



APSR

23rd Congress of the Asian Pacific
Society of Respirology
TAIPEI / TAIWAN



APSR

**23rd Congress of the Asian Pacific
Society of Respirology**

TAIPEI, TAIWAN

29 November - 2 December 2018

Taipei International Convention Center



Organized by

**PRELIMINARY
PROGRAM**

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: Introduction and demonstration**
Beth Lingenfelter (United States)
- 10:00 **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 **W01-4 Results interpretation (FilmArray Pneumonia Panel)**
Beth Lingenfelter (United States)
- 11:30 **Discussion**
All speakers and delegates

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)

09:00-12:30

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: Akio Niimi (Japan)

Chair: Po-Jui Chang (Taiwan)

- 14:00 **Opening**
 Akio Niimi (Japan)
- 14:05 **W07-1 Management of severe asthma using biologics with greater precision**
 Hisako Matsumoto (Japan)
- 14:45 **Discussion**
- 15:00 **W07-2 Bronchial thermoplasty for the treatment of severe asthma: Who are the right patients?**
 Akio Niimi (Japan)
- 15:40 **Discussion**
- 15:55 **W07-3 Corticosteroid insensitivity in severe asthma: Mechanisms and clinical implication**
 Po-Jui Chang (Taiwan)
- 16:35 **Discussion**
- 16:50 **Closing**
 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)

14:00-17:30

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 aspiration 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- β 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_{25-75%} 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 work 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 investigator awards

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 oligometastases, 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 Ellsbeth 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 iPSC 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- κ 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 investigator awards

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- β /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 Luetlich, 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)

- 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- κ 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 α 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: Augusto A. Litonjua (United States)

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)

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 Pirompanich (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 Regulative 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 Chatsuwana (Thailand)
- 14:40 **AO168 Application of transmission electron microscopy in the etiologic 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 α -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 β**
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⁺CRTh2⁺ 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 FEF₂₅₋₇₅ 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, Renpeng 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 3rd 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	AP001-AP026
Critical Care Medicine	AP130-AP158; AP472; AP659; AP667; APL006
Environmental & Occupational Health and Epidemiology	AP159-AP170
Interstitial Lung Disease	AP171-AP190; AP192-AP198; AP660
Lung Cancer	AP199-AP243; AP665
Respiratory Infections (non-tuberculous)	AP254-AP283; AP662; APL008

Poster Session II 14:00-15:30

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

Saturday 1 December

Poster Session III 11:00-12:30

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

Poster Session IV 14:00-15:30

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

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 FEF₂₅₋₇₅ 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)

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

Bronchoscopy and interventional techniques

Chair: Phan Nguyen (Australia)

AP027 Using guiding device as assisted tool with endobronchial ultrasound transbronchial biopsy to get adequate rebiopsy sample

Lih-Yu Chang*, Jen-Chung Ko, Chao-Chi Ho (Taiwan)

AP028 Radial probe endobronchial ultrasound assisted conventional transbronchial needle aspiration in the diagnosis of solitary peribronchial pulmonary lesion located in the segmental bronchi

Zhiang Huang*, Haidong Huang, Jin Han, Yibo Shen, Hui Shi, Qin Wang, Yunye Ning, Chong Bai, Qiang Li (China), Michael Simoff (United States)

AP029 A novel method for treating the refractory and severe benign central airway stenosis with oscillating positive expiratory pressure--two cases report

Haidong Huang, Weihua Zhu*, Hao Qin, Qin Wang, Chong Bai (China)

AP030 A case of bronchial foreign body aspiration caused by Japanese spiny lobster's antenna

Manabu Suzuki*, Eriko Miyawaki, Kawajiri Kohei, Yoshie Tsujimoto, Masao Hashimoto, Teruhiko Sato, Motoyasu Ikura, Shinyu Izumi, Yuichirou Takeda, Haruhito Sugiyama (Japan)

AP031 A case of bronchial mucoepidermoid carcinoma treated by photodynamic therapy

Fa Long*, Peng Fu, MingHui Chen, WenTing Huang, Liang Long, JiBin Zou, Ding Zhong (China)

AP032 Does bronchoscopy have a risk of postoperative recurrence?

