

# DETAILED CONFERENCE PROGRAM

---

*Thursday September 11, 2025*

---

3:00-5:00      **Conference Check-In and Poster Board Set Up**      Ballroom Foyer and Drawing Room

5:00      **Opening Remarks**      Ballroom

**Robin J. Parks, PhD**

Senior Scientist, Ottawa Hospital Research Institute, CA

Professor, University of Ottawa, CA

**Jodi Warman-Chardon, MD/PhD**

Associate Professor, University of Ottawa, CA

Neurologist, The Ottawa Hospital/CHEO, CA

Associate Scientist, Ottawa Hospital Research Institute, CA

Scientist, Children's Hospital of Eastern Ontario Research Institute, CA

5:10-6:30      **Keynote Session**      Ballroom

Remarks from Session Moderators:

**Mireille Khacho, PhD** and **Hanns Lochmüller, MD/PhD**

Co-Directors, The Éric Poulin Centre for Neuromuscular Disease, CA

Remarks from: **Homira Osman, PhD**, Vice President, Research and Public Policy, Muscular Dystrophy Canada, CA

Remarks from: **Colleen Doyle**, Director of Canadian Research, ALS Society of Canada, CA

Keynote Speaker Introduction by:

**Rashmi Kothary, PhD**, Senior Scientist, Ottawa Hospital Research Institute, CA

Keynote Address:

**Charlotte Sumner, MD**

Professor of Neurology and Neuroscience

Johns Hopkins University School of Medicine, USA

6:30-8:00      **Welcome Reception**      Adam Room

# DETAILED CONFERENCE PROGRAM

*Friday September 12, 2025*

7:15-8:00      **Breakfast / Poster Viewing**      Drawing Room

8:00-10:00      Ballroom

**Session 1 Joint Session: Transformative Technologies in Neuromuscular Disorders**

*Moderators: Bernard Jasmin, PhD, University of Ottawa, CA*

**Michael Benatar, MD/PhD** Promise & Perils in ALS Therapy Development

**Conrad (Chris) Wehl, MD/PhD** Comprehensive Variant Analysis: Using Deep Mutational Scans for Clinical Care

**Jordi Diaz-Manera, MD/PhD** Artificial intelligence in neuromuscular disease diagnosis and care

**Elizabeth McNally, MD/PhD** Cell - Matrix Interactions in Muscle Degeneration and Regeneration

10:00-10:30      **Coffee Break / Poster Viewing**      Drawing Room

10:30-12:00      Laurier Room

**Session 2A Clinical: Motor Neuron Disease Pathogenesis and Treatment**

*Moderator: Matti Allen, MD/PhD, The Ottawa Hospital, CA*

**Maryam Oskoui, MD** Newborn Screening and emerging treatments in Spinal Muscular Atrophy

**Agessandro Abrahao, MD** Updates on clinical management and trials in ALS

**Gordon Jewett, MD** Consumer-grade devices for ALS clinical outcome assessment

**Panel Discussion**

10:30-12:00      Ballroom

**Session 2B Basic: Advances in Muscle Stem Cells and Development**

*Moderator: Mary-Ellen Harper, PhD, University of Ottawa, CA*

**Nicolas Dumont, PhD** Regulation of muscle stem cell myogenic progression by bioactive lipids

**Emanuela Gussoni, PhD** Modulation of dystrophic severity through a tetraspanin

**Fabio Rossi, PhD** Fibroblast regulation across species

**Short Talk: Rika Maruyama** Systemic CRISPR/SaCas9-mediated exon skipping achieves long-term benefit in canine Duchenne muscular dystrophy

12:00-1:30      **Lunch Break / Poster Viewing**      Drawing Room

1:00-1:30      **Lunchtime 3 Minute Flash Talks**      Ballroom

*Moderator: Keir Menzies, PhD, University of Ottawa, CA*

1. **Malaichamy Sivasankar** Systematic Reanalysis of NGS Data in 103 NMD Families Enhances Diagnostic Yield, Reveals Deep Intronic Variants, and Identifies ATP2A2 as a Novel Neuromuscular Disease Gene
2. **Ryan Marks** Single AAV vector base editing rescues a nonsense variant in a humanized mouse model of Duchenne muscular dystrophy
3. **Wanda Dupèbe** Skeletal Muscle Transcriptomic Comparison Between Men and Women Individuals with Myotonic Dystrophy Type 1
4. **Pablo Iruzubieta** Presence of symptoms and signs of neuropathy in a cohort of patients with SCA27B

