



WINTER MEETING 2019



British
Thoracic
Society

FIRST ANNOUNCEMENT:

Symposia Programme and Booking Form

WEDNESDAY 4TH TO FRIDAY 6TH DECEMBER

QEII CENTRE, LONDON

Early bird discount deadline: 23:59 on 1st October 2019

Abstract submission deadline: 23:59 on 15th July 2019

Please see our website: brit-thoracic.org.uk

Better lung health **for all**

WELCOME

Dear Colleagues

I am delighted to present to you our preliminary programme of named lectures and major symposia for the 2019 BTS Winter Scientific Meeting.

The Science and Research Committee has organised an outstanding line up of speakers for the Meeting, which I am sure will provide something of interest to all health professionals involved in the care of patients with respiratory disease, as well as to biomedical scientists working on lung disease. Our symposia programme contains some outstanding international speakers who, together with our own national experts, will inform delegates of the very latest advances in the clinical, translational and basic science of lung disease.

The Winter Scientific Meeting remains the highlight of our professional calendar and provides a tremendous networking opportunity and, in particular, the chance to interact with clinicians, allied health professionals and scientific colleagues from within the UK and abroad in the spoken and poster sessions, which remain a vitally important component of the Meeting. I would encourage you to submit your very best work for presentation at the Meeting as this will generate the most productive interactions.

I look forward to welcoming you to London in early December 2019.

Yours faithfully



Dr Elizabeth Sapey
Chair, BTS Science and Research Committee



FULL PROGRAMME

The full programme, including all Spoken Sessions and Poster Discussions, will be available on the BTS website from early September, once abstracts have been refereed. The Final Programme, including abstracts, is published as a supplement to Thorax and will be sent to all subscribing BTS members in advance of the Winter Meeting. For ease of reference it will also be available to all participants in advance on the BTS website: www.brit-thoracic.org.uk

BTS SCIENCE AND RESEARCH COMMITTEE MEMBERS – THE 2019 WINTER MEETING PLANNING COMMITTEE:

Dr Elizabeth Sapey (Chair)

Dr Nazia Chaudhuri

Professor Jane Davies

Professor Andres Floto

Dr Michael Gibbons

Dr Amanda Goodwin

Professor Mark Griffiths

Dr Nick Hopkinson

Professor John Hurst

Dr Akhilesh Jha

Dr Neelam Kumar

Dr Philip Molyneaux

Professor Najib Rahman

Dr Nicola Roberts

Dr Chris Scotton

Dr Aashish Vyas

CONFERENCE ORGANISATION

The Winter Meeting is organised by the British Thoracic Society. For conference information, please see page 11. For general conference queries please email: bookings@brit-thoracic.org.uk



#BTSWinter2019

PROGRAMME OF MAJOR SYMPOSIA WEDNESDAY 4TH DECEMBER 2019

8.00am – 8.30am **BTS JOURNAL CLUB**

EPIDEMIOLOGY

Dr Jennifer Quint (London)

Learning objectives:

By the end of the session:

- Participants will be able to critically appraise the epidemiology studies discussed in this session, and will be able to discuss the rationale of the methodological approaches and analysis used.
- Participants will develop an appreciation of how the findings from the studies discussed can be applied to clinical practice.

The relevant references will be available on the BTS website at the beginning of November so that delegates may review the papers in advance.

8.30am – 10.30am **JOINT BTS/BALR SYMPOSIUM**

THE SILVER TSUNAMI (PART 1): LUNG DISEASE IN AN AGEING POPULATION

Chaired by: Dr Bettina Schock (Belfast) and Dr Chris Scotton (Exeter)

- 1) Fundamentals of ageing (and what model organisms can tell us)
Professor David Gems (London)
- 2) Multi-omic approaches to understanding accelerated ageing in COPD
Dr Corry-Anke Brandsma (Groningen)
- 3) Genetic predisposition for telomere dysfunction in ageing
Professor Christine Garcia (New York)

Learning objectives:

- To review the cell and molecular mechanisms underlying the normal ageing process, and how data from model organisms can inform studies in humans.
- To understand how genomic and transcriptomic technology has revealed specific interactions between gene expression, ageing in the lung and development of COPD.
- To discuss how underlying genetic signatures can impact on telomere length and function (a hallmark of ageing), and predisposition to lung diseases such as idiopathic pulmonary fibrosis.

8.45am – 10.15am **SYMPOSIUM**

DIFFICULT INFECTION

Chaired by: Dr Andrea Collins (Liverpool) and Professor Michael Loebinger (London)

- 1) Mechanisms of invasive aspergillosis
Dr Darius Armstrong-James (London)
- 2) Management of non-TB mycobacteria
Professor Rachel Thomson (Brisbane)
- 3) Pulmonary infections in the immunocompromised host
Professor Alison Condliffe (Sheffield)

Learning objectives:

First presentation:

- Understand mechanism of action of novel small molecule inhibitors.
- Understand impact on antifungal immunity.

- Understand risk of fungal disease with immunosuppressants.
- Impact of influenza on fungal immunity.

Second presentation:

- Be able to differentiate between contamination, colonisation, infection and disease.
- To understand the principles behind treatment of NTM infections.
- To recognise the risk factors for disease progression and poor outcome.
- To understand the major limitations and side effects of treatment.
- To provide insight into new developments in the treatment of NTM infections.

Third presentation:

- Recognition of those at risk of opportunistic infection and which infections are most likely depending on the nature of the immunocompromise.
- Treatment of infections in the immunocompromised host.

