



# INTERNATIONAL CONGRESS 2023

MILAN Italy, 9-13 September

# PROGRAMME

**Blue 1+2** Session 09:00 - 11:10

## Postgraduate course: PG1 Thoracic Ultrasound: Session I

## Expanding your ultrasound skills beyond the pleura and lungs

Disease(s) : Thoracic oncology Interstitial lung diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Radiologist, Thoracic surgeon, Physician in Pulmonary Training

Chairs : Rahul Bhatnagar (Bristol, United Kingdom), Chair to be confirmed

09:00 Welcome and introduction

09:10 Focused cardiac ultrasound (FoCUS)  
Speaker to be confirmed09:40 Limited compression ultrasonography (LCU) of the deep veins for DVT assessment  
Speaker to be confirmed

10:10 Coffee break

10:20 US assessment of the diaphragm  
Søren Helbo Skaarup (Aarhus C, Denmark)

10:50 Interactive case discussion session I

**Coral 2 (live-stream)** Session 09:30 - 13:00

## Postgraduate course: PG3 Clinical challenges in sleep-disordered breathing diagnosis and treatment

Aims : to demonstrate how to select the appropriate tools in order to evaluate and manage residual sleepiness in sleep-disordered breathing (SDB) patients; to explain the importance of diagnosing SDB in patients with other respiratory diseases and cancer; to describe the current evidence of the role of telemedicine for diagnosis, treatment and follow-up of SDB.

Disease(s) : Sleep and breathing disorders

Method(s) : Epidemiology Physiology Public health

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

Chairs : Dries Testelmans (Leuven, Belgium), Esther Irene Schwarz (Zürich, Switzerland)

09:30 Residual sleepiness in continuous positive airway pressure-treated patients: a clinical approach

09:50 Discussion and Q&amp;A

10:00 Sleep-disordered breathing in respiratory diseases: an update on clinical importance  
Sophia E. Schiza (Heraklion, Greece)

10:20 Discussion and Q&amp;A

10:30 Sleep-disordered breathing and cancer: impact on treatment decision?  
Manuel Sanchez De La Torre (Lleida, Spain)

10:50 Discussion and Q&amp;A

11:00 Telemedicine for SDB diagnosis, treatment and follow-up  
Johan Verbraecken (Edegem (Antwerp), Belgium)

11:20 Discussion and Q&amp;A

11:30 Break

12:00 Group assignment  
Sophia E. Schiza (Heraklion, Greece), Manuel Sanchez De La Torre (Lleida, Spain), Johan Verbraecken (Edegem (Antwerp), Belgium)

## Brown 3

## Session

09:30 - 13:00

## Postgraduate course: PG5 The use of lung function in early detection of disease

## Advances in lung function testing and the role for Artificial Intelligence

**Aims :** to give an overview of the lung function tests available for early detection of lung disease and how they are applied; to explain in which direction current research is leading us and highlight that the future might be quite different in diagnostics; to explain how these technologies can be applied in clinical practice and to provide patient examples and other examples from clinical practice; to explain the possibilities of artificial intelligence to dig deeper in data and identify patterns earlier; to explain the influence of policymakers in early detection of disease.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Epidemiology General respiratory patient care Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Frits M.E. Franssen (Horn, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

09:30 The e-nose: screening the future?

09:50 The E-nose: group assignment

10:15 **Forced oscillation in telemonitoring: early detection of acute exacerbation of chronic obstructive pulmonary disease**  
Sabine Zimmermann (München, Germany)

10:35 **Forced oscillation in telemonitoring: group assignment**  
Sabine Zimmermann (München, Germany)

11:00 Break

11:30 **Spirometry in atrial fibrillation: what's the catch?**  
Jennifer Quint (Wimbledon, United Kingdom)

11:50 **Spirometry in Atrial Fibrillation: group assignment**  
Jennifer Quint (Wimbledon, United Kingdom)

12:15 **Artificial intelligence: early recognition of disease patterns**  
Speaker to be confirmed

12:35 **Artificial Intelligence: group assignment**  
Speaker to be confirmed

## Red 1+2

## Session

09:30 - 13:00

## Postgraduate course: PG6 Mediastinal staging: the what and the how

**Aims :** mediastinal lymph node staging is part of the daily routine endoscopic care provided by pulmonologists and is one of the cornerstones of lung cancer diagnostics, helping to make decisions about subsequent therapies and prognosis. Currently, diagnostic and therapeutic algorithms for early and locoregional nonsmall cell lung cancer are largely being redefined, including the broader introduction of sublobar resections and systemic neoadjuvant therapies. At the same time, there have been substantial advances in the field of mediastinal staging. This postgraduate course will not only provide thorough and comprehensive updates on mediastinal staging from different disciplines but will also bring together these perspectives, resulting in meaningful diagnostic and therapeutic algorithms, and enable fruitful clinical discussion between experts and participants.

**Disease(s) :** Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Imaging Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Georgia Hardavella (Athens, Greece), Ales Rozman (Golnik, Slovenia)

09:30 **Pathophysiology and molecular biology in the formation of locoregional lymph node metastases**

09:50 **Case discussion: pathophysiology and molecular biology in the formation of locoregional lymph node metastases**

10:10	<b>Novel imaging and sampling techniques</b> Georgia Hardavella (Athens, Greece)
10:30	<b>Case discussion: novel imaging and sampling techniques</b> Georgia Hardavella (Athens, Greece)
10:50	<b>Optimal mediastinal staging algorithms according to clinical stages and subsequent to neoadjuvant systemic therapies</b> Torsten Gerriet Blum (Berlin, Germany)
11:10	<b>Case discussion: optimal mediastinal staging algorithms according to clinical stages and subsequent to neoadjuvant systemic therapies</b> Torsten Gerriet Blum (Berlin, Germany)
11:30	<b>Break</b>
12:00	<b>Single and multistation N2 disease: the thoracic surgeon's view</b>
12:15	<b>Single and multistation N2 disease: the radiotherapist/clinical oncologist's view</b>
12:30	<b>Single and multistation N2 disease: the thoracic oncologist's view</b>
12:45	<b>Discussion and Q&amp;A</b>

**Brown 1+2****Session****09:30 - 13:00****Postgraduate course: PG2 Lung ageing in health and disease: from molecular mechanisms to (patho)physiological alterations**

**Aims :** to provide an overview of the physiological alterations and molecular mechanisms underlying normal lung ageing (hallmarks of ageing), and their involvement in age-related lung diseases including chronic obstructive pulmonary disease (COPD) and idiopathic pulmonary fibrosis; to explain important hallmarks, including cellular senescence, telomere attrition, epigenetic alterations and genomic instability, in more detail and thereby identify and describe biomarkers of biological ageing; to contrast processes driving accelerated (lung) ageing with drivers of successful ageing and thereby provide insight into interventions to promote health span and delay disease onset or progression; to explain ageing of the immune system in order to identify mechanisms underlying the increased mortality from acute respiratory infections in the elderly and their contribution to chronic lung diseases; to relate the occurrence of comorbidities to COPD using various mechanisms of ageing.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology

**Tag(s) :** Basic science

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Thoracic oncologist

**Chairs :** Mareike Lehmann (Marburg, Germany), Corry-Anke Brandsma (Groningen, Netherlands)

09:30	<b>Overview of lung aging</b> Silke Meiners (Sülfeld, Germany)
09:45	<b>Discussion and Q&amp;A</b>
09:55	<b>The pros and cons of cellular senescence</b> Serge Adnot (Creteil, France)
10:10	<b>Discussion and Q&amp;A</b>
10:20	<b>The epigenetic clock: a reprogrammable biomarker of ageing</b>
10:35	<b>Discussion and Q&amp;A</b>
10:45	<b>Telomeres and DNA damage</b> Speaker to be confirmed
11:00	<b>Discussion and Q&amp;A</b>
11:10	<b>Break</b>
11:40	<b>Ageing of the immune system</b>
11:55	<b>Discussion and Q&amp;A</b>

**12:05 Common drivers of ageing in COPD and comorbidities**  
Niki L. Reynaert (Maastricht, Netherlands)

**12:20 Discussion and Q&A**

**12:30 Group assignment: Pro/Con debate on Lung aging in health and disease**  
Silke Meiners (Sülfeld, Germany), Serge Adnot (Creteil, France), Niki L. Reynaert (Maastricht, Netherlands),  
Speaker to be confirmed

## Yellow 1+2+3 Session 09:30 - 13:00

### Postgraduate course: PG7 Pulmonary embolism. A practical approach to update risk stratification and treatment decisions based on the guidelines

**Aims :** management of pulmonary embolism (PE) may cover many different aspects and involves many specialties and subspecialties of respiratory medicine. For this reason, we propose four different scenarios based on clinical cases. This approach will allow attendees to review and address the most relevant aspects of different clinical scenarios, allowing them to identify the strengths and pitfalls of the clinical guidelines. The aims of the session are as follows: Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation? Different thrombus recanalisation strategies in patients with intermediate-high-risk or high-risk PE? Long-term anticoagulation in patients with cancer-associated thrombosis. When is enough? When can we stop? Do all patients with cancer thrombosis have the same risk of bleeding and recurrence? Particularities of lung cancer.

**Disease(s) :** Pulmonary vascular diseases Respiratory critical care Thoracic oncology

**Method(s) :** General respiratory patient care Imaging Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Respiratory therapist

**Chairs :** Luis Jara-Palomares (Sevilla, Spain), Marija M. Zdraveska (Skopje, North Macedonia)

**09:30 Low-risk PE. What is the best score? Outpatient management vs. short hospitalisation?**  
Fida Charif (Beirut, Lebanon)

**09:50 Discussion and Q&A**

**10:00 Different thrombus recanalisation strategies in patients with intermediate-high-risk or high-risk PE?**  
David Jiménez Castro (Madrid, Spain)

**10:20 Discussion and Q&A**

**10:30 Long-term anticoagulation in patients with cancer-associated thrombosis. When is enough? When can we stop?**

**10:50 Discussion and Q&A**

**11:00 Do all patients with cancer thrombosis have the same risk of bleeding and recurrence? Particularities of lung cancer**  
Laurent Bertoletti (Saint Etienne Cedex, France)

**11:20 Discussion and Q&A**

**11:30 Break**

**12:00 Group assignment**  
Fida Charif (Beirut, Lebanon), David Jiménez Castro (Madrid, Spain), Laurent Bertoletti (Saint Etienne Cedex, France)

## Coral 3 (live-stream) Session 09:30 - 13:00

### Postgraduate course: PG4 Masterclass in asthma

**Aims :** to describe methods of diagnosing and managing patients with asthma; to present methods of assessing and treating patients with different asthma phenotypes and monitoring the effects of treatment of asthma based on recent updates.

**Disease(s) :** Airway diseases

**Method(s) :** General respiratory patient care Physiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Omar S. Usmani (London, United Kingdom), Augusta Beech (Manchester, United Kingdom), Matteo Bonini (Rome, Italy)

<b>09:30</b>	<b>Diagnosis of asthma</b> Renaud Louis (Liège, Belgium)
<b>09:50</b>	<b>Discussion and Q&amp;A</b>
<b>10:00</b>	<b>Assessing and monitoring asthma and its phenotypes</b> Stylianios Loukides (Athens, Greece)
<b>10:20</b>	<b>Discussion and Q&amp;A</b>
<b>10:30</b>	<b>Pharmacological treatment and current controversies</b> Mona Al-Ahmad (Kuwait, Kuwait)
<b>10:50</b>	<b>Discussion and Q&amp;A</b>
<b>11:00</b>	<b>Comorbidities in asthma</b> Florence Schleich (Liège, Belgium)
<b>11:20</b>	<b>Discussion and Q&amp;A</b>
<b>11:30</b>	<b>Break</b>
<b>12:00</b>	<b>Interactive cases by early career members</b> Augusta Beech (Manchester, United Kingdom)

## Coral 4+5 (live-stream) Session 09:30 - 11:00

**Primary care session: Working against tobacco and air pollution, the other big pandemic**  
Primary care in the best position to treat tobacco addiction and other negative environmental changes for respiratory health

**Aims :** to present some strategies for fighting tobacco addiction and negative environmental changes affecting respiratory health from different perspectives related to primary health care.

**Disease(s) :** **Airway diseases**

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Respiratory physiotherapist

**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Miguel Román Rodriguez (Palma De Mallorca, Spain)

<b>09:30</b>	<b>The role of primary health care in scarce-resource environments</b> Speaker to be confirmed
<b>09:45</b>	<b>Not just a clinical problem. The role of public health departments and politicians</b> Joan B Soriano (Madrid, Spain)
<b>10:00</b>	<b>Not only tobacco but biomass burning, pollution or carbon print</b> Sundeeep Santosh Salvi (Pune (Maharashtra), India)
<b>10:15</b>	<b>Is vaping a treatment for nicotine dependence or a strategy to recruit new addicts?</b> Peter Hajek (London, United Kingdom)
<b>10:30</b>	<b>Discussion and Q&amp;A</b>

## Blue 1+2 Session 11:10 - 13:40

**Postgraduate course: PG1 Thoracic Ultrasound: Session II**  
Thoracic ultrasound in specific clinical settings

**Disease(s) :** **Interstitial lung diseases** **Thoracic oncology**

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Radiologist, Thoracic surgeon, Physician in Pulmonary Training

**Chairs :** Søren Helbo Skaarup (Aarhus C, Denmark), Radhika Banka (Mumbai (Maharashtra), India)

- 11:10 Use of thoracic ultrasound in an intensive care unit**  
Silvia Mongodi (Pavia, Italy)
- 
- 11:40 Use of thoracic ultrasound in an interstitial lung disease clinic**  
Speaker to be confirmed
- 
- 12:10 Lunch break**
- 
- 12:40 Use of evidence-based training principles in thoracic ultrasound in a department**  
Speaker to be confirmed
- 
- 13:10 Interactive case discussion session II**
- 
- 13:30 Coffee break**

## Studio (White) Session 11:15 - 12:45

### Language session: French programme 2023

#### A joint ERS/SPLF session

**Aims :** This session will be delivered in French and translated in English.

**Disease(s) :** Respiratory infections Thoracic oncology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Respiratory critical care physician, Physiologist, Scientist (basic, translational), Thoracic oncologist

**Chairs :** Jesus Gonzalez Bermejo (Montlignon, France), Thomas Gille (Bobigny, France)

- 11:15 Comité d'Orientation Stratégique et d'Engagement (COSE) de la SPLF / SPLF Strategic Orientation and Commitment Committee (COSE)**  
Chantal Raheison-Semjen (Pointe-à-Pitre (Guadeloupe), France)

- 11:25 Diagnostic de l'hypertension pulmonaire: quoi de neuf dans les recommandations ERS/ESC 2022 / Diagnosis of pulmonary hypertension: what's new in the European Respiratory Society/European Society of Cardiology recommendations 2022**  
Marc Humbert (Le Kremlin-Bicêtre, France)

- 11:35 Médecine collaborative: diagnostic et traitement de l'EP durjoignant la grossesse / Collaborative medicine: diagnosis and treatment of pulmonary embolism during pregnancy**  
Cécile Tromeur (Plougonvelin, France)

- 11:45 Lieux de soins: PEC ambulatoire de l'embolie pulmonaire / Care: management of pulmonary embolism**  
Olivier Sanchez (Paris, France)

- 11:55 Discussion and Q&A**

- 12:10 One Health – Exposome: nouveaux paradigmes en pneumologie? / Exposome: new paradigms in pulmonology?**  
Claire Andrejak (Amiens, France)

- 12:20 Pollution et Cancer bronchique / Pollution and lung cancer**  
Lucile Sese (Paris, France)

- 12:30 Discussion and Q&A**

## Coral 4+5 (live-stream) Session 11:15 - 12:45

### Primary care session: Conditions we are just dealing with the tip of the iceberg in primary care Frequently mismanaged conditions in primary health care

**Aims :** to discuss possible actions to improve management of frequently forbidden conditions in primary health care; to provide general practitioners and primary care professionals with easy tools and strategies to diagnose and manage sleep apnoea, chronic cough and interstitial lung diseases; to reduce the burden of antibiotic resistance.

**Disease(s) :** Interstitial lung diseases Respiratory infections Sleep and breathing disorders

**Method(s) :** General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Journalist

**Chairs :** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Miguel Román Rodriguez (Palma De Mallorca, Spain)

**11:15** **Obstructive sleep apnoea. Easy to identify and diagnose in primary care settings**  
Cláudia Sofia De Almeida Vicente Ferreira (Coimbra, Portugal)

**11:30** **Chronic cough. New algorithms to deal with this common condition**  
Imran Satia (Hamilton, Canada)

**11:45** **Antibiotic resistance. Primary care in the first line to extend antibiotics'utility**

**12:00** **Interstitial lung disease. Never forget to think about it in primary care**  
Maria Molina Molina (Barcelona, Spain)

**12:15** **Discussion and Q&A**

## Coral 4+5 (live-stream) Session 13:15 - 14:45

Language session: Italian programme 2023

Terapia e procedure in pneumologia: up to date / Therapy and procedures in pulmonology: up to date.

