26th AcadeMYO SUMMER SCHOOL OF MYOLOGY
16-20 JUNE 2025
Institute of Myology, Paris, France

Director: Pr Bertrand FONTAINE

Programme committee:

Dr. J. Andoni URTIZBEREA (Institute of Myology, Paris, France)

Nur Rocio VILAR QUILES (Neuro- Myology Service, Pitié-Salpêtrière Hospital, Paris)

Dr. Gorka FERNANDEZ-EULATE (Neuro- Myology Service, Pitié-Salpêtrière Hospital, Paris)

Harmen REYNGOUDT (CEEN, Institute of Myology, Groupe Hospitalier Pitié-Salpêtrière, Paris)

Dr Andreea SEFERIAN (I-Motion, Institute of Myology, Trousseau Hospital, Paris)

Dr Stéphane VASSILIPOULOS (CDR, Institute of Myology, Pitié-Salpêtrière Hospital, Paris)

Jorge BEVILACQUA (Neurology Department, University Hospital of Chile, Santiago)

Target audience (25 participants max.)

- Healthcare providers (HCP's)
- Physicians & allied professionals
- Researchers/Scientists
- Industry employees

Aim:

To update participants on the current trends and innovations in myology but also equip them with the practical tools necessary for effective diagnosis and treatment of neuromuscular disorders, ultimately enhancing patient care and fostering ongoing professional development.

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MONDAY 16th JUNE (DAY 1)

08.45- 09.00	**Introduction and welcome** *(B.Fontaine, J. Andoni Urtizberea, Nur Villar-Quiles, Jorge Bevilacqua)* **Objective:** *Introduction of participants and organizers; layout of the program and learning objectives*
09.00- 9.45	**Introduction to clinical myology** *(Jorge Bevilacqua)* **Objective:** *To provide participants with a foundational understanding of clinical myology, focusing on the diagnosis, management, and treatment of muscle-related disorders, and the clinical relevance of muscle pathology in neuromuscular diseases. (35'talk, 15' discussion)*
9.45-10.30	**Update on muscular dystrophies - including LGMD** *(Gorka Fernandez)* **Objective:** *To provide participants with a comprehensive understanding of the current classifications, genetics, and therapeutic options for muscular dystrophies, with a focus on LGMD. (35'talk, 15' discussion)*
10.30-10.45	*Coffee Break*
10.45- 12.45	Case studies (session 1) *(J. Andoni Urtizberea, Gorka Fernández, Nur Villar Quiles, Jorge Bevilacqua, Teresinha Evangelista)*
12.45- 14.00	*Lunch Break (room 1)*
14.00- 16.15	Hands-on workshops and on-site visits (Day 1)
16.15- 16.30	*Coffee Break*
16.30- 17.15	**Elucidating rare neurodegenerative/neuromuscular diseases by using new technologies** *(Andrea Cortese)* **Objective:** *To explore how new technologies like genomics and bioinformatics are advancing the diagnosis and understanding of rare neurodegenerative and neuromuscular diseases (35'talk, 15' discussion)*
	End of day 1- Q&A with drinks and small bites; meet the speakers

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TUESDAY 17th JUNE (DAY 2)

09.00- 9.45	**Charcot-Marie-Tooth disease** (*Tanya Stojkovic*) **Objective:** *To update participants on the latest developments in the pathophysiology, diagnosis, and treatment strategies for Charcot Marie Tooth disease. (35'talk, 15' discussion)*
9.45-10.30	**MRI Fingerprinting for fast quantitative MRI of the skeletal muscles** (*Constantin Slioussarenko)* **Objective:** *To familiarize participants with the technique of MRI fingerprinting and its application in the rapid, quantitative analysis of skeletal muscle conditions. (35'talk, 15' discussion)*
10.30-10.45	*Coffee Break*
10.45- 12.45	Case studies (session 2) (*J. Andoni Urtizberea, Gorka Fernández, Nur Rocio Villar Quiles, Jorge Bevilacqua, Teresinha Evangelista)*
12.45- 14.00	*Lunch Break (room 1)*
14.00- 16.15	Hands-on workshops and on-site visits (Day 2)
16.15- 16.30	*Coffee Break*
16.30- 17.15	**Myotonic dystrophies and therapies** (*Denis Furling)* **Objective:** *To update participants on the pathophysiology and available therapies for myotonic dystrophies, including current clinical trial data. (35'talk, 15' discussion)*
	End of day 2- Q&A with drinks; meet the speakers