8.45am – 10.45am **SYMPOSIUM**

OBSTRUCTIVE SLEEP APNOEA: BEYOND AHI AND ESS

Chaired by: Dr Sonya Craig (Liverpool) and Dr Sophie West (Newcastle upon Tyne)

- 1) Moving towards personalized medicine: OSA phenotypes and their limitations
Professor Jean Louis Pepin (Grenoble)
- 2) Targeting treatments in OSA – the SOX trial and its implications
Dr Christopher Turnbull (Oxford)
- 3) Targeted treatments in OSA – the role of new drug therapies
Dr Luigi Taranto Montemurro (Boston)
- 4) The role of CPAP in mild OSA
Professor Mary Morrell (London)

Learning objectives:

- To review recently described distinct clinical and polysomnographic phenotypes of OSA and their relevance to OSA outcomes.
- To understand potential targeted drug and oxygen therapy in OSA and implications for our understanding of disease.
- To understand the latest data on the role of CPAP in treating people with mild OSA.

9.00am – 10.30am **SYMPOSIUM**

EARLY DETECTION IN LUNG CANCER

Chaired by: Dr Richard Lee (London) and Dr Emma O'Dowd (Nottingham)

- 1) Blood, bile, breath or urine – is tissue an issue for early detection of lung cancer?
Dr Gerard Silvestri (Charleston, South Carolina)
- 2) Broadening the horizon: space age biopsies
Dr Neal Navani (London)
- 3) UK lung cancer screening takes off: lessons learned from the first pilots
Professor David Baldwin (Nottingham)

Learning objectives:

- A discussion of the advantages and challenges of non-tissue methods in the early diagnosis of lung cancer.
- An update on the latest methods to obtain diagnostic tissue specimens in early lung cancer.
- A discussion of the data emerging from the first pilots of lung cancer screening in the UK in the context of existing studies.

10.45am – 12.45pm **SYMPOSIUM**

COPD: IT'S NOT JUST TOBACCO

Chaired by: Dr Jennifer Quint (London) and Dr Richa Singh (London)

- 1) Lung function trajectories, occupational/environmental and drug associated causes of COPD
Professor Adnan Custovic (London)
- 2) COPD from home and work: biological particles, fumes and pesticides
Professor Deborah Jarvis (London)
- 3) COPD from play: crack, heroin and cannabis
Dr Hassan Burhan (Liverpool)
- 4) COPD: aetiology and trajectories
Professor Alvar Agustí (Barcelona)

Overview:

Patients cannot determine their mother's behaviour in utero or their family's socio-economic status in childhood. The Soriano data shows a stronger relation between FVC and income compared to FEV1/FVC and pack-years. The Fletcher model of FEV1 decline, based on cross-sectional data, assumes full potential was achieved and shows an exponential decay in FEV1. Based on a large longitudinal cohort, Lange and colleagues show the true importance of "achieved potential", and that substantial decline in FEV1 occurs much earlier. This clearly supports a change in the reactive nature of clinical practice in the UK, to proactive case finding and earlier intervention. The importance of other exposures is increasingly being recognised; the prospective European Community Respiratory Health Survey estimated that exposure to biological dusts, gases and fumes, and pesticides accounted for 21% of cases (Lytras Thorax 2018). The impact of smoking crack, heroin and cannabis is considerable, and addressing this presents even greater challenges.

Learning objectives:

- To understand the early-life determinants of lung function and the trajectory of FEV1 in COPD.
- To understand the role of occupational and environmental exposures in COPD.
- To consider how non-tobacco substance use contributes to the burden of COPD and the value of case finding for COPD in populations who use substances other than tobacco.
- To evaluate how the concept of treatable traits applies to COPD including non-tobacco related disease.

11.00am – 12.30pm **SYMPOSIUM**

LATENT TB IN THE 21ST CENTURY

Chaired by: Dr Felicity Perrin (London) and Dr Simon Tiberi (London)

- 1) Blood transcriptional signatures reveal heterogeneity of tuberculosis
Dr Anne O'Garra (London)

- 2) Screening for latent TB in the UK: are we getting it right?
Speaker to be confirmed
- 3) Treatment for latent TB: can we do better?
Dr Martin Dedicoat (Birmingham)

Learning objectives:

- The immune response to evolving infection with Mycobacterium tuberculosis will be revealed through the use of transcriptomics. We will review the diverse blood transcriptional signatures, composed of small sets of genes, that have been proposed for the diagnosis of tuberculosis and the identification of at-risk asymptomatic people and suggest novel approaches for the development of such biomarkers for clinical use.
- To evaluate the current screening strategies for LTBI in the UK.
- To discuss current and future therapeutic management of people with, or at risk of, LTBI.

11.00am – 1.00pm **JOINT BTS/BALR SYMPOSIUM**

THE SILVER TSUNAMI (PART 2): STRATEGIES TO STOP THE WAVE FROM BREAKING

Chaired by: Dr Manuela Platé (London) and Professor Karl Staples (Southampton)

- 1) Inflammageing and the microbiome in the lung
Dr Dawn Bowdish (Hamilton, Ontario)
- 2) Mitochondrial (dys)function in the ageing lung
Professor Peter Barnes (London)
- 3) Potential of senolytics as disease-modifiers in IPF
Professor James L Kirkland (Rochester, Minnesota)

Learning objectives:

- To understand the impact of ageing on our symbiosis with commensal micro-organisms, and how this affects host-pathogen interactions and susceptibility to lung infection in advancing age.
- To appreciate the key role played by mitochondria and altered metabolic processes in ageing, and the potential for novel treatments targeting mitochondrial function in the context of COPD.
- To review the recent clinical data on the use of senolytic drugs in idiopathic pulmonary fibrosis, and the underlying rationale for targeting senescence in lung disease.

