yu	AP258	Miyamoto, Maki	AP106, AP423
Matvises, Lukkana	AP342	Miyao, Naoki	AP001
Mayasari, Enita	AP471	Miyashita, Takato	AP622
Mazumdar, Saibal	AP494	Miyawaki, Eriko	AP030
Mcardle, Nigel	AO088	Miyazaki, Kozue	AO172, AP204, AP526
Mccullagh, Angela	AO118	Miyazawa, Teruomi	AP048, AP192
Mcdonald, Vanessa M.	AO065	Miyoshi, Azusa	AP339
Mcleod, Louise	AO110	Miyoshi, Shoki	AP219, AP336, AP517
Md Kassim, Razul	AP226, AP643	Mizobuchi, Teruaki	AP523
Md Tarekh, Noor Aliza	AP316	Mizumori, Yasuyuki	AP361
Medison, Irvan	APL010, APL016	Mizumura, Kenji	AO215
Mehra, Sumit	AO024	Mizushina, Yoshiko	AP180
Mei, Xiaodong	AO199	Mizutani, Tatsushi	AP085
Mei-Hsueh, Chiang	AP396	Mochizuki, Hiroyuki	S29-2
Meis, Jacques F.	S35-1	Mochizuki, Taichi	AP264, AP429
Mendoza, Jaime	AP297	Moda, Mitsuhiro	AP062
Mendoza, Maria Cristina	AP388	Mohamad, N. Fafwati Akmar	AP246
Mendoza-Yu, Gracielle May	AP068	Mohamed Yusri, Nur Aisyah	AO067
Meng, Ying	AO086, AO195	Mohamed Zainudin, Norzila	AP246
Mengjie, Feng	AP026	Mohan, Sailesh	AP437
Mercado, Mari Chris	AP297	Mohd Faridz, A'Laa Dayana	AP352
Mi Ju, Sun	AP134	Mohd Noor, Norlidah	AP338
Miao, Chunyan	AP018	Mohd Zim, Mohd Arif	AO213, AP050, AP348, AP520, AP655
Miao, Ran	AP253	Mok, Jeong Ha	AP042
Mihara, Shyoji	AP436	Momose, Masashi	AO059, AP224
Mii, Shinji	AP515	Monk, Peter	AO167
Min, Joo-Won	AP461, AP585	Montecillo, Neil Jose	AP574
Min, Kyung Hoon	AP159	Moon, Jae Young	AO134
Minakata, Shin	AP628	Moon, Ji-Yong	AP646
Minami, Kensuke	AP277	Moral, Patrcik Gerald	AP400
Mineeva, Elena	AP331	Mori, Masahiko	AO128
Mineshita, Masamichi	AP048, AP192	Mori, Ryobu	AP584
Minomo, Shojiro	AO082, AO169	Mori, Yasuo	AO033
Mio, Tadashi	AP213, AP241, AP567	Morikawa, Noboru	AO098, AO221
Mirza, Fatim Tahirah	AP352	Morimoto, Chie	AP332
Misawa, Masafumi	AP376		



Morimoto, Konosuke	AO128, AP384, AP595	Nagase, Hiroyuki	AP137, AP219, AP336, AP472, AP517
Morimoto, Kozo	S22-1, AP106, AP423, AP519	Nagase, Seisuke	AP429
Morimoto, Yasuo	AP061, AP483, AP488	Nagase, Takahide	AP103, AP217
Morisawa, Tomoko	AO215	Nagata, Kazuma	AP584
Morishita, Hiroshi	AP184	Nagata, Takuya	AP325
Morita, Satoru	AP421	Nagovitsyna, Elena	AP570
Moriya, Kazunori	AP591	Naiborhu, Robert Christian	AP104
Moshensky, Alex	AO032	Naimah, Hayatun	AP605
Motohashi, Norihisa	AP182	Naing, Win	AP335
Motomura, Hiroaki	AP315	Najib, Marwan	AP388
Mouri, Atsuto	AP626	Nakagawa, Atsushi	AP584
Moxham, John	AP025	Nakagawa, Hiroaki	AO036
Ms, Huang	AP209	Nakagawa, Takao	AP496
Muda, Zulaiha	AP246	Nakahara, Yasuharu	AP361
Mugii, Naoki	AP496	Nakahara, Yoshio	AP382
Muis, Eliana	AO007, AP559, AP569	Nakahashi, Kenta	AP206, AP262
Mukae, Hiroshi	AP271, AP543	Nakahira, Kiichi	AO155
Mukerjee, Sutapa	AO088	Nakai, Toshiyuki	AO020, AO105, AP366
Mukherjee, Pulok	AP128	Nakajima, Yukiko	AP652
Mulgirigama, Aruni	AO188, AP064, AP386	Nakakura, Takashi	AP346
Munakata, Mitsuru	AP630, AP644	Nakamatsu, Masashi	AP598
Munechika, Miyuki	AP426	Nakamoto, Hiroyuki	AP080
Murakami, Chika	AO172, AP204, AP526	Nakamoto, Keitaro	AP106, AP179, AP423, AP519
Murakami, Isao	AO172, AP204, AP526	Nakamura, Morio	AP264
Murakami, Yasushi	AP515	Nakamura, Takahiro	AO212, AP176
Muramatsu, Keiji	AP271	Nakandala, Samadara	AP038, AP165, AP166, AP251, AP485, AP486, AP492, AP501
Murata, Kengo	AP389	Nakanishi, Masanori	AP533
Muro, Shigeo	AP412	Nakanishi, Yoichi	AO040, AO203
Murwaningrum, Artati	AP662, AP663	Nakanko, Yasushi	AP652
Musa, Aisya Natasya	AP050, AP520, AP655	Nakano, Kentaro	AO193, AP554
Mutneja, Hemant	AO057	Nakano, Yasutaka	AO036
Muzakkir, Irawaty	AP318	Nakao, Akira	AP560
Myong, Jun-Pyo	AO076	Nakaoka, Hiroshi	AP384, AP595
<b>N</b>			
Na, Juock	AP202	Nakashima, Kei	AP376
Nadeem, Dr Aamir	AP273	Nakashima, Kiyoshi	AP533
Nagahawatte, Ajith	AP265	Nakata, Koh	AP179
Nagai, Yoshiaki	AP508	Nakatani, Koichi	AP213, AP567
Nagano, Naoko	AO069, AP398	Nakayama, Masayuki	AP410, AP508
Nagano, Tatsuya	AO046, AP006	Nakazato, Masamitsu	AO176
Nagao, Taishi	AO036	Nakhamchen, Leonid G.	AP351
Nagasaka, Yukio	AO098, AO221	Nam, Joo Hyun	AP058
Nagasaki, Tadao	AP332		

Nam, Yu-Ran	AP058, AP378
Namura, Yuki	AP269
Naryshkina, Svetlana V.	AP167, AP350, AP351
Nataraja, Ramesh	AO118
Natori, Hiroshi	AP401
Natsui, Yuuki	AP624
Naumov, Denis E.	AP344
Navasakulpong, Asma	AP372
Nayar, Dr Sandeep	AP273
Nemoto, Masahiro	AP376
Neo, Lay Ping	AP018
Ng, Diana-Leh-Ching	AP108, AP292, AP425
Ng, Lauren	AP270
Ng, Susanna	AP615
Nga, Min En	AO043
Ngai, Shirley P.C.	AP411
Nguyen, Phan	AP071
Nguyen Ho, Lam	AO183
Nguyen Ngoc, Du	AP044
Nguyen Thanh, Hoi	AO015
Nguyen Thi Thu, Phuong	AOL002
Nguyen Viet, Nhung	AOL002
Nguyen Vu Hoang, Viet	AP044
Ni, Yung-Lun	W10-6
Nie, Xinshi	AP618
Niimi, Akio	W07-2
Niitsuma, Katsunao	AP630, AP644
Niitsuma, Toru	AP539
Nikaido, Takefumi	AP177, AP195, AP512
Nikkuni, Etsuhiro	AP296
Ning, Yunye	AP028
Niroshan, Sivapalan	AP076
Nishi, Koichi	AP215
Nishida, Chinatsu	AP061, AP483, AP488
Nishida, Takuji	AP184
Nishikawa, Yusaku	AP341
Nishimura, Naoki	AP264
Nishimura, Yoshifumi	AO172, AP204, AP526
Nishimura, Yoshihiro	AO046, AP006
Nishimuta, Hironobu	AP539
Nishio, Kazumi	AP652
Nishitsuji, Masaru	AP215
Nishiyama, Naoya	AP598
Nishiyma, Osamu	AP341
Nishizawa, Tomotaka	AP197

Niu, Ruichao	AP581
Noble, Peter	AO161
Noda, Yoshimi	AP184
Nogawa, Hitomi	AP588
Noguchi, Shingo	AO011, AP271
Nomura, Motoko	AP180
Norihisa, Motohashi	AP188
Noveyani, Adistha	AOL001
Novgorodtseva, Tatyana	AP059
Numakura, Tadahisa	AP099, AP329
Nureki, Shin-Ichi	AP510
Nurjaya, Imam	AP569
Nurwidya, Fariz	AO158

## O

O'Byrne, Paul M.	AO187, AO189
Oba, Tomohiro	AP197
Obata, Kenichi	AP236, AP545
Ocampo, Jan Michael	AP194
Oda, Naruhito	AP073
Oe, Koton	AP591
Oer-Areemitr, Nittha	AP480
O'Farrell, Hannah	AO016
Ogasa, Toshiyuki	AP418
Ogata, Hideo	AP106, AP423, AP519
Ogawa, Emiko	AO036
Ogawa, Hiromasa	AP296
Ogawa, Naohiko	AP215
Ogawa, Takashi	AO172, AP204, AP526
Ogbac, Martin Kristoffer	AO029
Oguma, Tsuyoshi	AO038, AP332
Ogura, Takashi	AO191
Oh, Hong Geun	AP635
Oh, Jee Youn	AP159
Oh, Ji-Hyun	AP202
Oh, Jongyeol	AP497
Oh, Soo Yeon	AP317
Oh, Yeon-Mok	AO201, AP087
Oharazeki, Toshiaki	AP539
Ohashi, Kazumasa	AP197
Ohashi, Keita	AP300
Ohdaira, Tetsuro	AO031
Ohe, Yuichiro	AO105
Ohkado, Akihiro	AO181, AP636
Ohkouchi, Shinya	AO156, AP296