**Aims :** to provide updates on therapeutic novelties in the field of chronic obstructive pulmonary diseases and fibrotic lung diseases; to discuss environmental and occupational risk factors in the pathogenesis of fibrotic lung diseases and the usefulness of disposable devices in interventional pulmonology, with particular focus on the possible environmental impact that single-use devices can have. Scopo della sessione è fare il punto sulle novità terapeutiche nel campo delle patologie polmonari croniche ostruttive e delle patologie fibrosanti. Inoltre due letture saranno dedicate ai fattori di rischio ambientali e professionali nella patogenesi delle patologie fibrosanti del polmone e sull'utilità dei dispositivi monouso in pneumologia interventistica, con particolare riguardo al possibile impatto ambientale che tali dispositivi possono avere.

**Disease(s) :** Airway diseases Interstitial lung diseases

**Method(s) :** Endoscopy and interventional pulmonology Epidemiology General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

**Chairs :** Mauro Carone (Bari, Italy), Carlo Vancheri (Catania (CT), Italy), Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy)

**13:15** **Fattori di rischio ambientali e professionali nella patogenesi delle patologie fibrosanti del polmone / Environmental and professional risk factors for development of fibrotic lung diseases**  
Elena Bargagli (Siena, Italy)

**13:30** **Nuove terapie delle patologie polmonari fibrosanti / New therapies for fibrotic lung diseases**  
Luca Richeldi (Roma, Italy)

**13:45** **Nuove terapie delle patologie polmonari croniche ostruttive / New therapies for chronic obstructive lung diseases**  
Claudio Micheletto (S.Giovanni Lupatoto, Italy)

**14:00** **Utilità e impatto ambientale dei dispositivi monouso in pneumologia interventistica / Utility and environmental impact of single-use devices in interventional pulmonology**  
Lina Zuccatosta (Torrette (AN), Italy)

**14:15** **Discussion and Q&A**

## Blue 1+2 Session 13:40 - 15:10

Postgraduate course: PG1 Thoracic Ultrasound: Session III

Advanced thoracic ultrasound

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic surgeon

**Chairs :** Chair to be confirmed

**13:40** **Advanced TUS for assessment of the patient with pleural disease**  
Speaker to be confirmed

**14:10** **Advanced TUS for the assessment of the patient with a chest opacity**  
Christian B. Laursen (Odense, Denmark)



14:40 **Interactive case discussion session III**15:00 **Coffee break****Red 1+2 Session 14:00 - 17:30****Postgraduate course: PG9 How to improve the success of noninvasive respiratory support therapies****Aims :** to discuss the best practices in noninvasive respiratory support therapies for patients with acute and chronic respiratory failure; to review new developments in noninvasive respiratory support therapies (from high-flow nasal oxygen therapy to noninvasive ventilation)**Disease(s) :** **Airway diseases** **Respiratory critical care** **Sleep and breathing disorders****Method(s) :** General respiratory patient care Pulmonary rehabilitation Respiratory intensive care**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Respiratory physiotherapist, Respiratory therapist**Chairs :** João Carlos Winck (Vila Nova de Gaia, Portugal), Claudia Crimi (Catania (CT), Italy)14:00 **Noninvasive respiratory support therapies in the acute setting: how to improve the success rate in acute hypoxemic respiratory failure**  
Speaker to be confirmed14:20 **Discussion and Q&A**14:30 **Noninvasive respiratory support therapies in the acute setting: how to improve the success rate in weaning**  
Martin Dres (Paris, France)14:50 **Discussion and Q&A**15:00 **Noninvasive respiratory support therapies in the chronic setting: how to improve the success rate in neuromuscular disorders**  
Speaker to be confirmed15:20 **Discussion and Q&A**15:30 **Noninvasive respiratory support therapies in the chronic setting: how to optimise the patient-ventilator interaction**  
Annalisa Carlucci (San Donato Milanese (MI), Italy)15:50 **Discussion and Q&A**16:00 **Break**16:30 **Group assignment: How to improve the success of noninvasive respiratory support therapies**  
Martin Dres (Paris, France), Annalisa Carlucci (San Donato Milanese (MI), Italy), Speaker to be confirmed**Yellow 1+2+3 Session 14:00 - 17:30****Postgraduate course: PG8 Advanced cardiopulmonary exercise testing CPET in health and cardio-respiratory disease****Aims :** to explain the physiological constraints of exercise tolerance and its application in clinical practice; to explain the optimal methods for testing lung mechanics and evaluating exertional dyspnoea; to explain the different formats of exercise tests, their advantages and disadvantages and their different prognostic values in adults and children; to explain the usefulness of exercise testing for assessing the exercise response and exercise rehabilitation in clinical practice.**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Pulmonary vascular diseases****Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist**Chairs :** Pierantonio Laveneziana (Paris, France), William Stringer (Long Beach, United States)14:00 **The pulmonary gas exchange response to exercise in health and disease**  
Paolo Palange (Rome, Italy)

14:20 Discussion and Q&A

14:30 **Respiratory mechanics and exertional dyspnoea in health and disease**  
Michele Schaeffer (Leuven, Belgium)

14:50 Discussion and Q&A

15:00 **Group assignment: Advanced cardiopulmonary exercise testing**  
Paolo Palange (Rome, Italy), Michele Schaeffer (Leuven, Belgium)

15:30 Break

16:00 **Modalities available for assessing the exercise response and exercise rehabilitation**  
Sally J. Singh (Leicester (Leicestershire), United Kingdom)

16:20 Discussion and Q&A

16:30 **Exercise testing in children with respiratory diseases**

16:50 Discussion and Q&A

17:00 **Group assignment: Advanced cardiopulmonary exercise testing**  
Sally J. Singh (Leicester (Leicestershire), United Kingdom)

## Brown 1+2

## Session

14:00 - 17:30

### Postgraduate course: PG11 Cryotherapy in the paediatric airway

#### Indication and application of cryo-probes in the paediatric airway

**Aims :** cryotherapy using cryocatheters is an established procedure in adult pulmonology for performing a biopsy, restoring airway patency or removing foreign bodies. In the paediatric lung, this procedure is new because catheters measuring 1.1 mm allow the application of ultrathin bronchoscopes. However, the use of this technique requires its intensive study as well as a special setting (see technical standards for cryobiopsies by the European Respiratory Society). This course is aimed at all endoscopists who want to familiarise themselves with this topic and acquire theoretical knowledge as well as practical skills.

**Disease(s) :** Paediatric respiratory diseases

**Method(s) :** Endoscopy and interventional pulmonology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Respiratory critical care physician, Paediatrician, Thoracic surgeon

**Chairs :** Dirk Schramm (Düsseldorf, Germany), Chair to be confirmed

14:00 **New advantages in paediatric interventional bronchoscopy: cryotherapy**  
Speaker to be confirmed

14:20 Discussion and Q&A

14:30 **Foreign body removal by means of cryocatheters**  
Rhia Shah (New York, United States)

14:50 Discussion and Q&A

15:00 **Restoration of airway patency: indication and technique**  
Speaker to be confirmed

15:20 Discussion and Q&A

15:30 **Navigation of the probe: differences due to different probe sizes**  
Sarabon Tahura (Dhaka, Bangladesh)

15:50 Discussion and Q&A

16:00 Break

16:30 **Group assignment: Cryotherapy in paediatric airway**  
Speaker to be confirmed

## Coral 3 (live-stream)

## Session

14:00 - 17:30

### Postgraduate course: PG10 Masterclass in chronic obstructive pulmonary disease

**Aims :** to describe methods for diagnosing, assessing and managing patients with chronic obstructive pulmonary disease (COPD); to present methods for assessing and treating patients with different COPD phenotypes and monitoring the effects of treatment of COPD based on recent updates.

**Disease(s) :** **Airway diseases**

**Method(s) :** Cell and molecular biology General respiratory patient care Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Apostolos Bossios (Stockholm, Sweden), Vanessa M. McDonald (Newcastle (NSW), Australia), Alexander Mathioudakis (Stockport, United Kingdom)

<b>14:00</b>	<b>Diagnosis of COPD</b> Daiana Stolz (Basel, Switzerland)
<b>14:20</b>	<b>Discussion and Q&amp;A</b>
<b>14:30</b>	<b>Assessing and monitoring COPD and its phenotypes</b> MeiLan K. Han (Ann Arbor, United States)
<b>14:50</b>	<b>Discussion and Q&amp;A</b>
<b>15:00</b>	<b>Pharmacological treatment and current controversies</b> Konstantinos Kostikas (Ioannina, Greece)
<b>15:20</b>	<b>Discussion and Q&amp;A</b>
<b>15:30</b>	<b>Comorbidities in COPD</b>
<b>15:50</b>	<b>Discussion and Q&amp;A</b>
<b>16:00</b>	<b>Break</b>
<b>16:30</b>	<b>Interactive cases by early career members</b> Alexander Mathioudakis (Stockport, United Kingdom)

## Coral 2 (live-stream) Session 14:00 - 17:30

### Postgraduate course: PG13 The joy and challenges of diagnosing interstitial lung diseases ILD diagnosis 2023

**Aims :** to improve understanding of the current status of the multidisciplinary diagnosis of interstitial lung diseases (ILDs) and its challenges and pitfalls; to provide insight into future diagnostic modalities; to conduct interactive case discussions

**Disease(s) :** **Interstitial lung diseases**

**Method(s) :** Endoscopy and interventional pulmonology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** General practitioner, Nurse, Radiologist, Physician in Pulmonary Training, Adult pulmonologist/Clinician

**Chairs :** Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

<b>14:00</b>	<b>The clinical approach to ILD</b> Julia Wälscher (Essen, Germany)
<b>14:20</b>	<b>How to read a high-resolution computed tomography scan?</b> Speaker to be confirmed
<b>14:50</b>	<b>The practice of cryobiopsy</b> Lauren Troy (Camperdown (NSW), Australia)
<b>15:10</b>	<b>New techniques in the diagnosis of ILDs</b> Marlies S. Wijsenbeek (Rotterdam, Netherlands)
<b>15:40</b>	<b>Pitfalls in the diagnosis of ILDs</b> Michael Kreuter (Heidelberg, Germany)
<b>16:00</b>	<b>Break</b>

- 16:15** **The challenges to diagnose: cystic lung disease**  
Vincent Cottin (Lyon, France)
- 
- 16:30** **The challenges to diagnose: drug-induced lung disease**  
Lauren Troy (Camperdown (NSW), Australia)
- 
- 16:45** **The challenges to diagnose: progressive pulmonary fibrosis**  
Vincent Cottin (Lyon, France)
- 
- 17:00** **The grand finale: multidisciplinary case discussions**  
Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Vincent Cottin (Lyon, France), Lauren Troy (Camperdown (NSW), Australia), Julia Wälscher (Essen, Germany)

### Brown 3 Session 14:00 - 17:30

#### Postgraduate course: PG12 How to get a successful European project on respiratory infections: The lesson of the European Clinical Research Alliance on Infectious Diseases (ECRAID)

**Aims :** The main aim of this session will be to inform about the ECRAID project and how it achieved to be successfully approved and supported by the European Union. Some of the most relevant workpackages focussed on respiratory infections (infections in primary care, community acquired and nosocomial infections) will be represented in this course in order to provide useful examples for research and future projects.

**Disease(s) :** Paediatric respiratory diseases Respiratory critical care Respiratory infections

**Method(s) :** General respiratory patient care Public health Respiratory intensive care

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Chair to be confirmed

- 14:00** **The Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia (REMAP-CAP)**  
Speaker to be confirmed
- 
- 14:20** **Discussion and Q&A**
- 
- 14:30** **POS-VAP: implementation of clinical trials on VAP through an appropriate and flexible infrastructure**  
Speaker to be confirmed
- 
- 14:50** **Discussion and Q&A**
- 
- 15:00** **The management of respiratory infections in primary care: POS-ARI-PC**  
Speaker to be confirmed
- 
- 15:20** **Discussion and Q&A**
- 
- 15:30** **The lessons learned from COVID-19 pandemic: how to get prepared for the future**  
Speaker to be confirmed
- 
- 15:50** **Discussion and Q&A**
- 
- 16:00** **Break**
- 
- 16:30** **Group assignment: How to get a successful European project on respiratory infections**  
Speaker to be confirmed

### Blue 1+2 Session 15:10 - 17:00

#### Postgraduate course: PG1 Thoracic Ultrasound: Session IV

##### Advanced ultrasound guided procedures

**Disease(s) :** Interstitial lung diseases Thoracic oncology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

**Chairs :** Christian B. Laursen (Odense, Denmark), Chair to be confirmed

**15:10** **Ultrasound guided biopsy of the pleura**  
Speaker to be confirmed

**15:35** **Ultrasound guided biopsy of lymph nodes**  
Speaker to be confirmed

**16:00** **Break**

**16:10** **Ultrasound guided biopsy of the lung**  
Speaker to be confirmed

**16:35** **TUS for advanced procedure guidance**  
Speaker to be confirmed

## Studio (White) Session 15:15 - 16:45

Language session: Spanish/Portuguese programme 2023

Biological therapy in respiratory diseases. A joint ERS/ALAT/SBPT/SEPAR/SPP session

**Aims :** to provide an update on the usefulness of biological therapies for the main noninfectious respiratory diseases.

**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology

**Method(s) :** General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Pathologist, Radiologist, Thoracic oncologist

**Chairs :** Carlos Robalo Cordeiro (Coimbra, Portugal), Francisco Arancibia Hernandez (Santiago de Chile, Chile), Margareth Maria Pretti Dalcolmo (Rio De Janeiro (RJ), Brazil), Francisco Garcia Rio (Madrid, Spain)

**15:15** **Biological therapy for severe asthma**  
Ignacio Zabert (Neuquén, Argentina)

**15:30** **Lung cancer: recent therapeutic advances**  
Margarida Carmo de Pinho Dias (Vila Nova de Gaia, Portugal)

**15:45** **Role of biological therapy for chronic obstructive pulmonary disease**  
Fco.De Borja Garcia-Cosio Piqueras (Palma de Mallorca, Spain)

**16:00** **Biologic treatments for interstitial lung diseases**  
Bruno Guedes Baldi (São Paulo (SP), Brazil)

**16:15** **Discussion and Q&A**

**Amber 1+2** **Session** **08:00 - 10:20****Skills workshop: SW1 Pulmonary rehabilitation: extending practice to improve health outcomes**  
**A personalised medicine approach**

**Aims :** to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** General respiratory patient care Physiology Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Rainer Gloeckl (Schoenau am Koenigssee, Germany)

**08:00 Introduction**

**08:00 Physical activity assessment and intervention**  
Heleen Demeyer (Leuven, Belgium)

**08:00 Neuromuscular electrical stimulation: in who and how?**  
Lorna Latimer (Rugby (Warwickshire), United Kingdom)

**08:00 How to improve balance and reduce falls in people undergoing pulmonary rehabilitation**  
Marla Beauchamp (Hamilton, Canada)

**08:00 Implementing mindfulness interventions into pulmonary rehabilitation**  
Ingeborg Farver-Vestergaard (Vejle, Denmark)

**Coral 2 (live-stream)** **Session** **08:30 - 10:00****Symposium: Lung consequences of the obesity epidemic from children to the elderly**  
**Obesity and lung diseases**

**Aims :** to give an epidemiological overview of the obesity and its detrimental effects on general health; to present the most important clinical consequences of obesity on lung health and cardiovascular effects, spanning from early life to adulthood

**Disease(s) :** Airway diseases Paediatric respiratory diseases Sleep and breathing disorders

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Angela Zacharasiewicz (Wien, Austria), Johan Verbraecken (Edegem (Antwerp), Belgium)

**08:30 The immune system and obesity-related asthma: what is the link?**  
Deepa Rastogi (Washington, United States)

**08:45 Obesity in children and its relationship with sleep**  
Indra Narang (Toronto (ON), Canada)

**09:00 Why childhood obesity causes respiratory diseases**  
Speaker to be confirmed

**09:15 Causal link between obesity and asthma: reasons and consequences for therapeutic management**

**09:30 Discussion and Q&A**

**Coral 3 (live-stream)** **Session** **08:30 - 10:00****Symposium: War, climate change, migration and respiratory infections**

**Aims :** to discuss 1) the menaces the world is facing and how adaptive strategies can help to minimise health risks.; 2) policy interventions that can facilitate the mobility of people, enhance well-being and maximise social and economic development in both places of origin and destination