Naoki Watanabe*, Takuya Inoue, Akira Tadokoro, Nobuhiro Kanaji, Norimitsu Kadowaki, Tomoya Ishii (Japan)

AP033 Factors influence the diagnostic yield of endobronchial ultrasound-guided transbronchial biopsy in peripheral pulmonary lesions

Ching-Kai Lin*, Kai-Lun Yu, Yueh-Feng Wen, Chao-Chi Ho (Taiwan)

AP034 Safety evaluation of rigid bronchoscopies and the therapeutic procedures

Zhou Yunchun*, Huang Haidong (China)

AP035 Use of cryobiopsy during semi-rigid pleuroscopy

Mei Fong Liew*, Ju Ee Seet, Brendan Nghee Kheem Pang, Hiang Ping Chan, Pyng Lee (Singapore)

AP036 Endobronchial balloon tamponade achieving successful control of massive hemoptysis secondary to metastatic lung disease: A case report

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)

AP037 Evaluation the physiological changes of central airway on multi-detector computed tomography

Yahua Li*, Lei Li, Kewei Ren, Xinwei Han (China)

AP038 Initial experience on percutaneous catheter drainage for respiratory diseases in Sri Lanka- an audit

Asela Bandara, Niroschan Abeygunawardane, Sachini Seneviratne, Samadara Nakandala, Sajani Dharmadasa, Dushantha Madegedara* (Sri Lanka)

AP039 A case of right lung reexpansion due to tracheal perforation

Xin Zhang, HaiDong Huang, Jie Ren* (China)

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

Cell and molecular biology

Chair: Ching-Hsien Chen (United States)

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

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

Clinical allergy and immunology

Chair: Kang-Yun Lee (Taiwan)

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

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

Clinical respiratory medicine

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

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

	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)

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

AP104	Correlation between respiratory capacity, body mass index, six-minutes walking test, resting heart rate and severity of chronic obstructive pulmonary disease
	Muhammad Amin*, Robert Christian Naiborhu (Indonesia)
AP105	SAM protects against autoimmune emphysema of rats
	Cheng Zhang*, Ye Zhang, Xia Li, Xiang-Yan Zhang (China)
AP106	Risk factors for the acute exacerbation of chronic obstructive pulmonary disease
	Keitaro Nakamoto*, Yuka Sasaki, Masafumi Shimoda, Kozo Morimoto, Ryoza Yano, Maki Miyamoto, Hiroyuki Kokuto, Yoshiaki Tanaka, Hideo Ogata, Hajime Goto (Japan)
AP107	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
	Ruby Rose Bisquera*, Bernice Ong-Dela Cruz (Philippines)
AP108	Quality of life of patients with chronic obstructive pulmonary disease based on clinical phenotypes
	Chee-Shee Chai*, Chong-Kin Liam, Yong-Kek Pang, Diana-Leh-Ching Ng, Mau-Ern Poh, Chee-Kuan Wong, Jiunn-Liang Tan (Malaysia)
AP109	Bufei Yishen granules suppress alveolar epithelial apoptosis in chronic obstructive pulmonary disease rats: Via PERK/ eIF2α signaling
	Yange Tian*, Jiansheng Li, Jindi Ma, Lanxi Zhang, Mingming Wu, Haoran Dong, Wanchun Zheng, Lihua Zhu, Shuai Liu (China)
AP110	A new parallel two-step algorithm for the treatment of COPD
	Keiji Oishi*, Kazuto Matsunaga (Japan)
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	Piyawan Kuwalairat*, Soodrutai Ratanaopas (Thailand)
AP112	Effectiveness of a pulmonary rehabilitation program in a rehabilitation hospital day centre for chronic obstructive pulmonary disease patients from primary care clinics
	Betty Young*, P N Tsui (Hong Kong)
AP113	NO₂ inhalation causes impaired pulmonary function and hematological derangement in rats and intervention study
	Zili Zhang (China)
AP114	Environmental factors and COPD in the development of lung cancer
	Joo Hun Park*, Jin Hee Jung, Song Vogue Ahn (Korea)
AP115	The SNP rs61758360 loci reducing the risk of chronic obstructive pulmonary disease
	Yan Wang*, Mingmei Xiong, Lingzhu Chen, Nanshan Zhong, Wenju Lu (China)
AP116	Glycopyrrolate in high-risk COPD, a drug utilization surveillance study in India (GOAAL): Post-hoc analyses
	Krishnaprasad K, Mahashur Ashok*, Sagar C, Himanshu Pophale, Gyanendra Agarwal, Aaratrika Das, Prashant Katke (India)
AP117	Study on the effects of pulmonary rehabilitation exercise in patients with chronic obstructive pulmonary disease in stable period
	Bingdi Yan*, Rong Gao, Danhua Qu, Peng Chen, Tiangang Ma (China)

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

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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)
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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)

