



#BRMEC14

INVEST IN ME RESEARCH

International Biomedical Research into ME Colloquium Agenda



#BRMEC14 PROGRAMME – Day 1 28th May 2025

Arrival Refreshments

08:55	Welcome to <i>BRMEC14</i>	Chair: Simon Carding, Quadram Institute
09:00 Systems Biology and AI: Chair Tamas Korcsmaros, Imperial College London		
09:10	Application of systems biology to Understand complex chronic Diseases	Aurelien Dugourd, Saez-Rodriguez Group, EMBL-EBI
09:30	Disease Map concept and its application for COVID and other complex conditions	Anna Niarakis, Université de Toulouse III-Paul Sabatier - CNRS
09:55	Mapping cell-cell communication and its changes upon inflammation and infection.	Marton Olbei, <i>Imperial College London</i>
10:15	<i>Discussion</i>	<i>Chaired Discussion</i>

10:35 BREAK

11:05 Genomics: Chair Simon Carding

11:10	Preliminary results from DeCodeME project	Chris Ponting, University of Edinburgh
11:35	An association study of NK cell receptor genes in ME	Marte Viken, University of Oslo
12:00	<i>Discussion</i>	<i>Chaired Discussion</i>
12:10	<i>Poster Presentation Viewing</i>	

12:30 LUNCH

13.30 Molecular Biology: Chair Elisa Oltra, Universidad Catolica de Valencia San Vicente Mártir

13:30	From Discovery to Hope: Novel Insights into Biomarkers and Treatments for ME	Alain Moreau, Université de Montréal / CHU Sainte-Justine
13:55	Boosting cellular defense mechanisms as a treatment for neurodegenerative diseases	Anne Bertolotti, MRC Laboratory of Molecular Biology
14:20	<i>Discussion</i>	<i>Chaired Discussion</i>

14.30 Chronic Infection Aetiology (viral / non viral): Chair David Price, Cardiff University

14:30	Large international study LC-OPTIMIZE	Douglas Fraser, Western University
15:00	Comparative Analysis of Pre-Pandemic ME/CFS and Long COVID Cohorts: Phenotyping Insights and the Sipavibart Monoclonal Antibody Trial	Nancy Klimas, Nova Southeastern University
15:25	<i>Discussion</i>	<i>Chaired Discussion</i>

15:35 BREAK

16:05 Nervous System and Neuroinflammation: Jonas Bergquist, University of Uppsala

16:10	Sensory symptoms in Post-Covid Syndrome (PCS) patients with Pain and Fatigue	Stuart Bevan, Wolfson Centre for Age Related Disease, Kings College London
16:35	Neuro-PET data of post-COVID patients	Denise Visser, University Medical Center Utrecht
17:00	Delineating Clinical Phenotypes and HPA-Axis Dysfunction in ME	Felipe Correa-da-Silva, Netherlands Inst. For Neuroscience
17:25	<i>Chaired discussion</i>	<i>Discussion</i>
17:30	Itaconate modulates immune responses via inhibition of Peroxiredoxin 5	Maxim N. Artyomov / Tomas Paulenda Washington University in St. Louis
18:00	Adjourn and evening dinner for delegates	



#BRMEC14

INVEST IN ME RESEARCH

International Biomedical Research into ME

Colloquium Agenda



#BRMEC14 PROGRAMME – Day 2 29th May 2025

08:15 Arrival Refreshments

08:45	Welcome to <i>BRMEC12 Day 2</i>	Chair: Simon Carding, Quadram Institute
Immune System Primary and Secondary Chair: <i>Eva Untersmayr-Elsenhuber, Medical University of Vienna</i>		
09:00	Chair: Opening	Eva Untersmayr-Elsenhuber
09:05	Impact of viral (SARS-CoV-2) infections on immune cells and insights for ME	Muzlifah Haniffa, Wellcome Sanger Institute
09:35	Immunometabolic Interactions ^[SEP] and PEM	Christian Puta, Friedrich Schiller Univ. Jena
10:00	Inflammatory signaling pathways revealed by cell-free RNA analysis	Maureen Hanson, Cornell University
10:25	<i>Discussion</i>	<i>Chaired Discussion</i>

10:35 BREAK

11:05 **Orthostatic intolerance and autonomic physiology** Chair: *Jos Bosch, University of Amsterdam*

11:10	Cardiopulmonary Exercise Testing and Autonomic Dysfunction in ME	Linda van Campen, Stichting Cardio Zorg
11:30	Autonomic Dysfunction and Syncope Mechanisms in ME/CFS: Clinical Insights and Research Advances	Artur Fedorowski, Karolinska Institutet
11:55	Advancements in Autonomic Neurology: Unraveling Orthostatic Intolerance and Dysautonomia in ME/CFS	Peter Novak, Harvard Medical School
12:20	Models extracting Sympathetic/parasympathetic tone	Mette Olufsen, North Carolina State Univ.
12:45	LUNCH	
13:45	Assessment of ANS Function in Patients with ME/CFS and Post-COVID-19 Presenting with Recurrent Syncope	Branislav Milovanovic, Institute for cardiovascular diseases-Dedinje
14:05	<i>Discussion</i>	<i>Chaired Discussion</i>

14:10 **Metabolomics Body and Cell** Chair: *Rikke Olsen, Aarhus Universitet*

14:10	Mitochondrial Dysfunction in ME: Insights from Metabolomics and Precision Medicine	Chris Armstrong, University of Melbourne
14:35	Exertional Exhaustion (PEM) Evaluated by Effects of Exercise on Cerebrospinal Fluid Metabolomics–Lipidomics and Serine Pathway in ME	James Baraniuk, Georgetown University Medical Centre
15:00	Redox Signaling in Aging and Its Implications for ME/CFS and Long-COVID Research	Helena Cochemé, MRC Laboratory of Medical Sciences
15:25	Metabolic Insights from Invasive Cardiopulmonary Exercise Testing in ME	David Systrom, Harvard Medical School

15:50 BREAK

16:20	Microvascular abnormalities in skeletal muscle	Anouk Slaghekke, Vrije Univ, Amsterdam
16:40	<i>Discussion</i>	<i>Chaired Discussion</i>

16:40 **In vitro Models and Biomarker Discovery** Chair: *Simon Carding*

16:40	iPSC	Elisa Oltra, Universidad Catolica de Valencia
17:00	Organs-on-chips	Emily Jones, Carding Group, Quadram Inst.
17:20	Organoids	Tamas Korcsmaros, Imperial College London
17:40	In silico models	Dezso Modos, Imperial College London
18:00	<i>Discussion</i>	<i>Chaired Discussion</i>