**Disease(s) :** Airway diseases Paediatric respiratory diseases Respiratory infections**Method(s) :** Epidemiology General respiratory patient care Public health**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Radiologist, Respiratory physiotherapist, Journalist**Chairs :** Alberto Garcia-Basteiro (Maputo, Mozambique), Andrew Bush (London, United Kingdom)**08:30 Acute respiratory infections in crisis affected populations**  
Giovanni Battista Migliori (Varese (VA), Italy)**08:45 Climate change and respiratory infections**  
Carlos Robalo Cordeiro (Coimbra, Portugal)**09:00 Effect of climate changes and migration on infection in the paediatric population**  
Marijke Proesmans (Leuven, Belgium)**09:15 Respiratory health in migrant populations**  
Speaker to be confirmed**09:30 Discussion and Q&A****Coral 1 (live-stream) Session 08:30 - 10:00****Symposium: Evolving concepts in the management of nonsmall cell lung cancer****Aims :** to highlight the latest trends in lung cancer and pleural mesothelioma care. Adoption of emerging therapies such as immunotherapy in early-stage nonsmall cell lung cancer (NSCLC) represents a paradigm shift relative to the previous treatment algorithms. Individualised approaches in thoracic surgery and oligometastatic NSCLC are just finding their way into routine care. Likewise, malignant pleural effusion treatment and research of pleural mesothelioma are currently being redefined.**Disease(s) :** Thoracic oncology**Method(s) :** General respiratory patient care Imaging Surgery**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist**Chairs :** Federica Meloni (Pavia (PV), Italy), Torsten Gerriet Blum (Berlin, Germany)**08:30 Choosing between new and established adjuvant regimens perioperatively****08:45 Individualized surgical approach in thoracic lung cancer**  
Monica Casiraghi (Milan, Italy)**09:00 Integrating systemic and local therapies in the management of oligometastatic NSCLC**  
Dragana M. Jovanović (Beograd, Republic of Serbia)**09:15 Innovative approaches for pleural effusion in lung cancer****09:30 Discussion and Q&A****Silver (live-stream) Session 08:30 - 10:00****Symposium: Progressive pulmonary fibrosis: challenges and controversies****Aims :** to describe the magnitude of the problem of progressive pulmonary fibrosis (PPF); to discuss the diagnostic tools to detect or predict PPF; to explore some of the putative pathogenic mechanisms that may be involved in the progression of fibrotic lung disorder; to discuss the therapeutic approach, covering immunosuppression and antifibrotic drugs, antifibrotic drugs alone, nonpharmacological support, and when to start and stop this all.**Disease(s) :** Interstitial lung diseases**Method(s) :** Cell and molecular biology Imaging Pulmonary function testing**Tag(s) :** Translational**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational)**Chairs :** Michael Kreuter (Heidelberg, Germany), Karen Moor (Rotterdam, Netherlands)**08:30 Progressive pulmonary fibrosis. The burden of disease progression in fibrotic interstitial lung disease**  
Phil Molyneaux (London, United Kingdom)

**08:45 Diagnostic challenges and biomarkers to profile progression. Time is gold**  
Anna Podolanczuk (New York, United States)

**09:00 Cellular and molecular mechanisms involved in progression of pulmonary fibrosis**  
Moises Eduardo Selman Lama (Mexico, Mexico)

**09:15 Therapeutic approach and challenges in PPF**  
Elisabeth Bendstrup (Aarhus N, Denmark)

**09:30 Discussion and Q&A**

## Purple (live-stream) Session 08:30 - 10:00

**Respiratory medicine meets other disciplines: Artificial intelligence in chest radiology and clinical practice**

**A joint ERS/European Society of Thoracic Imaging (ESTI) session**

**Aims :** to introduce the current artificial intelligence (AI) - derived applications in chest radiology; to discuss clinical application of artificial intelligence AI.

**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Thoracic oncology**

**Method(s) :** Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Respiratory critical care physician, Paediatrician, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs :** Walter De Wever (Leuven, Belgium), Elzbieta Magdalena Grabczak (Warszawa, Poland), Anna Rita Larici (Roma (RM), Italy)

**08:30 Artificial intelligence in thoracic imaging: what is AI and where do we stand?**  
Rozemarijn Vliegenthart (Groningen, Netherlands)

**08:45 Artificial intelligence and organ or lesion segmentation**  
Speaker to be confirmed

**09:00 Artificial intelligence and detection, classification and prognosis of thoracic malignancies**  
Speaker to be confirmed

**09:15 Artificial intelligence and detection, classification and prognosis of diffuse lung diseases**  
Nicola Sverzellati (Parma (PR), Italy)

**09:30 Discussion and Q&A**

## Gold (live-stream) Session 08:30 - 10:00

**State of the art session: Airway diseases**

**Longitudinal cohorts in airway disease. What have they taught us about personalised treatment of our everyday patients?**

**Aims :** to discuss effective studies on phenotypes and endotypes of airway diseases, the novel, discovered underlying pathologies and novel therapies based on longitudinal cohorts; to present the long-term effects of different therapies; to explain input of longitudinal cohorts to our current knowledge about airway diseases; to critically review the setting up and results of four main longitudinal cohorts.

**Disease(s) :** **Airway diseases**

**Method(s) :** Cell and molecular biology Epidemiology Physiology

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Patient, Physician in Pulmonary Training, Radiologist

**Chairs :** Omar S. Usmani (London, United Kingdom), Vanessa M. McDonald (Newcastle (NSW), Australia), Apostolos Bossios (Stockholm, Sweden)

**08:30 The Unbiased Biomarkers for the Prediction of Respiratory Disease Outcomes (U-BIOPRED) cohort. Applying systems biology to reveal the mechanisms of severe asthma**  
Kian Fan Chung (London, United Kingdom)

**08:45 The COPDGene® Study: investigating the underlying genetic factors of chronic obstructive pulmonary disease**  
MeiLan K. Han (Ann Arbor, United States)



**09:00** **Assessment of the involvement of small airways in asthma: the ATLANTIS study**  
Monica Kraft (New York, United States)

**09:15** **The NOVEL observational longitudinal study (NOVELTY): real-world evidence on asthma and/or chronic obstructive pulmonary disease development**  
Alberto Papi (Cona, Ferrara, Italy)

**09:30** **Discussion and Q&A**

## Coral 2 (live-stream) Session 10:15 - 11:45

### Symposium: Obesity and the lung: from wakefulness to sleep

**Aims** : to present the latest advances in basic and clinical research, with a clear translational component, about the relationship between obesity and respiratory function (from wakefulness to sleep); to identify the latest advances in the description of pathophysiological mechanisms related to obesity and pulmonary dysfunction, considering a wide age spectrum, from childhood to adulthood; to present the available evidence that shows the effect of obesity on the functional level in ventilatory mechanics; to explore recent and significant advances in the study of the gut microbiota and its relationship with the manifestation of pulmonary pathology; to present the latest studies showing the different therapeutic options and clinical management of patients with obesity hypoventilation syndrome.

**Disease(s)** : Airway diseases Paediatric respiratory diseases Sleep and breathing disorders

**Method(s)** : Physiology Pulmonary function testing Respiratory intensive care

**Tag(s)** : Translational

**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs** : Angela Zacharasiewicz (Wien, Austria), Johan Verbraecken (Edegem (Antwerp), Belgium)

**10:15** **Pathophysiological mechanism linking obesity and lung dysfunction: from childhood to adults**  
Stefania Redolfi (Cagliari, Italy)

**10:30** **Mechanics of the lungs and chest wall in obesity and respiratory compliance**  
Anne Dixon (Burlington, United States)

**10:45** **Crosstalk between the gut microbiota and lung diseases**  
Speaker to be confirmed

**11:00** **Obesity and sleep-related hypoventilation: new perspectives for clinical management and therapeutic interventions**  
Juan Fernando Masa Jiménez (Cáceres, Spain)

**11:15** **Discussion and Q&A**

## Coral 1 (live-stream) Session 10:15 - 11:45

### Symposium: Infectious and noninfectious complications of immunosuppressed patients

**Aims** : to highlight the different complications of immunosuppressed patients; to focus on difficult-to-manage respiratory infections and innovative approaches such as phage therapy and its application, and preventive and treatment strategies for fungal pulmonary infections; to address the pathogenesis and treatment approaches of noninfectious complications, either immune-driven (chronic lung allograft dysfunction (CLAD) and graft-versus-host disease (GVHD)) or drug-related.

**Disease(s)** : Airway diseases Interstitial lung diseases Respiratory infections

**Method(s)** : Pulmonary function testing Transplantation

**Tag(s)** : Clinical

**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Thoracic surgeon

**Chairs** : Federica Meloni (Pavia (PV), Italy), Torsten Gerriet Blum (Berlin, Germany)

**10:15** **Multidrug-resistant bacterial pulmonary infections: challenges of phage therapy**  
Speaker to be confirmed

**10:30** **Fungal infections in solid organ and bone marrow transplant recipients: preventive and treatment strategies**  
Speaker to be confirmed

**10:45** **Chronic lung allograft dysfunction and chronic GVHD: common pathogenic mechanisms and clinical features?**  
Robin Vos (Leuven, Belgium)

**11:00 CLAD and chronic pulmonary GVHD: old and new therapeutic approaches**  
Daniel Wolff (Regensburg, Germany)

**11:15 Discussion and Q&A**

## Coral 3 (live-stream) Session 10:15 - 11:45

### Journal session: Cystic fibrosis in the era of highly effective cystic fibrosis transmembrane conductance regulator modulator therapy

#### Highlights from The Lancet and The Lancet Respiratory Medicine

**Aims :** to bring together leaders in the field to provide an overview of the clinical and research landscape in the era of highly effective cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapy; to provide insights into disease mechanisms; to review progress in the development of small-molecule CFTR modulator therapies; to discuss and consider the needs of people with cystic fibrosis who are eligible for current CFTR modulators and the unmet needs of patients for whom CFTR-directed therapies are not available at present, highlight novel treatment approaches in development that could shape the future of clinical care and outline priorities for research.

**Disease(s) :** Airway diseases Paediatric respiratory diseases Respiratory infections

**Method(s) :** Cell and molecular biology General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Rebecca Craven (London, United Kingdom), Andrew Bush (London, United Kingdom)

**10:15 CFTR modulator therapy: transforming the landscape of clinical care in cystic fibrosis**  
Damian Downey (Belfast, Ireland)

**10:30 Understanding and addressing the needs of people with cystic fibrosis in the era of highly effective CFTR modulator therapy**  
Katherine Hisert (Denver, United States)

**10:45 The future of cystic fibrosis treatment: from disease mechanisms to novel therapeutic approaches**  
Marcus Mall (Berlin, Germany)

**11:00 The future of clinical trials in cystic fibrosis**  
Nicole Mayer-Hamblett (Seattle, United States)

**11:15 Discussion and Q&A**

## Gold (live-stream) Session 10:15 - 11:45

### Clinical cases: Lungs on fire: airway diseases?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Airway diseases

**Tag(s) :** Clinical

**Chairs :** Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Chair to be confirmed

**Discussants :** Emer Kelly (Dublin 4, Ireland), Marc Miravittles (Barcelona (CT), Spain)

**10:15 Case 1 incl. panel discussion and Q&A**  
Emer Kelly (Dublin 4, Ireland)

**10:37 Case 2 incl. panel discussion and Q&A**  
Marc Miravittles (Barcelona (CT), Spain)

**10:59 Case 3 incl. panel discussion and Q&A**  
Emer Kelly (Dublin 4, Ireland)

**11:21 Case 4 incl. panel discussion and Q&A**  
Marc Miravittles (Barcelona (CT), Spain)

**Purple (live-stream) Session 10:15 - 11:45****Mini symposium: Bronchoscopy in challenging situations****Respiratory failure, infectious diseases, bleeding from airways**

**Aims :** to describe the difficulties of performing bronchoscopy in selected life-threatening situations; to describe possible complications and risks for patients and the medical team; to present potential solutions and describe use of particular devices and procedures to minimise the risk of complications and to enable the procedure to obtain diagnostic material or resolve life-threatening problems.

**Disease(s) :** Respiratory critical care Respiratory infections Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Imaging Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Thoracic oncologist

**Chairs :** Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland), Anna Rita Larici (Roma (RM), Italy)

- |              |  |
|--------------|--|
| <b>10:15</b> | <b>Patients with respiratory failure: how to make a bronchoscopic procedure still possible?</b><br>Szymon Skoczylski (Katowice, Poland)      |
| <b>10:30</b> | <b>Bronchoscopy in highly contagious lung infections: what lessons did we learn from COVID-19?</b><br>Lina Zuccatosta (Torrette (AN), Italy) |
| <b>10:45</b> | <b>Bleeding from the airways: spontaneous or a complication of interventional procedures. What to do?</b><br>Speaker to be confirmed         |
| <b>11:00</b> | <b>Discussion and Q&amp;A</b>  |

**Amber 1+2 Session 10:40 - 13:00****Skills workshop: SW2 Pulmonary rehabilitation: extending practice to improve health outcomes****A personalised medicine approach**

**Aims :** to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** General respiratory patient care Physiology Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Sarah Houben-Wilke (Horn, Netherlands)

- |              |  |
|--------------|--|
| <b>10:40</b> | <b>Introduction</b>  |
| <b>10:40</b> | <b>Physical activity assessment and intervention</b><br>Henrik Watz (Großhansdorf, Germany)  |
| <b>10:40</b> | <b>Neuromuscular electrical stimulation: in who and how?</b><br>Roy Meys (Horn, Netherlands)                                       |
| <b>10:40</b> | <b>How to improve balance and reduce falls in people undergoing pulmonary rehabilitation</b><br>Marla Beauchamp (Hamilton, Canada) |
| <b>10:40</b> | <b>Implementing mindfulness interventions into pulmonary rehabilitation</b><br>Alice Malpass (Bristol, United Kingdom)             |

**Studio (White) Session 11:45 - 13:15****Year in review: Paediatric year in review**

**Aims :** to provide an update on four topics in paediatric respiratory medicine, namely, paediatric asthma in low-income settings, imaging in paediatric respiratory diseases, primary ciliary dyskinesia and long-term consequences of preterm birth; to highlight the most recent and significant literature and developments relating to these topics.

**Disease(s)** : Airway diseases Paediatric respiratory diseases Respiratory infections**Method(s)** : Epidemiology Imaging Public health**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Journalist**Chairs** : Monika Gappa (Düsseldorf, Germany), Susanne J. H. Vijverberg (Utrecht, Netherlands)**11:45 Asthma care in low-resource settings: towards solutions**  
Refiloe Masekela (Pretoria, South Africa)**12:00 Imaging in paediatric respiratory diseases: where are we now?**  
Pierluigi Ciet (Rotterdam, Netherlands)**12:15 Primary ciliary dyskinesia: diagnosis and management**  
Amelia Shoemark (Dundee (Angus), United Kingdom)**12:30 Preterm birth and long-term consequences**  
Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)**12:45 Discussion and Q&A****HQ2 Session 12:00 - 14:00****Patient: ELF Patient Advisory Committee meeting****Chairs** : Chair to be confirmed**Coral 3 (live-stream) Session 13:45 - 15:15****Symposium: Better outcomes for adults with chronic breathlessness: earlier diagnosis and management****Aims** : to review healthcare pathways for people living with chronic breathlessness, from their first presentation to palliation, highlighting the role of integrated care throughout; to critically appraise research and clinical care evaluations of integrated diagnostic pathways for chronic breathlessness to achieve earlier diagnosis and treatment; to discuss the role of artificial intelligence in diagnostic pathways for chronic breathlessness; to review the role of nonpharmacological management for chronic breathlessness including the multidisciplinary team and rehabilitation; to discuss specific causes of breathlessness, such as breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse, and their respective management for clinicians to appropriately diagnose and manage breathlessness; to describe complex interventions for distressing breathlessness including breathlessness support services.**Disease(s)** : Airway diseases Interstitial lung diseases Pulmonary vascular diseases**Method(s)** : General respiratory patient care Palliative care Pulmonary rehabilitation**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist, Journalist**Chairs** : Joana Cruz (Leiria, Portugal), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)**13:45 Earlier diagnosis to earlier treatment for people living with chronic breathlessness**  
Rachael A. Evans (Leicester (Leicestershire), United Kingdom)**14:00 Nonpharmacological management of chronic breathlessness including rehabilitation and the multidisciplinary team**  
William Man (Harefield, United Kingdom)**14:15 Special considerations in complex breathlessness: breathing pattern disorder, exercise-induced laryngeal obstruction and excessive dynamic airway collapse**  
Thomas Halvorsen (Bergen, Norway)**14:30 Integrated breathlessness support services: what are they and what should they include?**  
Daisy J.A. Janssen (Horn, Netherlands)**14:45 Discussion and Q&A****Coral 1 (live-stream) Session 13:45 - 15:15****Symposium: Acute respiratory distress syndrome: update and future treatment****Aims** : to describe the state of the art in acute respiratory distress syndrome (ARDS) and upcoming treatment options.