AP138	Acalculous cholecystitis: A fatal complication in post-lung transplantation patient- a case report
	Hsin-Yueh Fang*, Ko-Wei Chang, Wei-Hsun Chen, Han-Chung Hu, Kuo-Chin Kao, Yun-Hen Liu (Taiwan)
AP139	Prediction of prone position ventilation response for acute respiratory distress syndrome with high-resolution computed tomography
	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)
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	Wivina Bancoro (Philippines)
AP141	Migrating orthopedic pin presenting as hemoptysis in a 10 year old male: A case report
	Wivina Bancoro (Philippines)
AP142	Factors associated with poor outcome in sepsis patients with liver cirrhosis
	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)
AP143	Weaning practices among patients with pneumonia on ventilatory support at Chinese General Hospital and Medical Center
	Charles Erwin Cabus*, John Noel Chan (Philippines)
AP144	Neutrophil-to-lymphocyte ratio and blood platelet count can be prognostic markers in acute respiratory distress syndrome patients of different immune states
	Donghui Zhang*, Ying Wang (China)
AP145	Hypercapnia during weaning from prolonged venovenous extracorporeal membrane oxygenation in acute respiratory distress syndrome
	Hsiu-Nien Shen*, Hui-Lin Huang (Taiwan)
AP146	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
	Nin-Chieh Hsu*, Chong-Jen Yu (Taiwan)
AP147	Factors associated with high flow oxygen therapy failure in acute hypoxemic respiratory failure patients with idiopathic pulmonary fibrosis
	Min Seo Ki*, Joo Han Song (Korea)
AP148	First case of acute respiratory distress syndrome and alimentary tract hemorrhage following mass inhalation of methylisothiazolinone
	Dan Han, Hanhan Liu*, Guoliang Li, Yang Zhao, Xuanzi Sun, Jingjing Sun, Yu Liu (China)
AP149	Physical function after pulmonary rehabilitation as a predictor of weaning success and short-term and mid-term survival in patients requiring prolonged mechanical ventilation
	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)
AP150	An optimizing medical management for acute hypercapnic respiratory failure due to acute exacerbation COPD
	Nancy Sovira (Indonesia)

AP151	Clinical parameters and serum biomarker for influencing ICU mortality in severe sepsis patients Chia-Cheng Tseng*, Wen-Feng Fang, Meng-Chih Lin (Taiwan)
AP152	Single-centre retrospective study of admissions to the Medical Intensive Care Unit (MICU) and the utility of lactate procalcitonin product in predicting mortality Ying Na Ho, Jason Martin D'Souza*, Aruni Seneviratna, Sennen Jin Wen Lew, Abisheganaden John Arputhan, Ser Hon Puah (Singapore)
AP153	Extracorporeal membrane oxygenation application in pregnant patient with urosepsis associated acute respiratory distress syndrome—a case report Jia-Shiuan Ju*, Yu-Chen Huang, Chung-Chi Huang (Taiwan)
AP154	The effectiveness of bronchoscopy in respiratory failure patients Tatsuya Yuba*, Naoko Okura, Aosa Sasada, Shiho Goda, Hiroyuki Fujii, Ryosuke Hamashima, Taisuke Tsuji, Shinsuke Shiotsu, Chieko Takumi, Noriya Hiraoka (Japan)
AP155	Severe influenza in the intensive care units in 2018---experience of a regional hospital Wei-Sheng Chung (Taiwan)
AP156	Incidence and clinical outcomes of delirium in critically ill medical patients in a Tertiary University Teaching Hospital Napplika Kongpolprom*, Thunyawee Sermkaew (Thailand)
AP157	Different PaO₂/FIO₂ measuring time categorizes different severity of lung injury in patients with acute respiratory distress syndrome—a prospective study Wei-Lun Liu*, Wan-Ling Chen, Shu-Chen Kung, Ching-Min Wang (Taiwan)
AP158	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 Hui-Ju Hsu, Chan-Ching Chu, Nian-Jhen Lin, Ai-Jia Tien, Shin-Lung Chang , Cheng Yu Chang* (Taiwan)
AP659	Influenza A pandemic (H1N1) 2009 virus infection with death limb extremities inferior and Acute Respiratory Distress Syndrome (ARDS) : A case report Ariani Permatasari*, Winariani Koesoemoprodjo, Resti Yudhawati, Arief Bakhtiar (Indonesia)
AP667	Assessment of quality of sleep in patients recovering from critical care illness and factors affecting it Brijesh Prajapat*, A S sandhya (India)
APL006	Outcomes of unplanned extubation in ordinary ward are similar to those in intensive care unit: A retrospective case-control study 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)

AP159	Particulate matter increases eosinophilic airway inflammation Juwhan Choi, Jee Youn Oh, Young Seok Lee, Kyung Hoon Min, Gyu Young Hur, Sung Yong Lee, Jae Jeong Shim, Kyung Ho Kang* (Korea)
AP160	The effects of ambient fine particulates on 1-year changes of lung function among the elders in Taiwan 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)

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

Interstitial lung disease

Chair: Chi-Wei Tao (Taiwan)

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	Debra Sandford*, Hubertus Jersmann, Paul Reynolds, Bernhard Baune (Australia)
AP172	Difference of the clinical characteristics and outcome between connective tissue diseases associated interstitial lung disease and idiopathic pulmonary fibrosis
	Dingyun Feng*, Mi Zhou, Yixiong Yuan, Jiasheng He, Heliang Li, Yuqi Zhou, Tiantuo Zhang (China)
AP173	Clinical features of patients with clinically amyopathic dermatomyositis who have circulating anti-MDA5 autoantibodies with interstitial pneumonia