Ohnishi, Tsukasa	AP593
Ohta, Hiromitsu	AP180
Ohta, Ken	AP336, AP517
Ohuchi, Masatsugu	AP269
Ohyanagi, Fumiyoshi	AP180
Oikawa, Satoru	AP210
Oishi, Keiji	AO072, AP110
Oizumi, Hiroyuki	AP206, AP262
Ok, Yutarou	AP300
Okada, Yasumasa	AO033, AO091
Okada, Yoshinori	AO156
Okahisa, Masanobu	AP601
Okamatsu, Yuki	AP536
Okamoto, Isamu	AO040, AO203
Okamoto, Mariko	AP192
Okamoto, Shouichi	AP389
Okamura, Misato	AP213, AP567
Okaya, Tadasu	AP208, AP660
Okazaki, Shuntaro	AO033
Oki, Yutarou	AP080
Oki, Yutarou	AP401
Okubo, Yu	AP366
Okumura, Nobuaki	AO176
Okumura, Yuki	AP515
Okura, Kazuki	AP089, AP093, AP622, AP628
Okura, Naoko	AP154
Omar, Azza	AP328, AP638
Omori, Takashi	AP341
On, Rintaro	AP095
On, Rintarou	AP560
Ong, Brian Nelson	AP234, AP558
Ong, Nicodemus	AP579
Ong-Dela Cruz, Bernice	AP107
Ong-Mateo, Marilyn	AP319
Onimaru, Hiroshi	AO033
Onishi, Hiroshi	S13-1
Ono, Kumiko	AP401
Onoe, Rintaro	AP192
Onosato, Masaki	AP506
Onozato, Yuki	AP043
Onuki, Tsugitoshi	AP508
Oo, Stephen	AO065
Ooi, Ryunosuke	AP017
Oota, Haruhiko	AP121, AP276

Ordanza, Mary Joy	AO100
Orden, Mary Claire	AP284
Osanai, Shinobu	AP418
Osawa, Makoto	AO036
Osawa, Satoshi	AP401
Oshima, Kazuhiro	AP543
Oshiro, Tomoko	AP091
Ostrovskaya, Olga	AP570
Oswita, Giovanni Audrey	AP530
Otsubo, Kohei	AO040
Otsuji, Mizuhito	AP506
Otsuji, Mizuto	AP043
Otsuji, Naotatsu	AO193, AP554
Otsuka, Kengo	AP001
Otsuki, Ayumu	AP376
Ou, Chih-Ying	AP118
Owens, Louisa	AO065
Oyama, Baku	AP048
Oyama, Yukari	AP236, AP545
Ozaki, Yoshitomo	AP269
Ozkarafakili, Mufide Arzu	AP295
Ozturk, Can	AP661

## P

Pacilli, Maurizio	AO118
Pagcatipunan, Rodolfo Jr	AP400
Palmer, Lyle	AO088
Pan, Chien-Te	AP637
Pan, Chiun-Yen	AO052
Pan, Hui	AP542
Pan, Pinhua	AO050, AO053, AO168
Pan, Sheng-Wei	AP631
Panaligan, Roland	AP081
Pang, Brendan Nghee Kheem	AP035
Pang, Wenyi	AP253
Pang, Yong Kek	AP292
Pang, Yong-Kek	AP108, AP425
Panganiban, Michael John	AP220
Park, Chul	AP255
Park, Dong Won	AP646
Park, Hayoung	AP452
Park, Hye Kyeong	AP337, AP629
Park, Hye Yun	AO028, AP529
Park, Hye-Kyung	AP019, AP042
Park, Hyeyoung	AP635

Park, In Won	AP311
Park, Jae Suk	AP552
Park, Jae-Hyung	APL001
Park, Jeong-Woong	AP127, AP283, AP509
Park, Jieun	AP274
Park, Jong Sun	AP070
Park, Joo Hun	AP114
Park, Keunchil	AP529
Park, Mihwa	AP458
Park, Moo Suk	AO051, AP473
Park, Sang Joon	AP461, AP585
Park, Seongjoo	APL009
Park, So Hee	AP337
Park, So-Young	AO028
Park, Tai Sun	AP646
Park, Yong Bum	AP309, AP439, AP450
Park, Youngeon	AO022, AO160, AP186
Parris, Brielle	AO016
Parsons, Polly	S18-1
Pastis, Nick	AO104
Pathak, Urya Narayan	AP016
Pathi, Nafiisah	AP226
Pathiraja, Dilami	AP485, AP486, AP492
Paul, Mintu	AO194, AP002
Peh, Hong Yong	AO071, AO113
Pei, Yinghua	AP357
Peitsch, Manuel	AO095
Pelayo, Joseph Raevin	AP008
Peng, Chong-Kang	AO077
Peng, Chung-Kan	AO090, AO153, AP381, AP462, AP466, AP474
Peng, Hung-Chueh	AP637
Peng, Jianglong	AP067
Perau, Rosdiana	AP645
Perelman, Juliy M.	AP167, AP344, AP023, AP350, AP351, AP404, AP602
Perera, Sudammi	AP279
Permatasari, Ariani	AP659
Perng, Diahn-Warng	S17-2, AO080, AO192, AP433
Perng, Wann-Cherng	AO153
Pertiwi, Wiwi	AP239
Peters, Matthew	AO009
Phan Thi, Thuan	AOL002

Philip, Sophia	APL005
Phillips, Blaine	AO095
Pichugina, Sabina	AP054
Pirogov, Aleksey B.	AP023, AP350
Pirompanich, Pattarin	AO141
Pitoyo, Ceva Wicaksono	AO062
Planchard, David	S24-3
Poachanukoon, Orapan	AO141
Poh, Mau-Ern	AP108
Poletti, Venerino	S23-3
Polkey, Michael L	AP025
Polopadang, Junardy	AP012
Polyanskaya, Elena V.	AP167, AP168
Pophale, Himanshu	AP116
Prabhakaran, Dorairaj	AP437
Pradipta, Jaka	AO179
Prajapat, Brijesh	AO214, AP479, AP667
Pranboon, Sineenard	AP484
Prasenhadi, Prasenhadi	AP247, AP471
Pratiwi, Andi Puji	AO001, AO146
Prikhodko, Anna G.	AP023, AP344, AP350, AP351
Principe, Larizze Leonica	AP287
Priyonugroho, Gatut	AO179, AP649, AP653
Probandari, Ari	AOL001
Puah, Ser Hon	AP018, AP152
Purwastyastuti	AP413

## Q

Qamar, Muhammad	AP348
Qi, Danqing	AO030, AP621
Qi, Yanan	AO162
Qi, Yong	AO162, AP131
Qiao, Yongkang	AO071
Qin, Hao	AP029
Qin, Jiangyue	AP094
Qin, Zhiqiang	AO199
Qiu, Xiaojian	AP357
Qu, Danhua	AP117, AP278
Quaresma, Manuel	AO191
Quek, Poh Seo	AP222
Querri, Aurora	AO181
Qui, Chen	AP004

## R

Radha Krishna, P	AP128
Radin, C Philip	AP564
Raghu, Ganesh	S09-2
Rahayu Dewayanti, Santi	AP046
Rahman, Mohammad Moshir	AP576
Rahman, Mohammad Mostafizur	AP446
Rahman, Mustafijur	AP119
Rajakrishna, Premil	AP279
Rajapakshe, Nidhika	AP166
Rajesh, N	AP128
Rajnith, J	AP128
Ramalingam, Suresh S.	S24-1
Ran, Pixin	AO109
Ranushar, Muhammad	AP013
Ratanaopas, Soodrutai	AP111
Ratih, Theresia Sandra Diah	AOL001
Ratnawati, Martha	AP641
Rays, Marlina	AO007
Reddel, Helen K.	AO065
Reisa, Tina	AP247
Reisner, Colin	AO199
Ren, Jie	AP039, AP367
Ren, Kewei	AP037
Requiron-Sy, Ma. Dulce	AP639
Resnawita, Dewi	AO007
Reviono, Reviono	AP101, AP275, AP422, AP641
Reynolds, Paul	W05-1, AP171
Rhee, Chin Kook	S01-2, AO018, AO099, AO201, AP010, AP127, AP430, AP435, AP439, AP450
Richeldi, Luca	W06-3
Rikimaru, Mami	AP630, AP644
Rivera-Go, Ivy Catherine	AP075
Riyanto, Bambang	AO152, AO182, AP318
Rong, Gao	AP377
Roque, Vladimir Lennin	AP455
Roseby, Robert	AO118
Rose-John, Stefan	AO110
Roxas, Jude Patrick	AP036
Roy, Bapti	AP373
Ruan, Sheng-Yuan	AP125, AP133, AP139
Rui, Yang	AP021
Ruijuan, Guan	AO117