**Disease(s)** : Respiratory critical care Respiratory infections**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist**Chairs** : João Carlos Winck (Vila Nova de Gaia, Portugal), Marieke L. Duiverman (Groningen, Netherlands)**13:45 The new ARDS definition****14:00 The new European guideline in ARDS: nonpharmaceutical treatments**  
Christian Karagiannidis (Cologne, Germany)**14:15 The new European guideline in ARDS: pharmaceutical treatments and upcoming targets**  
Danny Mcauley (Belfast (Belfast), United Kingdom)**14:30 Weansafe: how do we wean from mechanical ventilation?**  
Leo Heunks (Amsterdam, Netherlands)**14:45 Discussion and Q&A****Coral 4+5 (live-stream) Session 13:45 - 15:15****Symposium: Novel concepts for understanding mechanisms of chronic obstructive pulmonary disease initiation and progression****Aims** : to present leading avenues of investigation that will enhance the participants' understanding of early COPD and its progression, relevant molecular disease endotypes and preventive as well as therapeutic strategies; to discuss current advances in our knowledge of COPD immune mechanisms; to discuss how the integration of cutting-edge technologies such as (spatial) single-cell RNA sequencing can help to find more efficient therapies; to discuss novel translational and (pre)clinical development for therapeutic strategies, as well as scientific advancements that may direct current and future therapeutic development; to explain the need for COPD classification and further biomarker discovery for patient 'endophenotyping'; to explain how changes in cell-cell interactions trigger molecular and pathological mechanisms responsible for disease onset and progression; to discuss how to use current advanced technologies to delineate novel targets for COPD drug discovery.**Disease(s)** : Airway diseases Interstitial lung diseases Respiratory critical care**Method(s)** : Cell and molecular biology Epidemiology Public health**Tag(s)** : Translational**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Patient, Scientist (basic, translational), Journalist**Chairs** : Ali Oender Yildirim (Neuherberg, Germany), Stylianos Loukides (Athens, Greece), Florence Schleich (Liège, Belgium)**13:45 Introduction**  
Ali Oender Yildirim (Neuherberg, Germany)**13:50 Novel immune mechanisms of COPD initiation and progression**  
Francesca Polverino (Houston, United States)**14:05 Approaches to lung regeneration**  
Mareike Lehmann (Marburg, Germany)**14:20 Metabolic alterations in COPD that direct new treatment strategies**  
Suzanne Cloonan (Dublin, Ireland)**14:35 Translating resilience and pathogenesis to personalised therapy for COPD**  
Irina Petrache (Denver, United States)**14:50 Discussion and Q&A****Purple (live-stream) Session 13:45 - 15:15****Symposium: Air pollution, pollen and lung health in the climate change era**

**Aims :** The overarching aims of this symposium session are to provide insight into the associations between air pollution and pollen exposures, and respiratory health, and to enable clinicians and researchers to tackle the increase in environment-induced diseases emerging with climate change.

Specifically, the session aims are: 1) To describe current knowledge about pollen and air pollution exposures and respiratory allergies and asthma; 2) To explain methodological pitfalls when investigating effects of pollens and other pollutants; 3) To expand knowledge on air pollution and respiratory health in children; 4) To summarize the role of sex and gender on respiratory immune response to emerging environmental inhalant threats.

The proposed symposium connects important priority areas of Assembly 6 (1. Determinants (including airborne pollutants) of lung health in non-smoking adults; 2. Air pollution, emission sources, desert dust storms and climate change: impact on lung health; 3. Towards chronic respiratory disease prevention through occupational and environmental exposure management) to those of other assemblies, such as Assembly 1 (an aging lung: respiratory disease in elderly), Assembly 3 (mechanisms responsible for progression of pulmonary diseases) and Assembly 7 (childhood onset lung disease into adulthood). Appeal and relevance to the broad range of ERS constituents has been carefully built into this proposal.

**Disease(s) :** Airway diseases Respiratory infections

**Method(s) :** Cell and molecular biology Epidemiology Public health

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy), Chair to be confirmed

**13:45 Pollen exposure, respiratory allergy and asthma: what do we know so far?**  
Adrian Lowe (Parkville, Australia)

**14:00 Short-term effects of exposure to pollens and other air pollutants: methodological insights for researchers and clinicians**  
Antonio Gasparini (London, United Kingdom)

**14:15 Air pollution and paediatric respiratory health: little particles and little lungs**  
Jonathan Grigg (London, United Kingdom)

**14:30 Sex as a modifier of effects of the environment and occupation on respiratory disease**  
Speaker to be confirmed

**14:45 Discussion and Q&A**

## Gold (live-stream) Session 13:45 - 15:15

### State of the art session: Pulmonary vascular diseases

#### Chronic thromboembolic pulmonary hypertension: treating local complications of systemic disease?

**Aims :** to place recent insights into the molecular pathogenesis of chronic thromboembolic pulmonary hypertension (CTEPH) into the context of the existing state of the art knowledge of CTEPH and its implementation in current clinical guidelines; to answer the question is whether and how these insights into pathophysiology will change future treatment of CTEPH and determine prognosis and outcomes for patients; to discuss novel targets for treatment and improvements in pharmacological therapy

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** Cell and molecular biology Imaging Surgery

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Pathologist, Scientist (basic, translational), Thoracic surgeon

**Chairs :** Olivier Sitbon (Le Kremlin-Bicêtre, France), Mona Lichtblau (Zürich, Switzerland), Judith Löffler-Ragg (Innsbruck, Austria)

**13:45 Novel molecular insight into the development of CTEPH**  
Jurjan Aman (Amsterdam, Netherlands)

**14:00 The natural history of CTEPH**  
Marion Delcroix (Leuven, Belgium)

**14:15 (Sub)segmental CTEPH should be treated by surgery**  
David Jenkins (Cambridge, United Kingdom)

**14:30 (Sub)segmental CTEPH should be treated by balloon angioplasty**  
Xavier Jais (Le Kremlin-Bicêtre, France)

**14:45 Discussion and Q&A**

**Amber 1+2** **Session** **14:30 - 16:50****Skills workshop: SW3 Pulmonary rehabilitation: extending practice to improve health outcomes**  
**A personalised medicine approach**

**Aims :** to describe diagnostic methods and interventions that enable phenotyping of individuals based on the clinical problems experienced and tailoring of the content of pulmonary rehabilitation programmes to deliver a personalised approach; to describe methods for assessing the physical activity level and promoting physical activity; to assess patients who may benefit from neuromuscular electrical stimulation and to explain how to apply and progress the treatment; to describe and evaluate the incorporation of mindfulness-based interventions into pulmonary rehabilitation and their outcomes.

**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Pulmonary vascular diseases**

**Method(s) :** General respiratory patient care Physiology Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Rainer Gloeckl (Schoenau am Koenigssee, Germany)

**14:30 Introduction**

**14:30 Physical activity assessment and intervention**  
Heleen Demeyer (Leuven, Belgium)

**14:30 Neuromuscular electrical stimulation: in who and how?**  
Lorna Latimer (Rugby (Warwickshire), United Kingdom)

**14:30 How to improve balance and reduce falls in people undergoing pulmonary rehabilitation**  
Samantha Harrison (Middlesbrough (Stockton-on-Tees), United Kingdom)

**14:30 Implementing mindfulness interventions into pulmonary rehabilitation**  
Ingeborg Farver-Vestergaard (Vejle, Denmark)

**Coral 4+5 (live-stream)** **Session** **15:30 - 17:00****Symposium: Novel aspects of T helper 17 cells in lung diseases**

**Aims :** to introduce respiratory fellows and clinical, basic and translational researchers to the emerging role of interleukin-17 and T helper 17 (Th17) cells in lung diseases.

**Disease(s) :** **Airway diseases** **Respiratory infections**

**Method(s) :** Cell and molecular biology

**Tag(s) :** Translational

**Target audience :** Clinical researcher, Medical Student, Scientist (basic, translational)

**Chairs :** Ali Oender Yildirim (Neuherberg, Germany), Stylianos Loukides (Athens, Greece), Florence Schleich (Liège, Belgium)

**15:30 The principal immunology of Th17 cells in the lungs**  
Jay Kolls (Pittsburgh, United States)

**15:45 Th17 cells in COVID-19**  
Speaker to be confirmed

**16:00 Th17-associated cytokines in obstructive airway diseases**  
Qutayba Hamid (Montréal (QC), Canada)

**16:15 Th17 cells in tuberculosis**  
Speaker to be confirmed

**16:30 Discussion and Q&A**

**Coral 3 (live-stream)** **Session** **15:30 - 17:00****Symposium: An ageing lung: respiratory disease in the elderly**

**Aims :** to explain the cellular, structural and functional changes that take place in the ageing lung; to evaluate the physiological and immunological changes in elderly patients with chronic obstructive pulmonary disease and interstitial lung disease compared with their healthy age-matched counterparts; to familiarise participants with the diagnostic approach as well as the available therapeutic interventions to combat the consequences of the ageing lung; to explain chronic respiratory diseases across the life course and their associations with frailty.

**Disease(s)** : Airway diseases Interstitial lung diseases**Method(s)** : Cell and molecular biology Physiology Pulmonary function testing**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist**Chairs** : Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)**15:30 Cellular changes in the aging lung**  
Speaker to be confirmed**15:45 Respiratory function in the ageing respiratory system**  
Georgios Kaltsakas (Athens, Greece)**16:00 Age-related diseases and chronic respiratory diseases**  
Lowie E.G.W. Vanfleteren (Gothenburg, Sweden)**16:15 Frailty transitions among patients with chronic respiratory diseases**  
Lies Lahousse (Ghent, Belgium)**16:30 Discussion and Q&A****Coral 1 (live-stream) Session 15:30 - 17:00****Symposium: Targeting treatable traits in severe chronic obstructive pulmonary disease: a nonpharmacological approach****Aims** : to explain the global burden and challenges of chronic obstructive pulmonary disease (COPD); to provide an update on 'treatable traits' for advanced COPD patients beyond 'regular care', covering advanced care planning, pulmonary rehabilitation, lung volume reduction and other innovative bronchoscopic modalities, chronic noninvasive ventilation and lung transplantation; to provide an update on the latest insights into new innovative treatment options for severe COPD patients; to advocate the use of a multidisciplinary team meeting for management of severe COPD patients.**Disease(s)** : Airway diseases Sleep and breathing disorders**Method(s)** : Endoscopy and interventional pulmonology Pulmonary rehabilitation Respiratory intensive care**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist**Chairs** : João Carlos Winck (Vila Nova de Gaia, Portugal), Marieke L. Duiverman (Groningen, Netherlands)**15:30 Home mechanical ventilation in stable and postacute COPD: when, how and why**  
Nicholas Hart (London, United Kingdom)**15:45 High-flow therapy in COPD: from acute care to home**  
Lara Pisani (Bologna (BO), Italy)**16:00 Innovative bronchoscopic treatment modalities for COPD**  
Konstantina Kontogianni (Heidelberg, Germany)**16:15 Pulmonary rehabilitation in severe and very severe COPD**  
Frits M.E. Franssen (Horn, Netherlands)**16:30 Discussion and Q&A****Purple (live-stream) Session 15:30 - 17:00****Symposium: Pollution, climate changes and sustainable developments****Aims** : to focus on our knowledge of pollution, climate changes and health effects and how to manage sustainable developments.**Disease(s)** : Airway diseases Paediatric respiratory diseases Thoracic oncology**Method(s)** : Epidemiology Public health**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Journalist



**Chairs :** Maria Rosaria Bonsignore (Palermo, Italy), Sergio Alfonso Harari (Milano (MI), Italy), Chair to be confirmed

**15:30** **Why fighting against air pollution and climate change is paramount for planetary health**  
Maria Neira (Geneva, Switzerland)

**15:45** **The striking scientific evidence of air pollution's health effects in children and adults**  
Zorana Andersen (Frederiksberg, Denmark)

**16:00** **Quantifying the morbidity of polluted air**  
Francesco Forastiere (Roma (RM), Italy)

**16:15** **The health benefits of green and blue: can we change the colours of the urban space?**

**16:30** **Discussion and Q&A**

## Gold (live-stream) Session 15:30 - 17:00

### Clinical cases: Lungs on fire: pulmonary vascular diseases?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Pulmonary vascular diseases

**Tag(s) :** Clinical

**Chairs :** Mona Lichtblau (Zürich, Switzerland), Olivier Sitbon (Le Kremlin-Bicêtre, France), Judith Löffler-Ragg (Innsbruck, Austria)

**Discussants :** Silvia Ulrich (Zurich, Switzerland), David Jiménez Castro (Madrid, Spain)

**15:30** **Case 1 incl. panel discussion and Q&A**  
Silvia Ulrich (Zurich, Switzerland)

**15:52** **Case 2 incl. panel discussion and Q&A**  
David Jiménez Castro (Madrid, Spain)

**16:14** **Case 3 incl. panel discussion and Q&A**  
Silvia Ulrich (Zurich, Switzerland)

**16:36** **Case 4 incl. panel discussion and Q&A**  
David Jiménez Castro (Madrid, Spain)

Amber 3+4

Session

08:00 - 10:20

**Skills workshop: SW7 Practicalities of spirometry and whole-body plethysmography**

**Aims :** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s) :** **Airway diseases** **Paediatric respiratory diseases**

**Method(s) :** Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

**08:00 Introduction**

**08:00 Performing spirometry**  
Aisling McGowan (Dublin 15, Ireland)

**08:00 Standardised static lung volume measurement using whole-body plethysmography**  
Frans H.C. De Jongh (Enschede, Netherlands)

**08:00 Measurement of airway resistance and resistance-volume loops using whole-body pethysmography**  
Mart N. van der Plas (Monster, Netherlands)

**08:00 Reporting and interpretation of case studies**  
Maximillian Thomas (, United Kingdom)

Amber 1+2

Session

08:00 - 10:20

**Skills workshop: SW4 Interpretation of cardiopulmonary exercise tests****Tips and pitfalls in cardiopulmonary exercise testing assessment**

**Aims :** to identify typical patterns of responses to cardiopulmonary exercise testing and demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

**Disease(s) :** **Airway diseases** **Interstitial lung diseases** **Pulmonary vascular diseases**

**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Pierantonio Laveneziana (Paris, France)

**08:00 Introduction**

**08:00 Relationship between oxygen uptake and work rate**  
Paolo Palange (Rome, Italy)

**08:00 Anaerobic/lactate threshold**  
William Stringer (Long Beach, United States)

**08:00 Ventilatory efficiency**  
J. Alberto Neder (Kingston (ON), Canada)

**08:00 Breathing pattern and dynamic hyperinflation**  
Michele Schaeffer (Leuven, Belgium)

**Silver (live-stream) Session 08:30 - 10:00****Symposium: Pulmonary hypertension and interstitial lung diseases: dilemmas in diagnosis and the conundrum of treatment**

Pulmonary hypertension (PH) is a known complication of chronic parenchymal lung diseases, including chronic obstructive lung disease, interstitial lung diseases, and more rare parenchymal lung diseases. Together, these diseases encompass two of the five clinical classifications of PH: group 3 (chronic lung disease [CLD] and/or hypoxia) and group 5 (unclear and/or multifactorial mechanisms). The principal management strategy in PH associated with CLD is optimization of the underlying LD

**Aims :** to provide the latest updates on pulmonary hypertension (PH) due to interstitial lung disease (ILD), including screening/diagnosis, treatment and future research directions. PH often complicates many forms of advanced lung disease, including pulmonary fibrosis; to discuss the main novel achievements (pathophysiology, diagnosis and management) in the field of PH when patients have CLDs; to strengthen understanding of PH due to lung diseases and to improve the care and quality of life of affected patients.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Cell and molecular biology Imaging Physiology

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Radiologist, Scientist (basic, translational)

**Chairs :** Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France), Thomas Koudstaal (Rotterdam, Netherlands)

**08:30 What do we know about the mechanisms of PH in ILD: translational research**  
Soni Savai Pullamsetti (Giessen, Germany)

**08:45 From screening to phenotypes in PH-ILDs: the impact of new guidelines**  
Lucilla Piccari (Barcelona, Spain)

**09:00 Pro: it is time to treat PH in ILD**  
Oksana Shlobin (Falls Church, United States)

**09:15 Con: it is not time to treat PH in ILD**  
Stephen Wort (London, United Kingdom)

**09:30 Discussion and Q&A**

**Coral 4+5 (live-stream) Session 08:30 - 10:00****State of the art session: Sleep and breathing disorders**  
**Sleep-disordered breathing and the heart. What is next?**

**Aims :** to discuss the latest data about sleep-disordered breathing in association with cardiovascular disease; to present and discuss new evidence in the field that will contribute to the management of sleep-disordered breathing.

