

*16<sup>th</sup> Annual Meakins-Christie - McGill University  
International Workshop in collaboration with the  
American Thoracic Society and the  
Gulf Thoracic Society*



*Grand Hyatt - DUBAI*

**ADVANCES IN THE PATHOGENESIS AND  
MANAGEMENT OF ASTHMA AND COPD**

March 14-15, 2014

**Grand Hyatt Dubai Hotel  
Sheikh Rashid Rd  
Dubai, UAE  
Tel: 971-4-317-1234**

*Host: Dr. Outayba Hamid  
Coordinators: Maria Makroyanni and Angie Bentivegna*

## SPEAKERS

Dr. Mohamed Al Ghobain, KSA  
Dr. Ashraf H. Al Zaabi, UAE  
Dr. Yassine Amrani, UK  
Dr. Carolyn Baglole, CANADA  
Dr. Peter J. Barnes, UK  
Dr. Lisa Cameron, CANADA  
Dr. Jamila Chakir, CANADA  
Dr. Kian Fan Chang, UK  
Dr. Marie-Louise Coussa-Koniski, LEBANON  
Dr. Gerard P. Cox, CANADA  
Dr. Ronald Dandurand, CANADA  
Dr. Maziar Divangahi, CANADA  
Dr. Raed Dweik, USA  
Dr. David H. Eidelman, CANADA  
Dr. Leonardo Fabbri, ITALY  
Dr. Thomas Ferkol, USA  
Dr. Patricia W. Finn, USA  
Dr. Elizabeth Fixman, CANADA  
Dr. David Gozal, USA  
Dr. Angela Haczku, USA  
Dr. Outayba Hamid, CANADA  
Dr. Nicola Hanania, USA  
Dr. Feras Hawari, JORDAN  
Dr. Sabah N.A. Hussain, CANADA  
Dr. Majdy M. Idrees, KSA  
Dr. Nizar Jarjour, USA  
Dr. Jill Johnson, UK  
Dr. Margaret Kelly, CANADA  
Dr. Leila Kheirandish-Gozal, USA  
Dr. Darryl Knight, AUSTRALIA  
Dr. Martin Kolb, CANADA  
Dr. Catherine Laprise, CANADA  
Dr. Mark Larché, CANADA  
Dr. Anne-Marie Lauzon, CANADA  
Dr. Jean-Pierre Lavoie, CANADA  
Dr. Richard Leigh, CANADA  
Dr. James G. Martin, CANADA  
Dr. Irvin Mayers, CANADA  
Dr. Christine McCusker, CANADA  
Dr. Atul Malhotra, USA  
Dr. Shigeo Muro, JAPAN  
Dr. Parameswaran Nair, CANADA  
Dr. Paul O'Byrne, CANADA  
Dr. Ronald Olivenstein, CANADA  
Dr. Petr Panzner, CZECH REPUBLIC  
Dr. David Perkins, USA  
Dr. Marc Peters-Golden, USA  
Dr. Basil Petrof, CANADA  
Dr. Giovanni Piedimonte, USA  
Dr. William S. Powell, CANADA  
Dr. David Proud, CANADA  
Renata Rea, CANADA  
Dr. Robert Schellenberg, CANADA  
Dr. Peter D. Sly, AUSTRALIA  
Dr. Abdelilah Soussi Gounni, CANADA  
Dr. Martin Stämpfli, CANADA E  
Dr. Anne Tscopoulos, FRANCE  
Dr. Meri K. Tulic, FRANCE  
Dr. Harissios Vliagoftis, CANADA  
Dr. Marsha Wills-Karp, USA  
Dr. Sun Ying, UK  
Dr. Tao Zheng, USA  
Dr. Zhou Zhu, USA

## FRIDAY, MARCH 14, 2014

7:30 am REGISTRATION

### M-1: Plenary Challenges in the Diagnosis and Management of Asthma - Baniyas 2 Hall

Chairs: Drs. Patricia Finn and Mohamed Al Hajaj (Saudi Arabia)

8:30 AM Changing concept of asthma pathophysiology  
*Dr. Qutayba Hamid*

8:55 AM Challenges in asthma diagnosis and role of biomarkers  
*Dr. Parameswaran Nair*

9:20 AM Challenges in current management of asthma: Do we need new therapies?  
*Dr. Paul O'Byrne*

9:45 AM Asthma in the Middle East: What are the challenges?  
*Dr. Majdy M. Idrees*

10:10 AM **COFFEE BREAK**

### M-2: Asthma Co-morbidities: Impact on Management - Baniyas 2 Hall

Chairs: Drs. Basil Petrof and Bassam Mahboub

10:30 AM Asthma and obesity  
*Dr. James G. Martin*

10:55 AM Asthma and sleep apnea  
*Dr. Atul Malhotra*

11:20 AM Asthma in the elderly  
*Dr. Nizar Jarjour*

### M-3: Basic Research in Asthma - Alameera 3 Hall

Chair: Dr. Qutayba Hamid

10:30 AM Eosinophil activation loci and total serum IgE concentration: An epigenome-wide association study  
*Dr. Catherine Laprise*

