Dear APSR members,

As you may know, *Respirology* publishes regular online-only Virtual Issues, which group together articles, often reviews, on a particular topic or theme that have appeared in the Journal over the past few years. This special issue of the APSR Respiratory Updates presents the latest Virtual Issues that are available on the Journal’s site.

Each virtual issue is presented here with a brief introduction, then the content is listed and you can access the full text articles using the hyperlinks for each of the titles (press the control (Ctrl) key while clicking).

We hope you will enjoy this special issue of the APSR Respiratory Updates.

*The Editorial Team.*
I. Translating Research into Practice Virtual Issue

Series Editors: David C Lam and John Heffner

This virtual issue regroups review articles from our very successful series published in 2011/2012. This series looked at what progress has been made in the translation of sound scientific research into clinical practice and how this has been achieved. A wide range of respiratory diseases were concerned by these innovations from lung cancer to COPD, infections to sleep disorder, and advances in screening, imaging, biopsy techniques, genetics, biomarkers as well as the discovery of new mechanisms linking several diseases were applied to develop new techniques and treatment protocols.

- **Pulmonary adenocarcinoma: A renewed entity in 2011**
  HUMAM KADARA, MOHAMED KABBOUT and IGNACIO I. WISTUBA

- **Screening for lung cancer: Is this the way forward?**
  STEPHEN G. SPIRO and NEAL NAVANI

- **The science behind the 7th edition Tumour, Node, Metastasis staging system for lung cancer**
  HENRY M. MARSHALL, STEVEN C. LEONG, RAYLEEN V. BOWMAN, IAN A. YANG and KWUN M. FONG

- **Frontiers in bronchoscopic imaging**
  KEISHI OHTANI, ANTHONY M.D. LEE and STEPHEN LAM

- **Link between chronic obstructive pulmonary disease and coronary artery disease: Implication for clinical practice**
  PIERA BOSCHETTO, BIANCA BEGHÉ, LEONARDO M. FABBRI and CLAUDIO CECONI

- **Quantitative pulmonary imaging using computed tomography and magnetic resonance imaging**
  GEORGE R. WASHKO, GRACE PARRAGA and HARVEY O. COXSON

- **Tissue engineering for pulmonary diseases: Insights from the laboratory**
  HIROSHI KUBO

- **Clinical applications of lung function tests: A revisit**
  BIN-MIAO LIANG, DAVID C.L. LAM and YU-LIN FENG

- **Biomarkers and transcriptome profiling of lung cancer**
  HSUAN-YU CHEN, SUNG-LIANG YU, KER-CHAU LI and PAN-CHYR YANG

- **Translating basic science insight into public health action for multidrug- and extensively drug-resistant tuberculosis**
  NICHOLAS D. WALTER, MICHAEL STRONG, ROBERT BELKNAP, DIANE J. ORDWAY, CHARLES L. DALEY and EDWARD D. CHAN
Non-smoking-related chronic obstructive pulmonary disease: A neglected entity?
GUANGQIAO ZENG, BAOQING SUN and NANSANZHONG

Pulmonary fungal infections
JEANNINA A. SMITH and CAROL A. KAUFFMAN

Emerging evidence of epithelial-to-mesenchymal transition in lung carcinogenesis
MITSUO SATO, DAVID S. SHAMES and YOSHINORI HASEGAWA

Sleepiness that cannot be overcome: Narcolepsy and cataplexy
FANG HAN

Lung transplant infection
SERGIO R. BURGUETE, DIEGO J. MASELLI, JUAN F. FERNANDEZ and STEPHANIE M. LEVINE

Significance of endothelial dysfunction in sleep-related breathing disorder
MACY MEI-SZE LUI, DAVID CHI-LEUNG LAM and MARY SAU-MAN IP

Interventional pulmonology: Focus on pulmonary diagnostics
KASIA CZARNECKA and KAZUHIRO YASUFUKU

Neurocognitive function in obstructive sleep apnoea: A meta-review
ROMOLA S. BUCKS, MICHELLE OLAITHE and PETER EASTWOOD

Translating research into practice: An epilogue
DAVID C.L. LAM and JOHN E. HEFFNER

II. Obesity and Respiratory Disorders Virtual Issue

Series Editor: Amanda Piper

Obesity is an ever increasing public and individual health issue and the impacts of this disorder on respiratory function can be significant and are often underestimated. This virtual issue regroups 11 reviews from authors from all over the world covering many aspects of the impact of obesity on respiratory function from the consequences on treatments such as exercise rehabilitation, and bariatric surgery to links with sleep apnoea, sleep disordered breathing and asthma. Assessment and treatments options are explored and discussed.