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

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

AP199 A case of resected lung metastasis from uterine leiomyosarcoma

Hiromitsu Domen*, Yasuhiro Hida, Midori Hashimoto, Yuma Aoki, Kazuho Inoko, Syotaro Furukawa, Kazuomi Ichinokawa, Hidehisa Yamada (Japan)

AP200 Fucosyltransferase 4 promotes cancer metastasis via enhancing glycosylation of EGFR/TGFBR signaling network in non-small cell lung cancer

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)

AP201 Experience on Hyperprogression Disease (HPD) by immunotherapy for lung cancer

Osamu Honjo*, Akihisa Fujita, Toyohiro Saikai, Mie Sotoshiro, Hirotsugu Takabatake, Yasuto Honda, Hiroyuki Koba, Kyuichiro Sekine (Japan)

AP202 Stereotactic Body Radiotherapy (SBRT) for early stage of non-small cell lung cancer: A retrospective, single-institutional experience

Juock Na*, Ji-Hyun Oh, Ji-Won Ryu, Ho-Sung Lee, Jae-Sung Choi, Ki-Hyun Seo (Korea)

AP203 Primary thymic carcinoma, clear cell type: A case report

Annie May Dela Cruz*, Alfred Apostol (Philippines)

AP204 Prognostic effect of serum oxidative stress level according to smoking status in patients with curatively resected stage I non-small cell lung cancer

Tomohiro Kambara*, Hiroaki Harada, Narumi Yashiki, Chika Murakami, Satoshi Shibata, Yoshifumi Nishimura, Takashi Ogawa, Kozue Miyazaki, Isao Murakami (Japan)

AP205 The role of the circulating tumor cells in the solitary pulmonary nodules

Hui Xiao (China)

AP206 A case of osteosarcoma lung metastasis with long-term survival by multidisciplinary treatment centered on multiple surgical excision

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

AP207 Adjuvant chemotherapy for patients with non-small cell lung cancer- experience from Taiwan

Yen-Han Tseng*, Yu-Chung Wu, Han-Shui Hsu, Wen-Hu Hsu, Yuh-Min Chen (Taiwan)

AP208 Immunotherapy in NSCLC patients positive for ANA could be high-risk and high-return

Tadasu Okaya*, Kensuke Tanaka, Kiyokazu Kuwabara, Yuri Isaka, Takeshi Kawanobe, Mizuki Fukuoka, Mika Suzuki, Kouno Chiyoko, Yoshihito Yamada (Japan)

AP209 Long-term nicotine exposure in lung cancer

Yeh YT, Wei YF, Wu JF, Chen JY, Huang MS* (Taiwan)

AP210 Respiratory muscle strength, exercise capacity, and dyspnea during pulmonary rehabilitation after lobectomy in patients with non-small cell lung cancer

Tsuyoshi Ichikawa*, Masanori Yokoba, Yu Horimizu, Saki Yamaguchi, Akiko Kawakami, Satoru Oikawa, Haruka Takeichi, Masato Katagiri, Minoru Toyokura (Japan)

AP211 The frequency of EGFR mutation and ALK rearrangement in patients with lung adenocarcinoma: The experience of a local hospital in Taiwan

Hsu-Chung Liu*, Chun Hui, Tu-Chen Liu (Taiwan)