1.00pm – 1.45pm **THE BTS CLINICAL LECTURE**

Professor Sam Janes (London)

2.00pm – 3.30pm **JOINT BTS/BPRS SYMPOSIUM**

LUNG INVOLVEMENT IN MULTI-SYSTEM DISEASE

Chaired by: Dr Des Cox (Dublin) and Dr Rebecca Thursfield (Liverpool)

- 1) Auto-immune and connective tissue diseases
Dr Liza McCann (Liverpool)
- 2) Skeletal dysplasia
Dr Colin Wallis (London)
- 3) Sickle cell disease
Dr Mark Velangi (Birmingham)

Learning objectives:

The lungs may be involved in a number of systemic and structural diseases. The audience will be provided with latest updates on several common and rare paediatric conditions with a focus on diagnosis and treatment of pulmonary complications.

2.00pm – 3.30pm PRIZE SYMPOSIUM

BTS/BALR/BLF EARLY CAREER INVESTIGATOR AWARDS

This symposium will showcase the very best original research submitted to the Winter Meeting by UK scientists and clinicians in the early part of their research career, as they compete for prestigious prizes from the BTS, BALR and BLF. Closing date for submissions is 23:59 on 15th July 2019 via www.brit-thoracic.org.uk

2.00pm – 4.00pm SYMPOSIUM

POINT OF CARE AND PLEURAL IMAGING: AT THE CUTTING EDGE

Chaired by: Dr Rachele Ascik (Msida, Malta) and Dr Rachel Benamore (Oxford)

- 1) Thoracic ultrasound in the acutely breathless patient: is this the standard of care?
Dr Christian Laursen (Odense, Denmark)
- 2) More than anatomy: volumetric and functional MRI in malignant pleural disease
Dr Selina Tsim (Glasgow)
- 3) Perfusion CT and artificial intelligence: goodbye radiologists!
Professor Fergus Gleeson (Oxford)
- 4) PET-CT in the undiagnosed effusion: results of the TARGET study
Dr Duneesha de Fonseka (Sheffield)

Learning objectives:

- Review the current evidence for the use of point of care ultrasound in diagnosis and management of respiratory failure.
- To understand the additional value of thoracic MRI in pleural disease diagnosis, outcome prediction and disease response.
- Understand potential future developments in perfusion CT and AI for the diagnosis and management of pleural disease.
- To review the latest evidence on the use of PET-CT in targeting pleural biopsy and managing the malignant effusion pathway

4.15pm – 4.45pm

BTS AWARD PRESENTATIONS

4.45pm – 5.30pm

THE BTS PRESIDENT'S ADDRESS

Dr Mohammed Munavvar (Preston)

5.30pm – 6.00pm

BTS ANNUAL GENERAL MEETING

BTS members only

THURSDAY 5TH DECEMBER 2019

8.00am – 8.30am BTS JOURNAL CLUB

CLINICAL TRIALS

Professor Hilary Pinnock (Edinburgh)

Learning objectives:

By the end of the session:

- Participants will be able to critically appraise the clinical trials studies discussed in this session and will be able to discuss the rationale of the methodological approaches and analysis used.
- Participants will develop an appreciation of how the findings from the studies discussed can be applied to clinical practice.

The relevant references will be available on the BTS website at the beginning of November so that delegates may review the papers in advance.

8.30am – 10.00am SYMPOSIUM

IMMUNOTHERAPY: THE BRAVE NEW WORLD

Chaired by: Dr Ahsan Akram (Edinburgh) and Dr Vidan Masani (Bath)

- 1) Immunotherapy in the treatment of mesothelioma
Dr Anna Bibby (Bristol)
- 2) Management of toxicities in the era of personalised lung cancer therapies
Dr Alastair Greystoke (Newcastle upon Tyne)
- 3) Translational overview of up and coming targets in lung cancer
Dr Frank McCaughan (Cambridge)

Learning objectives:

- From this session, attendees will learn how immunotherapy is transforming the management of respiratory malignancies.
- Presentation 1 will describe the current approaches and emerging drugs in the management of mesothelioma.
 - Presentation 2 will go on to describe the potentially serious side effects that can be seen with immunotherapy, and how these should be managed.
 - Presentation 3 will highlight the up-and-coming targets for targeted lung cancer treatment, and how exploiting these could transform our approach to managing this disease.

8.45am – 10.15am SYMPOSIUM

NEW STRATEGIES FOR COPD EXACERBATIONS

Chaired by: Professor Mona Bafadhel (Oxford) and Professor Charlotte Bolton (Nottingham)

- 1) Patient prioritisation in COPD: what matters to patients?
Professor John Hurst (London)
- 2) Mechanistic insights and clinical consequences of inhibiting PI3K delta in COPD
Dr Edith Hessel (GSK)
- 3) Ongoing trials in COPD exacerbations: new treatments for viral infections
Professor Tom Wilkinson (Southampton)

Overview:

Exacerbations of chronic obstructive pulmonary disease (ECOPD) are important events. They are associated with significant mortality, morbidity, a reduced quality of life and an increasing reliance on social care. ECOPD are common and are increasing in prevalence. Exacerbations beget exacerbations, with up to a quarter of in-patient episodes ending with re-admission to hospital within 30 days. The healthcare costs are immense. Yet despite this, the tools available to diagnose and treat ECOPD are essentially unchanged, with the last new intervention (non-invasive ventilation) introduced over twenty-five years ago. This symposium will highlight emerging therapies and research strategies for ECOPD and discuss a (then to be) completed patient prioritisation in ECOPD, so we can understand what patients want us to focus on.

Learning objectives:

- To understand the process of James Lind patient prioritisation and discuss early results about what matters to patients in terms of research activity and direction.
- To consider new treatment pathways for ECOPD, including those which might be suitable for bacterial infections with neutrophilic inflammation and new strategies for viral infections.

