

**Hybrid Conference Programme**

| Start (GMT)                    | Finish (GMT) | Presenter details                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Monday 10 November 2025</b> |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>12:00</b>                   | <b>13:00</b> | <b>Registration, lunch and networking</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 12:45                          |              | Briefing for Keynote & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium                                                                                                                                                                                                                                                                                                                                                              |
| <b>13:00</b>                   | <b>13:10</b> | <b>Welcome</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                |              | <p><b>Wellcome Connecting Science:</b><br/>Nagehan Ramazanoglu Bahadir, Wellcome Connecting Science, UK</p> <p><b>Scientific Programme Committee:</b><br/> <a href="#">Amel Karaa - Massachusetts General Hospital/ Harvard University, USA</a><br/> <a href="#">Nils-Goran Larsson - Karolinska Institute, Sweden</a><br/> <a href="#">Michelangelo Mancuso - University of Pisa, Italy</a><br/> <a href="#">Shamima Rahman - University College London, UK</a> </p> |
| <b>13:10</b>                   | <b>14:00</b> | <b>Keynote speaker</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                |              | <p>Chair: Michelangelo Mancuso - University of Pisa, Italy<br/> Moderator: Nils-Goran Larsson - Karolinska Institute, Sweden</p> <p>Developing therapeutic approaches by restoring mitochondrial quality control<br/> <a href="#">Carolyn Sue, The University of New South Wales, Australia</a> </p>                                                                                                                                                                  |
| 14:00                          | 14:10        | Comfort break                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>14:10</b>                   | <b>15:40</b> | <b>Session 1: New mechanistic treatments</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                |              | <p>Chair: Amel Karaa - Massachusetts General Hospital/ Harvard University, USA<br/> Moderator: Shamima Rahman - University College London, UK</p>                                                                                                                                                                                                                                                                                                                     |
| 14:10                          | 14:40        | <p>Late-onset Thymidine Kinase 2 Deficiency: Clinical Insights, Prognostic Biomarkers, and Pyrimidine Nucleoside Therapy Outcomes<br/> <a href="#">Christina Dominguez Gonzalez, Hospital 12 de Octubre, Spain</a> </p>                                                                                                                                                                                                                                               |
| 14:40                          | 15:10        | <p>Perinatal therapeutic strategies for Surf1-Leigh Syndrome<br/> <a href="#">Dario Brunetti, University of Milan, Italy</a> </p>                                                                                                                                                                                                                                                                                                                                     |
| 15:10                          | 15:25        | <p>Ubiquitin-mediated mitophagy regulates the inheritance of mitochondrial DNA mutations<br/> Michele Frison, University of Cambridge, UK </p>                                                                                                                                                                                                                                                                                                                        |
| 15:25                          | 15:40        | <p>Optimising codon sequence and delivery of an AAV9 gene therapy for deoxyguanosine kinase deficiency in brain and liver<br/> Arianna Fozzato, University College London, UK </p>                                                                                                                                                                                                                                                                                    |
| 15:40                          | 16:20        | Refreshment break and networking                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 16:05                          |              | Briefing for Session 2 speakers, chair & moderator - Auditorium                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>16:20</b>                   | <b>17:50</b> | <b>Session 2: Mitochondria as signalling hubs</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                |              | <p>Chair: Nils-Goran Larsson - Karolinska Institute, Sweden<br/> Moderator: Michelangelo Mancuso - University of Pisa, Italy</p>                                                                                                                                                                                                                                                                                                                                      |
| 16:20                          | 16:50        | <p>Psychobiological Processes in Mitochondrial Diseases<br/> <a href="#">Martin Picard, Columbia University, USA</a> </p>                                                                                                                                                                                                                                                                                                                                             |
| 16:50                          | 17:20        | <p>Modulating Mitochondrial Proteostasis: CLPP in Disease Intervention<br/> <a href="#">Aleksandra Trifunovic, University of Cologne, Germany</a> </p>                                                                                                                                                                                                                                                                                                                |
| 17:20                          | 17:35        | <p>Dissecting Mitochondrial and Synaptic Dysregulation in LHON Using Human iPSC-Derived Retinal Ganglion Cells<br/> Andrea Cavaliere, Neurological Institute "Carlo Besta", Italy </p>                                                                                                                                                                                                                                                                                |
| 17:35                          | 17:50        | <p>Mitochondrial hubs in pontocerebellar hypoplasia type 6: New insights from patient-derived in vitro models<br/> Giorgia Babini, University of Bologna, Italy </p>                                                                                                                                                                                                                                                                                                  |
| <b>17:50</b>                   | <b>18:20</b> | <b>Poster pitch talks for odd number posters</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>18:20</b>                   | <b>19:20</b> | <b>Poster session 1 - odd number posters</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 19:20                          |              | Dinner                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 19:20                          |              | Bar open (card payments only)                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Tuesday 11 November 2025**