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

AP226	Northern Malaysia pulmonology centre experience and analysis of progression free survival rate with tyrosine kinase inhibitors in managing advanced adenocarcinoma of lung
	Arvindran Alaga*, Nafiisah Pathi, Aiman Soelar, Razul Md Kassim (Malaysia)
AP227	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
	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)
AP228	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
	Yukun Kuang*, Neng Jiang, Kejing Tang, Zunfu Ke (China)
AP229	Pulmonary sclerosing pneumocytoma in an asymptomatic young asian man: A clinicopathologic case report
	Jamie Chua*, Albert Albay Jr., Waldemar Siy (Philippines)
AP230	Lung cancer with small bowel metastasis and perforation with chemotherapy-naïve status, a rare case report and literature view
	Sheng-Ting Wu, Jung Yueh Chen* (Taiwan)
AP231	Chylothorax in mediastinal tumor
	Lily Amirullah*, Muhammad Fahmi Alatas (Indonesia)
AP232	Advanced non-small cell lung cancer with tonsil metastasis, a case report
	Shu Farn Tey*, Chao-Kun Chen, Shih-Lun Chang (Taiwan)
AP233	Adenylate cyclase-associated protein 1-targeted nanoparticles as a novel strategy for the treatment of metastatic non-small cell lung cancer
	Yang Liu*, Shuanshuan Xie, Changhui Wang (China)
AP234	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
	Brian Nelson Ong*, Guia Elena Imelda Ladrera (Philippines)
AP235	Impact of elderly on one years survival rates of patients with non small cell lung cancer
	Eko Budiono*, Ika Trisnawati (Indonesia)
AP236	A case of malignant pleural mesothelioma that complicated with peritoneal dissemination during the 10-year survival
	Mitsuhito So*, Yukari Oyama, Kenichi Obata, Noriko Hayama, Yuichiro Honma, Yukinari Itoigawa, Mitsuhiro Fujii (Japan)
AP237	Discovery the novel compound for overcoming EGFR-TKI resistance in lung adenocarcinoma
	Kuo-yen Huang*, Chung-Chih Lin, Shuenn-Chen Yang, Pan-Chyr Yang (Taiwan)
AP238	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
	Portia Maria Tanyag*, Sergio Andres (Philippines)
AP239	Multiple primary lung cancer or relapse? A report of two cases
	Wiwi Pertiwi*, Daniel Maranatha (Indonesia)
AP240	The risk of mechanical ventilation in patients with lung cancer at end-of life in Taiwan
	Yen-Fu Chen*, Yi-Hsuan Chang, Chung-Yu Chen, Chong-Jen Yu (Taiwan)

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

Paediatric lung disease

Chair: Tsu Fuh Yeh (Taiwan)

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

Pulmonary circulation

Chair: Wei-Chih Liao (Taiwan)

AP249	Pulmonary arteriovenous malformation presenting as recurrent ischemic stroke-a case report
	Aleli de Guzman-Pamplona (Philippines)
AP250	Risk of symptomatic venous thromboembolism in patients following appendectomy: A nationwide cohort study
	Wei-Sheng Chung (Taiwan)
AP251	Haemoptysis due to a rare cause in three patients from central Sri Lanka
	Asela Bandara, Sachini Seneviratne, Samadara Nakandala, Dushantha Madegedara* (Sri Lanka)
AP252	Air-crescent is not always infectious event
	Ya-Shin Hsu, Ying-Ming Tsai*, Ching-Yi Li (Taiwan)
AP253	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

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 Wijayarathne, Thushani Dabrera, Champica K. Bodinayake, Ajith Nagahawatte, Ruvini Kurukulasooriya (Sri Lanka), Richard Drew, Christopher W. Woods, L. Gayani Tillekeratne (United States)

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

	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 O₂, 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)

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

Respiratory structure and function

Chair: Hisatoshi Sugiura (Japan)

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

Tuberculosis

Chair: Jann-Yuan Wang (Taiwan)

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

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

Asthma

Chair: Horng-Chyuan Lin (Taiwan)

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

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

Leonid G. Nakhamchen, Juliy 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)

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

Cell and molecular biology

Chair: Chul-Gyu Yoo (Korea)

AP378 **Vitexin may exerts anti-allergic inflammatory effects via ORAI1 channel inhibition**

Hyun Jong Kim, Yu Ran Nam, Woo Kyung Kim* (Korea)

AP379	Inhibition of NKCC1 modulates inflammation and apoptosis of alveolar epithelium in ischemia-reperfusion lung injury via NF-kb and p38 mapk pathways
	Chih-Hao Shen*, Jr-Yu Lin, Kun-Lun Huang (Taiwan)
AP380	Association between cigarette smoking status and composition of gut microbiota in Korean men
	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)
AP381	The role of sodium-potassium-chloride cotransporter in LPS-induced alveolar macrophage activation
	Ching-Yu Liu, Chung-Kan Peng, Chih-Hao Shen, Kun-Lun Huang* (Taiwan)
AP382	The hypoxia-inducible factor 1α protein stabilizer inhibits transforming growth factor β-induced extracellular matrix proteins beyond cell types and species
	Akira Ando*, Naozumi Hashimoto, Yoshio Nakahara, Koji Sakamoto, Yoshinori Hasegawa (Japan)
AP383	Heteronemin induces ROS-based mitochondrial-mediated apoptosis in lung cancer cells
	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)

AP384	Bronchoscopic features of relapsing polychondritis of large airways after tracheostomy
	Hiroshi Nakaoka*, Takeshi Tanaka, Masahiro Takaki, Yoshiro Yamashita, Kosuke Matsui, Konosuke Morimoto, Koya Ariyoshi (Japan)
AP385	One-year follow-up study of pharmacokinetic interactions in a tacrolimus-treated lung transplant patient
	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)
AP386	Asia-pacific Survey of Physicians on Asthma and Allergic Rhinitis (ASPAIR)- India results
	Bhumika Aggarwal*, Sumitra Shantakumar (Singapore), David Hinds (United States), Aruni Mulgirigama (United Kingdom)
AP387	Metabolomic profiling of serum during allergen immunotherapy in asthmatic children
	Peiyan Zheng*, Baoqing Sun (China)

