### DAY 1 - Healthcare community

**May 3, 2018**  
**Pre-Conference Medical Education Symposium on ME/CFS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00-7:55</td>
<td>Registration &amp; Continental Breakfast</td>
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<tr>
<td>7:55-8:00</td>
<td>Welcome Address</td>
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<td><strong>Morris Duhaime, MD</strong>, Conference Chair</td>
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#### Session 1  
**ME/CFS: Spectrum of a Complex and Chronic Disease**  
[Amphitheatre 250]

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<tr>
<th>Time</th>
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</table>
| 8:00-08:40    | *Review of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome for Clinicians*  
**Alison C. Bested, MD, FRCP(C)**, Clinical Director, Institute for Neuro-Immune Medicine, Nova Southeastern University, Fort Lauderdale, Florida, USA |
| 8:40-9:20     | *Brain Imaging and How to Examine a Prospective ME/CFS Patient*  
**Byron Hyde, MD**, Nightingale Research Foundation, Ottawa, ON, Canada |
| 9:20-10:00    | *Orthostatic Intolerance in ME/CFS*  
**Peter C. Rowe, MD**, Director, Children's Center Chronic Fatigue Clinic, John-Hopkins University, Baltimore, MD, USA |
| 10:00-10:15   | Break                                                                |
| 10:15-10:55   | *ME/CFS: Central Sensitivity Syndromes and the Complex Chronic Diseases Program at BC Women's Hospital*  
**Ric Arseneau, MD, FRCP(C), MA(Ed), MBA, FACP, CGP**, Clinical Associate Professor Division of General Internal Medicine St. Paul's Hospital, Women's Hospital University of British Columbia, BC, Canada |
| 10:55-11:35   | *Objective Diagnosis of ME/CFS*  
**Lucinda Bateman, MD**, Founder and Medical Director, Bateman Horne Center Salt Lake City, UT, USA |
| 11:35-12:15   | *Peripheral and Central Mechanisms of Chronic Fatigue Syndrome*  
**Roland Staud, MD**, Professor of Medicine, University of Florida, FL, USA |
| 12:15-13:15   | Lunch *(Meditation session available from 12:45 to 13:10 in the Conference room)* |

#### Session 2  
**How to Differentiate and Manage ME/CFS**  
[Amphitheatre 250]

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<thead>
<tr>
<th>Time</th>
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</table>
| 13:15-13:55   | *Differentiating ME/CFS from Psychiatric Disorders*  
**Eleanor Stein, MD, FRCP(C)**, Calgary, AB, Canada |
| 13:55-14:35   | *Management of Pediatric ME/CFS*  
**Peter C. Rowe, MD**, Director, Children's Center Chronic Fatigue Clinic, John-Hopkins University, Baltimore, MD, USA |
| 14:35-15:15   | *What do we Learn About ME/CFS From a Cardiopulmonary Exercise Test?*  
**Betsy Keller, PhD**, Professor, Department of Exercise and Sport Sciences, Ithaca College, Ithaca, NY, USA |
| 15:15-15:30   | Break                                                                |
| 15:30-16:10   | *Diagnostic Dilemmas: Etiology and Treatment of the Fatigued Patient*  
**Riina I. Bray, BASc, MSc, MD, FCFP, MHSc**, Medical Director, Environmental Health Clinic, Women’s College Hospital, Toronto, ON, Canada |
| 16:10-16:50   | *ME/CFS Pharmacotherapies and Drug Interactions*  
**Kevin Mejo, BPharm**, Montreal, QC, Canada |
Montreal, May 3 – 5, 2018
ME/CFS Canadian Collaborative Team Conference
Advancing an International Research Agenda to Address ME/CFS Research Priorities: From Basic Research to Clinical Practice

16:50-17:00  Closing Remarks
Alain Moreau, PhD, Chair, Scientific Committee, Professor, Université de Montréal, QC, Canada

17:00-19:00  Cocktail [Atrium]

**Session 2B  13:15 – 17:00  [Amphitheatre 125]**

Pre-Conference Workshop on Meeting Unmet Needs Organized by the National ME/FM Action Network
*Participation in the Workshop is open to anyone interested in discussing how services could be delivered to people with ME/CFS and related illnesses in the years to come.*