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| 09:15        | Briefing for Session 3 speakers, chair & moderator - Auditorium |                                                                                                                                                                                                                                                     |
| <b>09:30</b> | <b>11:00</b>                                                    | <b>Session 3: Role of mitochondria in inflammation and immunity</b>                                                                                                                                                                                 |
|              |                                                                 | Chair: Carolyn Sue, University of South Wales, Sydney, Australia<br>Moderator: Amel Karaa - Massachusetts General Hospital/ Harvard University, USA                                                                                                 |
| 09:30        | 10:00                                                           | Innate immunity and inflammation in mitochondrial disease<br><a href="#">Phillip West, The Jackson Laboratory, USA</a>                                                                                                                              |
| 10:00        | 10:30                                                           | Immunological dysfunction in primary mitochondrial disease<br><a href="#">Shamima Rahman, University College London, UK</a>                                                                                                                         |
| 10:30        | 10:45                                                           | Delineating the neurodegenerative and inflammatory mechanisms underpinning POLG-related mitochondrial epilepsy<br>Laura Smith, Newcastle University, UK                                                                                             |
| 10:45        | 11:00                                                           | Investigating inflammatory and metabolic changes in a mouse model of Leigh syndrome following the removal from hypoxia<br>Elizaveta Olkhova, Northumbria University, UK                                                                             |
| 11:00        | 11:45                                                           | Refreshment break and networking                                                                                                                                                                                                                    |
| 11:30        | Briefing for Session 4 speakers, chair & moderator - Auditorium |                                                                                                                                                                                                                                                     |
| <b>11:45</b> | <b>13:15</b>                                                    | <b>Session 4: New diagnostic technologies</b>                                                                                                                                                                                                       |
|              |                                                                 | Chair: Nils-Göran Larsson - Karolinska Institute, Sweden<br>Moderator: Michelangelo Mancuso - University of Pisa, Italy                                                                                                                             |
| 11:45        | 12:15                                                           | Metabolic proteins in time and space — Insights from single-cell proteomics<br><a href="#">Florian Rosenberger, Karolinska Institute, Sweden</a>                                                                                                    |
| 12:15        | 12:45                                                           | Focusing on mitochondria with super-resolution light microscopy<br><a href="#">Stefan Jakobs, Max Planck Institute for Multidisciplinary Sciences in Göttingen, Germany</a>                                                                         |
| 12:45        | 13:00                                                           | Correlating "MitoPaint", a novel image-based profiling platform for characterising mitochondrial function, with proteomics to reveal drug-protein-functional axes<br>Sarah Franks, University of Oxford, UK                                         |
| 13:00        | 13:15                                                           | Graphene Windows: Innovating Liquid-Phase Electron Microscopy Methods for Mitochondrial Research<br>Katie Beirns, Rosalind Franklin Institute, UK                                                                                                   |
| 13:15        | 14:30                                                           | Lunch and networking                                                                                                                                                                                                                                |
| 14:15        | Briefing for Session 5 speakers, chair & moderator - Auditorium |                                                                                                                                                                                                                                                     |
| <b>14:30</b> | <b>15:45</b>                                                    | <b>Session 5: Aspects of mitochondrial biology and disease</b>                                                                                                                                                                                      |
|              |                                                                 | Chair: Michelangelo Mancuso - University of Pisa, Italy<br>Moderator: Shamima Rahman - University College London, UK                                                                                                                                |
| 14:30        | 14:45                                                           | Ten Years of Next Generation Sequencing: How Genetic Diagnosis and Molecular Epidemiology of Mitochondrial Diseases Have Evolved in Spain<br>Marcello Bellusci, H.12 de Octubre - CIBERER, Spain                                                    |
| 14:45        | 15:00                                                           | Patient perspectives on receiving a diagnosis of primary mitochondrial disease<br>Katie Waller, The Lily Foundation, UK                                                                                                                             |
| 15:00        | 15:15                                                           | Development of a targeted approach for introducing single large-scale mtDNA deletions in vivo<br>Harry Walker, University of Cambridge, UK                                                                                                          |
| 15:15        | 15:30                                                           | Ribonucleotide diphosphate reductase small subunit (RnrS) downregulation in Drosophila post-mitotic neuron cells demonstrated the essential role of the enzyme for Central Nervous System activity<br>Elisa Dell'Anna, University of Bologna, Italy |
| 15:30        | 15:45                                                           | Quantification of mitochondrial complex I deactive/active transition during ischaemia in the murine heart<br>Katherine Hammond, University of Cambridge, UK                                                                                         |