Ryu, Ji-Won	AP202
Ryu, Seunggho	AP380
Ryu, Yon Ju	AP395

## S

Sabri, Yessy	APL016
Sabri, Yessy Susanty	APL010
Sagara, Hironori	AP073, AP582, AP593
Saha, Dipanjan	AO194, AP002, AP494
Said, Nora	AO144
Saigusa, Mika	AP421
Saihara, Aya	AP415
Saikai, Toyohiro	AP201
Saito, Akira	AP217
Saito, Atsumi	AO091
Saito, Junpei	AP177, AP195, AP512
Saito, Minako	AP217
Saito, Takeshi	AP001
Saito, Zenya	AO200
Saitou, Haruhisa	AP582
Saitou, Miwako	AP630, AP644
Saji, Junko	AP192
Sajinadiyasa, I Gede Ketut	AO152, AO182, AP318
Sakaguchi, Chikara	AO098, AO221
Sakaguchi, Tadashi	AP048
Sakamoto, Koji	AP382, AP515
Sakamoto, Susumu	W06-1
Sakanashi, Daisuke	AO059
Sakashita, Takuto	AP269
Salazar, Riccel	AP284
Saleela, Ruwanpura	AO110
Samaratunga, Dinithi	AP495
Samejima, Yumiko	AP184
Sandford, Debra	AP171
Sandhu, Yuuki	AP315
Sandhya, A S	AO214, AP479, AP667
Sang, Ling	AO127
Sanjoto, Hary	AOL001
Sano, Akiko	AP341
Sano, Emika	AO031
Sano, Hiroyuki	AP341
Sano, Yuko	AP436
Santi, Nur	AP422
Santiago, Gilly May	AP036, AP583
Saraya, Takeshi	AP179

Sarkar, Nirmal Kanti	AP259, AP359	Senjyu, Hiroaki	AP543
Sarma, Madan	AP494	Seo, Hyewon	AP635
Sarmidi, Sumariyono	AP084	Seo, Joon Beom	S32-2
Sasada, Aosa	AP154	Seo, Ki-Hyun	AP202
Sasaki, Ryoko	AP174	Seol, Chang Hwan	AO051
Sasaki, Shin	AP361	Seong, Gil Myeong	AP610
Sasaki, Shinichi	AO212, AP176	Septiar, Dimas	APL015
Sasaki, Tomoya	AP095, AP560	Sermkaew, Thunyawee	AP156
Sasaki, Yuka	AP106, AP423, AP519	Setiadji, Robertus	AO136
Sasano, Hitoshi	AP011	Setijawan, Gigih	AP634
Satake, Masahiro	AP298, AP622, AP624	Setyo Heriyanto, Didik	AP531
Sato, Atsuyasu	AO038, AP085, AP412	Setyoreni, Ayuningtyas	AP046
Sato, Kanako	AO020	Shan, Yifan	AO161
Sato, Kozo	AP243	Shantakumar, Sumitra	AO188, AP064, AP386
Sato, Makiko	AP346	Shaw, Janet	AO016
Sato, Shintaro	AP197	She, Jianqing	AP257, AP330, AP451
Sato, Suguru	AP177, AP195, AP512	Shen, Chih-Hao	AP381, AP379
Sato, Susumu	AO038, AP085, AP412	Shen, Han-Ming	AO113
Sato, Teruhiko	AP030	Shen, Hsiu-Nien	AP145
Sato, Yoko	AP436	Shen, Shih-Min	AO044
Sato, Yoza	AP182	Shen, Yibo	AP028
Sato, Yuki	AP177, AP195, AP512	Shen, Yongchun	AP094
Sawada, Kaku	AP401	Sheng, Cih Han	AP391
Sawada, Mikiko	AO036	Sheng, Tianchen	AP265
Sawitri, Neni	AO184	Sheu, Chau-Chyun	AO017, AO126, AO192, AP005, AP383, AP433
Sayuti, Suzila Che	AP328	Shi, Changhong	AP063
Schwab, Richard John	S28-3	Shi, Hui	AP028
Seak, Chen-June	AO074, AP453	Shi, Xiaoshun	AP212
See, Kay Choong	AO067	Shibata, Kazuyuki	AP089, AP093, AP622
Seet, Ju Ee	AO043, AP035	Shibata, Satoshi	AO172, AP204, AP526
Sehmi, Roma	AO187, AO189	Shibata, Yoko	AP177, AP195, AP512
Seiji, Kosaihira	AP188	Shih, Chia-Yin	AP441
Seki, Nobuhiko	AP219, AP517	Shih, Jin-Juan	AP227
Sekine, Kyuichiro	AP201	Shih, Jin-Yuan	AO209, AP216, AP358, AP449, AP544, AP551, AP553, AP563
Sekine, Toshie	AP508	Shiihara, Jun	AP180
Sekino, Motohiro	AO128	Shim, Jae Jeong	AP159
Sekiya, Muneyuki	AP121, AP276	Shim, Tae Sun	AP604
Sempio, Earl Louis	AP400, AP642	Shima, Hiroshi	AO038
Seneviratna, Aruni	AP152	Shimada, Manabu	AP488
Seneviratne, Sachini	AP038, AP165, AP166, AP251, AP485, AP486, AP492, AP501	Shimizu, Kazunori	AP184
Sengupta, Sayantan	AP128	Shimizu, Masaki	AO120
Sengupta, Sayoni	AO194, AP002	Shimizu, Takako	AP163
Senju, Hideaki	AP088		



Shimoda, Masafumi	AP106, AP423, AP519	Soetikno, Vivian	AP413
Shin, Beomsu	AP266	Soh, Rui-Ya	AP286
Shin, Chol	S28-2, AP326	Sohn, Jang Won	AP646
Shin, Hocheol	AP380	Someya, Fujiko	AP496
Shin, John	AO032	Son, Do Ngoc	AP137, AP472
Shin, Jong Wook	AP311	Son, Eun Suk	AP509
Shin, Sumin	AO206	Song, Chao	AO050, AP581
Shin, Sun Hye	AO206, AP529	Song, Hee-Young	AP408
Shin, Tae Rim	AP417	Song, Jae-Uk	AP301, AP596, AP629
Shin, Yoon Mi	APL014	Song, Jin Woo	AO083, AO191
Shingo, Kitagawa	AP188	Song, Jinwoo	AP175
Shinohara, Wakako	AP174	Song, Joo Han	AO051, AP147, AP473
Shinya, Matsuda	AP271	Song, Kyung Mee	AP420
Shiotsu, Shinsuke	AP154	Song, Shiyi	AP572
Shioya, Takanobu	AP089, AP093, AP298, AP622, AP624, AP628	Song, Weidong	AP009
Shirai, Tatsuya	AP519	Song, Xiaolian	AP333
Shirai, Toshihiro	AO143, AP421	Song, Yangrong	AP538
Shiraishi, Yusuke	AP547	Song, Yong	AO161
Shirano, Michinori	AP611	Soo, Ross	AO043, AO151
Shirata, Masahiro	AP547	Sotoshiro, Mie	AP201
Shiromori, Sadaaki	AP243	Sounthararajan, Visagan	AP076
Shiroshita, Akihiro	AP376	Southcott, Anne Marie	AP270
Shu, Chin-Chung	AO006, AO147, AO180	Sovira, Nancy	AP150
Shuliang, Guo	AO106, AP041, AP369, AP370	Srinivasapuravenkateshmurthy, Nikhil	AP437
Shuto, Satoshi	AP346	Sripanidkulchai, Bangorn	AP484
Si, Dan	AO162	Srisoi, Sutasinee	AP484
Siagian, Parluhutan	AO152, AO182, AP318	Stansen, Wibke	AO191
Silva, Ruvini	AP166	Steier, Joerg	AP025
Sim, Yun Su	AP417	Stick, Stephen	AO167
Simoff, Michael	AP028	Stone, Emily	AP550
Simon, Rahul Antony	AP371	Stowasser, Susanne	AO191
Sinaga, Bintang Yinke Magdalena	AO152	Su, An-Na	AO004
Singh, Bhajan	AO088	Su, Jing	AP288
Singh, Dave	S17-3	Su, Mao-Chang	AO092, AP285
Singh, Gurmeet	AO062	Su, Po-Lan	AP534
Siswidiani, Levina Putri	AP084	Su, Shih-Yung	AP449
Siy, Waldemar	AP229	Su, Vincent Yi-Fong	AO047, AO054
Smit, Egbert	S13-2	Su, Wei-Juin	AP631
Smith, Lorraine	AO065	Su, Wen-Lin	AP100
So, Mitsuhito	AP236, AP545	Subardi, Suharko	AP310
Soeda, Seiko	AP020	Suetake, Ryo	AO072
Soedarsono	AO003, AO149, AO165	Sugawara, Keiyu	AP089, AP093, AP622
Soelar, Aiman	AP226	Sugimoto, Chikatoshi	AO082, AP504
		Sugimoto, Naoya	AP219, AP336



Sugitate, Kei	AP243, AP522
Sugiura, Hisatoshi	S03-1, AP099, AP329
Sugiyama, Haruhito	AO069, AO140, AP030, AP398
Sugiyama, Kumiya	AO193, AP243, AP522, AP554
Sugiyama, Yukihiko	AP410
Sujie, Lin	AP377
Sumitani, Mitsuhiro	AP611
Sun, Baoqing	AO070, AO122, AO139, AO145, AP007, AP014, AP063, AP066, AP345, AP387, AP440
Sun, Bing-Qi	AO004
Sun, Cao	AO075
Sun, Chao	AO079, AP161
Sun, Jiayuan	W02-2, W08-3, W11-2, AP049
Sun, Jingjing	AP148
Sun, Jong-Mu	AP529
Sun, Jui-Sheng	AO096
Sun, Nana	AO086
Sun, Qing	AP053, AP580
Sun, Shenghua	AO019, AO112
Sun, Xuanzi	AP148
Sun, Ying	AP212
Sunadome, Hironobu	AP332
Suprun, Evgeny	AP571
Suprun, Stefania	AP570, AP571
Suradi, Suradi	AP101
Suryananda, Titah Dhadhari	AP281
Susanto, Nughroho	AP318
Susanty, Mawartih	AP549
Susilo, Joko	AP320
Sutanto, Yusup	AP101, AP422
Suto, Eriko	AP298
Suzaki, Noriyuki	AP325
Suzuki, Jun	AP206, AP262
Suzuki, Katsuhiko	AO005, AO169
Suzuki, Manabu	AO069, AP030, AP398
Suzuki, Mika	AP208, AP660
Suzuki, Takashi	AP354
Suzuki, Takuji	AP410, AP508
Suzuki, Tomoko	AP630, AP644
Suzuki, Yasuhito	AP177, AP195, AP512
Suzuki, Yusuke	AP264