8.45am – 10.15am JOINT BTS/BPRS SYMPOSIUM**ASSESSMENT OF LUNG DISEASE IN CHILDREN**

Chaired by: Professor Jane Davies (London) and Dr Francis Gilchrist (Stoke on Trent)

- 1) Advances in physiology-based tests
Dr Don Urquhart (Edinburgh)
- 2) Imaging: CT/MRI/functional MRI
Dr Thomas Semple (London)
- 3) Looking to the future: breath-based diagnostics
Professor Anke-Hilse Maitland-van der Zee (Amsterdam)

Learning objectives:

The outlook is improving for the health of children with a number of chronic lung diseases, which poses challenges in terms of diagnosis and monitoring. Here, we bring together three experts in different techniques seeking to shine a light on potentially hidden aspects of lung disease.

- Whilst spirometry is a blunt tool in the early stages of airway disease, newer modalities including multi-breath washout, cardiopulmonary exercise testing may demonstrate abnormalities at an earlier stage.
- CT scans are not used as repeatedly as they might be useful because of concerns over radiation in childhood. Advances in low-dose protocols as well as improvements in the resolution of alternatives such as MRI may improve the utility of imaging.
- Breath has long been considered an attractive substrate for monitoring lung health, but does not, to date, appear to have fulfilled its promise. We will hear about an innovative programme led from the University of Amsterdam, which may provide both diagnostic and longer-term monitoring utility.

10.30am – 12.15pm SYMPOSIUM**PLENARY SCIENTIFIC**

Chaired by: Professor Louise Donnelly (London) and Professor Gisli Jenkins (Nottingham)

- 1) ER stress and lung disease
Professor Stefan Marciniak (Cambridge)
- 2) Tissue remodelling in chronic lung disease
Dr Amanda Tatler (Nottingham)
- 3) Mucosal host-defence in COPD: medications, microbes and mucus
Dr Aran Singanayagam (London)
- 4) Cystic fibrosis: what does the future hold?
Professor Jane Davies (London)

Overview:

This symposium highlights the breadth and depth of research expertise from across the UK. This year we include both paediatric and adult illnesses, including CF and ILD, but also focus on key intra-cellular pathways including mechanisms of host-defence against respiratory viruses and bacteria in the context of chronic lung diseases and proteostasis and endoplasmic reticulum stress.

Learning objectives:

- To review cutting edge advancements across respiratory science and medicine.
- To learn about protein misfolding in cells and the effect this has on cell function in common and rare diseases.
- To discuss how host-defence mechanisms in chronic lung diseases can predispose to infection and tissue damage.
- To review new models of lung fibrosis and how these may provide insight into disease pathogenesis.
- To consider new treatment pathways for cystic fibrosis and how these might improve patient outcomes.

**12.45pm – 1.30pm THE BTS SCIENTIFIC LECTURE
MICROBIOME AND EFFECT ON THE LUNGS**

Professor Elizabeth Kovacs (Denver, Colorado)

2.00pm – 3.30pm SYMPOSIUM**IMMUNITY TO RESPIRATORY INFECTIONS:
FROM MECHANISMS TO THERAPY**

Chaired by: Dr Anand Shah (London) and Professor Sarah Walmsley (Edinburgh)

- 1) Innate immune cell suppression and susceptibility to secondary infections
Professor Tracy Hussell (Manchester)
- 2) Impact of viral infections on carriage of Streptococcus pneumoniae.
Professor Daniela Ferreira (Liverpool)
- 3) GM-CSF to improve neutrophil phagocytosis in critical care patients
Professor John Simpson (Newcastle upon Tyne)

Learning objectives:

This session will showcase the latest research in understanding the impact of viral infection on secondary bacterial infections and report on a translational study to directly modulate in-vivo neutrophil function in critically unwell patients. It aims to:

- Enhance understanding of how prior viral infection can suppress innate immunity to bacterial infection.
- Describe a human challenge model to assess the impact of live attenuated influenza on carriage of *Streptococcus pneumoniae*.
- Assess the impact of granulocyte-macrophage colony-stimulating factor (GM-CSF) on in-vivo neutrophil phagocytosis in critical care unit patients.

2.00pm – 3.30pm **SYMPOSIUM**
HIGHLIGHTS FROM JAMA AND THORAX

Details to be confirmed nearer to the time

4.00pm – 5.30pm **SYMPOSIUM**
CYSTIC FIBROSIS

Chaired by: Dr Caroline Elston (London)
and Dr Joanna Whitehouse (Birmingham)

- 1) CFTR and bowel cancer
Professor James Abraham (Minneapolis, Minnesota)
- 2) Single cell RNA sequence
Speaker to be confirmed
- 3) The direct role of CFTR in regulation of antibacterial immunity and epithelial cell inflammation
Dr Audrey Bernut (Sheffield)

Learning objectives:

- Understand how single cell RNA sequencing has revealed new lung cell types, particularly the ionocyte, and implications for cystic fibrosis pathophysiology and treatment.
- Understand the emerging evidence for a direct role of CFTR in inflammation and immunity and how these may inform understanding of CF disease.
- Appreciate the new epidemiological and experimental data implicating CFTR as a tumour suppressor gene and how this knowledge is changing clinical practice.

5.30pm – 7.00pm

THE PRESIDENT'S RECEPTION

All participants are warmly invited to attend this social occasion

FRIDAY 6TH DECEMBER 2019

8.00am – 8.30am **BTS JOURNAL CLUB**

CRITIQUING BASIC SCIENCE

Professor Terry Tetley (London)

Learning objectives:

By the end of the session:

- Participants will be able to critically appraise the basic science studies discussed in this session, and will be able to discuss the rationale of the methodological approaches and analysis used.
- Participants will develop an appreciation of how the findings from the studies discussed can be applied to clinical practice.

The relevant references will be available on the BTS website at the beginning of November so that delegates may review the papers in advance.