Obesity and obstructive sleep apnoea: Mechanisms for increased collapsibility of the passive pharyngeal airway
SHIRO ISONO

Impact of obesity on respiratory function
STEPHEN W. LITTLETON
Obesity and craniofacial structure as risk factors for obstructive sleep apnoea: Impact of ethnicity
KATE SUTHERLAND, RICHARD W.W. LEE and PETER A. CISTULLI

Obesity, obstructive sleep apnoea and metabolic syndrome
JAMIE CHUNG MEI LAM, JUDITH CHOI WO MAK and MARY SAU MAN IP

Work of breathing and respiratory drive in obesity
CHING-KAI LIN and CHING-CHE LIN

Asthma and obesity: A known association but unknown mechanism
CLAUDE S. FARAH and CHERYL M. SALOME

Obesity hypoventilation syndrome: From sleep-disordered breathing to systemic comorbidities and the need to offer combined treatment strategies
JEAN-CHRISTIAN BOREL, ANNE-LAURE BOREL, DENIS MONNERET, RENAUD TAMISIER, PATRICK LEVY and JEAN-LOUIS PEPIN

Managing acute respiratory decompensation in the morbidly obese
AHMED S. BAHAMMAM and SUHAILA E. AL-JAWDER

Impact of obesity on exercise performance and pulmonary rehabilitation
MICHAEL DREHER and HANS-JOACHIM KABITZ

Respiratory assessment and management in bariatric surgery
LINDA SCHACHTER

Obesity and respiratory disease—weighing in on the issue: An epilogue
AMANDA J. PIPER

III. Air Pollution and Lung Health Virtual Issue

Series Editors: Ian A. Yang and Stephen T. Holgate

This virtual issue collates a series of invited reviews dedicated to air pollution and lung health co-edited by Ian Yang and Stephen Holgate. The reviews explore what the many sources of air pollution are and how to monitor air pollution and the options for warning systems. Risk factors and links to airway diseases are discussed and evidence explored.

Monitoring air pollution: Use of early warning systems for public health
FRANK J. KELLY, GARY W. FULLER, HEATHER A. WALTON and JULIA C. FUSSELL

Biomass fuels and lung cancer
WEI-YEN LIM and ADELINE SEOW

Respiratory health effects of diesel particulate matter
ZORAN D. RISTOVSKI, BRANKA MILJEVIC, NICHOLAS C. SURAWSKI, LIDIA MORAWSKA, KWUN M. FONG, FELICIA GOH and IAN A. YANG
Air pollution and chronic obstructive pulmonary disease  
FANNY W.S. KO and DAVID S.C. HUI

Genomics and the respiratory effects of air pollution exposure  
JOHN W. HOLLOWAY, SANTIYAGU SAварIMUTHU FRANCIS, KWUN M. FONG and IAN A. YANG

Health impact and toxicological effects of nanomaterials in the lung  
MICHAELA KENDALL and STEPHEN HOLGATE

Corrected by: CORRIGENDUM

Does outdoor air pollution induce new cases of asthma? Biological plausibility and evidence; a review  
ALISON M. GOWERS, PAUL CULLINAN, JON G. AYRES, H. ROSS ANDERSON, DAVID P. STRACHAN, STEPHEN T. HOLGATE, INGA C. MILLS and ROBERT L. MAYNARD

Air pollution: Impact and prevention  
MARTHA PATRICIA SIERRA-VARGAS and LUIS M. TERAN

Air pollution and lung health: An epilogue  
IAN A. YANG and STEPHEN T. HOLGATE

### IV. How to Set-up Pulmonary Subspecialty Services Virtual Issue

Series Editor: YC Gary Lee

Presented by Prof. Lee and written by world renowned pulmonary specialists, this virtual issue regroups a short series of reviews on “How to set-up pulmonary subspecialty services”. The reviews cover every question to consider before setting-up such services, things to consider when planning the development of the services, and give practical advice on equipment, protocol, staff and so on. In short, this series explains how to do it the best way possible.

