



## EDITORIALS

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- 1538** **Targeting immunoglobulin E in non-atopic asthma: crossing the red line?**  
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- 1541** **The womb environment shapes respiratory health in offspring: a fascinating hypothesis**  
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- 1545** **Assessing the worldwide epidemiology of sarcoidosis: challenges and future directions**  
Yvette C. Cozier
- 1549** **To stress or not to stress? Exercise pulmonary haemodynamic testing in systemic sclerosis**  
Edmund M.T. Lau, Vivek Thakkar, Marc Humbert and Philippe Herve
- 1553** **Adding complexity to plexogenic arteriopathy**  
Norbert F. Voelkel and Harm Jan Bogaard
- 1556** **Shall we call them “telomere-mediated”? Renaming the idiopathic after the cause is found**  
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- 1559** **Management of children with interstitial lung diseases: the difficult issue of acute exacerbations**  
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- 1564** **European reference networks: moving towards a tangible outcome of the European Union’s cross-border healthcare directive?**  
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- 1569** **The Art of Breathing**  
Gary P. Anderson and Tom Kotsimbos

## PERSPECTIVE

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- 1571** **Mandatory tuberculosis case notification in high tuberculosis-incidence countries: policy and practice**  
Mukund Uplekar, Sachin Atre, William A. Wells, Diana Weil, Rafael Lopez, Giovanni Battista Migliori and Mario Raviglione

## FROM THE MUSEUM

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- 1582** **The Art of Breathing: Inspiration**  
Tom Kotsimbos and Gary P. Anderson

## ORIGINAL ARTICLES

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### Asthma

- 1584** **Excess medical costs in patients with asthma and the role of comorbidity**  
Wenjia Chen, Larry D. Lynd, J. Mark FitzGerald, Carlo A. Marra, Robert Balshaw, Teresa To, Hamid Tavakoli and Mohsen Sadatsafavi for the Canadian Respiratory Research Network
- 1593** **Omalizumab reduces bronchial mucosal IgE and improves lung function in non-atopic asthma**  
Prathap Pillai, Yih-Chih Chan, Shih-Ying Wu, Line Ohm-Laursen, Clare Thomas, Stephen R. Durham, Andrew Menzies-Gow, Raj K. Rajakulasingam, Sun Ying, Hannah J. Gould and Chris J. Corrigan

### Lung function

- 1602** **Global Lung Function Initiative 2012 reference equations for spirometry in the Norwegian population**  
Arnulf Langhammer, Ane Johannessen, Turid L. Holmen, Hasse Melbye, Sanja Stanojevic, May B. Lund, Morten N. Melsom, Per Bakke and Philip H. Quanjer

### Cystic fibrosis

- 1612** **Metabolomic biomarkers predictive of early structural lung disease in cystic fibrosis**  
Charles R. Esther Jr, Lidija Turkovic, Tim Rosenow, Marianne S. Muhlebach, Richard C. Boucher, Sarath Ranganathan and Stephen M. Stick on behalf of AREST CF

### Paediatric pulmonology

- 1622** **Pre-eclampsia and childhood asthma**  
Maria C. Magnus, Siri E. Håberg, Per Magnus, Anders Engeland, Per Nafstad, Øystein Karlstad and Wenche Nystad

### Paediatric pulmonology and sleep

- 1631** **Impact of sleep disordered breathing on behaviour among elementary school-aged children: a cross-sectional analysis of a large community-based sample**  
Dale L. Smith, David Gozal, Scott J. Hunter, Mona F. Philby, Jaeson Kaylegian and Leila Kheirandish-Gozal

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### Sleep

- 1640** **Effects of continuous positive airway pressure on energy balance regulation: a systematic review**  
Ari Shechter

### Pulmonary vascular diseases

- 1658** **Exercise pulmonary haemodynamics predict outcome in patients with systemic sclerosis**  
Adriana Stamm, Stéphanie Saxer, Mona Lichtblau, Elisabeth D. Hasler, Suzana Jordan, Lars C. Huber, Konrad E. Bloch, Oliver Distler and Silvia Ulrich
- 1668** **BMP2 mutation status influences bronchial vascular changes in pulmonary arterial hypertension**  
Maria-Rosa Ghigna, Christophe Guignabert, David Montani, Barbara Girerd, Xavier Jaïs, Laurent Savale, Philippe Hervé, Vincent Thomas de Montpréville, Olaf Mercier, Olivier Sitbon, Florent Soubrier, Elie Fadel, Gérald Simonneau, Marc Humbert and Peter Dorfmüller