**DAY 2 – Healthcare community and patients**

**May 4, 2018  ME/CFS Canadian Collaborative Team Conference: From Basic Research to Clinical Practice**

7:00-8:00  Registration & Continental Breakfast

8:00-8:30  Opening Remarks
[Amphitheatre 250]

8:30-9:00  Plenary Lecture 1: A Short History of ME and CFS
**Byron Hyde, MD**, Nightingale Research Foundation, Ottawa, ON, Canada
[Amphitheatre 250]

9:00-9:30  Plenary Lecture 2: The Future of ME/CFS Research in the Multi-omic and Big Data Era
**Ronald Davis, PhD**, Director Stanford Genome Centre, Stanford University, Palo Alto, CA, USA
[Amphitheatre 250]

9:30-9:45  Breakout to reach concurrent sessions:
- Session A for researchers in Amphitheatre 125
- Session B for ME/CFS patients in Amphitheatre 250

**Session 1A  Genetics, Genomics and Epigenetics**
[Amphitheatre 125]

09:45-10:05  *The Epigenetic Landscape of ME/CFS: Deciphering Complex Phenotypes*
**Patrick O. McGowan, PhD**, University of Toronto, ON, Canada

10:05-10:25  *An Integrative, Molecular, Data and Technology-Driven Approach to ME/CFS*
**Ronald Davis, PhD**, Director, Stanford Genome Center, Stanford University, Palo Alto, CA, USA

10:25-10:45  *Genetic and Nutriepigenetic Regulation of Plasma Homocysteine Levels in ME/CFS*
**Alain Moreau, PhD**, Université de Montréal, QC, Canada

10:45-11:05  *Cultivating Change: Leveraging Epigenetics via Lifestyle Modification: An Integrative Multidisciplinary Treatment Model in ME/CFS*
**Alexis Goth, MD, and Tara Sampalli, PhD**, Integrated Chronic Care Service in Primary Health Care at the Nova Scotia Health Authority, NS, Canada

11:05-11:20  Break
### Session 2A  Biochemistry, Metabolomics and Proteomics

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<thead>
<tr>
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<tbody>
<tr>
<td>11:20-11:40</td>
<td>Metabolism in ME/CFS</td>
<td>Maureen Hanson, MD, Cornell University, NY, USA</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>The Biochemistry to Support the Evidence of Neuroinflammatory Involvement in ME/CFS</td>
<td>Jonas Bergquist, MD, PhD, Uppsala University, Sweden</td>
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<tr>
<td>12:00-12:20</td>
<td>Cellular Bioenergetics is Impaired in Patients with ME/CFS</td>
<td>Cara Tomas, PhD candidate, Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, UK</td>
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<tr>
<td>12:20-12:40</td>
<td>Connective Tissue Laxity and Adverse Neural Tension in ME/CFS</td>
<td>Peter C. Rowe, MD, Director, Children’s Center Chronic Fatigue Clinic, John-Hopkins University, Baltimore, MD, USA</td>
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<tr>
<td>12:40-13:40</td>
<td>Lunch</td>
<td>(Meditation session available from 13:05 to 13:35 in the Conference room)</td>
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### Session 3A  Infection, Immunity and Clinical Research

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<tbody>
<tr>
<td>13:40-14:00</td>
<td>Diagnosis of ME/CFS: Can Immune Modulators Play a Role?</td>
<td>Amir Landi, MD, PhD, University of Alberta, Edmonton, AB, Canada</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Epidemiological and Clinical Research in ME/CFS: How can they Support Hypothesis Generation and Testing?</td>
<td>Luis Nacul, MD, PhD, Faculty of Infectious and Tropical Diseases, CURE-ME Team, London School of Hygiene and Tropical Medicine Disability and Eye Health Group, UK</td>
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<tr>
<td>14:20-14:40</td>
<td>Clinical Trial on Immunoabsorption in ME/CFS</td>
<td>Carmen Scheibenbogen, MD, Professor and Deputy Chair, Institute of Medical Immunology, Charité – Universitätsmedizin, Berlin, Germany</td>
</tr>
<tr>
<td>14:40-15:00</td>
<td>Fine-tuned interaction between human immune system and gut microbiota: potential impact on ME/CFS</td>
<td>Derya Unutmaz, MD, The Jackson Laboratory, Farmington, CT, USA</td>
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<td>15:00-15:15</td>
<td>Break</td>
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### Session 4A  Biomarkers, Biobanking, and Clinical Trials – Part 1