**Development and organization of an interventional pulmonology department**  
HENRI G. COLT

**Setting up a specialist pleural disease service**  
CLARE E. HOOPER, Y.C. GARY LEE and NICK A. MASKELL

**State of the art: How to set up a pulmonary rehabilitation program**  
SUE JENKINS, KYLIE HILL and NOLA M. CECINS
**V. Asia-Pacific Respiratory Health Issues Virtual Issue**

This virtual issue collates a series of invited reviews dedicated to respiratory health issues in the Asia-Pacific region. This region presents particular challenges as it is large and home to a broad population in terms of living environments, climates, socio-economic situations, genetic background and ethnicities. This series is dedicated to addressing respiratory health issues affecting this region and reviewing the current state of treatments and strategies for the future.

- **Respiratory health issues in the Asia–Pacific region: An overview**
  EUZEBIUSZ JAMROZIK and ARTHUR WILLIAM MUSK

- **Targeted therapy: An evolving world of lung cancer**
  KWOK-CHI LAM and TONY S. MOK

- **Lung function testing in health and disease: Issues pertaining to Asia–Pacific populations**
  MARY S.M. IP

- **The effects of bushfire smoke on respiratory health**
  MARTINE DENNEKAMP and MICHAEL J. ABRAMSON

- **Natural disasters and the lung**
  BRUCE ROBINSON, MOHAMMAD FAHMI ALATAS, ANDREW ROBERTSON and HENRY STEER

- **Genetic predisposition to diffuse panbronchiolitis**
  NAOTO KEICHO and MINAKO HIJIKATA

- **Respiratory disorders in the Middle East: A review**
  ABDELKARIM WANESS, YASER ABU EL-SAMEED, BASSAM MAHBOUB, MOHAMMED NOSHI, HAMDAN AL-JAHDALI, MAYANK VATS and ATUL C. MEHTA
Asbestos use and asbestos-related diseases in Asia: Past, present and future
GIANG VINH LE, KEN TAKAHASHI, EUN-KEE PARK, VANYA DELGERMAA, CHULHO OAK, AHMAD MUNIR QURESHI and SYED MOHAMED ALJUNID

Pandemic response lessons from influenza H1N1 2009 in Asia
DALE FISHER, DAVID S. HUI, ZHANCHENG GAO, CHRISTOPHER LEE, MYOUNG-DON OH, BIN CAO, TRAN TINH HIEN, KRISTA PATLOVICH and JEREMY FARRAR

Outdoor air pollution and respiratory health in Asia
KIAN FAN CHUNG, JUNFENG ZHANG and NANSHAN ZHONG

Tobacco smoking in China: Prevalence, disease burden, challenges and future strategies
JING ZHANG, JIA-XIAN OU and CHUN-XUE BAI

Radiation damage to the lung: Mitigation by angiotensin-converting enzyme (ACE) inhibitors
MEETHA MEDHORA, FENG GAO, ELIZABETH R. JACOBS and JOHN E. MOULDER

Respiratory health issues in the Asia-Pacific region: An epilogue
MARY S.M. IP, YOSHINOSUKE FUKUCHI and NORBERT BEREND

VI. Cutting Edge Technologies Virtual Issue

Series Editor: Darryl Knight

This exciting virtual issue collates our recently published review series on cutting edge technologies edited by Prof. Darryl Knight highlighting novel technologies in respiratory research.