### Tuberculosis

- 1682** **Progression to tuberculosis disease increases with multiple exposures**  
Robyn S. Lee, Jean-François Proulx, Dick Menzies and Marcel A. Behr

### Sarcoidosis

- 1690** **Sarcoidosis incidence and prevalence: a nationwide register-based assessment in Sweden**  
Elizabeth V. Arkema, Johan Grunewald, Susanna Kullberg, Anders Eklund and Johan Askling
- 1700** **Sarcoidosis-related mortality in France: a multiple-cause-of-death analysis**  
Yvan Jamilloux, Delphine Maucort-Boulch, Sébastien Kerever, Mathieu Gerfaud-Valentin, Christiane Broussolle, Mireille Eb, Dominique Valeyre and Pascal Seve

### Interstitial lung diseases

- 1710** **Telomere-related lung fibrosis is diagnostically heterogeneous but uniformly progressive**  
Chad A. Newton, Kiran Batra, Jose Torrealba, Julia Kozlitina, Craig S. Glazer, Carlos Aravena, Keith Meyer, Ganesh Raghu, Harold R. Collard and Christine Kim Garcia
- 1721** **Prevalence and characteristics of TERT and TERC mutations in suspected genetic pulmonary fibrosis**  
Raphael Borie, Laure Tabèze, Gabriel Thabut, Hilario Nunes, Vincent Cottin, Sylvain Marchand-Adam, Grégoire Prevot, Abdellatif Tazi, Jacques Cadranel, Herve Mal, Lidwine Wemeau-Stervinou, Anne Bergeron Lafaurie, Dominique Israel-Biet, Clement Picard, Martine Reynaud Gaubert, Stephane Jouneau, Jean-Marc Naccache, Julie Mankikian, Christelle Ménard, Jean-François Cordier, Dominique Valeyre, Marion Reocreux, Bernard Grandchamp, Patrick Revy, Caroline Kannengiesser and Bruno Crestani

### Lung transplantation

- 1732** **Prospective validation of right ventricular role in primary graft dysfunction after lung transplantation**  
Purificación Pérez-Terán, Oriol Roca, José Rodríguez-Palomares, Juan C. Ruiz-Rodríguez, Ana Zapatero, Joaquim Gea, Joaquim Serra, Arturo Evangelista and Joan R. Masclans

### Lung cancer

- 1743** **Joint effect of airflow limitation and emphysema on postoperative outcomes in early-stage nonsmall cell lung cancer**  
Sumin Shin, Hye Yun Park, Hyunkyung Kim, Hong Kwan Kim, Yong Soo Choi, Jhingook Kim, Sang-Won Um, Myung Jin Chung, Hojoong Kim, O Jung Kwon, Jae Il Zo, Eliseo Guallar, Juhee Cho and Young Mog Shim

## REVIEWS

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- 1751** **Correlates of tuberculosis risk: predictive biomarkers for progression to active tuberculosis**  
Elisa Petruccioli, Thomas J. Scriba, Linda Petrone, Mark Hatherill, Daniela M. Cirillo, Simone A. Joosten, Tom H. Ottenhoff, Claudia M. Denkinger and Delia Goletti
- 1764** **Laboratory diagnosis of pneumonia in the molecular age**  
Antoni Torres, Nelson Lee, Catia Cilloniz, Jordi Vila and Menno Van der Eerden