8.30am – 10.30am **SYMPOSIUM**

PNEUMOTHORAX: INSIGHTS TO AETIOLOGY AND NOVEL TREATMENT DIRECTIONS

Chaired by: Dr Anna Bibby (Bristol) and Professor Najib Rahman (Oxford)

- 1) Inflammation and structure in primary pneumothorax: what's wrong with the lung?
Dr Jenny Dickens (Cambridge)
- 2) Conservative management for primary spontaneous pneumothorax: results of the Australian randomised trial
Professor Gary Lee (Perth)
- 3) Ambulatory treatment for primary spontaneous pneumothorax: results of the RAMPP trial
Dr Robert Hallifax (Oxford)
- 4) Ambulatory treatment for secondary pneumothorax management: results of the HiSPEC trial
Dr Steve Walker (Bristol)

Learning objectives:

- Review the current literature and new data on early definitive management of primary pneumothorax and whether there is sufficient evidence to alter the current BTS pathway of initial medical management in all cases.
- Review the current evidence for safety and efficacy of ambulatory pneumothorax management in PSP and SSP, including patient selection, risks and benefits and whether this should be taken up in current practice.
- To understand the structural basis of primary pneumothorax and the need to look for underlying causes for future management.

8.45am – 10.15am **SYMPOSIUM**

UNDERSTANDING OCCUPATIONAL LUNG DISEASE: LESSONS FROM THE PAST AND INTO THE FUTURE

Chaired by: Professor David Fishwick (Sheffield) and Dr Ruth Wiggins (Manchester)

- 1) Occupational asthma: the benefits of early diagnosis
Dr Johanna Feary (London)
- 2) Trends in occupational lung disease in the UK: celebrating 30 years of the SWORD reporting scheme
Dr Chris Barber (Sheffield)
- 3) STING-dependent sensing of self-DNA and silicosis
Professor Valérie Quesniaux (Orleans, France)

Overview:

Occupational and environmental exposures cause a wide-range of respiratory disease and this symposium has been put together to be of interest to participants with a number of different sub-speciality interests, including asthma and ILD. The talks selected are topical, based on recent research published in high impact international journals, and the speakers are known to be experienced in contributing to high-quality symposia at international meetings.

The first talk discusses the need to be vigilant for occupational lung disease, as these are often missed by clinicians, allowing toxic exposures to continue. The second talk highlights that the UK has one of the best national reporting schemes for occupational lung disease (SWORD) in the world, which is reliant on many BTS members voluntarily notifying cases to the University of Manchester. The HSE use this information to review topic areas for future research planning and workplace intervention strategies. The symposium is timely as in 2019, the SWORD scheme is 30 years-old, and one of the talks will be used to highlight the important achievements that this scheme has had over this period. The third talk brings occupational lung disease back to the laboratory, discussing pathways of interest in silicosis, with the potential for new treatment in time.

Learning objectives:

- To review the contribution of occupational exposures to lung disease and the need for a high level of suspicion to improve outcomes, with occupational asthma as a highly relevant exemplar.
- To better understand the importance of the UK's national reporting scheme, and review temporal trends in occupational lung disease incidence and causation.
- To discuss newly identified mechanisms of occupational lung disease (silicosis) and learn about potential new treatment pathways.

9.00am – 10.30am **SYMPOSIUM**

E-CIGARETTES: THE KNOWN KNOWN AND THE KNOWN UNKNOWN

Chaired by: Dr Lisa Davies (Liverpool) and Professor David Thickett (Birmingham)

- 1) Cell based studies
Professor Robert Tarran (Chapel Hill, North Carolina)
- 2) E-cigarettes in smoking cessation
Professor Peter Hajek (London)
- 3) ERS Taskforce report
Professor Robert Bals (Marburg, Germany)

Overview:

There remains considerable controversy about e-cigarettes and vaping, with some studies suggesting benefit in terms of smoking cessation, and others reporting cell-based signals of harm. This symposium provides a cutting-edge review of the evidence base, including the most comprehensive study of smoking cessation and translational science, followed by a summary of the evidence as collated by the European Respiratory Society Taskforce.

Learning objectives:

- To consider the potential signals of harm from cell-based studies and consider if this has implications for long term use and health.
- To review the latest study of smoking cessation using e-cigarettes, including quit rates and patient experience.
- To discuss the ERS Taskforce report in the context of UK Public Health strategy.

10.45am – 12.30pm **SYMPOSIUM**

ASTHMA: GENES, DRIVERS AND HEALTH INEQUALITIES

Chaired by: Dr Alexandra Nanzer (London) and Professor Angela Simpson (Manchester)

- 1) Genetic risk of asthma: an overview
Professor Miriam Moffatt (London)
- 2) Health inequalities and admission risk in asthma
Dr Sherif Gonem (Nottingham)
- 3) Neutrophil cytoplasm and their link to inflammation in severe asthma
Professor Bruce Levy (Harvard)

Overview:

Asthma remains a common and debilitating lung condition. Although many respond to simple treatments, there are vast health inequalities in access to care which impact on outcomes and a proportion of patients (up to 50% in some studies of severe disease) have an abundance of neutrophils in their lung secretions. This symposium will consider our understanding of genetic risk of asthma, why neutrophils might be important in severe disease (and how they could be targeted) and how we might improve asthma care for all.

Learning objectives:

- To review the differences in access to healthcare across socioeconomic groups and assess its impact on asthma admissions and outcomes.
- To consider the latest evidence about asthma risk.
- To understand the relevance of the neutrophil in asthma, and its potential as a therapeutic target.