# DETAILED CONFERENCE PROGRAM

*Friday September 12, 2025 continued*

1:30-3:00

Laurier Room

**Session 3A Clinical: Muscular Dystrophies – Treatment and Pathogenesis**

*Moderator: Hanns Lochmüller, MD/PhD, The Ottawa Hospital, CA*

**Cam-Tu Nguyen, MD** Clinical Updates in Dystrophinopathies

**Duygu Selcen, MD** Updates in Myofibrillar myopathies

**Carsten Bönnemann, MD** Novel disease identification in Muscle Disease

**Panel Discussion**

1:30-3:00

Ballroom

**Session 3B Basic: Challenges and Opportunities in Amyotrophic Lateral Sclerosis**

*Moderator: Michael De Lisio, PhD, The Ottawa Hospital, CA*

**Maxime Rousseaux, PhD** TDP-43 SUMOylation safeguards from neuronal demise

**Aaron Gitler, PhD** An emergent disease-associated motor neuron state precedes cell death in a mouse model of ALS

**Clotilde Lagier-Tourenne, PhD** Disruption of RNA metabolism in ALS/FTD and emerging therapeutic strategies

**Short Talk: Tyler Soule** The oral microbiome in ALS shows differentially abundant organisms in limb versus bulbar onset disease: a binational study

3:00-4:00

**Poster Session (Odd Numbers) - Coffee/Snacks**

Drawing Room

4:00-5:30

Laurier Room

**Session 4A Clinical: Myasthenia Gravis Neuromuscular Junction Disorders**

*Moderator: Benjamin Beland, MD, The Ottawa Hospital, CA*

**Neelam Goyal, MD** Diagnostics in Myasthenia and Guidelines

**Pushpa Narayanaswami, MD** Myasthenia Gravis - Clinical Trials and Therapies

**Hanns Lochmüller, MD/PhD** Inherited neuromuscular junction disorders with genetic overlaps

**Panel Discussion**

4:00-5:30

Ballroom

**Session 4B Basic: Muscle Disease Pathogenesis and Treatment I**

*Moderator: Mireille Khacho, PhD, University of Ottawa, CA*

**Maurice Swanson, PhD** RNA pathomechanisms in neuromuscular disease

**Laurent Schaeffer, PhD** Combinatorial therapy to improve SMA treatment

**Michael Rudnicki, PhD** Developing innovative regenerative therapies for neuromuscular disease

**Short Talk: Amy Lam** Single-AAV-mediated adenine base editing efficiently restores dystrophin expression and muscle function in mdx 4cv mice

5:30-7:00

**Informal Poster Viewing and Cocktail / Networking Reception**

Drawing Room

# DETAILED CONFERENCE PROGRAM

*Saturday September 13, 2025*

7:15-8:00	<b>Breakfast / Poster Viewing</b>	Drawing Room
8:00-9:30	<b>Session 5A Clinical: Imaging and Genomics in Neuromuscular Disease</b> <i>Moderator: Hugh McMillan, PhD, Children's Hospital of Eastern Ontario, CA</i> <b>Marcos Sampaio, MD and Gerd Melkus, PhD</b> Muscle MRI Key Techniques and Clinical Implementation <b>Giorgio Tasca, MD/PhD</b> Imaging and natural history studies in FSHD <b>John Vissing, MD/PhD</b> Quantitative MRI in RYR1 and ANO5 <b>Panel Discussion</b>	Laurier Room
8:00-9:30	<b>Session 5B Basic: Translational Research in Spinal Muscular Atrophy</b> <i>Moderator: Rashmi Kothary, PhD, Ottawa Hospital Research Institute, CA</i> <b>Umrao Monani, PhD</b> A chaperone modifier of the spinal muscular atrophy disease phenotype <b>Heidi Fuller, PhD</b> Biomolecular insights into the potential for a precision medicine approach for spinal muscular atrophy <b>Ewout Groen, PhD</b> Moving translational SMA research forward in the therapeutic era <b>Short Talk: Megan Baird</b> Identification of early symptomatic gene expression changes in motor neurons in a large animal model of motor neuron disease	Ballroom
9:30-10:30	<b>Poster Session (Even Numbers) - Coffee/Snacks</b>	Drawing Room
10:30-12:00	<b>Session 6A Clinical: Advances in Autoimmune and Genetic Myopathies</b> <i>Moderator: Jodi Warman-Chardon, MD/PhD</i> <b>Elie Naddaf, MD</b> Advances in Inclusion Body Myositis <b>Erin O'Ferrall, MD</b> Challenging Cases: How useful is muscle biopsy in clinical myopathies and muscular dystrophies <b>Jodi Warman-Chardon MD/PhD</b> Genetic Testing in Limb Girdle Muscular Dystrophy <b>Panel Discussion</b>	Laurier Room
10:30-12:00	<b>Session 6B Basic: Muscle Disease Pathogenesis and Treatment II</b> <i>Moderator: Aymeric Ravel-Chapuis, PhD, University of Ottawa, CA</i> <b>Marco Sandri, PhD</b> Dissecting the gene networks that control muscle wasting <b>Mireille Khacho, PhD</b> Decoding Mitochondrial Signals Driving Muscle Stem Cell Function and Dysfunction <b>Denis Guttridge, PhD</b> Local inflammation in the muscle microenvironment in cancer cachexia <b>Short Talk: Emma Sutton</b> Maternal transfer of disease modifying therapies for spinal muscular atrophy: a novel, minimally invasive approach to deliver SMN therapy prenatally	Ballroom
12:00-1:30	<b>Lunch Break / Poster Viewing</b>	Drawing Room