Minimally invasive imaging method based on second harmonic generation and multi-photon excitation fluorescence in translational respiratory research
THOMAS ABRAHAM, SAMUEL WADSWORTH, JON M. CARTHY, DMITRI V. PECHKOVSKY and BRUCE MCMANUS

Phenotyping airway disease with optical coherence tomography
HARVEY O. COXSON, PETER R. EASTWOOD, JONATHAN P. WILLIAMSON and DON D. SIN

The next generation: Using new sequencing technologies to analyse gene regulation
REBECCA CULLUM, OLIVIA ALDER and PAMELA A. HOODLESS

Cellular therapies for lung disease: A distant horizon
YUBEN MOODLEY, URSULA MANUEPILLAI and DANIEL J. WEISS
Genome-wide association studies for discovery of genes involved in asthma
LOUBNA AKHABIR and ANDREW J. SANDFORD

Applying gene expression microarrays to pulmonary disease
JOSHUA D. CAMPBELL, AVRUM SPIRA and MARC E. LENBURG

Insights into asthmatic airway remodelling through murine models
SABA AL HEIALY, TOBY K. MCGOVERN and JAMES G. MARTIN

Bronchial brushings for investigating airway inflammation and remodelling
KEVIN LOOI, ERIKA N. SUTANTO, BALARKA BANERJEE, LUKE GARRATT, KAK-MING LING, CLARA J. FOO, STEPHEN M. STICK and ANTHONY KICIC

Cutting edge technologies in respiratory research: Lung function testing
GREGORY G. KING

Heaves, an asthma-like disease of horses Respirology
MATHILDE LECLERE, ANOUK LAVOIE-LAMOUREUX and JEAN-PIERRE LAVOIE

Novel molecular imaging in lung and pleural diseases Respirology
ROSLYN FRANCIS, TATIANA SEGARD and LAURENCE MORANDEAU

VII. Pleural Diseases Virtual Issue

Series Editors: José M. Porcel and Y.C. Gary Lee

This Virtual Issue collates invited reviews from our series on Pleural Diseases Edited by Prof. José M. Porcel Professor of Medicine and Chairman of the Department of Internal Medicine at the Amau de Vilanova University Hospital in Lleida, Spain and Prof Y.C. Gary Lee, MBChB PhD FRACP of the Respiratory Department of Sir Charles Gairdner Hospital, and the University of Western Australia, Perth, Australia. Dr Porcel is ACCP Regent for Spain and, currently, Associate Editor for Respirology and Co-editor of the International Pleural Newsletter. Professor Lee is the Director of Pleural Services at the Respiratory Department of Sir Charles Gairdner Hospital, Perth, Australia and leads clinical and laboratory pleural research at the University of Western Australia. This review series covers the latest research and clinical advances in pleural diseases reviewed by internationally renowned expert in the field.
Pearls and myths in pleural fluid analysis
JOSÉ M. PORCEL

Translational advances in pleural malignancies
GEORGIOS T. STATHOPOULOS

Update on uncommon pleural effusions
JAY H. RYU, SARA TOMASSETTI and FABIEN MALDONADO

Pleural controversy: Optimal chest tube size for drainage
RICHARD W. LIGHT

Interventional radiology of pleural diseases
TAHREEMA N. MATIN and FERGUS V. GLEESON

Pathology of the pleura: What the pulmonologists need to know
PHILIP T. CAGLE and TIMOTHY CRAIG ALLEN

Pleural infection: Changing bacteriology and its implications
THIAGO LISBOA, GRANT W. WATERER and Y.C. GARY LEE

Pleural controversy: Aetiology of pneumothorax
DEMONDES HAYNES and MICHAEL H. BAUMANN

Pleural controversy: Closed needle pleural biopsy or thoracoscopy - Which first?
COENRAAD F.N. KOEGELENBERG and ANDREAS H. DIACON

Pleural controversy: Pleurodesis versus indwelling pleural catheters for malignant effusions
PAUL MACEACHERN, ALAIN TREMBLAY

Intrapleural therapy
J. TERRILL HUGGINS, PETER DOELKEN and STEVEN A. SAHN

To access more virtual issues and to view new issues when they are published online, please visit the Journal’s Virtual Issues page:

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APSR Respiratory Updates is an initiative of the APSR Education Committee
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Compiled by Dr Christel Norman, Respirology Editorial Office, Perth, Australia

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