Clinical respiratory medicine

Chair: Thomas Mok (Hong Kong)

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

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

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

COPD

Chair: Ngo Quy Chau (Vietnam)

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

AP417	The long-term efficacy of domiciliary noninvasive positive pressure ventilation in COPD: A meta-analysis of randomized controlled trials
	Yun Su Sim*, Tae Rim Shin, Dongyu Kim, Hayoung Choi (Korea)
AP418	The Interpretation of respiratory system impedance in the early expiratory phase measured by forced oscillation technique
	Toshiyuki Ogasa*, Shinobu Osanai (Japan)
AP419	Could probiotics useful for COPD patients?An EBM view
	Yi-Shan Wang*, Shi-Pan Yang (Taiwan)
AP420	The prevalence of voiding dysfunction and the effect of bronchodilator in patients with chronic obstructive pulmonary disease
	Kyung Mee Song*, Jae Seung Lee (Korea)
AP421	Long-term course of emphysema without airflow limitation
	Yuko Tanaka*, Toshihiro Shirai, Yoshinari Endo, Mika Saigusa, Taisuke Akamatsu, Akito Yamamoto, Satoru Morita, Kazuhiro Asada (Japan)
AP422	Pedometer as a tool for quality of life improvement in COPD patients
	Yusup Subagio Sutanto*, Nur Santi, Dewi Nurul Makhahah, Jatu Aphridasari, Harsini Kusumo, Reviono Reviono (Indonesia)
AP423	Comparison of clinical characteristics and incidence of acute exacerbation in patients with asthma-COPD overlap and COPD
	Keitaro Nakamoto*, Yuka Sasaki, Masafumi Shimoda, Kozo Morimoto, Ryoza Yano, Maki Miyamoto, Hiroyuki Kokuto, Yoshiaki Tanaka, Hideo Ogata, Hajime Goto (Japan)
AP424	Whole genome DNA methylation analysis of asthma and chronic obstructive pulmonary disease overlap identifies novel epigenetic signatures
	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)
AP425	COPD Assessment Test (CAT) score of patients with chronic obstructive pulmonary disease based on clinical phenotypes
	Chee-Shee Chai*, Chong-Kin Liam, Yong-Kek Pang, Diana-Leh-Ching Ng, Seng-Beng Tan (Malaysia)
AP426	Which is the adequate timing? Blood eosinophil count in patients with COPD exacerbation
	Miyuki Munechika*, Kazunori Tobino (Japan)
AP427	Accuracy of peak expiratory flow rate: height ratio (PEFR/Ht²) measured by portable device in predicting low FEV₁/FVC in patients undergoing spirometry at Santo Tomas Hospital
	Shariff Amiloari Manibpel*, Tim Trinidad (Philippines)
AP428	R-value comprehensive evaluation method for the effect and long-term influence of tiaobu fei-shen therapies on chronic obstructive pulmonary disease rats
	Jiansheng Li*, Hongxin Cui, Yange Tian, Ya Li, Yang Xie, Yunping Bai (China)
AP429	Comparison of three combinations of inhaled long-acting muscarinic antagonists with long-acting beta agonists in patients with chronic obstructive pulmonary disease
	Taichi Mochizuki*, Yasushi Inoue, Ryuta Ueda, Seisuke Nagase, Kentarou Iwasaki, Masakazu Kojika, Aeru Hayashi (Japan)
AP430	Comparing the different diagnostic criteria of Asthma-COPD overlap
	Yong Suk Jo*, Chin Kook Rhee (Korea)

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

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

Critical care medicine

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

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

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

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

Environmental & occupational health and epidemiology

Chair: Chau-Chyun Sheu (Taiwan)