**Disease(s) :** Sleep and breathing disorders

**Method(s) :** General respiratory patient care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Patient, Journalist

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

**08:30 Antihypertensive drugs vs. positive pressure. Which one is better to reduce hypertension?**  
Silke Ryan (Dublin, Ireland)

**08:45 Heart failure in sleep-disordered breathing: is positive airway pressure therapy meaningful?**  
Douglas Bradley (Toronto (ON), Canada)

**09:00 Is sleep-disordered breathing a risk factor or phenotype of cardiovascular disease?**  
Manuel Sanchez De La Torre (Lleida, Spain)

**09:15 New kids on the blocks: pharmacologic treatment of sleep-disordered breathing also for cardiovascular patients?**  
Elisa Perger (Milano, Italy)

**09:30 Discussion and Q&A**

**Coral 2 (live-stream) Session 08:30 - 10:00****Clinical cases: Clinical challenges beyond guidelines**

**Aims :** to describe the controversial aspects of the current guidelines for the environmental health prevention and air pollution standards, management of adult bronchiectasis, diagnosis and treatment of Langerhans cell histiocytosis in adults and treatment of stage I non-small cell lung cancer; to discuss data underpinning nonadherence and alternative approaches to current recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern; to highlight the need for further research.

**Disease(s) :** Airway diseases Respiratory infections Interstitial lung diseases Thoracic oncology

**Tag(s) :** Clinical

**Chairs :** Michael Loebinger (London, United Kingdom), Chair to be confirmed

- |       |  |
|-------|--|
| 08:30 | <b>Management of adult bronchiectasis, incl. panel discussion and Q&amp;A</b><br>Eva Van Braeckel (Ghent, Belgium)   |
| 08:52 | <b>Environmental health prevention &amp; standards on air pollution, incl. panel discussion and Q&amp;A</b><br>Isabella Annesi Maesano (Montpellier, France) |
| 09:14 | <b>Diagnosis and treatment of Langerhans cell histiocytosis in adults, incl. panel discussion and Q&amp;A</b><br>Sergio Alfonso Harari (Milano (MI), Italy)  |
| 09:36 | <b>Treatment of stage I non-small cell lung cancer, incl. panel discussion and Q&amp;A</b><br>Georgia Hardavella (Athens, Greece)                            |

**Purple (live-stream) Session 08:30 - 10:00****Mini symposium: Exercise training, physical activity and self-management at home**

**Aims :** to identify the core components, efficacy, strengths, limitations, evidence gaps and research necessary to guide the future delivery of home-based care and pulmonary rehabilitation; to describe patient and outcome assessment, exercise training, physical activity and self-management at home.

**Disease(s) :** Airway diseases Interstitial lung diseases Thoracic oncology

**Method(s) :** General respiratory patient care Pulmonary rehabilitation Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Joana Cruz (Leiria, Portugal), Christian Karagiannidis (Cologne, Germany), Daniel Langer (Leuven, Belgium)

- |       |   |
|-------|---|
| 08:30 | <b>Patient and outcome assessment for care and rehabilitation at home</b><br>Narelle Cox (Melbourne (VIC), Australia)   |
| 08:45 | <b>Exercise training and physical activity intervention at home</b><br>Marc Spielmanns (Wald, Switzerland)              |
| 09:00 | <b>Education, self-management and other components of home-based care and rehabilitation</b><br>Speaker to be confirmed |
| 09:15 | <b>Discussion and Q&amp;A</b>   |

**Coral 4+5 (live-stream) Session 10:15 - 11:45****Symposium: New insights into diagnostic aspects of sleep-disordered breathing**

**Aims :** to describe new insights from recent clinical trials and meta-analyses about the diagnosis of sleep-disordered breathing (SDB); to address different important aspects such as new diagnostic tools, including cardiovascular parameters and artificial intelligence, and their technical standards and clinical implications; to evaluate the pathophysiological traits of SDB from routine polysomnography or polygraphy signals and their role in the evaluation of SDB severity; to discuss the importance of new biomarkers and the diagnostic approach in patients with excessive daytime sleepiness.

**Disease(s) :** Respiratory critical care Sleep and breathing disorders

**Method(s) :** Epidemiology Physiology Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

- |       |  |
|-------|--|
| 10:15 | <b>New diagnostic tools for SDB: from technical standards to artificial intelligence and clinical implications</b><br>Renata L. Riha (Edinburgh (Edinburgh), United Kingdom) |
|-------|--|

**10:30 Biochemical biomarkers: do they have a role in the diagnosis of SDB?**  
Malcolm Kohler (Zürich, Switzerland)

**10:45 Pathophysiological traits: how to determine in routine polysomnography/polygraphy and translate into clinical decisions?**  
Winfried J. Randerath (Solingen, Germany)

**11:00 Diagnostic approach of excessive daytime sleepiness**

**11:15 Discussion and Q&A**

## Silver (live-stream) Session 10:15 - 11:45

### Symposium: Difficult treatment decisions in pulmonary hypertension

**Aims :** to discuss different treatment possibilities for pulmonary hypertension (PH) patients with right heart failure, including the use of catecholamines, the impact of mechanical ventilation and the use of extracorporeal membrane oxygenation; to describe the risks of pregnancy in patients with pulmonary arterial hypertension (PAH), including the risks in delivery and the postpartum period; to discuss different clinical approaches to pregnancy in PAH patients; to discuss the difficulties in treating elderly PAH patients with multiple comorbidities; to highlight care of end-stage PAH patients and options for palliative care.

**Disease(s) :** Pulmonary vascular diseases Respiratory critical care

**Method(s) :** Palliative care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Respiratory therapist

**Chairs :** Marc Humbert (Le Kremlin-Bicêtre, France), Katerina Antoniou (Heraklion, Greece), Thomas Koudstaal (Rotterdam, Netherlands)

**10:15 Managing PH patients with right heart failure in the intensive care unit**  
Laurent Savale (Le Kremlin-Bicêtre, France)

**10:30 Pregnancy and PAH**

**10:45 Idiopathic PAH patients with risk factors for heart and lung disease**  
Harm Jan Bogaard (Amsterdam, Netherlands)

**11:00 Palliative care in pulmonary hypertension**  
Wendy Gin-Sing (London, United Kingdom)

**11:15 Discussion and Q&A**

## Coral 2 (live-stream) Session 10:15 - 11:45

### Respiratory medicine meets other disciplines: Acute respiratory infections: what's new?

#### A jointERS/European Scientific Working Group on Influenza (ESWI) session

**Aims :** to provide an update about the latest data on the evolution, epidemiology, pathogenesis, prevention and treatment of influenza, COVID-19 and other respiratory virus infections; to discuss the disease pathogenesis with a focus on systemic and mucosal biomarkers; to discuss strategies to prevent infection by vaccination and management of viral infections.

**Disease(s) :** Respiratory critical care Respiratory infections

**Method(s) :** Epidemiology General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Nurse, Respiratory critical care physician, Scientist (basic, translational)

**Chairs :** Chair to be confirmed

**10:15 The pathogens: worldwide evolution and epidemiology of acute respiratory viruses**  
Collin Russell (Amsterdam, Netherlands)

**10:30 The host response: pathogenesis of disease focusing on systemic and mucosal biomarkers**  
Peter Openshaw (London, United Kingdom)

**10:45 Prevention: strategies to prevent infection by vaccination and other measures**  
Hanna Nohynek (Helsinki, Finland)

**11:00 Treatment: should we manage all viral infections like COVID? Proning, continuous positive airway pressure and steroids**  
Maxime Patout (Paris, France)

**11:15 Discussion and Q&A**

## Gold (live-stream) Session 10:15 - 11:45

### Clinical cases: Imaging of environment-induced changes in the lung Imaging in the era of air pollution

**Aims :** to explain which common respiratory disorders are related to air pollution and environmental changes, and to explain when imaging is necessary in these cases and the associated imaging findings.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** General respiratory patient care Imaging Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist

**Chairs :** Walter De Wever (Leuven, Belgium), Daiana Stolz (Basel, Switzerland)

**10:15 Hypersensitivity pneumonitis, incl. panel discussion and Q&A**  
Helmut Prosch (Wien, Austria)

**10:37 Asthma, rhinosinusitis and COPD, incl. panel discussion and Q&A**  
Anna Kerpel-Fronius (Budapest, Hungary)

**10:59 Environmental exposure: pneumoconosis, incl. panel discussion and Q&A**  
Johny Verschakelen (Leuven, Belgium)

**11:21 Respiratory infection in the era of a changed climate, incl. panel discussion and Q&A**  
Eva Polverino (Barcelona, Spain)

## Purple (live-stream) Session 10:15 - 11:45

### Mini symposium: Rise of the machines: advances in home mechanical ventilation

**Aims :** to describe the advances in home mechanical ventilation that are important for inpatient and outpatient treatment.

**Disease(s) :** Respiratory critical care Sleep and breathing disorders

**Method(s) :** General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Christian Karagiannidis (Cologne, Germany), Daniel Langer (Leuven, Belgium)

**10:15 Advances in physiology of chronic respiratory failure**  
Wolfram Windisch (Cologne, Germany)

**10:30 Do we need new modes of home mechanical ventilation in COPD?**  
Patrick B. Murphy (Oxted (Surrey), United Kingdom)

**10:45 The good, the bad and the ugly of home mechanical ventilation telemonitoring**  
Marieke L. Duiverman (Groningen, Netherlands)

**11:00 Discussion and Q&A**

## Amber 3+4 Session 10:40 - 13:00

### Skills workshop: SW8 Practicalities of spirometry and whole-body plethysmography

**Aims :** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s)** : Airway diseases Paediatric respiratory diseases**Method(s)** : Physiology Pulmonary function testing**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist**Chairs** : Frits M.E. Franssen (Horn, Netherlands)**10:40 Introduction****10:40 Performing spirometry**  
Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)**10:40 Standardised static lung volume measurement using whole-body plethysmography**  
Monique Wapenaar - De Korver (Vlaardingen, Netherlands)**10:40 Measurement of airway resistance and resistance-volume loops using whole-body plethysmography**  
Rachel Ong-Salvador (Amsterdam, Netherlands)**10:40 Reporting and interpretation of case studies**  
Gregory King (Sydney (NSW), Australia)**Amber 1+2 Session 10:40 - 13:00****Skills workshop: SW5 Interpretation of cardiopulmonary exercise tests****Tips and pitfalls in cardiopulmonary exercise testing assessment****Aims** : to identify typical patterns of responses to cardiopulmonary exercise testing and to demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.**Disease(s)** : Airway diseases Interstitial lung diseases Pulmonary vascular diseases**Method(s)** : Physiology Pulmonary function testing Pulmonary rehabilitation**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist**Chairs** : William Stringer (Long Beach, United States)**10:40 Introduction****10:40 Relationship between oxygen uptake and work rate**  
Paolo Onorati (Alghero (SS), Italy)**10:40 Anaerobic/lactate threshold**  
Luis Puente Maestu (Madrid, Spain)**10:40 Ventilatory efficiency**  
Speaker to be confirmed**10:40 Breathing pattern and dynamic hyperinflation**  
Pierantonio Laveneziana (Paris, France)**Studio (White) Session 11:45 - 13:15****Year in review: Clinical year in review****Management of respiratory diseases****Aims** : to provide an overview of the most relevant advances in diagnosis and treatment of chronic obstructive pulmonary disease (COPD), obstructive sleep apnoea, interstitial lung disease (ILD), idiopathic pulmonary fibrosis, cystic fibrosis (CF) and COVID-19; to discuss recent findings indicating potential novel pathways that support COPD subphenotypes and evidence for potential new drugs and therapeutic approaches to treat COPD; to describe evidence about the prognosis of different sleep indices alongside different patient cluster responses to continuous positive airway pressure therapy in terms of major cardiovascular events in patients with obstructive sleep apnoea; to examine major developments in diagnostic imaging methods and techniques (including computed tomography, magnetic resonance imaging and ultrasound) for lung function assessment in patients with COPD, ILD, CF and COVID-19; to discuss recent evidence of the effectiveness of alternative pulmonary rehabilitation models for patients with chronic respiratory diseases.

**Disease(s)** : Airway diseases Interstitial lung diseases Sleep and breathing disorders**Method(s)** : Cell and molecular biology Imaging Physiology**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist**Chairs** : Ioannis Vogiatzis (Blyth, United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)**11:45 Novel therapeutic approaches for COPD**  
Florence Schleich (Liège, Belgium)**12:00 Advances in sleep breathing disorders**  
Sophia E. Schiza (Heraklion, Greece)**12:15 Developments in diagnostic imaging**  
Andrea Aliverti (Milan, Italy)**12:30 Alternative models of pulmonary rehabilitation**  
Thierry Troosters (Leuven, Belgium)**12:45 Discussion and Q&A****Purple (live-stream) Session 13:45 - 15:15****Symposium: Kidney-lung crosstalk in pulmonary disease****Aims** : to describe the pulmonary-renal link in physiology and pathological conditions. To discuss the interorgan crosstalk, which is emerging as a key underlying pathophysiologic mechanism in both systemic (sepsis and critical illness) and organ-specific (chronic obstructive pulmonary disease (COPD) and interstitial lung disease) illnesses; to emphasize the interaction between the kidneys and lungs in pathological conditions that has been recently identified; to explain the clinical and therapeutic consequences of the crosstalk between the kidneys and lungs.**Disease(s)** : Airway diseases Interstitial lung diseases Respiratory critical care**Method(s)** : Cell and molecular biology Physiology**Tag(s)** : Translational**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Scientist (basic, translational)**Chairs** : Silke Meiners (Sülfeld, Germany), Salman Siddiqui (London, United Kingdom)**13:45 The importance of lung-kidney crosstalk in homeostasis and disease**  
Wolfgang M. Kübler (Berlin, Germany)**14:00 Cellular and molecular mechanisms of kidney-lung crosstalk in acute lung injury**  
John Laffey (Galway, Ireland)**14:15 The endothelial cell in lung-kidney interactions in COPD**  
Francesca Polverino (Houston, United States)**14:30 The kidney and interstitial lung disease**  
Gabriela Riemekasten (Lübeck, Germany)**14:45 Discussion and Q&A****Coral 3 (live-stream) Session 13:45 - 15:15****State of the art session: Thoracic oncology****Aims** : to present four selected hot topics that are currently in the scientific spotlight of thoracic oncology care; –to explain how pulmonologists can within their expertise treat and guide patients throughout the entire continuum of thoracic malignancies in close collaboration with other relevant disciplines and professions.**Disease(s)** : Thoracic oncology**Method(s)** : Cell and molecular biology Endoscopy and interventional pulmonology Imaging**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist



**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece), Joanna Chorostowska-Wynimko (Warsaw, Poland)

- |       |   |
|-------|---|
| 13:45 | <b>New insights into tumour biology: digital pathology in lung cancer diagnostics</b>   |
| 14:00 | <b>It is not always malignant: a revisited systematic approach to diagnose the solitary pulmonary nodule</b><br>Torsten Gerriet Blum (Berlin, Germany)                      |
| 14:15 | <b>Determining suspicious pleural findings: update on differential diagnostic strategies for pleural thickening and plaques</b><br>Najib M. Rahman (Oxford, United Kingdom) |
| 14:30 | <b>Modern physiotherapy as an essential component of lung cancer and pleural mesothelioma care</b>  |
| 14:45 | <b>Discussion and Q&amp;A</b>   |

## Gold (live-stream) Session 13:45 - 15:15

### State of the art session: Respiratory infections

#### Management of respiratory infections: the future and the present

**Aims :** to provide an overview of the most interesting advances in the field of respiratory infections from a translational perspective; to cover different topics from the role of mucosal immunity in determining the clinical outcomes to the more advance research in term of prevention and treatment of respiratory infections.

**Disease(s) :** Respiratory infections

**Tag(s) :** Clinical

**Target audience :** Clinical researcher, Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Alberto Garcia-Basteiro (Maputo, Mozambique)

- |       |  |
|-------|--|
| 13:45 | <b>The role of mucosal immunity of the lung in respiratory infections</b><br>Paul G. Thomas (Memphis, United States)   |
| 14:00 | <b>The role of microbiome in chronic respiratory diseases: contribution to stability and to exacerbations</b><br>Sanjay Haresh Chotirmall (Singapore, Singapore) |
| 14:15 | <b>Non-antibiotic strategies to fight respiratory infections</b><br>Speaker to be confirmed  |
| 14:30 | <b>Update on vaccination to preventable respiratory infections</b><br>Tobias Welte (Hannover, Germany)   |
| 14:45 | <b>Discussion and Q&amp;A</b>  |

## Amber 3+4 Session 14:30 - 16:50

### Skills workshop: SW9 Practicalities of spirometry and whole-body plethysmography

**Aims :** to help attendees gain the technical expertise needed to perform spirometry and whole-body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to explain the measurements of spirometry, static lung volumes, airway resistance and resistance-volume loops via whole-body plethysmography; to discuss the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s) :** Airway diseases Paediatric respiratory diseases

**Method(s) :** Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist

**Chairs :** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

- |       |  |
|-------|--|
| 14:30 | <b>Introduction</b>  |
| 14:30 | <b>Performing spirometry</b><br>Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)  |
| 14:30 | <b>Standardised static lung volume measurement using whole-body plethysmography</b><br>Frans H.C. De Jongh (Enschede, Netherlands) |

**14:30 Measurement of airway resistance and resistance-volume loops using whole-body plethysmography**  
Mart N. van der Plas (Monster, Netherlands)

**14:30 Reporting and interpretation of case studies**  
Gregory King (Sydney (NSW), Australia)

## Amber 1+2 Session 14:30 - 16:50

### Skills workshop: SW6 Interpretation of cardiopulmonary exercise tests Tips and pitfalls in cardiopulmonary exercise testing assessment

**Aims :** to identify typical patterns of responses to cardiopulmonary exercise testing and to demonstrate how to discriminate these from anomalous response profiles, which can cause misinterpretation of test results.