Swan, Felicity	AP003
Syadzali, Ahmad Fikri	AP247
Syahruddin, Elisna	AP242, AP562
Syaukani, Nusky	AOL001
Sze Shyang, Kho	AP619
Szu, Lyn Ding Cristine	AP069

## T

Tabata, Masaomi	AP296
Tabri, Nur Ahmad	AO007, AP559
Tabujara, Rhea Joy	AP535
Tachibana, Kazunobu	AO082
Tachihara, Motoko	AO046
Tachikawa, Ryo	AP584
Tachiwada, Takashi	AO011, AP271
Tadokoro, Akira	AP032
Tagawa, Tetsuzo	AO040
Tagaya, Etsuko	AP057, AP339
Taha, Aza	APL004
Tai Joon, An	AO099
Tait, Samuel	AO016
Tajima, Ken	AO158
Takabatake, Hirotsugu	AP201
Takada, Toshinori	AP197
Takahara, Norihiro	AP256
Takahashi, Eisuke	AP506
Takahashi, Fumiyuki	AO158, AP176, AO212
Takahashi, Hitomi	AP089, AP093, AP622
Takahashi, Kazuhisa	AO158, AO212, AP011, AP176, AP315
Takahashi, Taro	AP001
Takaki, Masahiro	AO128, AP384, AP595
Takamori, Mikio	AP389
Takamori, Satoshi	AP206, AP262
Takao, Toshihumi	AO176
Takasawa, Seiko	AP276
Takase, Makoto	AO124
Takata, Saori	AP626
Takazawa, Seiko	AP121
Takeda, Hiroshi	AO091
Takeda, Ken	AP163
Takeda, Kotaro	AO033, AO091
Takeda, Yuichirou	AP030
Takeichi, Haruka	AP210
Takemoto, Shinnosuke	AP543

Takemura, Masao	AP173, AP498	Tan-Ang, Marites	APL008
Takemura, Tamiko	S05-2	Tang, Chunli	AO010
Takeshige, Tomohito	AP011	Tang, Huaping	AP009
Takeuchi, Kazuhiko	AO124	Tang, Jiaman	AP169
Takeuchi, Naoko	AO082	Tang, Kejing	AP228
Takeyama, Kiyoshi	AP057, AP339	Tang, Shih-En	AO153
Takikawa, Shuichi	AP306	Tani, Mayuko	AP215
Takizawa, Hajime	AO085, AP179	Taniguchi, Yuri	AP415
Takumi, Chieko	AP154	Tanimura, Kazuya	AP412
Tam, Chi Chun Terence	AO097	Tanino, Yoshinori	AP177, AP195, AP512
Tam, John Kc	AO043	Tan-Reyes, Michelle Angela	AP287
Tam, Terence Chi Chun	AOL003	Tanyag, Portia Maria	AP238, AP623
Tamai, Tokiwa	AP296	Tao, Chi-Wei	AP185, AP190
Tamiya, Hiroyuki	AP217	Tao, Lianqin	AP129
Tamrin, Fachrul	AP649, AP653	Tasaka, Sadatomo	S14-2
Tan, Adeline	AP286	Tasaki, Osamu	AO128
Tan, Charlene	AP170	Tateishi, Akiko	AP376
Tan, Evelyn Wei Yu	AO102	Tateishi, Kazunari	AP267, AP500
Tan, Geak Poh	AO030, AP069, AP291, AP621	Tawinkan, Nirachra	AP484
Tan, Ian R. J.	AO071	Tay, Wan Ying	AP316
Tan, Irene Rosellen	AP122, AP665	Taye, Zhi Yun	AP655
Tan, Jessica	AP356	Tazawa, Ryushi	AP179
Tan, Jingjin	AP518	Tee, Augustine	APL004
Tan, Jiunn-Liang	AP108	Tee, Teng Teng	AP022
Tan, Pei Sze Carmen	AP222	Teh, Kok Hoi	AP246
Tan, Roxanne Gillea	AP579	Teng, Hui-Chen	AP477
Tan, Seng Beng	AP292	Tennis, Meredith	AO217
Tan, Seng-Beng	AP425	Tentua, Vebiyanti	AP645
Tan, Wan Shun Daniel	AO113	Terada, Jiro	AP582
Tan, Windfield	AP583	Terada, Jyunko	AP398
Tanabe, Naoya	AO038, AP085	Teramoto, Shinji	AO085
Tanabe, Yuki	AP011	Terashita, Tomomi	AP006
Tanaka, Go	AP103	Terui, Yoshino	AP298, AP624
Tanaka, Goh	AP217	Tey, Shu Farn	AP232
Tanaka, Kensuke	AP208, AP660	Tey, Shu-Farn	AP280
Tanaka, Kentaro	AO040, AO203	Thakur, Neeta	AO218
Tanaka, Midori	AO105, AP366	Thi, Phuong Dinh	AO015
Tanaka, Rie	AP329	Thilakan, Anitha	APL005
Tanaka, Takeshi	AO128, AP277, AP384, AP595	Thirumaran, Balakrishnan	AP076
Tanaka, Yoshiaki	AP106, AP423, AP519	Thomas, Paul	AO115
Tanaka, Yosuke	AP182	Tian, Jing	AP612
Tanaka, Yu	AP376	Tian, Xinyu	AO039
Tanaka, Yuko	AP421	Tian, Yange	AP109, AP428, AP600
		Tie, Siew Teck	AP619
		Tien, Ai-Jia	AP158

Tien, Cheng-Tsung	AP130
Tien, Hanh Do	AO015
Tiew, Pei Yee	AP356
Tillekeratne, L. Gayani	AP265
Tip, Sai	AP290
Titz, Bjoern	AO095
Tiwari, Drishti	AP304
To, Eunice	AO216
To, Kin Wang	AP615
To, Masako	AP020
To, Yasuo	AP020
Tobino, Kazunori	AP017, AP426, AP541, AP601
Togashi, Kaori	AO038
Togawa, Ryuichi	AP177, AP195, AP512
Toh, Hsiao Peng	AP338
Tohda, Yuji	AP341
Tokita, Shingo	AP522
Tomii, Keisuke	AP584
Tomonaga, Taisuke	AP061, AP488
Tomyo, Fuminori	AP517
Tone, Kazuya	AP174
Toyokawa, Gouji	AO040
Toyokura, Minoru	AP210
Toyota, Hikaru	AP517
Tran, Hai Bac	AO154
Tran, Thai	AO043, AO071
Tran, Tuan	AO119
Tran My, Hanh	AOL002
Tran Van, Ngoc	AO183
Travis, William David	W03-1, S05-3
Trinidad, Tim	AP427
Trisnawati, Ika	AP235, AP531
Troosters, Thierry	S18-3
Tsai, Fu-Chang	AP475
Tsai, Hsing-Chen	AO178, AP200, AP223, AP530
Tsai, Jong Rung	AP391
Tsai, Jong-Rung	AO126, AP383
Tsai, Kun-Wei	AP160
Tsai, Ming-Ju	W04-5, AO017, AO126, AP005, AP079, AP557
Tsai, Robert S.	APL003
Tsai, Tzu-Cheng	AP385
Tsai, Tzu-Hsiu	AP227

Tsai, Ying Huang	AP546
Tsai, Ying-Huang	AP225, AP424
Tsai, Ying-Ming	AO116, AP252, AP365
Tsai, Yu-Chen	AO126, AP079
Tsai, Yuh Chyn	AP431
Tsen, Chia-Cheng	AP424
Tseng, Chia-Cheng	AP151, AP214
Tseng, Ching-Min	AP185, AP190
Tseng, Ching-Wan	AP431
Tseng, Yen-Han	AP207
Tseng, Yin-Ting	AP223
Tseng, Yi-Ting	AP561
Tsou, Ping-Hsien	AP149
Tsuboi, Eriko	AO215
Tsubouchi, Hironobu	AO176
Tsubouchi, Kazuya	AP536
Tsuchida, Takaaki	AO105, AP366
Tsuchiya, Michiko	AO221
Tsuchiya, Mihciko	AO098
Tsui, P N	AP112
Tsuji, Seijiro	AP241
Tsuji, Taisuke	AP154
Tsujimoto, Yoshie	AO069, AP030, AP398
Tsukamoto, Hiroaki	AP361
Tsunoda, Akihito	AP192
Tsurumaki, Hiroaki	AO159, AP346
Tsushima, Kenji	AO091
Tsuyuguchi, Kazunari	AO005, AO169
Tsuzuki, Ryuta	AP020
Tu, Chih-Yen	W02-1, W08-2, AO012, AO014, AO103, AO107, AP349
Tuan, Dang Quoc	AP137, AP472
Tuan, Tran	AO123
Tuason, John Pocholo	AP579
Tunpichart, Sirirat	AP162

## U

Uchida, Naohiro	AP213, AP241, AP567, AP608
Uchida, Sonoe	AP303, AP306
Uchida, Yoshitaka	AP593, AP582
Uchimura, Kazuhiro	AP636
Uchimura, Keigo	AO011
Uchiyama, Makoto	AO033

Udugama, Jayasundara	AP394
Mudiyanselage Malika	
Uechi, Kohei	AP598
Ueda, Keiko	AO098
Ueda, Ryuta	AP429
Ueda, Takahiro	AP097, AP260
Uehara, Sho	AO072
Ueki, Jun	AO031
Uemasu, Kiyoshi	AP085, AP412
Uematsu, Manabu	AP177, AP195, AP512
Uenishi, Riki	AP097, AP260
Ugajin, Motoi	AP258
Umakoshi, Taisei	AP184
Umeda, Akira	AO091
Umeki, Kenji	AP510
Umezawa, Kanoko	AO046, AP006
Ura, Ayako	AP091
Urino, Yuichi	AP258
Urushihata, Kazuhisa	AP267, AP500
Urushiyama, Hirokazu	AP103
Uryu, Kazuyasu	AP536
Usagawa, Yuko	AP510
Ushiki, Atsuhito	AP267, AP500
Utano, Kennichi	AP630, AP644
Utano, Yuka	AP630, AP644
Utarini, Adi	AOL001
Utsumi, Takahiro	AP536
Uyen, Pham	AO123