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<tr>
<td>15:15-15:35</td>
<td>The EUROMENE Biomarker Project</td>
<td>Carmen Scheibenbogen, MD, Professor and Deputy Chair, Institute of Medical Immunology, Charité – Universitätsmedizin, Berlin, Germany</td>
</tr>
<tr>
<td>15:35-15:55</td>
<td>Cerebral Blood Flow and Functional Connectivity in ME/CFS</td>
<td>Roland Staud, MD, Professor of Medicine, University of Florida, FL, USA</td>
</tr>
<tr>
<td>15:55-16:15</td>
<td>UK ME/CFS Biobank: A Resource for International Research</td>
<td>Luis Nacul, MD, PhD, Faculty of Infectious and Tropical Diseases, CURE-ME Team, London School of Hygiene and Tropical Medicine Disability and Eye Health Group, UK</td>
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### Session 4A  Biomarkers, Biobanking, and Clinical Trials – Part 2

**[Amphitheatre 250]**

<table>
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<tr>
<td>16:15-16:35</td>
<td>Australian ME/CFS Databases and Biobanks: The Down Under Experience</td>
<td>Chris Armstrong, BSc, Researcher, University of Melbourne, Bio21 Molecular Science and Biotechnology Institute, Department of Biochemistry and Molecular Biology, Melbourne, Australia</td>
</tr>
<tr>
<td>16:35-16:55</td>
<td>From Biomarkers and modeling to implemented targeted clinical trials: Comparison between Gulf War Illness and ME/CFS</td>
<td>Nancy Klimas, MD, Director, Institute for Neuro-Immune Medicine, Dr Kiran C Patel College of Osteopathic Medicine, Nova Southeastern University and Director of Environmental Medicine, Miami VA Medical Center, FL, USA</td>
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### Day 2 – Healthcare community and patients

**May 4, 2018  Addressing Unmet Needs of the ME/CFS Community**

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<tbody>
<tr>
<td>9:45-10:05</td>
<td>Pathophysiological Mechanisms in ME/CFS</td>
<td>Alison C. Bested, MD, FRCP(C), Clinical Director, Institute for Neuro-Immune Medicine, Nova Southeastern University, Fort Lauderdale, Florida, USA</td>
</tr>
<tr>
<td>10:05-10:25</td>
<td>Objective Diagnosis of ME/CFS</td>
<td>Lucinda Bateman, MD, Founder and Medical Director, Bateman Horne Center Salt Lake City, UT, USA</td>
</tr>
<tr>
<td>10:25-10:45</td>
<td>ME/CFS: Could Neuroplasticity Play a Role?</td>
<td>Eleanor Stein, MD, FRCP(C), Calgary, AB, Canada</td>
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<td>10:45-11:05</td>
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<td>11:05-11:20</td>
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### Session 2B  Advancing ME/CFS Research and Treatments

**[Amphitheatre 250]**

<table>
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<tr>
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<tbody>
<tr>
<td>11:20-11:40</td>
<td>ME/CFS Research Landscape in Canada: How can Science/Innovation Address Unmet Needs?</td>
<td>Margaret Parlor, President of the National ME/FM Action Network, Ottawa, ON, Canada</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>Is Heart Rate a Valid Exertional Index in ME/CFS?</td>
<td>Betsy Keller, PhD, Professor, Department of Exercise and Sport Sciences at Ithaca College, Ithaca, NY, USA</td>
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Montreal, May 3 – 5, 2018
ME/CFS Canadian Collaborative Team Conference
Advancing an International Research Agenda to Address ME/CFS Research Priorities: From Basic Research to Clinical Practice

12:00-12:20 Alberta Healthy Living Program: The Role of ME/CFS Education
Eleanor Stein, MD, FRCP(C), Calgary, AB, Canada, Judy-Anne Wilson, representative of Edmonton ME Society and Alison Rae, Board Chair and CEO, Action CIND, ON, Canada

12:20-12:40 Panel Discussion

12:40-13:40 Lunch

Session 2B Panel Discussion: Meet the Experts
[Amphitheatre 250]
Moderator: Raeka Aiyar, PhD, Stanford University and Open Medicine Foundation, Palo Alto, CA, USA