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WEDNESDAY 18th JUNE (DAY 3)

09.00- 9.45	**Myasthenia Gravis and novel therapies** (*Anthony Béhin*) **Objective:** *To provide an overview of Myasthenia Gravis and present novel treatment options that are emerging in clinical practice. (35'talk, 15' discussion)*
9.45-10.30	**Therapeutics in SMA: an update** (*Andreea Seferian*) **Objective:** *To explore the latest therapeutic advancements in Spinal Muscular Atrophy, including gene therapies and disease-modifying treatments. (35'talk, 15' discussion)*
10.30-10.45	*Coffee Break*
10.45- 12.45	Case studies (session 3) (*J. Andoni Urtizberea, Gorka Fernández, Nur Rocio Villar Quiles, Jorge Bevilacqua)*
12.45- 14.00	*Lunch Break (room 1)*
14.00- 16.15	N/A (spare time)
16.15- 16.30	N/A (spare time)
16.30- 17.15	N/A (spare time)
	End of day 3

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THURSDAY 19th JUNE (DAY 4)

09.00- 9.45	**Update in metabolic myopathies** *(Edoardo Malfatti)* **Objective:** *To discuss recent advances in the identification, diagnosis, and management of metabolic myopathies, including enzyme replacement therapies. (35'talk, 15' discussion)*
9.45-10.30	**Clinical Trials** *(Michella Ibrahim)* **Objective:** *To guide participants in understanding the key aspects of designing, conducting, and interpreting clinical trials in neuromuscular research. (35'talk, 15' discussion)*
10.30-10.45	*Coffee Break*
10.45- 12.45	Case studies (session 4) *(J. Andoni Urtizberea, Gorka Fernández, Nur Villar Quiles, Jorge Bevilacqua)*
12.45- 14.00	*Lunch Break (Room 1)*
14.00- 16.15	Hands-on workshops and on-site visits (Day 4)
16.15- 16.30	*Coffee Break*
16.30- 17.15	**Outcome measures** *(Simone Birnbaum)* **Objective:** *To teach participants how to select and apply appropriate outcome measures to assess progression and treatment efficacy in neuromuscular diseases. (35'talk, 15' discussion)*
19.00-22.00	Networking Dinner

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FRIDAY 20th JUNE (DAY 5)

09.00- 9.45	**Selenopathies and other Congenital muscular dystrophies** *(Ana Ferreiro)* **Objective:** *To educate participants on the clinical features, molecular basis, and treatment approaches for selenopathies and other congenital muscular dystrophies. (35'talk, 15' discussion)*
9.45-10.30	**Robotics** *(Romain Feigean)* **Objective:** *To explore the role of robotic technologies in the rehabilitation and treatment of neuromuscular diseases, focusing on enhancing patient mobility and function. (35'talk, 15' discussion)*
10.30-10.45	*Coffee Break*
10.45- 12.45	Case studies (session 5) *(J. Andoni Urtizberea, Gorka Fernández, Nur Villar Quiles, Jorge Bevilacqua)*
12.45- 14.00	*Lunch Break (room 1)*
14.00- 16.15	Hands-on workshops and on-site visits (Day 5)
16.15- 16.30	*Coffee Break (+preparation participant presentations)*
16.30- 17.30	Quizz, Evaluation, Participant presentations (chaired by Andoni Urtizberea) We ask groups of 5 participants to prepare a talk • Who they are and what they expected from the summer school • The things they learnt • How this will influence their daily work • What we should keep in future summer schools • What we should drop/improve • What they were missing Feedback and general discussion. Farewell and departure.