**V**

Van, Anh Le	AO015
Van, Linh Pham	AO015
Van, Thanh Tra	AO015
Van Boven, Job F.M.	AP327
van Haren, Frank	S15-1, S19-3
Vanderburg, Sky	AP265
Vanscheeuwijck, Patrick	AO095
Vasuki, Sujeewa	AP076
Velasquez, Jhoanna Rose	AP455
Veremchuk, Lyudmila	AP482
Vidiast, Farah	AO001, AO146
Vijayabandara, Manikkuwahandi	AP394
Sanka Kalhara	
Vila, Merima	AO113
Villalobos, Minerva Joy	AP036

Villalobos, Ralph Elvi	AP122, AP665
Villareal, Katherine	AP036
Viniegas, Jacob	AP078
Vitkina, Tatyana	AP059, AP482
Vlahos, Ross	AO110
Vlasova, Marina	AP570
Vong, Yee Ping	AO198
Vu Van, Giap	AP044

**W**

Wacharasint, Petch	AP480
Wada, Akihiko	AP389
Wada, Hiroshi	AP269
Wada, Toshihiro	AP588
Wahidi, Momen	AO104
Wai, Suk Fong	AO198
Wai Mun, Wong	AP334
Wakayama, Tmoshige	AP243
Wakayama, Tomoshige	AO193
Wan, Hsuan Kung	AP478
Wan, Huanying	AO174
Wan, Jun	AP253, AP577
Wan, Kairui	AO101, AP402
Wang, Bijun	AP129
Wang, Changhui	AP233, AP333, AP603
Wang, Chen	AO137, AP577
Wang, Chih-Liang	AP568
Wang, Chih-Wei	AP047
Wang, Chin-Chou	AP136, AP214, AP424, AP459, AP460, AP463, AP555
Wang, Ching-Min	AP157
Wang, Chun-Hua	S33-3
Wang, Dexiang	AO039
Wang, Dingyi	AP577
Wang, Guangfa	AO075, AO079, AO089, AO130, AP161, AP409, AP614
Wang, Hao-Chien	W06-2, W12-3, AO084, AO111, AO129, AO192, AP024, AP139, AP433, AP449
Wang, Hao-Yan	AO199
Wang, Hong-Yu	AP187
Wang, Hsin-Yi	AO041
Wang, I-Duo	AO090

Wang, Jann-Yuan	S31-2, AO058, AO185	Watatani, Nanase	AP341
Wang, Jiajia	AP098, AP261, AP511	Wedzicha, Jadwiga Wisia	S17-1
Wang, Jiu Yao	S29-3	Wee, Chong Koh Nicholas	AP069
Wang, Jiun-Long	AO204	Wee, Chuan Rui Audrey	AP069
Wang, Juan	AP357	Wei, Nili	AO122, AP066
Wang, Jung-Der	AP441	Wei, Qingyi	AO042, AP528
Wang, Ke	AP082, AP518, AP556, AP590	Wei, Yu-Feng	S09-5
Wang, Lingwei	AP004	Wei-Hsun, Chen	AP456
Wang, Liping	AP333	Welivitiya, Teshanthi	AP394
Wang, Li-Shuang	AP025	Wen, Fuqiang	AP094
Wang, Minghang	AP511	Wen, Ying	AP053
Wang, Mingliang	AP580	Wen, Yueh-Feng	S09-4, AP033, AP149, AP178
Wang, Ping-Huai	AO006	Wen, Zhi-Hong	AP383
Wang, Qin	AP028, AP029	Weng, Rueyhung	AP223
Wang, Tao	AP578	Weng, Rueyhung Roc	AP200, AP530
Wang, Ting	AP357	Weng, Wen-Chin	AP617
Wang, Ting-Ya	AO092, AP285	Weng, Yi-Hao	AP469
Wang, Wei	AP618	Wenju, Lu	AO117
Wang, Xiao-Fei	AO034	Wibisono, Banteng Hanang	AO152, AO182, AP318
Wang, Xiao-Han	AO004	Wibisono, Nugroho	AO182
Wang, Yan	AP115, AP518, AP556, AP590	Wickramasinghe, Don Sugeesha Akalanka	AP394
Wang, Yanhong	AP657	Wickramasinghe, Wijayani	AP165, AP485, AP486, AP492
Wang, Yi-His	AP136, AP459, AP460, AP463	Widyaningsih, Putu Dyah	AO165
Wang, Yin Ying	AP391	Wijayaratne, Gaya	AP265
Wang, Yina	AP288	Williamson, Jonathan	AO009
Wang, Ying	AP144	Wirawan, Aditya	AO158
Wang, Ying-Piao	AO094	Wong, Amanda	AO043
Wang, Yi-Shan	AP419	Wong, Chee-Kuan	AP108
Wang, Yuandi	AP126, AP448, AP625	Wong, Chi Fong	AP189
Wang, Yuling	AP357	Wong, Ee Tsin	AO095
Wang, Yunxia	AO075, AO130, AP614	Wong, Henry Hon Lai	AP135
Wan-Jing, Ho	AP396	Wong, Hung Chew	AO043
Wannigama, Dhammika Leshan	AO167	Wong, Tat Seng	AP292
Watanabe, Aya	AP085	Wong, W. S. Fred	AO071
Watanabe, Azumi	AP256	Wong, Wai-Shiu Fred	AO113
Watanabe, Hikaru	AP527	Wong, Yii Zhi	AO213
Watanabe, Kenichi	AP256	Wong Su Jen, Rachel	AP476
Watanabe, Kentaro	AP502, AP586	Woods, Christopher W.	AP265
Watanabe, Naoki	AP032	Wu, Biing-Ru	AO012, AO014, AO103, AO107, AP349
Watanabe, Takayasu	AP626	Wu, Chao-Chien	AP633
Watanabe, Tetsuya	AO020	Wu, Chen-Tu	AP227
Watarai, Hikaru	AP206, AP262		

Wu, Chih-Da	AP160
Wu, Chih-Wei	AP100
Wu, Chin-Pyng	AP474
Wu, Cho-Kai	AP178
Wu, Ge	AO145
Wu, Geng-Chin	AP466
Wu, Hsin-Hsu	AP385
Wu, Hsin-She	AP263
Wu, Huang-Pin	AP135
Wu, Huey-Dong	AO084, AO132, AP132, AP133
Wu, Jenn-Yu	AP216
Wu, Jian-Lin	AO145, AP345
Wu, Junwan	AO101, AP402
Wu, Mingming	AP109
Wu, Peter	AP373
Wu, Qiaohui	AO037
Wu, Reen	S07-2
Wu, Ruey Meei	AP289
Wu, Sen-Rui	AP025
Wu, Shang-Gin	AO209
Wu, Sheng-Ting	AP230
Wu, Shih-Wei	AP060
Wu, Shu-Yu	AO153
Wu, Sinan	AP577
Wu, Yao-Kuang	AP100
Wu, Yi-Chieh	AO178, AP530
Wu, Yi-Lin	AP534
Wu, Ying-Hsun	AP313
Wu, Yin-Xin	AP025
Wu, Yu-Chung	AP207
Wu, Zehong	AO139, AP014
Wu, Zhung-Han	AO025

### X

Xian, Mo	AP406
Xiang, Yang	AO095
Xiang, Yi	AO174
Xiao, Fang	AP244, AP573
Xiao, Hui	AP205
Xiao, Lu	AP053
Xiao, Meiling	AP369, AP370
Xiao, Wei	AO039
Xiao, Yang	AP369, AP370
Xiaofeng, Liang	AP514

Xie, Canmao	AP503
Xie, Lihua	AO019, AO112
Xie, Mengshuang	AO039
Xie, Minghong	AO162, AP131
Xie, Shuanshuan	AO177, AO205, AP233, AP603
Xie, Wanmu	AP577
Xie, Xiaohong	AO045
Xie, Yang	AP098, AP183, AP261, AP428, AP511, AP600
Xiong, Mingmei	AP115
Xitong, Yu	AP021
Xu, Fei	AP045
Xu, Jin-fu	AO063, AP123
Xu, Rong	AO187, AO189
Xu, Xiangyu	AP511
Xu, Yonghao	AO127
Xu, Zuojun	AO191

### Y

Yada, Rie	AP508
Yagi, Osamitsu	AP339
Yagi, Takeo	AP533
Yagyū, Kyoko	AP097, AP260
Yakovlev, Igor	AP054
Yamada, Hidehisa	AP199
Yamada, Kanji	AP300
Yamada, Kazuhiro	AO020
Yamada, Masanobu	AP346
Yamada, Mitsuhiro	AP099, AP329
Yamada, Tomoko	AO212, AP176
Yamada, Yoji	AP300
Yamada, Yoshihito	AP208, AP660
Yamaguchi, Aya	AP173, AP498
Yamaguchi, Hiroyuki	AP543
Yamaguchi, Koichi	AP173, AP498
Yamaguchi, Masafumi	AO036
Yamaguchi, Masao	AP219, AP336, AP517
Yamaguchi, Saki	AP210
Yamaguchi, Takumi	AP300
Yamaji, Yoshikazu	AO072
Yamakawa, Hideaki	AP197
Yamaki, Haruka	AP547
Yamamoto, Akio	AP080, AP300, AP401
Yamamoto, Akito	AP421