**Disease(s) :** Airway diseases Interstitial lung diseases Pulmonary vascular diseases

**Method(s) :** Physiology Pulmonary function testing Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Pierantonio Laveneziana (Paris, France)

**14:30 Introduction**

**14:30 Relationship between oxygen uptake and work rate**  
Paolo Palange (Rome, Italy)

**14:30 Anaerobic/lactate threshold**  
William Stringer (Long Beach, United States)

**14:30 Ventilatory efficiency**  
J. Alberto Neder (Kingston (ON), Canada)

**14:30 Breathing pattern and dynamic hyperinflation**  
Michele Schaeffer (Leuven, Belgium)

## Coral 3 (live-stream) Session 15:30 - 17:00

### Clinical cases: Lungs on fire: lung cancer?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Thoracic oncology

**Tag(s) :** Clinical

**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece), Joanna Chorostowska-Wynimko (Warsaw, Poland)

**Discussants :** Georgia Hardavella (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany)

**15:30 Case 1 incl. panel discussion and Q&A**  
Georgia Hardavella (Athens, Greece)

**15:52 Case 2 incl. panel discussion and Q&A**  
Torsten Gerriet Blum (Berlin, Germany)

**16:14 Case 3 incl. panel discussion and Q&A**  
Georgia Hardavella (Athens, Greece)

**16:36 Case 4 incl. panel discussion and Q&A**  
Torsten Gerriet Blum (Berlin, Germany)

## Gold (live-stream) Session 15:30 - 17:00

### Clinical cases: Lungs on fire: respiratory infections?

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Respiratory infections

**Tag(s) :** Clinical

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal)

**Discussants :** Daiana Stolz (Basel, Switzerland), James D. Chalmers (Dundee (Angus), United Kingdom)

- |       |  |
|-------|--|
| 15:30 | <b>Case 1 incl. panel discussion and Q&amp;A</b><br>Daiana Stolz (Basel, Switzerland)                  |
| 15:52 | <b>Case 2 incl. panel discussion and Q&amp;A</b><br>James D. Chalmers (Dundee (Angus), United Kingdom) |
| 16:14 | <b>Case 3 incl. panel discussion and Q&amp;A</b><br>Daiana Stolz (Basel, Switzerland)                  |
| 16:36 | <b>Case 4 incl. panel discussion and Q&amp;A</b><br>James D. Chalmers (Dundee (Angus), United Kingdom) |

Red 1+2

Session

15:45 - 17:00

### Symposium: Early career member session

**Aims :** to bring together all types of respiratory professionals in order to discuss key aspects for career development in respiratory medicine

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs :** Sara Cuevas Ocaña (Nottingham, United Kingdom), Thomas Gille (Bobigny, France)

- |       |  |
|-------|--|
| 15:45 | <b>Environmental awareness in respiratory medicine: a clinical and scientific view</b><br>Lucilla Piccari (Barcelona, Spain)               |
| 16:00 | <b>Communicate your research: reaching the media, the public and how to use social media</b><br>Leticia Kawano-Dourado (Sao Paulo, Brazil) |
| 16:15 | <b>How ERS activities can help to shape your career</b><br>Niki Ubags (Epalinges, Switzerland)   |
| 16:30 | <b>Mina Gaga Lecture</b>   |
| 16:45 | <b>Discussion and Q&amp;A</b>  |

**Amber 1+2** Session **08:00 - 10:20****Skills workshop: SW10 Clinical-radiological-pathological correlation in pulmonary hypertension**

**Aims :** to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Radiologist

**Chairs :** Robin Condliffe (Sheffield (South Yorkshire), United Kingdom), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

**08:00 Introduction**

**08:00 Radiological assessment of pulmonary hypertension**  
Deepa Gopalan (LONDON, United Kingdom)

**08:00 Pathological assessment of pulmonary hypertension**  
Peter Dorfmueller (Le Plessis-Robinson, France)

**08:00 Echocardiography in pulmonary hypertension**  
Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)

**08:00 Clinical assessment of pulmonary hypertension**  
Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)

**Amber 3+4** Session **08:00 - 10:40****Skills workshop: SW13 Thoracic ultrasound basic principles**

**Aims :** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Method(s) :** Imaging General respiratory patient care

**Tag(s) :** Clinical

**Target audience :** Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs :** Christian B. Laursen (Odense, Denmark)

**08:00 Introduction**  
Christian B. Laursen (Odense, Denmark)

**08:20 Normal Thoracic Cavity**  
Helen McDill (Bristol (Avon), United Kingdom)

**08:20 Pleural effusion and/or pleural thickening**  
Gilles Mangiapan (Creteil, France), Speaker to be confirmed

**08:20 Case studies**  
Speaker to be confirmed

**08:20 Guided interventions**  
Søren Helbo Skaarup (Aarhus C, Denmark), Rahul Bhatnagar (Bristol, United Kingdom)

**Coral 4+5 (live-stream)** Session **08:30 - 10:00****Symposium: Pulmonary embolism and its implication with other clinical respiratory settings and specialties**

**Aims :** to provide an update on the management of PE in pregnancy; to describe the distinctive features of patients with lung cancer-associated thrombosis (CAT); to highlight the relationship between PE and obstructive sleep apnoea (OSA); and to provide an update about the role of residual pulmonary vascular obstruction (RPVO) in the assessment of the risk of venous thromboembolism (VTE) recurrences, as for patients' evolution with the newly suggested chronic thromboembolic pulmonary disease (CTEPD) syndrome; to provide an update about correct diagnosis and treatment in this population, which is crucial for all pulmonologists, who may be involved in many different steps (ruling out the diagnosis, managing some difficult cases, proposing secondary thromboprophylaxis, etc.). to provide an update about management, outcomes and phenotypes of patients with lung CAT; to present information about the relationship between OSA and PE that suggest a possible connection between OSA and abnormal haemostasias; to review current evidence about the association between OSA and PE, as well as PE prognosis in patients with OSA; to discuss the key role of respiratory physicians in the follow-up of patients with PE.

**Disease(s) :** Pulmonary vascular diseases Sleep and breathing disorders Thoracic oncology

**Method(s) :** General respiratory patient care Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs :** Yochai Adir (Haifa, Israel), Pilar Escribano- Subias (Madrid, Spain), Marc Humbert (Le Kremlin-Bicêtre, France)

08:30	<b>Management of pulmonary embolism in pregnancy</b> Speaker to be confirmed
08:45	<b>Distinctive feature of lung cancer-associated thrombosis</b> Luis Jara-Palomares (Sevilla, Spain)
09:00	<b>Obstructive sleep apnoea and pulmonary embolism: what do we know and what do we need to know?</b>
09:15	<b>Role of residual pulmonary vascular obstruction in VTE recurrences and CTEPH</b> Olivier Sanchez (Paris, France)
09:30	<b>Discussion and Q&amp;A</b>

## Coral 1 (live-stream) Session 08:30 - 10:00

### Symposium: Prevention of tuberculosis

**Aims :** to present the latest evidence on the use of immunodiagnostic methods (interferon-gamma release assays (IGRAs) and tuberculin skin test) and preventive therapies for best clinical practice to prevent tuberculosis in adults.

**Disease(s) :** Paediatric respiratory diseases Respiratory critical care Respiratory infections

**Method(s) :** Epidemiology General respiratory patient care Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Radiologist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Giovanni Sotgiu (Sassari, Italy), Onno Akkerman (Groningen, Netherlands), Delia Goletti (Roma (RM), Italy)

08:30	<b>How we prevent transmission once the case has been identified</b> Cécile Magis-Escurra (Nijmegen, Netherlands)
08:45	<b>IGRAs or tuberculosis skin test? How do they compare for identification of individuals at risk of developing tuberculosis?</b> Speaker to be confirmed
09:00	<b>Effectiveness of tuberculosis preventive therapy by age and Mycobacterium tuberculosis infection status</b> Speaker to be confirmed
09:15	<b>The global roadmap for a new tuberculosis vaccine</b>
09:30	<b>Discussion and Q&amp;A</b>

## Silver (live-stream) Session 08:30 - 10:00

### State of the art session: Paediatric state of the art

**Aims :** to discuss important topics in paediatric respiratory medicine such as: 1) treatment options for severe paediatric asthma, 2) an insight into neutrophilic inflammation following preterm birth and other relevant lung diseases, 3) management of persistent obstructive sleep apnoea (OSA) in children and 4) high-flow nasal cannula therapy in paediatric respiratory insufficiency;

**Disease(s) :** Paediatric respiratory diseases Respiratory infections Sleep and breathing disorders

**Method(s) :** General respiratory patient care Pulmonary function testing Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Respiratory therapist

**Chairs :** Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

**08:30 Therapeutic strategies in paediatric severe asthma**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

**08:45 Neutrophilic inflammation throughout the ages**  
Rory Morty (Heidelberg, Germany)

**09:00 Management of persistent OSA in children**  
An Boudeuwyns (Edegem (Antwerp), Belgium)

**09:15 High-flow nasal cannula (HFNC) therapy for bronchiolitis and in continuous treatment for respiratory insufficiency**  
Padmanabhan Ramnarayan (London, United Kingdom)

**09:30 Discussion and Q&A**

## Purple (live-stream) Session 08:30 - 10:00

### Mini symposium: Complex pleural disease: management in the critically ill patient

**Aims :** to present most common problems that surgeons, chest physicians, intensivists and even radiologists can face for diagnosis and treatment in the critically ill patients; to emphasize the need of multidisciplinary approach to these patients; to clarify diagnosis and treatment of patients with pneumothorax and patients on mechanical ventilation, patients with pulmonary disease listed for lung transplantation and pneumothorax after a bronchoscopic procedure, surgical procedure or talc pleurodesis (to distinguish 'true' pneumothorax from the residual air space); to distinguish free empyema and complex empyema and try to create a protocol for critically ill patients (intrapleural fibrinolytic therapy, dornase alfa, additional drainage tubes, medical thoracoscopy and surgical procedures); to discuss chylothorax after surgical procedures, spontaneous chylothorax, conservative treatments, surgical options and bronchopleural fistulas (fistulas after lung transplantation, fistulas after cancer surgery, conservative treatments, bronchoscopic treatments and surgical options).

**Disease(s) :** Respiratory critical care Respiratory infections Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology General respiratory patient care Surgery

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

**Chairs :** Katerina Antoniou (Heraklion, Greece), Chair to be confirmed

**08:30 Pneumothorax in critically ill patients**  
Speaker to be confirmed

**08:45 Complex empyema in critically ill patients**  
David Sanchez (Barcelona, Spain)

**09:00 Chylothorax and bronchopleural fistulas**  
Mario Nosotti (Milano (MI), Italy)

**09:15 Discussion and Q&A**

## Coral 2 (live-stream) Session 10:15 - 11:45

### Symposium: Occupational and environmental determinants of common respiratory diseases From Epidemiology to the Clinic and Back

**Aims :** to present updates and interesting and challenging cases underscoring the important (and often missed) role that occupational and environmental exposures play in the aetiology, diagnosis, treatment and prevention of common and well-known chronic respiratory diseases. to highlight the influence of early life determinants and diet on the risk of chronic obstructive pulmonary disease (COPD), the added value of association studies based on the exposome concept and the impact of diet in adulthood for prevention of asthma and COPD and improvement of lung health.

**Disease(s)** : Airway diseases Interstitial lung diseases**Method(s)** : Epidemiology General respiratory patient care Public health**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training**Chairs** : Rafael E. de la Hoz (New York, United States)**10:15** Updates on occupational COPD: towards an expanded view of causation for better prevention  
Sara De Matteis (Cagliari, Italy)**10:30** Diet: an underappreciated but promising approach to COPD prevention  
Raphaëlle Varraso (Villejuif, France)**10:45** Impact of work-related risks on diagnostics and treatment of asthma  
Irmeli Lindström (Helsinki, Finland)**11:00** Hypersensitivity pneumonitis: multiple exposures and one disease  
Martina Koziar Vasakova (Praha 10, Czech Republic)**11:15** Discussion and Q&A**Coral 1 (live-stream) Session 10:15 - 11:45****Symposium: UNITE4TB: tuberculosis renewed**  
European Union project**Aims** : to explain how to use and discuss the methods used to diagnose tuberculosis (TB) and identify resistance; to describe the different drugs and regimens being studied for TB treatment; to explain the advances and challenges in the development of biomarkers; to explain the importance of treatment adherence and the different interventions in use.**Disease(s)** : Respiratory infections**Method(s)** : Respiratory intensive care**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Scientist (basic, translational), Journalist**Chairs** : Giovanni Sotgiu (Sassari, Italy), Onno Akkerman (Groningen, Netherlands), Delia Goletti (Roma (RM), Italy)**10:15** New developments in tuberculosis diagnosis  
Daniela Maria Cirillo (Milano (MI), Italy)**10:30** Tuberculosis treatment monitoring and outcome measures  
Speaker to be confirmed**10:45** New drugs, new regimens and new ways to design clinical trials  
Christoph Lange (Borstel, Germany)**11:00** Interventions to enhance treatment adherence  
Raquel Duarte (Porto, Portugal)**11:15** Discussion and Q&A**Coral 4+5 (live-stream) Session 10:15 - 11:45****Respiratory medicine meets other disciplines: Pulmonary hypertension related to heart and lung disease****Aims** : to define the different physiological and clinical characteristics of pulmonary hypertension (PH) associated with different forms of heart or lung diseases; to explain the up-to-date treatment approach for PH associated with heart or lung disease; to explain the different physiological responses of the right ventricle in different types of PH and its impact on the correct treatment and its efficacy; to describe the up-to-date treatment of PH associated with heart failure, with an emphasis on HFpEF-PH.**Disease(s)** : Airway diseases Interstitial lung diseases Pulmonary vascular diseases**Tag(s)** : Clinical**Target audience** : Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training**Chairs** : Yochai Adir (Haifa, Israel), Pilar Escribano-Subias (Madrid, Spain), Marc Humbert (Le Kremlin-Bicêtre, France)

- 10:15**    **The spectrum of PH in lung diseases**  
Isabel Blanco Vich (Barcelona, Spain)
- 
- 10:30**    **Genetic pulmonary vascular disorders as a cause of pulmonary hypertension in adults**  
David Montani (Le Kremlin-Bicêtre, France)
- 
- 10:45**    **Right ventricle adaptation in different types of PH**  
Frances S. de Man (Amsterdam, Netherlands)
- 
- 11:00**    **Any progress in the management of PH in heart failure?**  
Jean-Luc Vachiery (Bruxelles, Belgium)
- 
- 11:15**    **Discussion and Q&A**

## Silver (live-stream) Session 10:15 - 11:45

### Clinical cases: Lungs on fire: paediatric respiratory diseases

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Paediatric respiratory diseases

**Tag(s) :** Clinical

**Chairs :** Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

**Discussants :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), David Drummond (Paris, France)

- 10:15**    **Case 1 incl. panel discussion and Q&A**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)
- 
- 10:37**    **Case 2 incl. panel discussion and Q&A**  
David Drummond (Paris, France)
- 
- 10:59**    **Case 3 incl. panel discussion and Q&A**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)
- 
- 11:21**    **Case 4 incl. panel discussion and Q&A**  
David Drummond (Paris, France)

## Purple (live-stream) Session 10:15 - 11:45

### Mini symposium: Symptom burden in interstitial lung disease

**Aims :** to provide the audience with updates on the pathogenesis, epidemiology and pharmacological and nonpharmacological management of dyspnoea, cough and fatigue in ILD; to learn about the impact of these symptoms on general and emotional well-being and daily activities of the patient; to provide an overview of the most common and burdensome symptoms in patients with ILD; to provide the most recent scientific evidence with regards to the pathophysiology and management of dyspnoea, cough and fatigue, and their impact on patients.