11.00am – 12.30pm **SYMPOSIUM**

ASPECTS OF IDIOPATHIC PULMONARY FIBROSIS

Chaired by: Dr Shaney Barratt (Bristol) and Dr Katy Roach (Leicester)

- 1) Airway macrophage ontogeny, phenotype and metabolism in the fibrotic lung
Dr Adam Byrne (London)
- 2) Targeting fibroblast extracellular matrix production in fibrosis
Dr Hannah Woodcock (London)
- 3) Aged epithelium in IPF
Dr Mareike Lehmann (Munich)

Learning objectives:

- The recent resurgent interest in macrophage biology has led to a new understanding of lung macrophage origins, biology, and phenotypes. Here we will discuss recent advances in the field and focus on the role of macrophages in fibrotic lung disease.
- Myofibroblasts are thought to be one of the key effector cells responsible for the excessive extracellular matrix deposition underlying the development of idiopathic pulmonary fibrosis. Here we will review the signalling pathways by which TGF- β 1 exerts its potent fibrogenic effects and provide support for selectively targeting this pathway in IPF and potentially other fibrotic conditions.
- The incidence of IPF increases with age, and ageing-related mechanisms such as cellular senescence have been proposed as pathogenic drivers. Here we will review the evidence surrounding the contribution of alveolar epithelial cell senescence to lung repair and remodelling and how this ultimately contributes to the development of lung fibrosis.

1.00pm – 1.45pm **BTS GRAND CHALLENGE LECTURE**
AIR POLLUTION

Professor Annette Peters (Munich)

2.00pm – 3.30pm **SYMPOSIUM**

PULMONARY VASCULAR DISEASE: FROM BENCH TO BEDSIDE

Chaired by: Dr Melanie Brewis (Glasgow) and Dr Robin Condliffe (Sheffield)

- 1) GWAS: what has it taught us about PAH?
Dr Chris Rhodes (London)
- 2) Novel PAH therapies: pathways to patients
Professor Nicholas Morrell (Cambridge)
- 3) Pulmonary AVMs: diagnosis and management
Professor Claire Shovlin (London)

Learning objectives:

- Understand what insight into the pathogenesis of PAH 'omics, and especially GWAS, have given us.
- Understand the current understanding of the molecular pathobiology of PAH and the therapeutic potential these pathways provide.
- Gain an understanding of the epidemiology, presentation, diagnosis and management of pulmonary arteriovenous malformations, especially in the context of HHT.

2.00pm - 4.00pm **SYMPOSIUM**

PROGRESSIVE-FIBROSING INTERSTITIAL LUNG DISEASE: IF THEY LOOK AND BEHAVE THE SAME, ARE THEY?

Chaired by: Dr Michael Gibbons (Exeter) and Dr Hannah Woodcock (London)

- 1) Idiopathic pulmonary fibrosis and rheumatoid arthritis associated ILD: is there a connection?
Dr Joyce Lee (Aurora, Colorado)
- 2) Beyond IPF: the world of progressive-fibrosing ILD
Dr Vincent Cottin (Lyon)
- 3) The management of progressive-fibrosing ILD
Professor Toby Maher (London)

Learning objectives:

- Given the phenotypic similarities between rheumatoid arthritis (RA)-associated interstitial lung disease (ILD) and idiopathic pulmonary fibrosis (IPF) we will explore the genetic links between the two conditions with specific focus on the MUC5B promoter variant rs35705950.
- Progressive fibrosis (PF-ILD) is associated with worsening respiratory symptoms, lung function decline, decreased quality of life and, potentially, early death. Here we focus on the differential diagnosis of these ILDs which can be challenging, and requires detailed consideration of clinical, radiological and histopathological features.
- Similarities in the histological, radiological and clinical picture of multiple ILDs that may present with a progressive-fibrosing phenotype provide a rationale to suggest that therapeutic options may overlap. We will review the therapeutic options currently available for patients with a progressive phenotype, and explore the status of ongoing randomised controlled trials.

GENERAL INFORMATION

Conference organisation and general enquiries

The Winter Meeting is organised by the British Thoracic Society. Please direct all general conference enquiries via email to: bookings@brit-thoracic.org.uk

The Venue

The QEII Centre is located at Broad Sanctuary, Westminster, SW1P 3EE, opposite Westminster Abbey. For directions please visit: <http://qeiicentre.london/getting-here/>

Submission of Abstracts

The final date for submission of abstracts for the 2019 Winter Meeting is **23:59 on Monday 15th July 2019**, but you are encouraged to submit abstracts as early as possible before that date. The easy to use web-based on-line submission system is available on the BTS website at www.brit-thoracic.org.uk. You will need to register first to use the system and then follow the instructions to submit your abstract on-line in a convenient and quick operation.

BTS/BALR/BLF Early Career Investigator of the Year Awards

BTS, BALR and BLF jointly offer awards to help the careers of the most promising early career investigators carrying out original research in respiratory medicine and respiratory science during the past year. To qualify for consideration, you must be a UK based clinical or non-clinical researcher, usually under the age of 35* (but not consultant or senior lecturer grade), and the first named author of the abstract being submitted to the Winter Meeting. There will be three first prizes of £800 and three prizes of £200 for runners up. *Applicants will normally be under 35 years of age, although there will be some researchers who have taken career breaks and the Society encourages them to apply also. Please visit the BTS website for further details and submit via the abstract system.

BTS Medical Student Awards

These prestigious prizes are highly competitive and are awarded to the very best basic, translational or clinical research performed in the UK respiratory community by medical students. The prizes are awarded based on the quality and content of the research performed, and the quality of the abstract submitted. Please visit the BTS website for further details and make your submission via the abstract system.

CPD Approval

Application pending for CPD approval from the Federation of the Royal Colleges of Physicians of the UK. When approved, we will automatically register all eligible delegates for CPD when they pre-register for the Meeting.

Award Presentations

The presentation of Awards will take place in the Churchill Auditorium on the ground floor of the Centre, at 4.15pm on Wednesday 4th December. These presentations will include the BTS Medal, BTS Award for Meritorious Service, BTS Medical Student Prizes and the BTS/BALR/BLF Early Career Investigator of the Year Awards.