13:40-14:00 Medication and ME
Kevin Mejo, BPharm, Montreal, QC, Canada

14:00-14:20 Nutrition and ME
Speaker TBA

14:20-14:40 Genetics and ME
Speaker TBA

14:40-15:00 Discussion Period

15:00-15:15 Break

15:15-16:15 Panel Discussion: Creating a Transformative Research Agenda for ME/CFS
[Amphitheatre 250]
Moderator: Raeka Aiyar, PhD, Stanford University and Open Medicine Foundation, Palo Alto, CA, USA

Panelists:
• Diane Ching, President, M.E. Society of Edmonton
• Kati Debelic, Board member, ME/FM Myalgic Encephalomyelitis and Fibromyalgia Society of BC, Canada
• Barbara Fifield, Board member, Millions Missing Canada
• Bev Friesen, Chairperson of the Board, Manitoba ME/CFS Support Group, MA, Canada
• Gloria Gray, President, M.E. Victoria Association, BC, Canada
• Carol Head, President and CEO of Solve ME/CFS Initiative
• Kimberly Hicks, Board Member and Treasurer, Open Medicine Foundation, Los Angeles, CA, USA
• Valérie Miller, General Coordinator, Association Québécoise pour l’Encéphalomyélite Myalgique (AQEM), QC, Canada
• Margaret Parlor, President, The National ME/FM Action Network, ON, Canada
• Alison Rae, Board Chair and CEO, Action CIND, ON, Canada
• Elizabeth Sanchez, President, ME/FM Myalgic Encephalomyelitis and Fibromyalgia Society of BC, Canada
• Linda Tannenbaum, CEO/President, Open Medicine Foundation, Los Angeles, CA, USA

Panelists will share their thoughts on how innovation is transforming the ME/CFS research landscape in Canada and abroad for five minutes. Special attention will be given to developing a collaborative, sustainable, and transformative ME/CFS research agenda.

Participants will have the opportunity to interact with panelists to discuss research priorities and the role of patients and advocacy groups in the ME/CFS research ecosystem.

17:35-19:35 Cocktail [Atrium]
Day 3 – Healthcare community
May 5, 2018  Advancing an International ME/CFS Research Agenda

[Amphitheatre 250]

7:00-08:00  Registration & Continental Breakfast

8:00-08:15  Introduction and Objectives, Alain Moreau, PhD, Université de Montréal, QC, Canada
            [BMO Conference Center]
            Context:
            •  Where have we been – where are we going?
            •  Creating a shared vision for the future
            •  Sustaining collaborative research in a competitive landscape
            •  Attracting world-class researchers from other disciplines
            •  Mentoring the next-generation of ME/CFS researchers and clinicians

Session 1  Developing ME/CFS Networks and International Collaboration

[Amphitheatre 250]

Moderator: Raeka Aiyar, PhD, Stanford University and Open Medicine Foundation, Palo Alto, CA, USA

8:15-08:30  Report from the ME/CFS Patient Community about Creating a Transformative Agenda for ME/CFS
            Margaret Parlor, President of the National ME/FM Action Network, Ottawa, ON, Canada

8:30-09:00  The Common Data Element Challenge in Establishing ME/CFS Research Consortia
            Becky McNeil, PhD, Biostatistics and Epidemiology Division, RTI International, Research Triangle Park, NC, USA

9:00-10:30  Roundtable 1
            Moderator: Raeka Aiyar, PhD, Stanford University and Open Medicine Foundation, Palo Alto, CA, USA
            Participants will discuss the creation of a sustainable, collaborative, and transformative ME/CFS research agenda and the strategies to attract more funding through national and international research initiatives as well as to sustain talent development to prepare the next-generation of researchers in this field

10:30-10:45  Break

Session 2  Development of International Working Groups on ME/CFS

[Amphitheatre 250]

10:45-12:20  Roundtable 2
            Moderator: Alain Moreau, PhD, Chair Scientific Committee, Professor, Université de Montréal, QC, Canada
            Participants will discuss the creation of virtual working groups to further develop international research collaboration and interdisciplinary teams.

12:20-12:30  Closing Remarks
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Alain Moreau, PhD, Université de Montréal, QC, Canada