Yamamoto, Hiroshi	AP267, AP500	Yang, Pan-Chyr	W03-2, S08-2, AO171, AO173, AP237, AP540, AP548, AP561
Yamamoto, Masatsugu	AP006, AO046	Yang, Se-Ran	AO022, AO160, AP186
Yamamoto, Masayuki	AP163	Yang, Shi-Pan	AP419
Yamamoto, Miake	AP389	Yang, Shuenn-Chen	AO173, AP237
Yamamoto, Naoyoshi	AP523	Yang, Suqiao	AP253
Yamamoto, Norio	AO020	Yang, Szu-Chun	AP118, AP534
Yamamoto, Suguru	AP533	Yang, Tsai-Yu	AP530
Yamamoto, Yuki	AP213, AP567	Yang, Tsung-Ming	AP546
Yamamoto-Mitani, Noriko	AP088	Yang, Wanling	AO210
Yamasaki, Kei	AO011	Yang, Yao-Hsu	AP225
Yamasawa, Hideaki	AP410	Yang, Yuanhua	AP253
Yamashita, Yoshiro	AO128, AP277, AP384, AP595	Yang-Nagano, Raychelle Ann	AP036, AP390
Yamasue, Mari	AP510	Yano, Ryoza	AP106, AP423
Yamauchi, Hiroyoshi	AP508	Yao, Hongmei	AP612
Yamauchi, Yasuhiro	AP088, AP103, AP217	Yao, Zong-Han	AP551
Yamawaki, Satoshi	AP020	Yaowei, He	AO066
Yan, Bingdi	AP117, AP278, AP375, AP516, AP521, AP607	Yarmus, Lonny	AO104
Yan, See Wan	AP189	Yaru, Gu	AP021
Yan, Xixin	AO056	Yasaratne, Duminda	AP279, AP647, AP648
Yan, Zhijun	AP565	Yashiki, Narumi	AO172, AP204, AP526
Yanagi, Shigehisa	AO176	Yasuda, Ikkoh	AP277
Yanagihara, Toyoshi	AO203	Yasuda, Yuichiro	AP006
Yanai, Hideki	AP088	Yasuhiro, Gon	AO215
Yang, Bumhee	AO206	Yasunaga, Hideo	AP103
Yang, Cheng-Ta	AO044, AP568	Yasuo, Masanori	AP267, AP500
Yang, Chih Jen	AP557	Yatera, Kazuhiro	AO011, AP271, AP483, AP488
Yang, Ching-Yao	AP227	Yatomi, Masakiyo	AO159, AP346
Yang, Dongyong	AP355	Ya-Tzu, Tsao	AP456
Yang, Henry	AO043	Yazawa, Itaru	AO033
Yang, Huaping	AP051	Ye, Bo	AP565
Yang, Ian	AO016	Ye, Feng	AO170
Yang, James Chih-Hsin	AP551, AP553	Yeap, Evie	AO118
Yang, Jeng-How	AP263, AP385	Yeh, Jih-I	AP160
Yang, Ji Young	AP124	Yeh, Tsu Fuh	S26-3
Yang, Junling	AP516, AP521, AP572	Yeo, Yoomi	AP175
Yang, Kuang-Yao	S19-1, AO047, AO054	Yf, Wei	AP209
Yang, Lan	AP257, AP330	Yi, Fang	AO142, AP169
Yang, Li	AO009	Yi, Xianghua	AP370
Yang, Mei-Chen	AP100	Yi-Chin, Chen	AP396
Yang, Mei-Chin	AP469	Yii, Anthony	APL004
Yang, Ming-Tao	AP617	Yilmaz Özgüven, M.Banu	AP295
		Yim, Jae-Joon	AO148



Yin, Hao	AP067
Yin, Qin	AO045
Yip, Wing Ho	AP615
Yishi, Li	AO106
Yokoba, Masanori	AP210
Yokoi, Toyoharu	AP515
Yokoi, Yoko	AP361
Yoneda, Ken	AO138
Yoneshima, Yasuomi	AO040
Yong, Mei Ching	AP619
Yong, Seung Hyun	AP473
Yong, Suk Joong	AP127, AP266
Yongheng, Gao	AP493
Yoo, Chul-Gyu	AO148
Yoo, Jung-Wan	AP134
Yoo, Kwang Ha	AP439, AP450
Yoo, Kwangha	AP127
Yoon, Bo Ra	AO051
Yoon, Hee-Young	AO083
Yoon, Ho Il	AP070
Yoon, Ho Joo	AP646
Yoon, Hyoung Kyu	AO018, AO099
Yoon, Hyoungkyu	AO076
Yoon, Sang Won	AP311
Yoon, Seong Hoon	AP218
York, Edwards	AO161
Yoshida, Masahiro	AO200
Yoshida, Shiomi	AO005, AO169
Yoshimura, Kunihiro	AP121, AP276
Yoshiura, Yukiko	AP061, AP488
Yosuke, Tanaka	AP188
You, Jung-Wan	AP299
Youn, Je-In	AP070
Young, Betty	AP112
Yozo, Sato	AP188
Yt, Yeh	AP209
Yu, Chong-Jen	S02-2, AO008, AO087, AO111, AO129, AO155, AO178, AP125, AP133, AP146, AP200, AP216, AP223, AP227, AP240, AP414, AP530, AP532, AP540, AP551
Yu, Chung-Chieh	W10-3, AP135
Yu, Chun-Hsiang	AP118
Yu, Haoda	AP364

Yu, Joanna	AP495
Yu, Kai-Lun	AP033, AP149, AP358
Yu, Kwong-Leung	APL017
Yu, Teng-Jen	AP135
Yu, Xuefei	AP212
Yuan, Haibin	AP049
Yuan, Yixiong	AP172, AP658
Yuba, Tatsuya	AP154
Yudhawati, Resti	AP659
Yue, Yongjian	AP053, AP580
Yulianti, Andriani	AOL001
Yu-Ling, Dai	AP454
Yumura, Takayuki	AP533
Yun, Yeojun	AP380
Yunchun, Zhou	AP034
Yun-Hen, Liu	AP396, AP456
Yunus, Faisal	AO158
Yurenko, Alla	AP331
Yuyang, Zhang	AP021

## Z

Z Soepandi, Priyanti	AO179
Zabolotskikh, Tatyana V.	AP490
Zahari, Zakaria	AP246
Zaini, Jamal	AP242, AP562
Zainuddin, Hafizah	AP246
Zalewski, Peter D	AO154
Zaw, Kyi Kyi	AP290
Zeng, Guangqiao	AO101
Zeng, Zhengpeng	AO112
Zhai, Qihui (Jim)	S21-2
Zhai, Zhenguo	AO137, AP253, AP577
Zhan, Chen	AO187, AO189
Zhan, Wenzhi	AP169
Zhang, Brad	AO161
Zhang, Cheng	AO089, AP105, AP409, AP614
Zhang, Ding	AO048
Zhang, Donghui	W11-6, AO061, AP144
Zhang, Dongying	AP126, AP444, AP448, AP625
Zhang, Henghui	AP542
Zhang, Hong	AO130
Zhang, Hui	AP516, AP521
Zhang, Jia-Hao	AO021

Zhang, Jie	AP357	Zhong, Nanshan	S08-1, AO045, AO066, AO109, AO187, AO189, AO199, AP115
Zhang, Jinlan	AP573	Zhong, Yijue	AO075
Zhang, Juan	AO004	Zhou, Bo	AP257, AP330, AP451
Zhang, Jue	AO089	Zhou, Cai	AO117
Zhang, Lanxi	AP109, AP600	Zhou, Chengzhi	AO045
Zhang, Miaomiao	AP025	Zhou, Jianmeng	AO142, AP169
Zhang, Qin	AO004	Zhou, Mi	AP172
Zhang, Qing	AO004	Zhou, Xiangdong	AP009, AP023
Zhang, Qinghua	AP193, AP590	Zhou, Ying	AP067
Zhang, Qun	AP193, AP375	Zhou, Yumin	AO109
Zhang, Rong	AO127	Zhou, Yuqi	AP172, AP657, AP658
Zhang, Tiantuo	AP172, AP657, AP658	Zhou, Zewei	AO073, AP481
Zhang, Wei	AP481	Zhu, Junfei	AP129
Zhang, Wenping	AP131	Zhu, Lihua	AP109
Zhang, Xianghua	AO056	Zhu, Weihua	AP029
Zhang, Xiang-Yan	AP105	Zhu, Ye-Han	AO034
Zhang, Xin	AP039	Zhu, Yu	W11-3
Zhang, Yajuan	AP565	Zhu, Zheng	AO045, AO190
Zhang, Yalei	AP542	Zhu, Zhixing	AO055, AP355
Zhang, Ye	AP105	Ziying, Li	AO117
Zhang, Youzhi	AO048	Zotomayor, Ricardo	AP390
Zhang, Yue	AO195, AP538	Zou, Bangyu	AO101, AP402
Zhang, Yunxia	AP253	Zou, Jibin	AP031
Zhang, Zhu	AO137, AP577	Zou, Xiaoling	AP658
Zhang, Zili	AP113	Zuzannawati	AP569
Zhao, Hulei	AP183, AP511		
Zhao, Kun	AP538		
Zhao, Li	AO199		
Zhao, Yang	AP148		
Zhao, Yanni	AP409		
Zhao, Zhanqi	AO021		
Zhehui, Xie	AP021		
Zheng, Baihong	AP572		
Zheng, Jingping	AP444		
Zheng, Jinping	AO037, AP120, AP126, AP448, AP625		
Zheng, Peiyan	AO070, AO145, AP063, AP345, AP387, AP440		
Zheng, Wanchun	AP109		
Zheng, Yonghua	AO048		
Zhihong, Xian	AP026		
Zhong, Changhao	AO010		
Zhong, Ding	AP031		





# SYNDROMIC TESTING FROM BIOFIRE:

## The Right Test, the First Time.

Syndromic Testing from BioFire has set the standard for molecular infectious disease diagnostic testing on a global level. Using a syndromic approach helps you identify infectious agents that produce similar symptoms in patients. BioFire's innovative PCR technology provides answers in a clinically actionable timeframe using any of the BioFire® FilmArray® Panels\*:



**Respiratory Panel:** Enable a faster, more informed diagnosis that can reduce the usage and duration of antibiotic administration and decrease length of hospital stay.