President's Reception

The President's Reception will be held on Thursday 5th December, from 5.30pm to 7.00pm in the QEII Centre. All those attending the Winter Meeting are warmly invited to attend this informal social occasion and enjoy light refreshments in convivial surroundings. Although the reception is free to attend, for catering purposes we do need to know the numbers attending, so please indicate this on the registration form.

Hotel Accommodation

MICE Concierge have been appointed as the official accommodation and concierge service for the event. MICE Concierge offer a complete solution for travel and accommodation, offering exclusive discounted hotel rates at carefully selected event hotels. Please contact MICE Concierge direct for all accommodation enquiries.

Telephone: **01438 908 770**

Email: hello@miceconcierge.com

Website: www.miceconcierge.com/events/BTSWinter2019

Please note that BTS is unable to assist with any accommodation bookings or queries.



#BTSWinter2019

The British Thoracic Society gratefully acknowledges the financial support of the under listed companies at the Winter Meeting 2019. None of them have had any input into the programme content or the planning of the conference. Furthermore, the Society does not allow any sponsored symposia at this event, within the programme or associated in any way with it:

Aquilant Endoscopy Ltd

AstraZeneca

BTG

Chiesi Ltd

Circassia

Fisher & Paykel Healthcare Ltd

Gilead Sciences Ltd

GlaxoSmithKline

Hitachi Medical Systems

Insmed

Novartis Pharma UK Ltd

Olympus

PARI Medical Ltd

Pfizer Ltd

Pulmonx International

Roche

Rocket Medical

Sandoz

Teva

Trudell Medical UK Ltd

Broncus Medical / Uptake Medical

Vertex

PLEASE READ THIS PAGE CAREFULLY BEFORE COMPLETING THE REGISTRATION FORM IN BLOCK CAPITALS

EARLY REGISTRATION is strongly recommended. The Early Bird booking deadline is **23:59 on TUESDAY 1ST OCTOBER 2019.** All applications received after this date will not be eligible for the Early Bird rate.

For organisation purposes we ask that all participants register in advance. Standard rate on-line booking will be open up until 23:59 on Thursday 5th December, but if you register after 09:00 on Monday

25th November 2019, there will be an additional charge of £25.00

For bookings received after 25th November 2019, delegates must bring with them their booking confirmation email and badges will need to be collected on site at the Meeting. Delegates will still be able to turn up and register on the day(s) of the Meeting that they wish to attend, but the £25.00 surcharge will also be payable.

Final conference materials and badges will be sent out by post to delegates in the week beginning Monday 18th November 2019, and on a daily basis for late bookings, up until Friday 22nd November. After that, badges will be available for collection on arrival at the conference.

The conference programme and abstract booklet is published as a supplement to the December issue of Thorax, and will be sent by the BMJ directly to subscribing members at the end of November – it should be brought with you to the Meeting. Other delegates will be able to collect their copy from the registration desks on arrival at the Meeting. The full programme will also be available on the BTS website in advance of the Meeting.

If booking using the tear-off form, please complete it as fully as possible. It is essential that you include all relevant information if you are booking by credit/debit card. We prefer bookings to be made on-line, but there are some exceptions.

You **MUST** book by post, fax or email with scanned-in form if:

- You are claiming the BTS non-member concessionary rate, which is offered this year to BALR members. The booking form must be accompanied by proof of BALR membership;
- You are claiming the BTS non-member concessionary rate and are a medical student or registered research student. You must also send proof of status at the time.

Fully retired members of the Society are **no longer exempt** from the registration fee, but are entitled to the BTS member concessionary delegate rate. Bookings can be made on-line or by post.

Those members who have retired from full-time working but who are undertaking remunerated/sessional employment, must pay the concessionary or full delegate rate depending on their BTS membership category.

The attendance fee for the Meeting does not include the cost of lunch, although coffee/tea on arrival and during the mid-morning and afternoon breaks is included. Cash catering will be available throughout each day.

The **President's Reception** will be held on Thursday 5th December from 5.30pm to 7.00pm at the QEII Centre. This is included in the cost of the attendance fee. However, we do need to know the numbers attending, so please indicate this on the registration form.

CANCELLATION POLICY

For cancellations received before **Monday 4th November 2019**, we will refund registration fees paid, minus a 25% administration charge. No refunds are payable for cancellations received **AFTER 4th November 2019**. This will include cancellations due to travel difficulties caused by adverse weather conditions or other matters that are outwith the Society's control. If you feel there are extenuating circumstances that warrant a full refund, please write to the Chief Executive via: bookings@brit-thoracic.org.uk

The Society will **NOT** refund delegate fees if the delegate has accepted the offer of support for attendance from a pharmaceutical company after a booking has been made.

LETTERS OF INVITATION

We regret that we can no longer issue letters of invitation to named delegates who wish to attend, and who request these for visa purposes.

CPD

Application pending. When approved, we will automatically register all eligible delegates for CPD when they pre-register for the Meeting.

ATTENDANCE CERTIFICATES

Will be available after the Meeting to download from the BTS website.

PROGRAMME CHANGES

Whilst every effort is made to provide the publicised programme, this may be subject to change where circumstances are outside our control.

Please return your completed registration form(s) to:

WINTER MEETING REGISTRATION

The British Thoracic Society
17 Doughty Street
London
WC1N 2PL

Telephone: 020 7831 8778

Fax: 020 7831 8766

Email: bookings@brit-thoracic.org.uk

Website: www.brit-thoracic.org.uk

We may need to contact you regarding some aspect of your registration form. It is therefore vital to advise us of your telephone number(s) and email address.

BOOKING DETAILS

BTS WINTER MEETING 2019, 4th to 6th December, QEII Centre, London

(Please see information overleaf for details of relevant charges and complete all sections in BLOCK CAPITALS)

CONFERENCE	ATTENDANCE (please tick)	TOTAL COST
Day 1: Wed 4 th Dec 2019		£
Day 2: Thurs 5 th Dec 2019		£
Day 3: Friday 6 th Dec 2019		£
Add £25.00 if booking after 09:00 on Monday 25 th November 2019		£

DIETARY REQUIREMENTS

Vegetarian food will be available from the cash catering service, but please indicate below any other dietary requirements which we will pass on to the caterers:

DO YOU HAVE ANY OTHER SPECIAL REQUIREMENTS?

(Wheelchair access, hearing needs, etc)?

SOCIAL EVENT – The President's Reception

Thursday 5th December from 5.30pm to 7.00pm at the QEII Centre is included in the registration fee. Please indicate if you will be likely to attend.

Yes

No

NON-BTS MEMBERS

If you are not a BTS member, please indicate your professional status/job title here:

PAYMENTS

GRAND TOTAL ENCLOSED £

PAYMENT BY CHEQUE

Please send your cheque* with your Registration Form, for the above amount made payable to:

THE BRITISH THORACIC SOCIETY (not BTS)

* Payment from overseas: If not by credit card, should be by Banker's Draft in London, free of all charges, or by International Money Order.

INVOICES

Invoices will only be issued to Finance Departments and the full address, contact name, telephone number and email address of a contact in the Finance Department must be provided on the booking form. A purchase order number should also be provided.

PAYMENT BY CREDIT CARD

Please debit my:

Credit/Debit Card for the above stated amount.

(Complete by filling in which card you are using. The BTS can accept MASTERCARD, VISA, EUROCARD, MAESTRO and SOLO cards).

We cannot accept American Express or Diners Club credit cards or Visa Corporate Purchase cards beginning with 4715 or 4484. These are now in use by some NHS Trusts and companies but BTS is not registered to accept these cards.

NAME (as it appears on the card)

Credit/Debit Card Address

(ie address where all correspondence concerning your credit/debit card is sent, please include house names where relevant)

ADDRESS

POST CODE

COUNTRY

SIGNATURE

DATE

NB: This form **MUST** be signed if payment is by Credit/Debit Card

CARD NUMBER

VALID FROM (MM/YY)

EXPIRY DATE (MM/YY)

ISSUE NUMBER (Maestro cards only)

THREE DIGIT SECURITY CODE (on the reverse of card)

This is mandatory for all types of card

FOR OFFICE USE ONLY
BTS MEMBERSHIP NO:

REGISTRATION NO:

REGISTRATION FORM

BTS WINTER MEETING 2019, 4th to 6th December, QEII Centre, London

BEFORE RETURNING THIS FORM PLEASE CHECK:

- That you have checked the GRAND TOTAL is correct
- If payment is by credit card, that you have SIGNED the form and quoted the correct card number and expiry date. For payments by Maestro, please enter VALID FROM and ISSUE NUMBER information where indicated
- If payment is by cheque, that this is enclosed

APPLICANT DETAILS

TITLE

FIRST NAME

SURNAME

ADDRESS - Please enter above your preferred mailing address. We recommend this is your home address if this is a late booking.

POST CODE

COUNTRY

DAY TEL

EXT

BLEEP

EMAIL

JOB TITLE

PLACE OF WORK

Category	Please tick	Membership number (if known/applicable)
BTS full member		
BTS overseas member		
BTS concessionary rate member, including fully retired*		
Non BTS member		
BALR member claiming the concessionary rate**		
Non BTS member Postgraduate student claiming the concessionary rate**		

*BTS MEMBER CONCESSIONARY RATE

BTS concessionary rate members are entitled to register at the concessionary rate.

**NON BTS MEMBER CONCESSIONARY RATE

BALR members, PhD students and registered research students are entitled to claim the non BTS member concessionary rate, but proof of BALR membership or a copy of your student registration document must be provided before the concession is allowed. Failure to do so will mean that the concession will not be granted. Bookings must be made by post, fax or scanned-in form, and not on-line. If you do book on-line, we will be unable to refund the difference in cost.

*RETIRED MEMBERS

Retired members who are no longer in sessional employment are **no longer** able to attend free of charge, but can claim the BTS member's concessionary rate. Other BTS members are required to pay the delegate rate that matches their membership fee band.

DAILY CHARGES

CATEGORY	EARLY BIRD	STANDARD
	Before 23:59 on 1 st October 2019	After 23:59 on 1 st October 2019 but before 09:00 on 25 th November 2019
BTS full member	£100.00 per day	£130.00 per day
BTS overseas member	£100.00 per day	£130.00 per day
BTS concessionary rate member, including fully retired	£60.00 per day	£80.00 per day
Non BTS member	£130.00 per day	£160.00 per day
Non BTS member concessionary rate	£80.00 per day	£90.00 per day

On-line booking will be available throughout the Meeting, until 23:59 on Thursday 5th December. After 1st October 2019, standard rates will apply as above. Delegates will still be able to turn up and register on the day(s) of the Meeting that they wish to attend, but in this instance an additional £25.00 administration fee will be payable.

Please note that all bookings received after 09:00 on Monday 25th November, whether made on-line, using the booking form, or at the desk on the day, will be subject to an additional charge of £25.00.

CATERING

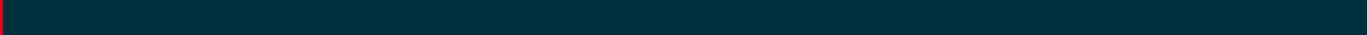
The delegate fee includes coffee/tea and biscuits before the first session each day and at the mid-morning and mid-afternoon breaks (but NOT at lunch time). Lunch will be available at the conference centre on a CASH CATERING BASIS ONLY, with a selection of hot and cold food available to buy throughout each day.



British Thoracic Society

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www.brit-thoracic.org.uk





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