

## Foreword



### **Marianna Laviola**

Marianna Laviola is a biomedical engineer and she completed her PhD in bioengineering at Politecnico di Milano (Italy). Her main research interests include the bioengineering of respiratory system, the development of computational models of human physiology and pathology, animal models of respiratory diseases, physiological measurements and ultrasonography of the diaphragm. Marianna's research at the University of Nottingham (United Kingdom) focuses on computational modelling studies of human pathophysiology. In particular, she uses and further develops high-fidelity, highly-integrated computational simulations of respiratory and cardiovascular systems to a) investigate the physiological mechanisms and rescue strategies during apnoea, b) examine tailored therapeutic strategies in silico biobank of critical illness patients and c) test novel interventions in cohorts of virtual in silico patients to identify the most promising strategies for further evaluation in future clinical trials. She is an Associate Fellow of the Higher Education Academy and she is currently supervising three PhD students. Her research has been published in several leading journals of anaesthesia and bioengineering. She is reviewer for two peer-reviewed journals, *Respiratory Care* and *IEEE Journal of Biomedical and Health Informatics*. She is also grant assessor for two English major grant bodies. Recently, she has been elected Young Professional representative 2020/22 of the *IEEE Engineering in Medicine and Biology Society (EMBS)*, the largest society for biomedical engineers.

I am delighted to welcome you to the Winter edition of *European Respiratory & Pulmonary Diseases*, where you will find a range of topical articles that we hope you find useful and relevant to your day-to-day clinical practice.

We would like to take the opportunity to invite you to contribute to our Winter 2020 edition. The journal accepts review articles, original research and case studies, along with specially selected editorial articles. We encourage authors to enhance their articles with video content, such as surgical demonstrations and video abstracts, which help to engage the audience and bring the article to life.

Presubmission enquiries are welcomed by the journal's editorial team and submissions can be made through the touchRESPIRATORY submission portal (see the information box below).

*European Respiratory & Pulmonary Diseases* would like to thank all expert authors who contributed towards this edition. A special thanks goes to our Editorial Board for their continuing support and guidance. Thanks also go to all organisations and society partners for their ongoing support. □

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