## FRIDAY, MARCH 14, 2014

- 10:50 AM Non-invasive assessment of airway dynamics in early life  
*Dr. Peter D. Sly*
- 11:10 AM Th2 cells: Key to severe asthma  
*Dr. Lisa Cameron*
- 11:30 AM Vertical transmission of respiratory viruses. A new paradigm for childhood asthma  
*Dr. Giovanni Piedimonte*
- 11:50 AM Gut-residing bacteria regulate IL-17A-dependent exacerbation of asthma  
*Dr. Marsha Wills-Karp*
- 12:10 PM MicroARNs and regulation of airway epithelium in severe asthma  
*Dr. Jamila Chakir*
- 12:35 PM **LUNCH**

### M-4: Phenotypes and Personalized Medicine in Asthma- **Baniyas 2 Hall**

Chairs: **Drs. David Eidelman and Kheder Al Zahrani (KSA)**

- 1:30 PM Immunological phenotypes  
*Dr. Patricia W. Finn*
- 1:55 PM Clinical phenotypes  
*Dr. Richard Leigh*
- 2:20 PM Severe asthma: Is it a distinct phenotype?  
*Dr. Kian Fan Chung*
- 2:45 PM Tailoring asthma therapy  
*Dr. Paul O'Byrne*
- 3:10 PM All that wheezes isn't asthma  
*Dr. Robert Schellenberg*

## FRIDAY, MARCH 14, 2014

### M-5: Basic Research in Asthma - Remodeling - Alameera 3 Hall

Chair: Dr. Mara Ludwig

- 1:30 PM            Pericytes: A new player in airway remodeling  
*Dr. Jill Johnson*
- 1:50 PM            Smooth muscle-myofibroblast transition in asthma  
*Dr. Margaret Kelly*
- 2:10 PM            Modulation of the fast (+)insert SMMHC in the central and peripheral equine asthmatic airways  
*Dr. Jean-Pierre Lavoie*
- 2:30 PM            Smooth muscle mechanics in airway hyperresponsiveness and asthma  
*Dr. Anne-Marie Lauzon*
- 2:50 PM            Rhinovirus infection of airway epithelium facilitates airway smooth muscle migration  
*Dr. Richard Leigh*
- 3:10 PM            What does innate immunity, differentiation and fibrosis have in common? Clues from the multifunctional protein p300  
*Dr. Darryl Knight*
- 3:35 PM            **COFFEE BREAK**

### M-6: Asthma and COPD: Similarities and Differences - Baniyas 2 Hall

Chairs: Drs. Paul O'Byrne and Abdulla Al Mubeireek (KSA)

- 4:00 PM            Physiology overlap  
*Dr. David H. Eidelman*
- 4:25 PM            Pathophysiology overlap  
*Dr. Peter J. Barnes*
- 4:50 PM            COPD: A cardiometabolic disorder?  
*Dr. Leonardo Fabbri*

## FRIDAY, MARCH 14, 2014

5:15 PM Treating patients with the overlap syndrome  
*Dr. Ronald Olivenstein*

### M-7: Basic Research in Lung Infection - Alameera 3 Hall

Chair: *Dr. David Proud*

4:00 PM Eicosanoids and pulmonary infectious diseases  
*Dr. Maziar Divangahi*

4:20 PM Influenza-induced pulmonary pathology is mitigated by STAT6-IP treatment  
*Dr. Christine McCusker*

4:40 PM TBC  
*Dr. Salman Qureshi*

5:00 PM Role of rhinoviruses in asthma: An update  
*Dr. David Proud*

5:20 PM Regulation of immune function at gut interface: Identification of factors required for prevention of allergic and gastrointestinal disease in humans  
*Dr. Meri K. Tulic*

5:40 PM CCR2 and TLR4 reveal the importance of innate immunity in dystrophic diaphragm pathology  
*Dr. Basil Petrof*

7:00 PM **DINNER**

## SATURDAY, MARCH 15, 2014

### M-8: Novel Concepts in the Diagnosis and Management of COPD - Baniyas 2 Hall

Chairs: Drs. Gerard Cox and Sulaiman Al Majed (KSA)

- 8:30 AM COPD phenotypes  
*Dr. Nicola Hanania*
- 8:55 AM Classic and contemporary COPD phenotypes in community practice  
*Dr. Ronald Dandurand*
- 9:20 AM Are there any new therapies for COPD in the pipeline?  
*Dr. Peter J. Barnes*
- 9:45 AM COPD in the Gulf region: The disease of the future?  
*Dr. Ashraf H. Zaabi*