AP481	The ciR-008885/miR-30C/LRRC8D axis enhances the macrophage activation induced by Silica
	Wei Zhang*, Zewei Zhou, Biqi Chen, Jie Chao (China)
AP482	Assessment of the pathophysiological size ranges of air microsuspensions causing development and progression of respiratory diseases
	Marina Antonyuk*, Lyudmila Barskova, Tat'yana Vitkina, Lyudmila Veremchuk (Russia)
AP483	Pulmonary toxicity of cross-linked soluble polyacrylate following intratracheal instillation
	Chinatsu Nishida*, Kazuhiro Yatera, Hiroto Izumi, Yasuo Morimoto (Japan)
AP484	Efficacy and safety of vernonia cinerea pastilles for smoking cessation
	Sunee Lertsinudom, Sutasinee Srisoi*, Jringjai Areemit, Nadthatida Hansuri Hansuri, Nirachra Tawinkan, Sineenard Pranboon, Bangorn Sripanidkulchai (Thailand)
AP485	Survey on respiratory disorders in preschool children pre and post admission to preschools in Kandy, central Sri Lanka
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AP486	Survey of respiratory symptoms among preschool children in response to domestic triggers in Kandy, central Sri Lanka
	Sachini Seneviratne, Dilami Pathiraja, Premali Manorangi, Wijayani Wickramasinghe, Asela Bandara, Sajani Dharmadasa, Samadara Nakandala, Dushantha Madegedara, Sumedha Samankantha Heenagamage* (Sri Lanka)
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	Yau-Chang Kuo (Taiwan)
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	Takashi Marui*, Yukiko Yoshiura, Taisuke Tomonaga, Hiroto Izumi, Yuri Fujisawa, Chinatsu Nishida, Kazuhiro Yatera, Masaru Kubo, Manabu Shimada, Yasuo Morimoto (Japan)
AP489	Analysis of clinical features in patients with pneumoconiosis complicated with pulmonary emphysema
	Xin Li (China)
AP490	The level and dynamics of respiratory diseases morbidity in Russia
	Leonid G. Manakov*, Victor P. Kolosov, Tatyana V. Zabolotskikh (Russia)
AP491	Comparison of occupational exposure limits of chemical substances in workplace between China GBZ 2.1 and German MAK
	Qi Li (China)
AP492	Survey on respiratory symptoms of urban vs. rural preschool children in Kandy, central Sri Lanka
	Sachini Seneviratne, Asela Bandara, Sajani Dharmadasa, Samadara Nakandala, Dilami Pathiraja, Wijayani Wickramasinghe, Premali Manorangi, Dushantha Madegedara* (Sri Lanka)
AP493	A therapeutic method for PM2.5-induced lung injury based on exosome in rats
	Gao Yongheng*, Jin Faguang (China)
AP494	Obstructive airway disease in tribal and non-tribal populations in rural Bengal, India
	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)

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

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

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

Lung cancer

Chair: Jin-Yuan Shih (Taiwan)

AP523	Therapeutic outcomes in patients with cT1mi-cN0M0 lung cancer dominant with ground glass opacity treated by carbon ion radiotherapy
	Teruaki Mizobuchi*, Naoyoshi Yamamoto (Japan)
AP524	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
	Sung bae Cho (Korea)

AP526	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
	Narumi Yashiki*, Hiroaki Harada, Kazuaki Miyamoto, Tomohiro Kanbara, Takashi Ogawa, Yoshifumi Nishimura, Kozue Miyazaki, Isao Murakami, Chika Murakami, Satoshi Shibata (Japan)
AP527	A study of cases with postoperative recurrent lung cancer treated with immune checkpoint inhibitors
	Naoki Kanauchi, Hikaru Watanabe* (Japan)
AP528	Genetic variants in the TNF/TNFR signaling pathway genes are associated with survival of nonsmall-cell lung cancer patients
	Yun Feng*, Yi Guo (China), Hongliang Liu, Qingyi Wei (United States)
AP529	Improved treatment outcome of pembrolizumab in NSCLC patients with COPD
	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)
AP530	Oncogenic and immune pathways correlated with molecular prognostic marker sialyltransferase ST3GAL3 in non-small cell lung cancer
	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)
AP531	The effect of EGFR mutation to metastasis in stage III-IVB lung adenocarcinoma
	Ika Trisnawati*, Didik Setyo Heriyanto, Eko Budiono (Indonesia)
AP532	First generation EGFR-TKIs comparison in non-small cell lung cancer patients harboring sensitive EGFR mutations
	Chia Hao Chang*, Jen-Chung Ko, Chong-Jen Yu (Taiwan)
AP533	Pembrolizumab as the first therapy for synchronous double cancer of lung cancer and gastric cancer: A case report
	Hiroyuki Fujiwara*, Masanori Nakanishi, Takayuki Yumura, Kiyoshi Nakashima, Hiroyoshi Kitagawa, Takeo Yagi, Suguru Yamamoto (Japan)
AP534	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
	Po-Lan Su*, Yi-Lin Wu, Wei-Yuan Chang, Chien-Chung Lin, Szu-Chun Yang (Taiwan)
AP535	A case of primary pulmonary monophasic synovial sarcoma
	Larrie-Lyn Albarico*, Adonis Guancia, Rhea Joy Tabujara (Philippines)
AP536	Efficacy of salvage chemotherapy after immune checkpoint inhibitor in non-small cell lung cancer patients
	Yuki Okamatsu*, Shigesato Inoue, Takahiro Utsumi, Takafumi Kayukawa, Kazuyasu Uryu, Katsuhiko Inoue, Kazuya Tsubouchi, Taishi Harada (Japan)
AP537	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
	Lih-Chyun Chang*, Chor-Kuan Lim, Kuan-Yu Chen (Taiwan)
AP538	Diabetes is associated with the risk of progression and prognosis in lung cancer
	Kun Zhao*, Yue Zhang, Yangrong Song, Guangyan Lei, Hao Cheng (China)