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Programme of hands-on workshops and onsite visits

1 Muscle Histology -Morphological Unit (Teresinha Evangelista)

2 Myogenetics- Bioinformatics (France Leturcq)

3 Electrophysiology (Sarah Leonard-Lewis, Tanya Stojkovic)

4 Muscle Electron Microscopy (Stéphane Vassilopoulos)

5 Historical tour of the Salpêtrière Hospital (J.Andoni Urtizberea)

6 Neuromuscular Physiology and Evaluation Laboratory (Jean Yves Hogrel)

7 Respiratory management (Hélène Prigent)

8 Laboratoire d'imagerie et la spectroscopie par résonance magnétique nucléaire (RMN) (Harmen Reyngoudt)

9 I-Motion Clinical Trials Unit– (Andrea Seferian/ Marina Collela)

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	Monday June 16th	Tuesday June 17th	Wed. June 18th	Thurs. June 19th	Friday June 20th
	Hands on workshops and onsite visits (parallel)	*Hands on workshops and onsite visits (parallel)*	*Free Time*	*Hands on workshops and onsite visits (parallel)*	*Hands on workshops and onsite visits (parallel)*
14.00- 16.15	*Neuromuscular Physiology and Evaluation Laboratory (12 participants)*	*Neuromuscular Physiology and Evaluation Laboratory (13 participants)*	*N/A*	*Myogenetics-Bioinformatics (12 max)* Auditorium	*Myogenetics-Bioinformatics (12 max)*
14.00- 16.15	*Muscle Histology - Morphological Unit (13 participants)*	*Muscle Histology - Morphological Unit (12 participants)*	*N/A*	*Muscle Electron Microscopy (4/5 participants)*	*Muscle Electron Microscopy (4/5 participants)*
14.00- 16.15	*Clinical Trials Unit (13 participants)*	*Clinical Trials Unit (13 participants)*	*N/A*	*Historical tour of the Salpêtrière Hospital*	*Electrophysiology (4/5 participants)*
14.00- 16.15	*Labo RMN) (4/5 participants)*	*Labo RMN (4/5 participants)*	*N/A*	*Labo RMN (4/5 participants)*	*Labo RMN (4/5 participants)*

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Objectives/expected educational outcomes of the onsite visits and hands-on ateliers:

- **Muscle Histology - Morphological Unit**:
  The learner will have a deepened understanding of advanced muscle tissue architecture and its relevance to diagnosing muscle pathologies at a cellular level.

- **Myogenetics - Bioinformatics**:
  Use bioinformatics to interpret genetic data related to neuromuscular disorders and applying it to personalized treatment approaches.

- **Electrophysiology**:
  Master the interpretation of complex electrophysiological data for precise diagnosis of neuromuscular dysfunctions and diseases.

- **Muscle Electron Microscopy**:
  Apply advanced electron microscopy techniques to investigate muscle ultrastructural abnormalities and their clinical implications.

- **Historical Tour of the Salpêtrière Hospital**:
  Explore the rich historical legacy of the Salpêtrière Hospital through key landmarks, gaining insight into its transformation from a hospice to a world-renowned center for neurology and psychiatry, and its role in shaping the history of medicine.

- **Neuromuscular Physiology and Evaluation Laboratory:**
  Enhance skills in using advanced diagnostic tools and techniques to evaluate complex neuromuscular disorders.

- **Respiratory Management**:
  Develop expertise in managing respiratory insufficiencies in patients with advanced neuromuscular diseases, including cutting-edge ventilatory strategies.

- **Laboratory of Nuclear magnetic resonance (NMR) imaging and spectroscopy:**
  Apply MRI and NMR spectroscopy techniques to analyze intricate muscle pathologies and assess therapeutic responses.

- **I-Motion Clinical Trials Unit**:
  Design and critically evaluate clinical trials for emerging therapies in neuromuscular diseases, with a focus on innovative methodologies and regulatory considerations.

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"The **26th AcadeMYO- Summer School of Myology 2025, Institute of Myology, Paris , France 16/06/2025 - 20/06/2025** , has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **29.5** European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity."