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SMi presents the 11th annual conference on...

Asthma & COPD

Exploring the future of therapeutics,
diagnosis and care

Holiday Inn Regents Park Hotel, London, UK

13 - 14
APRIL
2015

CHAIRS FOR 2015:



• **Sebastian Johnston**, Professor of Respiratory Medicine, **National Heart and Lung Institute, Imperial College London**



• **Robert Niven**, Senior Lecturer in Respiratory Medicine, **Manchester University**

KEY SPEAKERS INCLUDE:



• **Neil C Thomson**, Professor of Respiratory Medicine, **University of Glasgow**



• **Joseph Arron**, Associate Director, Biomarker Discovery, **Genentech, Inc.**



• **Dirk Smith**, Scientific Director, **Amgen**



• **Roland Kolbeck**, Senior Director, Respiratory, Inflammation & Autoimmunity, **MedImmune**



• **Hector Ortega**, Medical Director, Respiratory R&D, **GSK**



• **Maria Buxton**, Consultant Respiratory Physiotherapist, **London North West Healthcare NHS Trust**

BUSINESS BENEFITS FOR 2015:

- Explore the future of asthma and COPD treatment from a range of key perspectives
- Discover advances in inhaled therapies
- Discuss personalised therapy approaches, asthma patient stratification and unmet needs
- Share clinical practice ideas to improve the lives of patients
- Explore the latest thinking on biomarkers and clinical trial endpoints
- Update on mechanisms and treatment for viral induced COPD and asthma exacerbations

PLUS AN INTERACTIVE HALF-DAY POST-CONFERENCE WORKSHOP
Wednesday 15th April 2015, Holiday Inn Regents Park Hotel, London

The power of functional respiratory imaging to define new endpoints
and drive successful respiratory drug development

Workshop Leaders: **Dr. Vos Wim**, Chief Technology Officer, **FLUIDDA**,
Prof. Dr. Wilfried De Backer, Director, Professor of Pulmonary Medicine, **University Hospital and University of Antwerp**
8.30am - 12.30pm

www.asthma-copd.co.uk

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ACADEMIC & GROUP DISCOUNTS AVAILABLE



Asthma & COPD

Day One | Monday 13th April 2015

8.30 Registration & Coffee

9.00 Chairman's Opening Remarks

Sebastian Johnston, Professor of Respiratory Medicine, **National Heart and Lung Institute, Imperial College London**

Asthma Pathways: Lab and Clinic

9.10 OPENING KEYNOTE

Children's asthma treatments are like children's clothes: make sure they fit

- Severe asthma in children is pathophysiologically different to the adult disease
- Before reaching for the monoclonal, think: are the basics right?
- When assessing results: did they CONSORT with the right children
- Planning trials: does the cap fit?

Andrew Bush, Professor of Paediatric Respiriology, **Imperial College London and Royal Brompton Hospital**

9.40 Unravelling mechanisms of asthma exacerbations and implications for the future

- Aetiology of asthma exacerbations
- Deficient antiviral immunity in asthma
- Epithelial immune interactions in asthma exacerbations
- Implications for new therapies

Sebastian Johnston, Professor of Respiratory Medicine, **National Heart and Lung Institute, Imperial College London**

10.10 Morning Coffee

10.40 Is neutrophilic/non-eosinophilic inflammation an appropriate therapeutic target in asthma?

- Which inflammatory phenotype to target: non-eosinophilic, neutrophilic, Th2-low?
- Trials and tribulations with licensed drugs including macrolides for treating neutrophilic/non-eosinophilic asthma
- Novel small molecules for treating neutrophilic/non-eosinophilic asthma
- Potential role for biological agents for treating neutrophilic/non-eosinophilic asthma

Neil C Thomson, Professor of Respiratory Medicine, **University of Glasgow**

11.10 Mechanisms mediating paediatric severe asthma: translational approaches

- Pathology of paediatric severe asthma: inflammation and remodelling
- Steroid responsiveness in severe disease
- Novel therapeutic targets

Sejal Saglani, Reader in Respiratory Paediatrics, **Imperial College London**

11.40 Cytokine regulation of pulmonary inflammation and remodelling in asthma

- Can asthma phenotypes be modelled in vivo?
- Is airway remodelling dependent on inflammation?
- How do genes and environment affect development of pathology?
- Novel therapeutic avenues

Clare Lloyd, Professor of Respiratory Immunology, **Imperial College London**

12.10 Networking Lunch

1.10 PARTNERSHIPS FOCUS

Changing role of patient charities in research - what can we offer?