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

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

AP567	Treatment of non-small cell lung cancer with atezolizumab: A case series study
	Yuki Yamamoto*, Kohei Fujita, Naohiro Uchida, Misato Okamura, Koichi Nakatani, Tadashi Mio (Japan)
AP568	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
	Ping-Chih Hsu*, Chih-Hung Chen, Chien-Ying Liu, Yu-Ching Lin, Chih-Liang Wang, Shih-Hong Li, Cheng-Ta Yang (Taiwan)
AP569	Study of comparison among diagnostic modalities to establish the diagnosis of lung cancer : CEA marker, CT-scan imaging, and bronchoscopic method
	Imam Nurjaya*, Abdul Fuad Hadi, Soekarno Hatta, Zuzannawati Zuzannawati, Harun Iskandar, Eliana Muis (Indonesia)
APL013	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
	Te-Chun Hsia*, Ching-Hu Chung (Taiwan)

Paediatric lung disease

Chair: Hiroyuki Mochizuki (Japan)

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

Pulmonary circulation

Chair: Xin-Min Liao (Taiwan)

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| AP578 | Hydrogen gas inhalation is a novel treatment for pulmonary hypertension |
| | Tao Wang*, Zhen Long, Hanwei Liu, Wenju Lu (China) |
| AP579 | A case of pulmonary embolism from superficial venous thrombosis with an upper extremity source in a 35-year-old female on oral contraceptive pills |
| | Bryan Jeffrey Manzana, Roxanne Gillea Tan*, John Pocholo Tuason, Nicodemus Ong (Philippines) |
| AP580 | Genetic variant of CYP4V2 associated with venous thromboembolism: A case-control study |
| | Yongjian Yue, Qing Sun, Mingliang Wang, Shengguo Liu, Xuemei Han, Yingyun Fu* (China) |
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| | 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)

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

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

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

Respiratory neurobiology and sleep

Chair: Kun-Ta Chou (Taiwan)

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

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

Respiratory structure and function

Chair: Tsuyoshi Oguma (Japan)

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

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

Tuberculosis

Chair: Diah Handayani (Indonesia)

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

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

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

Information on Taiwan

Insurance

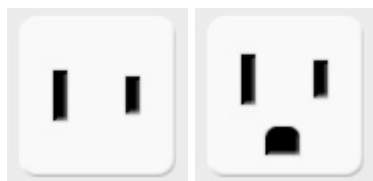
Participants are advised to take out their own personal travel and health insurance for their trip.

Climate and Clothing

Autumn begins in September and the weather is cool with average temperatures between 18 °C (64 °F) and 26 °C (80 °F). It is one of the best times of the year to visit Taiwan, with mostly sunny and pleasant weather and only a little rain. Taiwan's relatively warm and short winter months are the best time to appreciate the beautifully coloured maple trees.

Electricity and Water

Electricity in Taiwan is 110 Volts, alternating at 60 cycles per second. However, the shape of a socket varies between countries, a portable plug adaptor may be necessary. The flat blade attachment plug is generally accepted. Drinking water served at hotels and restaurants is distilled or boiled. Tap water is suggested to be boiled before drinking.



Time Zone

Taiwan is 8 hours ahead of Greenwich Mean Time (GMT).

Currency and Bank

Taiwan's currency is the New Taiwan dollar (NT\$). Foreign currencies can be exchanged at hotels, airports and banks. Major credit cards (Visa, Master, JCB, AMEX) are widely accepted, and traveler's checks may be accepted by tourist-oriented shops and at most international tourist hotels and banks. Banks open from 09:00 to 15:30, Monday through Friday and are closed on weekends and public holidays.

Transportation

While trains and high speed rails are regarded as the fastest public transportations between cities in Taiwan, taxi and buses offer local transport services in most cities. At Taipei and Kaohsiung, MRT (Mass Rapid Transit) connects the main shopping, entertainment and business areas of the city and is the most convenient way to get around.

Language

The most popular foreign language in Taiwan is English, which is part of the regular school curriculum. However, it is advisable to prepare a note with your destination written in Chinese when travelling.

Tipping

Tipping is not customary in most of Taiwan. Consumer taxes are included in price on tags. You can expect addition of 10% or 15% to accommodation and meal costs in respect of tax / service charges in all four and five-star hotels and some high-end restaurants.

Useful Numbers

Taiwan Taoyuan International Airport

Tel: +886-3-398-3728

Tourism Bureau

Tel: +886-2-2349-1500

Bureau of Consular Affairs, Ministry of Foreign Affairs

Tel: +886-2-2343-2888

Emergency

Tel: 119/110