| 15:45        | 16:25                                                           | Refreshment break and networking                                                                                                                                                                                                                    |
| <b>16:25</b> | <b>16:55</b>                                                    | <b>Poster pitch talks for even number posters</b>                                                                                                                                                                                                   |
| <b>16:55</b> | <b>17:55</b>                                                    | <b>Poster session 2 - even number posters</b>                                                                                                                                                                                                       |
| 18:00        | Dinner                                                          |                                                                                                                                                                                                                                                     |
| 18:00        | Bar open (card payments only)                                   |                                                                                                                                                                                                                                                     |

| Wednesday 12 November 2025 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 09:15                      |       | Briefing for Session 6 speakers, panel members, chair & moderator - Auditorium                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 09:30                      | 11:20 | <b>Session 6: Clinical trials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                            |       | Chair: Shamima Rahman - University College London, UK<br>Moderator: Michelangelo Mancuso - University of Pisa, Italy                                                                                                                                                                                                                                                                                                                                                                            |
| 09:30                      | 09:50 | Clinical Trials and Registries in Rare Neurological Diseases: Lessons, Challenges, and Opportunities<br><a href="#">Teresinha Evangelista, The Institute of Myology, France</a>                                                                                                                                                                                                                                                                                                                 |
| 09:50                      | 10:10 | Mitochondrial disease drug development: the saga of sonlicromanol<br><a href="#">Jan Smeitink, Radboud University, Netherlands</a>                                                                                                                                                                                                                                                                                                                                                              |
| 10:10                      | 10:30 | Challenges in development of medicines for in rare neurological diseases<br><a href="#">Violeta Stoyanova-Beninska, European Medicines Agency (EMA), Netherlands</a>                                                                                                                                                                                                                                                                                                                            |
| 10:30                      | 10:50 | Nucleic Acid Therapy for Rare Disease - the current status and future perspectives<br><a href="#">Haiyan Zhou, University College London, UK</a>                                                                                                                                                                                                                                                                                                                                                |
| 10:50                      | 11:05 | Cognitive dissonance: An approach to characterizing and assessing cognitive deficits in primary mitochondrial disease clinical trials<br>Chad Glasser, Tisento Therapeutics, USA (sponsored talk)                                                                                                                                                                                                                                                                                               |
| 11:05                      | 11:35 | <b>Panel discussion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                            |       | Chair: Amel Karaa - Massachusetts General Hospital/ Harvard University, USA<br>Moderator: Michelangelo Mancuso - University of Pisa, Italy<br><br><a href="#">Teresinha Evangelista, The Institute of Myology, France</a><br><a href="#">Jan Smeitink, Radboud University, Netherlands</a><br><a href="#">Violeta Stoyanova-Beninska, European Medicines Agency (EMA), Netherlands</a><br><a href="#">Haiyan Zhou, University College London, UK</a><br>Chad Glasser, Tisento Therapeutics, USA |
| 11:35                      | 12:10 | Refreshment break and networking                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 11:55                      |       | Briefing for Keynote, chair, moderator & committee - Auditorium                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12:05                      | 12:55 | <b>Keynote speaker</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                            |       | Chair: Shamima Rahman - University College London, UK<br>Moderator: Nils-Goran Larsson - Karolinska Institute, Sweden<br><br>Mitochondria in ischaemia reperfusion injury<br><a href="#">Mike Murphy, University of Cambridge, UK</a>                                                                                                                                                                                                                                                           |
| 12:55                      | 13:05 | <b>Closing remarks and prize presentation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                            |       | <b>Scientific Programme Committee:</b><br><a href="#">Amel Karaa - Massachusetts General Hospital/ Harvard University, USA</a><br><a href="#">Nils-Goran Larsson - Karolinska Institute, Sweden</a><br><a href="#">Michelangelo Mancuso - University of Pisa, Italy</a><br><a href="#">Shamima Rahman - University College London, UK</a>                                                                                                                                                       |
| 13:05                      | 14:00 | Lunch and departures                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 14:00                      |       | Coach departures for Stansted and Heathrow airports                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 14:15                      |       | Coach departures for Cambridge train station and city centre                                                                                                                                                                                                                                                                                                                                                                                                                                    |