- Benefits of working with charities to patients and wider society
- What value can patient charities bring to multi-partner collaborations?
- The Asthma UK approach to establishing research partnerships with industry
- Examples of large collaborative research programmes that Asthma UK is involved in and future ways of working

Samantha Walker, Executive Director, Research & Policy, **Asthma UK**

Personalised Therapeutics

1.40 Enabling targeted therapy for severe asthma through molecular phenotyping and biomarker development

- Asthma heterogeneity impacts target, patient, and outcome selection
- A clinically valid biomarker comprises both the thing being measured and the assay used to measure it
- How to prove biomarker selection hypotheses in clinical studies
- Beyond type 2 inflammation: new insights into asthma phenotypes

Joseph Aron, Associate Director, Biomarker Discovery, **Genentech, Inc.**

2.10 New therapeutic approaches for asthma: It's all about the airways

- New biology is emphasizing the importance of the epithelium and innate immune pathways as key orchestrators of asthma-associated pathology
- What clues have genetics provided regarding key pathways and risk factors?
- Asthma is not a single disease- the importance of stratification and biomarkers
- Emerging targets and biomarker approaches from the new science

Dirk Smith, Scientific Director, **Amgen**

2.40 Eosinophilic inflammation and exacerbations of asthma and COPD: A fatal liaison

- Management of acute exacerbations in Asthma and COPD
- The role of eosinophilic inflammation in Asthma and COPD
- Development of monoclonal antibodies for the management of severe Asthma and COPD

Roland Kolbeck, Senior Director, Respiratory, Inflammation & Autoimmunity, **MedImmune**

3.10 Afternoon Tea

3.40 Is the severe asthma phenotype stable?

- Learnings from cluster analyses
- Steroid-resistant phenotype in severe asthma
- Challenges and opportunities in clinical research

Hector Ortega, Medical Director, Respiratory R&D, **GSK**

4.10 The ADEPT study: airways disease endotyping for personalized therapeutics in asthma and COPD

- It's clear not all drugs work in all people; are you surprised?
- Janssen wished to build up an internal database for asthma and COPD to interrogate current and future therapeutic targets
- We recruited 150 asthmatics and 30 healthy controls in PART 1 and 60 COPD and 60 healthy controls in Part 2. Most subjects had bronchoscopies
- We have already gained great insights and the analysis has only just begun!

Philip E Silkoff, Senior Director, Immunology, Pulmonary Disease Area, **Janssen Inc.**

4.40 Chairman's Closing Remarks and Close of Day One

Sebastian Johnston, Professor of Respiratory Medicine, **National Heart and Lung Institute, Imperial College London**

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8.30 Registration & Coffee
Robert Niven, Senior Lecturer in Respiratory Medicine,
Manchester University

9.00 Chairman's Opening Remarks
Sebastian Johnston, Professor of Respiratory Medicine, **National Heart and Lung Institute, Imperial College London**

9.10 ENABLING TECHNOLOGY FOCUS
Always on, always with you. The role of personal technology and the digital economy in respiratory health

- Why will we see increasingly widespread adoption of new personal health technologies?
- There's an app for that: medical "apps" are likely to have a significant role in respiratory health in the future
- Google knows, do you? The trail left by your daily interactions contains valuable health related data
- Discuss examples of smart devices (including smart inhalers) providing information that isn't apparent to healthcare professionals

John Blakey, Senior Clinical Lecturer, **Liverpool School of Tropical Medicine**
James Pinchin, Horizon DERC, **University of Nottingham**

