16th Annual Meakins-Christie - McGill University
International Workshop in collaboration with the
American Thoracic Society and the
Gulf Thoracic Society

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. Qutayba Hamid
Coordinators: Maria Makroyanni and Angie Bentivegna
SPEAKERS

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


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

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 PM</td>
<td>Immunological phenotypes</td>
<td>Dr. Patricia W. Finn</td>
</tr>
<tr>
<td>1:55 PM</td>
<td>Clinical phenotypes</td>
<td>Dr. Richard Leigh</td>
</tr>
<tr>
<td>2:20 PM</td>
<td>Severe asthma: Is it a distinct phenotype?</td>
<td>Dr. Kian Fan Chung</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Tailoring asthma therapy</td>
<td>Dr. Paul O’Byrne</td>
</tr>
<tr>
<td>3:10 PM</td>
<td>All that wheezes isn’t asthma</td>
<td>Dr. Robert Schellenberg</td>
</tr>
</tbody>
</table>
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
### M-8: Novel Concepts in the Diagnosis and Management of COPD - Baniyas 2 Hall

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>COPD phenotypes</td>
<td><em>Dr. Nicola Hanania</em></td>
</tr>
<tr>
<td>8:55 AM</td>
<td>Classic and contemporary COPD phenotypes in community practice</td>
<td><em>Dr. Ronald Dandurand</em></td>
</tr>
<tr>
<td>9:20 AM</td>
<td>Are there any new therapies for COPD in the pipeline?</td>
<td><em>Dr. Peter J. Barnes</em></td>
</tr>
<tr>
<td>9:45 AM</td>
<td>COPD in the Gulf region: The disease of the future?</td>
<td><em>Dr. Ashraf H. Zaabi</em></td>
</tr>
</tbody>
</table>

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

**Chair:** Dr. Richard Leigh

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Aryl hydrocarbon receptor-dependent retention of nuclear HuR suppresses cigarette smoke-induced inflammation</td>
<td><em>Dr. Carolyn Baglole</em></td>
</tr>
<tr>
<td>8:50 AM</td>
<td>Novel aspects of skeletal muscle dysfunction in COPD patients</td>
<td><em>Dr. Sabah N.A. Hussain</em></td>
</tr>
<tr>
<td>9:10 AM</td>
<td>Mechanisms of cigarette smoke-induced immune subversion and restitution</td>
<td><em>Dr. Martin Stämpfli</em></td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Emphysema progression assessed by quantitative CT analysis in Japanese COPD patients</td>
<td><em>Dr. Shigeo Muro</em></td>
</tr>
<tr>
<td>9:50 AM</td>
<td>The breathe study</td>
<td><em>Dr. Marie-Louise Coussa-Koniski</em></td>
</tr>
<tr>
<td>10:15 AM</td>
<td><strong>COFFEE BREAK</strong></td>
<td></td>
</tr>
</tbody>
</table>
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-ETE
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 Meakins-Christie Laboratories of the McGill University Health Centre - Research Institute in collaboration with the Gulf Thoracic Society and the American Thoracic Society
WE GRATEFULLY ACKNOWLEDGE THE GENEROUS SUPPORT OF:

Research Institute of the McGill University Health Centre (RI-MUHC)

Meakins-Christie Laboratories

Gulf Thoracic Society

Almirall Laboratories