**Research letters**

- 1779 Global Lung Function Initiative reference equations better describe a middle-aged, healthy French population than the European Community for Steel and Coal values**  
Sébastien Hulo, Virginie de Broucker, Jonathan Giovannelli, Nathalie Cherot-Kornobis, Véronique Nève, Annie Sobaszek, Luc Dauchet and Jean-Louis Edmé
- 1782 Do the Global Lung Function Initiative 2012 equations fit my population?**  
Philip H. Quanjer and Sanja Stanojevic
- 1785 Viral mimic poly-(I:C) attenuates airway epithelial T-cell suppressive capacity: implications for asthma**  
Jürgen Schwarze, Paul M. Fitch, Janneke Heimweg, Claire Errington, Reina Matsuda, Harold G. de Bruin, Maarten van den Berge, Antoon J.M. van Oosterhout and Irene H. Heijink
- 1789 Survival of *Mycobacterium abscessus* isolated from people with cystic fibrosis in artificially generated aerosols**  
Louise A. Fletcher, Yang Chen, Paul Whitaker, Miles Denton, Daniel G. Peckham and Ian J. Clifton
- 1791 The impact of exposure to particulate air pollution from non-anthropogenic sources on hospital admissions due to pneumonia**  
Alina Vodonos, Itai Kloog, Liora Boehm and Victor Novack
- 1794 Fatal acute respiratory distress syndrome with diffuse alveolar damage: donor lymphocyte infusion imputability?**  
Colombe Saillard, Magali Bisbal, Antoine Sannini, Laurent Chow-Chine, Jean-Paul Brun, Samia Harbi, Sabine Furst, Didier Blaise, Maria Paciencia, Véronique Secq and Djamel Mokart
- 1797 Exercise cardiac MRI-derived right ventriculo-arterial coupling ratio detects early right ventricular maladaptation in PAH**  
Aaron C.W. Lin, Wendy E. Strugnell, Helen Seale, Benjamin Schmitt, Michaela Schmidt, Rachael O'Rourke, Richard E. Slaughter, Fiona Kermeen, Christian Hamilton-Craig and Norman R. Morris
- 1800 Shorter treatment for multidrug-resistant tuberculosis: the good, the bad and the ugly**  
Richard van Altena, Onno W. Akkerman, Jan-Willem C. Alffenaar, Huib A.M. Kerstjens, Cecile Magis-Escurra, Martin J. Boeree, Dick van Soolingen, Wiel C.M. de Lange, Mathieu S. Bolhuis, Wouter Hoefsloot, Gerard de Vries and Tjip S. van der Werf
- 1803 Is delamanid a potential agent in the treatment of diseases caused by *M. avium-intracellulare*?**  
David Krieger, Nicolas Schönfeld, Silvan Vesenebeckh, Gudrun Bettermann, Torsten Thomas Bauer, Holger Rüssmann and Harald Mauch
- 1804 Specific airway resistance in preschool children: why not panting after all?**  
Iulia Ioan, Silvia Demoulin-Alexikova, Laurianne Coutier, Claude Bonabel, Jane Kirkby, Kim G Nielsen, Waldemar Tomalak, Bruce Thompson, Cyril Schweitzer, Paul D Robinson and François Marchal
- 1807 Dichotomy in pulmonary graft-versus-host disease evident among allogeneic stem-cell transplant recipients undergoing lung transplantation**  
Mark Greer, Gerdt C. Riise, Lennart Hansson, Michael Perch, Pekka Hämmäinen, Antoine Roux, Sandrine Hirschi, Elodie Lhuillier, Martine Reynaud-Gaubert, Francois Philit, Johanna Claustre, Marc Stern, Jens Gottlieb and Are M. Holm
- Correspondence**
- 1811 A call for uniformity in implementing the IPAF (interstitial pneumonia with autoimmune features) criteria**  
Adelle S. Jee, Jane F. Bleasel, Stephen Adelstein, Gregory J. Keir and Tamera J. Corte; Mary E. Strek, Justin M. Oldham, Ayodeji Adegunsoye and Rekha Vij
- 1814 Smoke-free legislation and its impact on paediatric respiratory health**  
Timor Faber, Aziz Sheikh and Jasper V. Been
- 1816 Smoke-free legislation has potential to reduce the harmful effects of tobacco smoke exposure**  
Elida Zairina
- 1817 Opioids and adverse outcomes in elderly chronic obstructive pulmonary disease patients**  
Damien Viglino and Maxime Maignan; Nicholas T. Vozoris, Denis E. O'Donnell and Sudeep S. Gill
- 1819 AUTHOR CORRECTION**