Viruses in Asthma and COPD

9.50 Viruses in asthma and COPD
 • Contribution of viruses to exacerbations in asthma and COPD
 • Mechanisms of virus-induced exacerbations
 • Viral/bacterial co-infection
 • Future developments
Patrick Mallia, Senior Clinical Lecturer, **Imperial College London**

10.20 Development of antivirals for the treatment/prevention of virus induced exacerbations of asthma and COPD
 • Unmet clinical need
 • Target mechanisms: pathogen or host?
 • Therapies in development
 • Future therapeutic options
Phillip Monk, Chief Scientific Officer, **Synairgen**

10.50 Morning Coffee

11.20 Drug development challenges associated with inhaled and intranasal antivirals
 • Device and dosing considerations
 • Indication and patient segmentation
 • Trial setting and endpoints
Staffan Edsbacker, Global Project Director & Associate Professor, **AstraZeneca R&D Mölndal & University of Lund**

11.50 Round Table Discussion: Challenges and choices in stratified asthma therapeutics
 • How many interleukin targeting MABS will be enough?
 • What are the unmet needs in asthma and what is the future for these groups?
Robert Niven, Senior Lecturer in Respiratory Medicine, **Manchester University**



12.30 Networking Lunch

1.30 ENABLING TECHNOLOGY FOCUS
Imaging lung structure and function with hyperpolarised gas MRI

- Outline the role of functional lung imaging with multi-nuclear MRI in obstructive airways disease
- Emphasise the sensitivity of novel MRI methods to early lung disease
- Demonstrate the application of the methods in assessment of novel respiratory therapeutics

Jim Wild, Professor of Magnetic Resonance Physics, **University of Sheffield**

COPD: Present and Future

2.00 Ceramide 1-phosphate (C1P), a potential new therapeutic target for COPD

- C1P reduces lung inflammation
- C1P promotes cell growth, survival and migration
- The mechanism whereby C1P exerts its anti-inflammatory actions involve inhibition of sphingomyelinase and serine palmitoyl transferase activities, reduction of pro-inflammatory cytokines, and inhibition of NF-κB
- C1P analogs are promising tools for developing new strategies to treat COPD

Antonio Gomez-Munoz, Professor of Biochemistry and Molecular Biology, **University of the Basque Country**

2.30 RPL554 as a novel treatment for severe COPD
 • Unmet medical need in COPD
 • RPL554 as a treatment of COPD exacerbations
 • Additional potential indications for RPL554
Jan-Anders Karlsson, CEO, **Verona Pharma**

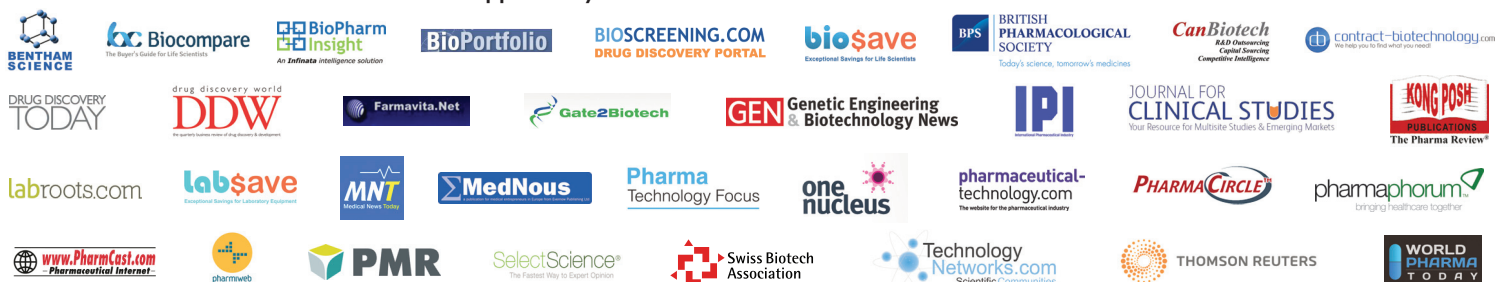
3.00 Afternoon Tea

3.30 Pulmonary rehabilitation in the real world
 • Research vs Real Life
 • Drop out – is there an answer?
 • Mapping PR in London
 • Commissioning PR
Maria Buxton, Consultant Respiratory Physiotherapist, **London North West Healthcare NHS Trust**