**Disease(s) :** Interstitial lung diseases

**Method(s) :** General respiratory patient care   Palliative care   Pulmonary rehabilitation

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** Katerina Antoniou (Heraklion, Greece), Chair to be confirmed

- 10:15**    **Management of dyspnea in ILD**  
Yet Hong Khor (Melbourne (VIC), Australia)
- 
- 10:30**    **Pathophysiology and treatment of cough in ILD**  
Zhe Wu (London, United Kingdom)
- 
- 10:45**    **Fatigue in ILD: a major problem for patients and physicians**  
Karen Moor (Rotterdam, Netherlands)
- 
- 11:00**    **Discussion and Q&A**



## Amber 1+2

## Session

10:40 - 13:00

## Skills workshop: SW11 Clinical-radiological-pathological correlation in pulmonary hypertension

**Aims :** to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.

**Disease(s) :** Pulmonary vascular diseases

**Method(s) :** Imaging

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Radiologist

**Chairs :** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)

10:40 **Introduction**

10:40 **Radiological assessment of pulmonary hypertension**  
Deepa Gopalan (LONDON, United Kingdom)

10:40 **Pathological assessment of pulmonary hypertension**  
Teodora Radonic (Amsterdam, Netherlands)

10:40 **Echocardiography in pulmonary hypertension**  
Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)

10:40 **Clinical assessment of pulmonary hypertension**  
Anton Vonk Noordegraaf (Amsterdam, Netherlands)

## Amber 3+4

## Session

11:10 - 14:00

## Skills workshop: SW14 Thoracic ultrasound basic principles

**Aims :** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** John Wrightson (Oxford, United Kingdom)

11:10 **Introduction**  
John Wrightson (Oxford, United Kingdom)

11:40 **Normal Thoracic Cavity**  
Morten Bendixen (Skejby, Denmark), Silvia Mongodi (Pavia, Italy)

11:40 **Pleural effusion and/or pleural thickening**  
Giovanni Volpicelli (Torino (TO), Italy), Speaker to be confirmed

11:40 **Case studies**  
Radhika Banka (Mumbai (Maharashtra), India)

11:40 **Guided interventions**  
Gilles Mangiapan (Creteil, France), Speaker to be confirmed

## Studio (White)

## Session

11:45 - 13:15

## Year in review: Scientific year in review

**Aims :** to provide an overview of basic and translational scientific highlights and major achievements in the respiratory field within the past year, focusing on abnormal lung tissue damage and repair; to provide an overview of various key publications that are expected to have a major impact on the respiratory field and with high clinical relevance based on promising results in preclinical models; to cover a variety of pulmonary diseases; to discuss the potential of novel therapeutic strategies to be translated into the clinic.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Paediatrician, Pathologist, Scientist (basic, translational)

**Chairs :** Sara Cuevas Ocaña (Nottingham, United Kingdom), H. Irene Heijink (Groningen, Netherlands)

- 11:45** **Chronic obstructive pulmonary disease pathogenesis: understanding the contributions of gene-environment interactions across the lifespan in abnormal lung tissue damage and repair**  
Rosa Faner Canet (Barcelona, Spain)
- 
- 12:00** **Novel insights into the defective alveolar niche in chronic lung disease**  
Speaker to be confirmed
- 
- 12:15** **Novel proregenerative and antiageing targets for the treatment of fibrotic lung disease**  
Melanie Konigshoff (Pittsburgh, United States)
- 
- 12:30** **Tissue barrier dysfunction as a therapeutic target in pathogen-associated respiratory failure**  
Wolfgang M. Kübler (Berlin, Germany)
- 
- 12:45** **Discussion and Q&A**

## Silver (live-stream) Session 13:45 - 15:15

### Symposium: The 'silent zone' is heard: latest insights and updates in small airways disease in asthma and chronic obstructive pulmonary disease

**Aims :** to provide an update on recent research into the increasing importance of small airways diseases in patients with asthma and chronic obstructive pulmonary disease (COPD); to describe new developments in the assessment of small airways diseases using physiological methods; to provide an update on evidence for the clinical impact of small airways diseases on patient-related outcomes; to highlight recent data regarding treatment targeted at small airways diseases and how this relates to clinical outcomes.

**Disease(s) :** Airway diseases

**Method(s) :** General respiratory patient care Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Journalist

**Chairs :** James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancıoğlu (Konak, Turkey)

- 13:45** **Small airways and early origins of airway disease: pathobiological considerations**  
Francesca Polverino (Houston, United States)
- 
- 14:00** **Advances in physiological assessments of small airways diseases in asthma and COPD for everyday clinical practice**  
Chung-Wai Chow (Toronto (ON), Canada)
- 
- 14:15** **Evidence for the clinical impact of small airways diseases on patient-related outcomes in patients with asthma and COPD**  
Monica Kraft (New York, United States)
- 
- 14:30** **Targeting and treating small airways disease in patients with asthma and COPD**  
Omar S. Usmani (London, United Kingdom)
- 
- 14:45** **Discussion and Q&A**

## Coral 1 (live-stream) Session 13:45 - 15:15

### Symposium: Lung cancer screening: turning up the heat and moving onwards

**Aims :** to focus on the best practices and latest developments in lung cancer screening; to address topics relevant to an international audience by reviewing current data to highlight success and help remove barriers to increased adoption of efficient lung cancer screening programmes; to facilitate meaningful interaction between clinicians and researchers involved in different aspects of early detection (imaging, biomarkers, quality assurance, research, etc.) and relevant research.

**Disease(s) :** Thoracic oncology

**Method(s) :** Endoscopy and interventional pulmonology Imaging Public health

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece)

- 13:45** **Biomarkers in lung cancer screening: can they impact clinical management plans?**  
Speaker to be confirmed

- 14:00 Lung cancer detection by the electronic nose**  
Wouter H. van Geffen (Leeuwarden, Netherlands)
- 
- 14:15 Emerging bronchoscopic options for early detection of lung cancer**  
Pallav L. Shah (London, United Kingdom)
- 
- 14:30 Lung cancer screening in Europe: a first snapshot by SOLACE**  
Marie-Pierre Revel (Paris, France)
- 
- 14:45 Discussion and Q&A**

**Coral 2 (live-stream) Session 13:45 - 15:15**

**State of the art session: Respiratory critical care**

**Noninvasive and invasive mechanical ventilation in acute respiratory diseases**

**Aims :** to provide a state of the art overview of mechanical ventilation in acute respiratory failure, i.e., acute respiratory distress syndrome (ARDS), acute exacerbation of chronic obstructive pulmonary disease and beyond.

**Disease(s) :** Respiratory critical care

**Method(s) :** General respiratory patient care Respiratory intensive care

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Claudia Crimi (Catania (CT), Italy), Christoph Fisser (Regensburg, Germany)

- 13:45 Molecular mechanisms of ventilator induced lung injury**  
Martin Witzernath (Berlin, Germany)
- 
- 14:00 Evidence-based invasive mechanical ventilation in ARDS**  
Lise Piquilloud (Lausanne, Switzerland)
- 
- 14:15 Extracorporeal membrane oxygenation in ARDS: state of the art**  
Christian Karagiannidis (Cologne, Germany)
- 
- 14:30 Weaning from mechanical ventilation**  
Leo Heunks (Amsterdam, Netherlands)
- 
- 14:45 Discussion and Q&A**

**Gold (live-stream) Session 13:45 - 15:15**

**State of the art session: Interstitial lung diseases**

**Filling the gaps in care for interstitial lung diseases**

**Aims :** 1) the primary care setting, exploring symptom evaluation in ILDs; 2) the novel assessment of idiopathic pulmonary fibrosis (IPF) management in light of different phase 3 clinical trials of this disease; 3) hypersensitivity pneumonitis (HP) and recent guidelines from different societies, such as novel therapeutic advances after the introduction of antifibrotic therapy in progressive HP; 4) the lungs with the common disease (also in the primary care setting) rheumatoid arthritis, focusing on the ILD component, and, more specifically, address whether its pathogenesis starts from the lungs.

**Disease(s) :** Interstitial lung diseases

**Method(s) :** General respiratory patient care Physiology Pulmonary function testing

**Tag(s) :** Clinical

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational), Respiratory therapist

**Chairs :** Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Antoine Froidure (Bruxelles, Belgium)

- 13:45 Symptom management in ILD**  
Kerri Ilene Aronson (New York, United States)
- 
- 14:00 Precision medicine in IPF**  
Athol Wells (London, United Kingdom)
- 
- 14:15 New developments in HP diagnosis and therapeutic management**  
Martina Koziar Vasakova (Praha 10, Czech Republic)

**14:30 Rheumatoid arthritis and the lungs: new concepts and treatments**  
Katerina Antoniou (Heraklion, Greece)

**14:45 Discussion and Q&A**

**Purple (live-stream) Session 13:45 - 15:15**

**Mini symposium: Genetics in paediatric respiratory diseases**  
**Genetic heterogeneity underlies phenotype and therapeutic approaches**

**Aims :** to present the main process and challenges of genetic data interpretation; to list the main genetic diagnostic tools and their limitations; to provide the audience with key tips to read a genetic report. to discuss importance of genotyping for three model monogenic diseases that can affect newborns or occur later in life (cystic fibrosis, surfactant disorders and primary ciliary dyskinesia): to illustrate the phenotype-genotype correlation diversity and gene/mutation(s) distinct consequences at the cell level; to explain the consequences of molecular diagnosis on vital prognosis at birth, follow-up, lung cancer risk later in life and genetic counselling; to explain how genotypes connect with current personalised treatments and their development.

**Disease(s) :** Airway diseases Interstitial lung diseases Paediatric respiratory diseases

**Method(s) :** Cell and molecular biology Epidemiology General respiratory patient care

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Respiratory therapist

**Chairs :** Nicole Beydon (Paris, France), Chair to be confirmed

**13:45 Basics of genetic diagnostics**  
Marie Legendre (Paris, France)

**14:00 Surfactant disorders: from neonatal respiratory distress to cancer predisposition**  
Lawrence Mark Nogee (Baltimore, United States)

**14:15 Models for ciliated airway epithelial cells and personalised medicine**  
Speaker to be confirmed

**14:30 Discussion and Q&A**

**Amber 3+4 Session 14:20 - 17:10**

**Skills workshop: SW15 Thoracic ultrasound basic principles**

**Aims :** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

**Disease(s) :** Thoracic oncology Interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** Rahul Bhatnagar (Bristol, United Kingdom)

**14:20 Introduction**  
Rahul Bhatnagar (Bristol, United Kingdom)

**14:50 Normal Thoracic Cavity**  
Giovanni Volpicelli (Torino (TO), Italy), Morten Bendixen (Skejby, Denmark)

**14:50 Pleural effusion and/or pleural thickening**  
Valentina Pinelli (Sarzana, Italy), Konstantina Kontogianni (Heidelberg, Germany)

**14:50 Case studies**  
Poppy Denniston (London, United Kingdom)

**14:50 Guided interventions**  
Søren Helbo Skaarup (Aarhus C, Denmark), Helen McDill (Bristol (Avon), United Kingdom)

**Amber 1+2 Session 14:30 - 16:50**

**Skills workshop: SW12 Clinical-radiological-pathological correlation in pulmonary hypertension**

**Aims :** to develop a systematic approach to interpretation of radiological investigations (with a focus on computed tomography) in patients with suspected pulmonary hypertension (PH); to provide practical experience in performing and interpreting echocardiography in patients with PH; to improve knowledge and understanding of pathological changes associated with PH; to improve skills in integrating clinical, radiological and right heart catheter data to enable the correct diagnosis of patients with suspected PH.

**Disease(s) :** Pulmonary vascular diseases**Method(s) :** Imaging**Tag(s) :** Clinical**Target audience :** Adult pulmonologist/Clinician, Pathologist, Physician in Pulmonary Training, Radiologist**Chairs :** Robin Condliffe (Sheffield (South Yorkshire), United Kingdom), Anton Vonk Noordegraaf (Amsterdam, Netherlands)**14:30 Introduction****14:30 Radiological assessment of pulmonary hypertension**  
Deepa Gopalan (LONDON, United Kingdom)**14:30 Pathological assessment of pulmonary hypertension**  
Peter Dorfmueller (Le Plessis-Robinson, France)**14:30 Echocardiography in pulmonary hypertension**  
Marielle van de Veerdonk (Amsterdam, Netherlands), Abdul Hameed (Sheffield (South Yorkshire), United Kingdom)**14:30 Clinical assessment of pulmonary hypertension**  
Robin Condliffe (Sheffield (South Yorkshire), United Kingdom)**Coral 1 (live-stream) Session 15:30 - 17:00****Symposium: Controversies on ground glass opacities of the lung****Ground glass opacities and lung cancer****Aims :** to discuss lung ground glass opacity (GGO) and to emphasise the challenges that thoracic surgeons, physicians, pneumologists and thoracic oncologists are now facing and will face in future regarding GGOs after the COVID-19 pandemic.**Disease(s) :** Thoracic oncology**Method(s) :** Endoscopy and interventional pulmonology Public health Surgery**Tag(s) :** COVID**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon**Chairs :** Marcello Migliore (Riyadh, Saudi Arabia), Andriani Charpidou (Athens, Greece)**15:30 Is GGO a real entity ?**  
William Travis (New York, United States)**15:45 Ground glass opacities of the lung after the COVID-19 pandemic**  
Speaker to be confirmed**16:00 Should GGO always be closely follow-up?**  
Speaker to be confirmed**16:15 Screening programme for lung cancer GGO**  
Ugo Pastorino (Milan, Italy)**16:30 Discussion and Q&A****Coral 3 (live-stream) Session 15:30 - 17:00****Symposium: Treatment of early stage, technically resectable mesothelioma****Aims :** to review different international guidelines on treatment of mesothelioma; to present inconsistencies in the current set of guidelines; to help delegates understand the use of these guidelines in optimal patient care.**Chairs :** Elżbieta Magdalena Grabczak (Warszawa, Poland), Maria Joana Pereira Catarata (Porto, Portugal)**15:30 What is the early stage mesothelioma?**  
Speaker to be confirmed**15:45 Radical surgery should be offered to patients with early stage, technically resectable mesothelioma****16:00 Radical surgery should not be offered to patients with early stage, technically resectable mesothelioma**  
Speaker to be confirmed**16:15 A look into the future: active trials and research strategies for early-stage mesothelioma**  
Kevin Blyth (Glasgow (Glasgow), United Kingdom)

16:30 Discussion and Q&amp;A

**Silver (live-stream) Session 15:30 - 17:00****Journal session: The best of the European Respiratory Journal**

**Aims :** to review the best publications in the European Respiratory Journal (ERJ) on key topics in 2022–2023, covering environment and health, interstitial lung disease, COVID-19 and airways disease.