**Gastrointestinal Panel:** Quickly ruling in or out enteric pathogens may improve patient care by preventing misdiagnosis and mistreatment.



**Blood Culture Identification Panel:** Reduce time to effective therapy and antimicrobial de-escalation which may improve patient survival rates.



**Meningitis/Encephalitis Panel:** Quickly identifying a CNS infection as viral, bacterial or fungal may reduce patient mortality.



**Syndromic Testing: The Right Test, The First Time.**

Respiratory • Blood Culture Identification • Gastrointestinal • Meningitis/Encephalitis

BioFire® FilmArray® 2.0 Instrument 衛部醫器輸字第027685號

BioFire® FilmArray® RP Panel 衛部醫器輸字第028304號

BioFire® FilmArray® GI Panel 衛部醫器輸字第029151號

BioFire® FilmArray® BCID Panel 衛部醫器輸字第029323號

BioFire® FilmArray® ME Panel 衛部醫器輸字第029524號

\*Data on file, BioFire Diagnostics.





安立適<sup>®</sup>  
**ALECENSA**<sup>®</sup>  
alectinib 150 mg capsules

BEYOND BARRIERS.  
BEYOND EXPECTATIONS.

有效 舒適

**PFS** 顯著改善

**CNS** 惡化時間顯著改善

**ALECENSA<sup>®</sup> 處方說明**

**適應症：**ALECENSA<sup>®</sup> 適用於 ALK 陽性的晚期非小細胞肺癌 (NSCLC) 患者。

**用法用量：**ALECENSA<sup>®</sup> 的建議劑量為 600 毫克與食物併服每日兩次。應持續服用 ALECENSA<sup>®</sup>，直到出現疾病惡化的現象或無法耐受的毒性反應為止。切勿打開膠囊或將膠囊內容物溶化使用。如果漏服一劑 ALECENSA<sup>®</sup>，或是在服用一劑 ALECENSA<sup>®</sup> 後發生嘔吐反應，應於排定的時間服用下一劑。

**警語：**可能不良反應包括肝毒性、間質性肺炎 (ILD) / 肺炎、腎功能不全、心搏徐緩、嚴重肌痛與肌酸磷酸激酶 (CPK) 升高、胚胎 - 胎兒毒性等。

18-ALC-04-A

使用前請詳閱說明書警語及注意事項 詳細資料備索  
衛部藥輸字第 027028 號 / 北市衛藥廣字第 107060333 號

台灣中外製藥股份有限公司  
10548 台北市松山區敦化北路 260 號 3 樓

電話：(02)2715-2000  
傳真：(02)2715-2100

Innovation all for the patients



台灣中外製藥股份有限公司



*A Consideration of the Balance Between  
Efficacy and Safety*



**Cravit<sup>®</sup>**  
**LEVOFLOXACIN**

- **New broad spectrum antibacterial agent**
- **Excellent clinical efficacy**

北市衛藥廣字第106030006號  
衛署藥製字第057185號 Cravit<sup>®</sup> IV Solution for Infusion 5mg/ml  
衛署藥製字第047516號 Cravit<sup>®</sup> F.C. Tablets 500mg

使用前詳閱說明書警語及注意事項

CRV150301-DSTW



**DAIICHI SANKYO TAIWAN LTD.**

TEL : +886-2-8772-2250 FAX : +886-2-8772-2251 7F.-1, No.308, Sec. 2, Bade Rd., Zhongshan Dist., Taipei City, Taiwan (R.O.C.)





MORE THAN MEDICINE



台灣禮來股份有限公司  
台北市復興北路365號11樓

P-MKT-ONC-015-18-Oct-22

**KEYTRUDA**<sup>®</sup>  
(pembrolizumab) injection 100 mg

**吉舒達**<sup>®</sup>

MY IMMUNE SYSTEM + KEYTRUDA = HELP TO FIGHT TUMORS

### 適應症

#### 1. 黑色素細胞瘤

治療無法切除或轉移性黑色素瘤患者；

#### 2. 非小細胞肺癌

單獨使用，用於第一線治療經確效之試驗檢測出腫瘤高度表現PD-L1 (tumor proportion score (TPS) ≥ 50%)的轉移非小細胞肺癌患者。患者不具有EGFR或ALK腫瘤基因異常者。  
單獨使用，治療接受含鉑化學治療後疾病惡化且其經確效之試驗檢測出腫瘤高度表現PD-L1 (tumor proportion score ≥ 50%)的晚期非小細胞肺癌患者。患者若具有EGFR或ALK腫瘤基因異常者，則須經EGFR或ALK抑制劑治療後出現疾病惡化現象。  
與pemetrexed及carboplatin併用，做為轉移性，不具有EGFR或ALK腫瘤基因異常之非鱗狀非小細胞肺癌的第一線治療藥物。此適應症是以腫瘤療效反應率與無惡化存活期為基礎，獲得加速核准。此適應症的後續審查核准可能視療效確認試驗中之臨床效益的確認結果與陳述內容而定。

#### 3. 典型何杰金氏淋巴瘤

治療罹患頑固性或先前至少已接受三種治療仍復發之典型何杰金氏淋巴瘤的患者。此適應症是以腫瘤療效反應率與療效反應持久性為基礎，獲得加速核准。此適應症的後續審查核准可能視療效確認試驗中之臨床效益的確認結果與陳述內容而定。

#### 4. 頭頸部鱗狀細胞癌

治療在使用含鉑化學治療期間或治療後出現疾病惡化的復發或轉移性頭頸部鱗狀細胞癌 (HNSCC) 的患者。  
本項適應症係依據腫瘤整體反應率及治療反應持續時間獲得加速核准。適應症的持續核准須要後續確認性試驗(confirmatory trial)證明確實達到臨床效益。

#### 5. 泌尿道上皮癌

治療接受含鉑化學治療期間或治療後出現疾病惡化現象的局部晚期或轉移性泌尿道上皮癌患者。  
治療不適合接受cisplatin化學療法的局部晚期或轉移性泌尿道上皮癌患者。適應症係依據腫瘤整體反應率及反應持續時間加速核准。此適應症仍須執行確認性試驗以證明其臨床效益。

### 禁忌症

無。

### 警告及注意事項

合併感染B型或C型肝炎患者  
本藥品黑色素瘤及非小細胞肺癌之臨床試驗皆排除B型或C型肝炎患者(包括無症狀帶原者)。本藥品對於該族群之安全性仍未知，因此目前尚無足夠資料用以建議本藥品使用於合併感染B型或C型肝炎患者。

#### 免疫媒介性肺炎(Immune-Mediated Pneumonitis)

KEYTRUDA可能會造成免疫媒介性肺炎，包括死亡案例。應監視患者是否出現肺炎的徵兆與症狀。

#### 免疫媒介性結腸炎(Immune-Mediated Colitis)

KEYTRUDA可能會造成免疫媒介性結腸炎。應監視患者是否出現結腸炎的徵兆與症狀。

#### 免疫媒介性肝炎(Immune-Mediated Hepatitis)

KEYTRUDA可能會造成免疫媒介性肝炎。應監測患者的肝功能是否發生變化。

#### 免疫媒介性內分泌病變(Immune-Mediated Endocrinopathies)

##### 腦下垂體炎(Hypophysitis)

KEYTRUDA可能會造成腦下垂體炎。應監視患者是否出現腦下垂體炎的徵兆與症狀(包括腦下垂體功能低下和腎上腺功能不足)。

##### 甲狀腺病變(Thyroid Disorders)

KEYTRUDA可能會造成甲狀腺失調，包括甲狀腺機能亢進、甲狀腺機能低下及甲狀腺炎。應監測患者的甲狀腺功能是否發生變化(開始治療時、治療期間(定期)、以及臨床評估顯示有必要時)，以及是否出現甲狀腺失調的臨床徵兆與症狀。

##### 第1型糖尿病(Type 1 Diabetes mellitus)

KEYTRUDA可能會造成第1型糖尿病，包括糖尿病酮酸中毒。應監測患者是否出現高血糖或糖尿病的其他徵兆與症狀。

#### 免疫媒介性腎炎與腎功能不全(Immune-Mediated Nephritis and Renal Dysfunction)

KEYTRUDA可能會造成免疫媒介性腎炎。應監測患者的腎功能是否發生變化。

#### 免疫媒介性皮膚不良反應(Immune-Mediated Skin Adverse Reactions)

可能發生免疫媒介性皮疹，包含SJS、TEN(有些為死亡案例)、剝落性皮膚炎以及大皰性類天皰瘡。疑似發生嚴重皮膚反應時，應進行監控並排除其他導因。如果出現SJS或TEN的徵兆或症狀，即停用KEYTRUDA，併轉介至專科室進行評估及治療。一旦確診為SJS或TEN，即永久停用KEYTRUDA。

#### 其他免疫媒介性不良反應(Other Immune-Mediated Adverse Reactions)

KEYTRUDA可能會造成其他臨床上重要的免疫媒介性不良反應。免疫媒介性不良反應可能影響多種身體系統同時發生。  
疑似發生免疫媒介性不良反應時，一定要進行適當的評估，以確定病因而排除其他導因。應依據不良反應的嚴重程度，暫時停用KEYTRUDA及投予皮質類固醇。

#### 輸注相關反應(Infusion-Related Reactions)

KEYTRUDA可能會造成嚴重或危及生命的輸注相關反應。應監測患者是否發生輸注相關反應的徵兆與症狀，包含寒顫、畏寒、呼吸喘鳴聲、搔癢、潮紅、皮疹、低血壓、低血氧症及發燒。

#### 接受異體造血幹細胞移植之併發症(complications of allogeneic HSCT)

KEYTRUDA治療前接受異體造血幹細胞移植  
在過去曾接受過異體造血幹細胞移植(HSCT)的病患中，曾有在接受KEYTRUDA治療後發生移植物對抗宿主疾病(GVHD)的案例。

#### KEYTRUDA治療後接受異體造血幹細胞移植之併發症

包括死亡案例的免疫媒介性併發症曾發生於接受KEYTRUDA治療後進行異體造血幹細胞移植(HSCT)的患者。

#### 胚胎胎兒毒性

根據其作用機制，對孕婦投予KEYTRUDA會造成胎兒傷害。如果在懷孕期間使用本品，或患者在使用本品期間懷孕，應告知患者本品對胎兒造成傷害的可能性。應囑咐具生育能力的女性患者，在使用KEYTRUDA治療期間應採取高度有效的避孕措施，在使用最後一劑KEYTRUDA之後亦應繼續避孕4個月。

其他仿單內容，處方前請詳閱藥品仿單說明書。



**MSD**

美商默沙東藥廠股份有限公司台灣分公司  
台北市信義路五段106號12樓  
電話(02)6631-6000

Copyright © 2018 Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc.  
All rights reserved.  
ONCO-1172723-0003 06/18 (ONCO-1172723-0002 05/17) SSI Based on MK3475-TWN-2018-017325  
衛部菌疫輸字第001025號  
北市衛藥廣字第107060412號



*Dedicated to Man's Fight  
against Disease and Pain*







## From hospital to home

Visit the ResMed booth today to learn how to transition your patients from hospital to home.