### M-9: Basic Research in COPD - Alameera 3 Hall

Chair: Dr. Richard Leigh

- 8:30 AM Aryl hydrocarbon receptor-dependent retention of nuclear HuR suppresses cigarette smoke-induced inflammation  
*Dr. Carolyn Baglole*
- 8:50 AM Novel aspects of skeletal muscle dysfunction in COPD patients  
*Dr. Sabah N.A. Hussain*
- 9:10 AM Mechanisms of cigarette smoke-induced immune subversion and restitution  
*Dr. Martin Stämpfli*
- 9:30 AM Emphysema progression assessed by quantitative CT analysis in Japanese COPD patients  
*Dr. Shigeo Muro*
- 9:50 AM The breathe study  
*Dr. Marie-Louise Coussa-Koniski*
- 10:15 AM **COFFEE BREAK**

## SATURDAY, MARCH 15, 2014

### M-10: Management of COPD - Baniyas 2 Hall

Chairs: Drs. Parameswaran Nair and Ibrahim Janahi (Qatar)

- 10:45 AM Can we predict and prevent exacerbations?  
*Dr. Nicola Hanania*
- 11:10 AM Exacerbations of respiratory symptoms in patients with COPD may not be exacerbations of COPD  
*Dr. Leonardo Fabbri*
- 11:35 AM Smoking cessation program in the Middle East  
*Dr. Feras Hawari*
- 12:00 PM The bold study: The latest in COPD epidemiology in the region  
*Dr. Mohamed Al Ghobain*

### M-11: Potential Therapies in Asthma and COPD - Alameera 3 Hall

Chair: Dr. Meri Tulic

- 10:45 AM Semaphorin-3E as a novel therapeutic target in allergic asthma  
*Dr. Abdelilah Soussi Gounni*
- 11:05 AM Role of PGE2-EP2 axis in allergic airway inflammation and remodeling  
*Dr. Marc Peters-Golden*
- 11:25 AM Reciprocal interactions between IL-13 and IL-17 in the lung  
*Dr. Elizabeth Fixman*
- 11:45 AM Kca3.1 channels: A novel insight into the mechanisms regulating steroid insensitivity in asthma  
*Dr. Yassine Amrani*
- 12:05 PM Selective antagonists targeting the eosinophil chemoattractant 5-oxo-EETE  
*Dr. William S. Powell*
- 12:25 PM Immunomodulation of allergic diseases  
*Dr. Mark Larché*
- 1:00 PM **LUNCH**



## SATURDAY, MARCH 15, 2014

### M-12: Basic Research in Asthma - Alameera 3 Hall

Chair: Dr. Sabah Hussain

- 2:00 PM Regulation of protease-activated receptor-2 expression on the airway epithelium: Role in asthma  
*Dr. Harissios Vliagoftis*
- 2:20 PM CCL17 production by dendritic cells is required for NOD1-mediated exacerbation of allergic asthma  
*Dr. Anne Tsicopoulos*
- 2:40 PM Phosphatase SHP-1 regulation of pulmonary granulomatous disease  
*Dr. Zhou Zhu*
- 3:00 PM Abnormal lung matrix: Cause or consequence of pulmonary fibrosis?  
*Dr. Martin Kolb*
- 3:20 PM Microbiome of the lung  
*Dr. David Perkins*
- 3:40 PM **COFFEE BREAK**

### M-13: Controversies in Asthma and COPD: Make up your Mind! - Baniyas 2 Hall

Chairs: Drs. Peter Barnes and Fatma Al Huraish (Kuwait)

- 3:40 PM Nitric oxide: Measurement in asthma: Is it a valid tool?  
*Dr. Raed Dweik*
- 4:00 PM Thermoplasty: Is it really an effective treatment? Do we need to do more research before we introduce it to our practice?  
*Dr. Gerard P. Cox*
- 4:25 PM Education in asthma and COPD: Why did we fail? How practical to introduce?  
*Renata Rea*

## SATURDAY, MARCH 15, 2014

### M-14: Basic Mechanism of Asthma - Alameera 3 Hall

Chair: Dr. Maziar Divangahi

- 4:25 PM            Group 2 innate lymphoid (ILC2) cells mediate ozone-induced exacerbation of allergic airway inflammation  
*Dr. Angela Haczku*
- 4:50 PM            The atopic march: Progression from eczema to asthma  
*Dr. Tao Zheng*
- 5:15 PM            Dynamic characteristics of IL-25-induced airways inflammation and remodeling: Comparison with classic murine model of asthma  
*Dr. Sun Ying*
- 5:40 PM            Closing Remarks  
*Dr. Qutayba Hamid*



*Organized by the  
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