4.00 CLOSING ADDRESS
COPD: Unmet need and challenges in NHS Care
 • What are the key areas of unmet clinical need for COPD clinical care?
 • What are the barriers to access for new drugs in current NHS practice?
 • Who is prescribing new drugs in the NHS?
 • Which aspects of COPD urgently require new pharmaceutical approaches?
John Hurst, Consultant in Respiratory Medicine, **University College London**

4.30 Chairman's Closing Remarks and Close of Day Two
Robert Niven, Senior Lecturer in Respiratory Medicine, **Manchester University**

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HALF-DAY POST-CONFERENCE AM WORKSHOP

Wednesday 15th April 2015

8.30am - 12.30pm

Holiday Inn Regents Park Hotel, London, UK

The power of functional respiratory imaging to define new endpoints and drive successful respiratory drug development

Workshop Leaders:

Dr. Vos Wim, Chief Technology Officer, **FLUIDDA**,

Prof. Dr. Wilfried De Backer, Director, Professor of Pulmonary Medicine, **University Hospital and University of Antwerp**

Overview of workshop:

This workshop focusses on overcoming the difficulties that companies face when registering new respiratory drugs. It demonstrates that functional respiratory imaging is able to provide new detailed insights and clear performance measures that can be vital for a successful outcome of the drug development process.

You should attend if you are interested in the potential of sensitive innovative endpoints to provide decisions making process in the early and clinical development phases of a device or drug to improve commercial outcomes

Who should attend this workshop:

- Decision makers in the development trajectory for respiratory drugs
- Individuals interested in alternative outcome parameters in respiratory medicine

Programme:

8.30 Registration and coffee

9.00 Opening remarks

9.15 The current development trajectory of respiratory drugs

10.15 Functional respiratory imaging (FRI)

10.45 Coffee break

11.15 The current status of FRI

- Scientific evidence
- Regulatory standpoint

11.45 Future perspectives of FRI

- Drug development
- Clinical practice

12.15 Closing remarks

12.30 End of workshop

About the host:

Wim Vos is the CTO of FLUIDDA. Over the last 10 years he has been responsible for the development of functional imaging based outcome parameters in respiratory drug development. He is author of over 25 journal publications and over 100 conference abstracts.

Wilfried De Backer is the director of the department of pulmonary medicine at the University Hospital and full professor at the University of Antwerp. He also served as an expert for EMA and was head of the clinical physiology, sleep and pulmonary circulation assembly at ERS. He is author of numerous books and publications and is considered an authority in his field.

About the organisation:

FLUIDDA is the leading R&D company in the field of quantitative image analysis for respiratory diseases. Its proprietary FRI technology offers a unique entry point into personalized medicine by providing patient specific imaging biomarkers. Implementing FRI in early clinical research results in a cost-effective and time-saving screening of the most promising respiratory drugs.



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Pharmaceutical Microbiology

21st – 22nd January 2015
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Social Media in the Pharma Industry

21st – 22nd January 2015
Marriott Regents Park, London

Pre Filled Syringes

28th – 29th January 2015
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FEBRUARY

Parallel Trade

9th – 10th February 2015
Holiday Inn Regents Park, London

Advances and Progress in Drug Design

16th – 17th February 2015
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RNAi Therapeutics

16th – 17th February 2015
Marriott Regents Park, London

MARCH

**Superbugs & Superdrugs – A focus on
Antibacterials**

25th – 26th March 2015
Holiday Inn Regents Park, London

Paediatric Clinical Trials

25th – 26th March
Holiday Inn Regents Park, London

APRIL

Asthma & COPD

13th – 14th April 2015
Holiday Inn Regents Park, London

Adaptive Designs

20th – 21st April 2015, London

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27th – 28th April 2015, Iselin, USA

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29th – 30th April 2015, Iselin, USA

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