# DETAILED CONFERENCE PROGRAM

*Saturday September 13, 2025 continued*

1:00-1:30	<b>Lunchtime 3 Minute Flash Talks</b>	Ballroom
<i>Moderator: <b>Yan Burelle, PhD., University of Ottawa, CA</b></i>		
1. <b>Shatha Atieh</b> Characterization of Bitter Melon Natural Compounds that Activate AMPK Signaling As Novel Therapeutics For Myotonic Dystrophy Type 1 (DM1)		
2. <b>James Butcher</b> Dystrophic muscle phenotypes can be horizontally transferred via fecal microbiome transplantations		
3. <b>Kelly Ho</b> CIC-1 chloride channel inhibitor NMD712 improves motor function in mouse models of congenital myasthenic syndromes		
4. <b>Utkarsh Dang</b> A comprehensive and queryable database with thousands of findings on biomarkers from >20 serum and tissue datasets for DMD		
1:30-3:00		Laurier Room
<b>Session 7A Clinical: Advances in Clinical Autoimmune and Genetic Neuropathies</b>		
<i>Moderator: <b>Alberto Aleman, MD, The Ottawa Hospital, CA</b></i>		
<b>Christopher Klein, MD</b> Paraprotein Associated Peripheral Neuropathies: Evolving Concepts		
<b>Jasper Morrow MD/PhD</b> Diagnosis and Monitoring in Charcot-Marie-Tooth disease		
<b>Mario Saporta, MD/PhD</b> Treatment Advances for Charcot-Marie-Tooth disease		
<b>Panel Discussion</b>		
1:30-3:00		Ballroom
<b>Session 7B Basic: Neuromuscular Disease and Therapy</b>		
<i>Moderator: <b>Nadine Wiper-Bergeron, PhD, University of Ottawa, CA</b></i>		
<b>Christian Lorson, PhD</b> Insight into IGHMBP2 function: leveraging novel animal models of SMARD1 and CMT2S		
<b>Richard Robitaille, PhD</b> Glia regulation of neuromuscular junction in health and disease		
<b>Dwi Kemaladewi, PhD</b> Therapeutic genetics and disease modeling in LAMA-deficient congenital muscular dystrophy		
<b>Short Talk: Aymeric Ravel-Chapuis</b> Dysregulation of the RNA-binding protein HuR impairs neuromuscular junction integrity in muscular dystrophies		
3:00-3:30	<b>Coffee Break / Poster Viewing</b>	Drawing Room
3:30-5:00		Ballroom
<b>Session 8 Joint Session: Future Directions in Neuromuscular Research</b>		
<i>Moderators: <b>Robin Parks, PhD and Jodi Warman-Chardon, MD/PhD</b></i>		
<b>Lyndsay Murray, PhD</b> Axon degeneration and regeneration in mouse models of SMA		
<b>Kym Boycott, MD/PhD</b> Impact and challenges of emerging diagnostic genetic testing techniques in NMD		
<b>Hanns Lochmüller, MD/PhD</b> Phase 1b Study of the Safety, Tolerability, Pharmacokinetics, Immunogenicity, and Efficacy of ARGX-119 in Participants With DOK7 Congenital Myasthenic Syndromes		
5:00	<b>Closing Remarks</b> <b>Robin Parks, PhD and Jodi Warman-Chardon, MD/PhD</b>	Ballroom