**Disease(s) :** Airway diseases Interstitial lung diseases Respiratory infections

**Method(s) :** Cell and molecular biology Epidemiology Public health

**Tag(s) :** Translational

**Target audience :** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs :** James D. Chalmers (Dundee (Angus), United Kingdom), Arzu Yorgancıoğlu (Konak, Turkey)

15:30 **The best of the ERJ: air pollution and climate change**  
Isabella Annesi Maesano (Montpellier, France)

15:45 **The best of the ERJ: airways disease**  
Mona Bafadhel (London, United Kingdom)

16:00 **The best of the ERJ: COVID-19 and long COVID**  
Joan B Soriano (Madrid, Spain)

16:15 **The best of the ERJ: interstitial lung disease**  
Martin Kolb (Hamilton (ON), Canada)

16:30 Discussion and Q&amp;A

**Gold (live-stream) Session 15:30 - 17:00****Clinical cases: Lungs on fire: interstitial lung diseases?**

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Interstitial lung diseases

**Tag(s) :** Clinical

**Chairs :** Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Antoine Froidure (Bruxelles, Belgium)

**Discussants :** Michael Kreuter (Heidelberg, Germany), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

15:30 **Case 1 incl. panel discussion and Q&A**  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

15:52 **Case 2 incl. panel discussion and Q&A**  
Michael Kreuter (Heidelberg, Germany)

16:14 **Case 3 incl. panel discussion and Q&A**  
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

16:36 **Case 4 incl. panel discussion and Q&A**  
Michael Kreuter (Heidelberg, Germany)

**Coral 2 (live-stream) Session 15:30 - 17:00****Clinical cases: Lungs on fire: respiratory critical care/sleep and breathing disorders**

**Aims :** to present real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel, who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s) :** Respiratory critical care Sleep and breathing disorders

**Tag(s) :** Clinical

**Chairs :** Dries Testelmans (Leuven, Belgium), Claudia Crimi (Catania (CT), Italy), Christoph Fisser (Regensburg, Germany)

**Discussants :** Marieke L. Duiverman (Groningen, Netherlands), Maxime Patout (Paris, France)

**15:30 Case 1 incl. panel discussion and Q&A**  
Marieke L. Duiverman (Groningen, Netherlands)

**15:52 Case 2 incl. panel discussion and Q&A**  
Maxime Patout (Paris, France)

**16:14 Case 3 incl. panel discussion and Q&A**  
Marieke L. Duiverman (Groningen, Netherlands)

**16:36 Case 4 incl. panel discussion and Q&A**  
Maxime Patout (Paris, France)

### Gold (live-stream) Session 17:15 - 18:45

**Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology**

**Chairs :** Ioannis Vogiatzis (Blyth, United Kingdom), Frits M.E. Franssen (Horn, Netherlands)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Ioannis Vogiatzis (Blyth, United Kingdom)

### Silver (live-stream) Session 17:15 - 18:45

**Assembly members' meeting: Assembly 2: Respiratory intensive care**

**Chairs :** Christian Karagiannidis (Cologne, Germany), João Carlos Winck (Vila Nova de Gaia, Portugal)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Christian Karagiannidis (Cologne, Germany)

### Amber 5+6 Session 17:15 - 18:45

**Assembly members' meeting: Assembly 3: Basic and translational sciences**

**Chairs :** H. Irene Heijink (Groningen, Netherlands), Niki L. Reynaert (Maastricht, Netherlands)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
H. Irene Heijink (Groningen, Netherlands)

### Coral 4+5 (live-stream) Session 17:15 - 18:45

**Assembly members' meeting: Assembly 4: Sleep disordered breathing**

**Chairs :** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Esther Irene Schwarz (Zürich, Switzerland)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Winfried J. Randerath (Solingen, Germany)

### Coral 3 (live-stream) Session 17:15 - 18:45

**Assembly members' meeting: Assembly 5: Airway diseases, asthma, COPD and chronic cough**

**Chairs :** Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Florence Schleich (Liège, Belgium)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Omar S. Usmani (London, United Kingdom)

### Coral 2 (live-stream) Session 17:15 - 18:45

**Assembly members' meeting: Assembly 6: Epidemiology and environment**

**Chairs :** Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Rafael E. de la Hoz (New York, United States)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Charlotte Suppli Ulrik (Virum, Denmark)

### Coral 1 (live-stream) Session 17:15 - 18:45

**Assembly members' meeting: Assembly 7: Paediatrics**

**Chairs :** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Refika Hamutcu Ersu (Ottawa, Canada)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

**Amber 7+8 Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation**

**Chairs :** Federica Meloni (Pavia (PV), Italy), Marcello Migliore (Riyadh, Saudi Arabia)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Federica Meloni (Pavia (PV), Italy)

**Purple (live-stream) Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 9: Allied respiratory professionals**

**Chairs :** Daniel Langer (Leuven, Belgium), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Daniel Langer (Leuven, Belgium)

**Red 1+2 Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 10: Respiratory infections**

**Chairs :** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal), Onno Akkerman (Groningen, Netherlands)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Eva Polverino (Barcelona, Spain)

**Brown 3 Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 11: Thoracic oncology**

**Chairs :** Torsten Gerriet Blum (Berlin, Germany), Najib M. Rahman (Oxford, United Kingdom)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Torsten Gerriet Blum (Berlin, Germany)

**Brown 1+2 Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 12: Interstitial lung diseases**

**Chairs :** Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Katerina Antoniou (Heraklion, Greece)

**Blue 1+2 Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 13: Pulmonary vascular diseases**

**Chairs :** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Anton Vonk Noordegraaf (Amsterdam, Netherlands)

**Yellow 1+2+3 Session 17:15 - 18:45**

**Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy**

**Chairs :** Walter De Wever (Leuven, Belgium), Elżbieta Magdalena Grabczak (Warszawa, Poland)

**17:15 Assembly members meeting: presentation, discussion and Q&A**  
Walter De Wever (Leuven, Belgium)



# INDUSTRY SESSIONS

# CHAIR AND COORDINATOR INDEX

Name, Session number

<b>A</b>	HOUBEN-WILKE S.	SUPPLI ULRİK C.
ADIR Y.	HUMBERT M.	SYLVESTER K.
AKKERMAN O.	<b>J</b>	<b>T</b>
ANNEMA J.	JARA-PALOMARES L.	TESTELMANS D.
ANTONIOU K.	JOHANNESSEN A.	<b>U</b>
ARANCIBIA HERNANDEZ F.	<b>K</b>	USMANI O.
<b>B</b>	KARAGIANNIDIS C.	<b>V</b>
BANKA R.	KOUDSTAAL T.	VANCHERI C.
BARGAGLI E.	KREUTER M.	VERBRAECKEN J.
BEECH A.	<b>L</b>	VICENCIO A.
BEYDON N.	LANGER D.	VIJVERBERG S.
BHATNAGAR R.	LARICI A.	VOGIATZIS I.
BLUM T.	LAURSEN C.	VONK NOORDEGRAAF A.
BONINI M.	LAVENEZIANA P.	<b>W</b>
BONSIGNORE M.	LEHMANN M.	WIJSENBEEK M.
BOSNIC-ANTICEVICH S.	LICHTBLAU M.	WINCK J.
BOSSIOS A.	LOEBINGER M.	WRIGHTSON J.
BRADICICH M.	LÖFFLER-RAGG J.	<b>Y</b>
BRANDSMA C.	LOUKIDES S.	YILDIRIM A.
BUSH A.	<b>M</b>	YORGANCIOĞLU A.
<b>C</b>	MAKONGA- BRAAKSMA J.	<b>Z</b>
CARONE M.	MASSARD G.	ZACHARASIEWICZ A.
CHALMERS J.	MATHIOUDAKIS A.	ZDRAVESKA M.
CHARPIDOU A.	MCDONALD V.	
CHOROSTOWSKA- WYNIMKO J.	MEINERS S.	
CONDLIFFE R.	MELONI F.	
CRAVEN R.	MIGLIORE M.	
CRIMI C.	MÖLLER A.	
CRUZ J.	MOOR K.	
CUEVAS OCAÑA S.	<b>O</b>	
<b>D</b>	ODEMYR M.	
DANDANELL JUUL A.	OSTERHAUS A.	
DE LA HOZ R.	<b>P</b>	
DE WEVER W.	PEREIRA CATARATA M.	
DUARTE R.	PIJNENBURG M.	
DUIVERMAN M.	PINNOCK H.	
<b>E</b>	POLVERINO E.	
ESCRIBANO- SUBIAS P.	PRETTI DALCOLMO M.	
<b>F</b>	<b>R</b>	
FISSER C.	RAHMAN N.	
FRANSSSEN F.	RANDERATH W.	
FROIDURE A.	REYNAERT N.	
<b>G</b>	ROBALO CORDEIRO C.	
GAILLARD E.	ROMÁN RODRIGUEZ M.	
GAPPA M.	ROZMAN A.	
GARCIA RIO F.	<b>S</b>	
GARCIA-BASTEIRO A.	SANGUINETTI M.	
GILLE T.	SCHIZA S.	
GLOECKL R.	SCHLEICH F.	
GOLETTI D.	SCHRAMM D.	
GONZALEZ BERMEJO J.	SCHWARZ E.	
GRABCZAK E.	SIDDIQUI S.	
<b>H</b>	SITBON O.	
HAMUTCU ERSU R.	SMESSEIM I.	
HARARI S.	SOTGIU G.	
HARDAVELLA G.	SPAGNOLO P.	
HEIJINK H.	STOLZ D.	
HELBO SKAARUP S.	STRINGER W.	

# DISCUSSANT INDEX

Name, Session number

## B

BLUM T.

## C

CHALMERS J.

## D

DRUMMOND D.

DUIVERMAN M.

## H

HARDAVELLA G.

## J

JIMÉNEZ CASTRO D.

## K

KELLY E.

KREUTER M.

## M

MIRAVITLLES M.

## P

PATOUT M.

PIJNENBURG M.

## S

STOLZ D.

## U

ULRICH S.

## W

WIJSENBEEK M.

## SPEAKER INDEX

Name, Presentation number

<b>A</b>	COTTIN V.	HAMID Q.	LOWE A.	PÉPIN J.	SHAH R.
ADDALA D.	COX N.	HAN M.	<b>M</b>	PERGER E.	SHAKESPEARE J.
ADNOT S.	CRAIG S.	HARARI S.	MAGIS-ESCURRA C.	PETRACHE I.	SHLOBIN O.
AL-AHMAD M.	CROMBAG L.	HARDAVELLA G.	MALL M.	PICCARI L.	SHOEMARK A.
ALIVERTI A.	CRUZ J.	HARRISON S.	MALPASS A.	PICCIONE J.	SHOJAEI S.
AMAN J.	<b>D</b>	HART N.	MAN W.	PIETERSEN P.	SIMONS S.
ANDERSEN Z.	DANDANELL JUUL A.	HARTMANN I.	MANGIAPAN G.	PIJNENBURG M.	SINGH S.
ANDREJAK C.	DAS N.	HARTMANN-BOYCE J.	MARTINEZ L.	PINELLI V.	SKOCZYŃSKI S.
ANNEMA J.	DE ALMEIDA	HEIJINK H.	MARTÍNEZ GARCÍA M.	PIQUILLOUD L.	SMESSEIM I.
ANNESI MAESANO I.	VICENTE FERREIRA C.	HEILI FRADES	MASA JIMÉNEZ J.	PISANI L.	SNOECKX A.
ANTONIOU K.	DE BRUIJNE M.	ZIMMERMANN S.	MASEKELA R.	PODOLANCZUK A.	SOLE JOVER A.
ARMANIOS M.	DE JONGH F.	HELBO SKAARUP S.	MATHIOUDAKIS A.	POLVERINO E.	SORIANO J.
ARMATO III S.	DE MAN F.	HEUNKS L.	MAYER-HAMBLETT N.	POLVERINO F.	SPENCER GRANT C.
ARONSON K.	DE MATTEIS S.	HISERT K.	MCAULEY D.	POSTH S.	SPIELMANN S.
<b>B</b>	DE PINHO DIAS M.	HUMBERT M.	MCDILL H.	PRICE L.	STOLZ D.
BAFADHEL M.	DE WEVER W.	<b>J</b>	MCGOWAN A.	PROESMANS M.	STRINGER W.
BALDWIN D.	DELCROIX M.	JACOB J.	MEINERS S.	PROSCH H.	SUMMERS R.
BANKA R.	DEMEYER H.	JAIS X.	MELONI F.	PUNTE MAESTU L.	SUPPLI ULRIK C.
BARGAGLI E.	DEN BAKKER M.	JANSSEN D.	MEYS R.	<b>Q</b>	SVERZELLATI N.
BAUSEWEIN C.	DENNISTON P.	JARA-PALOMARES L.	MICHELETTO C.	QUINT J.	<b>T</b>
BEAUCHAMP M.	DERDE L.	JENKINS D.	MIGLIORI G.	<b>R</b>	TAHURA S.
BEDWAI E.	DIXON A.	JIMÉNEZ CASTRO D.	MILIAUSKAS S.	RADONIC T.	TAKAHASHI Y.
BEECH A.	DORFMULLER P.	JOVANOVIĆ D.	MIRAVITLLES M.	RAHERISON-SEMJEN C.	TAKKEN T.
BEIGELMAN-AUBRY C.	DOWNEY D.	<b>K</b>	MOLINA MOLINA M.	RAHMAN N.	TAYLOR-COUSAR J.
BENDIXEN M.	DRES M.	KALTSAKAS G.	MOLINS LOPEZ-RODO L.	RAMNARAYAN P.	THOMAS M.
BENDSTRUP E.	DRUMMOND D.	KARAGIANNIDIS C.	MOLYNEAUX P.	RAMSOOK A.	THOMAS P.
BERG J.	DUARTE R.	KAWANO-DOURADO L.	MONGODI S.	RANDERATH W.	TRAVIS W.
BERTOLETTI L.	DUBBELDAM A.	KELLY E.	MONTANI D.	RANDERATH W.	TROMEUR C.
BHATNAGAR R.	DUIVERMAN M.	KERPPEL-FRONIUS A.	MOOR K.	RASTOGI D.	TROOSTERS T.
BILLATOS E.	<b>E</b>	KHOR Y.	MORRISEY E.	REDOLFI S.	TROY L.
BLANCO VICH I.	EMANUELA D.	KING G.	MORTY R.	REVEL M.	TUFMAN A.
BLUM T.	EVANS R.	KOHLER M.	MUÑOZ GALL X.	REYNAERT N.	<b>U</b>
BLYTH K.	<b>F</b>	KOLB M.	MURPHY P.	RICHELDI L.	UBAGS N.
BOEREE M.	FAIVRE FINN C.	KOLLS J.	<b>N</b>	RIEMEKASTEN G.	ULRICH S.
BOGAARD H.	FALSTER C.	KONIGSHOFF M.	NARANG I.	RIHA R.	USMANI O.
BOUDEWYNS A.	FALZON D.	KONTOGIANNI K.	NEDER J.	ROBALO CORDEIRO C.	<b>V</b>
BOURBEAU J.	FANER CANET R.	KOSTIKAS K.	NEIRA M.	RØMHILD DAVIDSEN J.	VACHIERY J.
BRADLEY D.	FARVER-VESTERGAARD I.	KOTECHA S.	NETEA M.	ROSSITER H.	VAN BRAECKEL E.
BRINKMAN P.	FORASTIERE F.	KOZIAR VASAKOVA M.	NIEUWENHUIJSEN M.	RUHWALD M.	VAN DE VEERDONK M.
BROCHARD L.	FRANÇOIS B.	KRAFT M.	NOGEE L.	RUSSELL C.	VAN DEN AARDWEG J.
BURGE A.	FRANQUET T.	KREUTER M.	NOHYNEK H.	RUTTER M.	VAN DER PLAS M.
BUTLER C.	FRANSSSEN F.	KÜBLER W.	NOSOTTI M.	RYAN S.	VAN DER WERF M.
<b>C</b>	FUNKE F.	<b>L</b>	<b>O</b>	<b>S</b>	VAN GEFFEN W.
CADRANEL J.	<b>G</b>	LAFHEY J.	O'CONNOR K.	SALUZZO F.	VANFLETEREN L.
CALFEE C.	GABRYSCH S.	LAHOUSSE L.	O'DONNELL D.	SALVI S.	VARRASO R.
CALS J.	GARCIA-COSIO	LANGE C.	OLSSON K.	SANCHEZ D.	VERBRAECKEN J.
CAMPISI J.	PIQUERAS F.	LANGER D.	ONG-SALVADOR R.	SANCHEZ O.	VERONESI G.
CARLUCCI A.	GASPARINI A.	LANTUEJOU S.	ONORATI P.	SANCHEZ DE LA TORRE M.	VERSCHAKELN J.
CASABURI R.	GIBSON P.	LARICI A.	OOSTVEEN E.	SANCHO CHINESTA J.	VICENCIO A.
CASIRAGHI M.	GIN-SING W.	LATIMER L.	OPENSHAW P.	SATIA I.	VLIEGENTHART R.
CHALMERS J.	GIRARD N.	LAUK O.	OPITZ I.	SAVAI PULLAMSETTI S.	VOGIATZIS I.
CHARIF F.	GOOSSENS H.	LAURSEN C.	OSTROWSKI L.	SAVALE L.	VOLPICELLI G.
CHOTIRMALL S.	GOPALAN D.	LAVENEZIANA P.	<b>P</b>	SCHAEFFER M.	VONK
CHOW C.	GORSKI A.	LEHMANN M.	PALANGE P.	SCHIZA S.	NOORDEGRAAF A.
CHUNG F.	GRIGG J.	LEVINE M.	PAPADAKIS S.	SCHLEICH F.	VOS R.
CHUNG K.	GUEDES BALDI B.	LINDSTRÖM I.	PAPI A.	SCHOETERS G.	VYAKARNAM A.
CIET P.	<b>H</b>	LLOR VILA C.	PARKAR A.	SELMAN LAMA M.	<b>W</b>
CIRILLO D.	HAJEK P.	LOUIS R.	PASTORINO U.	SESE L.	WALKER S.
CLOONAN S.	HALVORSEN T.	LOUKIDES S.	PATOUT M.	SHAH P.	WÄLSCHER J.
COBELENS F.	HAMADA Y.				WALSH S.
CONDLIFFE R.	HAMEED A.				

WAPENAAR - DE  
KORVER M.

---

WATZ H.

---

WELLS A.

---

WELTE T.

---

WIJSENBEEK M.

---

WINDISCH W.

---

WITZENRATH M.

---

WOITEK R.

---

WOLFF D.

---

WORT S.

---

WRIGHTSON J.

---

WU Z.

---

Y

---

YILDIRIM A.

---

Z

---

ZABERT I.

---

ZIMMERMANN S.

---

ZUCCATOSTA L.

---

# AUTHOR INDEX

Name, Abstract number