**Find out more at [ResMed.com](http://ResMed.com)**







# *Doing now what patients need next*

We believe it's urgent to deliver medical solutions right now – even as we develop innovations for the future. We are passionate about transforming patients' lives. We are courageous in both decision and action. And we believe that good business means a better world.

That is why we come to work each day. We commit ourselves to scientific rigour, unassailable ethics, and access to medical innovations for all. We do this today to build a better tomorrow.

We are proud of who we are, what we do, and how we do it. We are many, working as one across functions, across companies, and across the world.

**We are Roche.**



**OLYMPUS**



 **VERAN**<sup>TM</sup>  
MEDICAL TECHNOLOGIES



總代理 元佑實業







# Life around the tree







Grasping every opportunity,  
not gasping for air



**Symbicort®**  
budesonide/formoterol

藥品名: 吸必獲® 氯化糖醇劑 160/4.5 微克/劑量; Symbicort Rapihaler® 160/4.5 µg/dose  
適應症: 氣喘 (Asthma) Symbicort Rapihaler 適用於適合使用吸入型皮質類固醇及長效β2作用劑 (β2-agonist) 合併治療的氣喘 (asthma) 常規治療。以吸入型皮質類固醇和“需要時”吸入短效β2作用劑未能充分控制氣喘的成人。慢性阻塞性肺部疾病 (COPD): Symbicort Rapihaler 適用於患有中至重度COPD、頻繁出現症狀及有惡化病史之病人的常規治療。使用劑量: 氣喘/Symbicort維持療法: 以Symbicort作為規律的維持用藥物, 並以另一種速效型支氣管擴張劑作為急性緩解藥物。成人 (18歲及以上) 每天2次, 每次吸入2劑。有些患者可能需要每天2次, 每次吸入多達4劑, 作為維持劑量。青少年 (12-17歲) 每天2次, 每次吸入2劑。慢性阻塞性肺部疾病成人 (18歲及以上) 每天2次, 每次吸入2劑。每日最大劑量吸入4劑。老年病人並不需要調整劑量。沒有呼吸功能不全病人使用Symbicort Rapihaler時, 正確的影響會在藥譜中高度指出。病人從吸入器, 需兩人從吸入器, 同時同步透過吸嘴吸氣, 藥物會隨著吸入的空氣進入呼吸道。指導病人以下事項是相當重要的: 仔細閱讀仿單的使用說明, 每次使用前輕搖吸入器, 適當搖動吸入器, 當吸入器是新的, 超過一週未使用, 或曾掉頂蓋, 則對空 (遠離臉部) 搖動兩次, 藉此填裝吸入器; 將吸嘴含入口中, 緩慢地深深吸氣, 並且同時確實按壓吸入器, 以釋放藥物, 閉氣10秒鐘或直到不舒服為止; 再次提昇吸入器, 並且重複上述步驟; 吸入維持劑量後, 用水漱口, 以減低發生口腔菌的風險; 定期 (至少每週一次) 用乾淨的乾布擦拭吸入器的吸嘴; 不要把吸入器放進水中。禁忌: 對 budesonide、formoterol 或任何賦形劑過敏。特殊警告及注意事項: 要停止治療時, 建議以逐漸降低劑量的方式停藥, 而且不可突然停藥。在症狀惡化期間, 或者氣喘症狀明顯加重或突然惡化時, 不要調低Symbicort Rapihaler治療。如何其他吸入療法一樣, 可能會發生逆彈性支氣管症 (paradoxical bronchospasm) 並伴隨用藥命立即有哮喘增加之現象。這時應停用Symbicort Rapihaler。必要時, 應重新評估並改用其他療法。兒童每劑吸入吸入型皮質類固醇, 應定期監測其身高、若生長減速, 應重新評估治療。可能減少吸入型皮質類固醇的劑量。患有甲狀腺毒症、癩病、未癒之低血鈣症、肥厚性阻塞性心臟病、主動脈瓣下狹窄、重度高血壓、血管攣縮或其他嚴重的心血管疾病 (除缺血性心臟病、心導管通或嚴重心臟衰竭) 的病人, 使用Symbicort Rapihaler治療時, 應特別小心。如同所有之β2作用劑, 糖尿病病人使用本藥時, 應加強血糖控制。副作用: 常見副作用有心悸、口腔念珠菌球菌感染、肺炎 (COPD病人)、頭痛、頭暈、喉乾、喉癢 (頻率≥1%, <10%)

藥品名: 吸必獲® 穩定型吸入劑 160/4.5 微克/劑量; Symbicort® Turbuhaler® 160/4.5 µg/dose (Budesonide/formoterol)  
適應症: 氣喘 (Asthma) 適合使用短效β2作用劑 (β2-agonist) 合併治療的支氣管哮喘 (bronchial asthma), 慢性阻塞性肺部疾病 (COPD) 適用於18歲以上患有慢性阻塞性肺部疾病 (COPD), 使用氣管擴張劑後第一秒吐氣量 (post-bronchodilator FEV1) 少於預測值之70%, 及已定期使用支氣管擴張劑仍有惡化病史的兩患者之治療。使用劑量: 氣喘 (Asthma) 以Symbicort Turbuhaler治療劑量分為二種: A. Symbicort Turbuhaler維持療法: 以Symbicort Turbuhaler作為規律的維持用藥物, 並輔以另一種速效型支氣管擴張劑作為急性緩解藥物。建議劑量: 成人 (18歲及以上) 每天2次, 每次吸入1-2劑。有些病人可能需要每天2次, 每次多達4劑。青少年 (12-17歲) 每天2次, 每次吸入1-2劑。兒童 (六歲及以上) 每天2次, 每次吸入1劑。每天最大維持劑量是吸入2劑。B. Symbicort Turbuhaler維持療法: 以Symbicort Turbuhaler作為規律的維持用藥物, 並作為惡化症狀之需要時使用。建議劑量: 成人和青少年 (12歲及以上) 一般維持劑量是每天1次, 每次吸入1劑; 或每天2次, 每次吸入1劑。有些病人可能需要使用每天2次, 每次吸入2劑的維持劑量。病急速效症狀後增加吸入劑量, 但每次使用不得吸入超過2劑。每日可在短時間內使用最高共計12劑之總劑量。兒童 (小於12歲) 不建議以Symbicort Turbuhaler 160/4.5 µg/dose 為兒童的維持和緩解療法藥物。慢性阻塞性肺部疾病 (COPD) 建議劑量: 成人: 每天2次, 每次吸入2劑。特殊病患族群 老年患者並不需要調整劑量。目前尚無肝、腎功能受損之患者使用Symbicort Turbuhaler的資料可供參考。使用方法: 仔細閱讀仿單未盡的使用/操作說明; 用力地及深深地由吸嘴吸氣, 以確保最理想的劑量遞送至肺部; 不要對吸嘴噴呼氣; 使用後儘量上Symbicort Turbuhaler的瓶蓋; 吸入處方劑量後, 用水漱口以減低發生口腔菌的危險性。如果病人出現出現口痛, 於吸入藥時吸嘴後也應漱口。禁忌: 對 budesonide、formoterol 或乳糖 (含有少量奶蛋白) 過敏者。特殊警告及注意事項: 需要停止治療時, 應以逐漸降低劑量之方式停藥且不應突然停藥。在症狀惡化期間, 或者病人出現明顯急性惡化或急性惡化時, 不應調低於Symbicort Turbuhaler治療。如同其他吸入療法一樣, 有可能引起逆彈性支氣管症 (paradoxical bronchospasm) 並伴隨在給藥後立即有與劑量增加成比例不適之現象。若患者發生逆彈性支氣管症, 則應停用Symbicort Turbuhaler。兒童長期使用吸入型皮質類固醇, 應定期監測其身高、若生長減速, 應重新評估治療是否需減少吸入型皮質類固醇劑量。對患有甲狀腺毒症、癩病、未癒之低血鈣症、肥厚性阻塞性心臟病、主動脈瓣下狹窄、重度高血壓、血管攣縮或其他嚴重的心血管疾病 (包括缺血性心臟病、心導管通或嚴重心臟衰竭) 的患者, 給予Symbicort Turbuhaler治療時, 應特別小心觀察。如同所有之β2作用劑, 糖尿病患者使用本藥時, 應加強血糖之控制。副作用: Symbicort Turbuhaler劑量中含有乳糖 (<1毫克/劑)。通常此量對乳糖耐不良之患者不致引起問題。賦形劑含有少量的奶蛋白, 可能會引起過敏反應。副作用: 常見副作用有心悸、口腔念珠菌球菌感染、肺炎 (COPD病人)、頭痛、頭暈、喉乾、喉癢 (頻率≥1%, <10%)