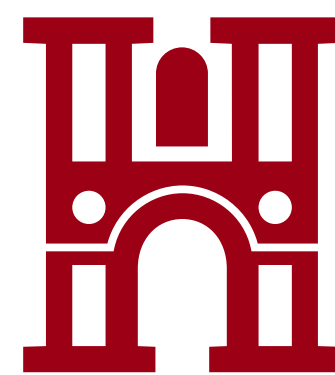





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REGIONE DEL VENETO

Azienda
Ospedale
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Padova

Skeletal Muscle in ALS



Mechanisms, Biomarkers, and
Therapeutic Perspectives

International Conference

SEPTEMBER 25 to 26, 2026

Hotel Mantegna

Via Niccolò Tommaseo 61

PADOVA, ITALY

DAY 1 – 25TH SEPTEMBER 2026 – 14:00 – 19:00

13:30 – 14:00 – Registration

14:00 – 14:15 – Opening Remarks

14:15 – 15:00 – **Keynote Lecture – Marco Sandri**

Pathophysiology of muscle weakness during disease

Session 1 – Decoding Muscle Involvement in MNDs: Pathology, Models, and Omics

Chairs: Corrado Angelini – Manuela Basso

● 15:00 – 15:15 – Elena Pegoraro

Muscle biopsy in neurogenic atrophy

● 15:15 – 15:30 – Helen Miranda

Beyond the Motor Neuron: Skeletal Muscle in the Pathogenesis of Neuromuscular Diseases

● 15:30 – 15:45 – Anna Urciuolo

Unlocking organoids to unravel human neuromuscular function and disease

● 15:45 – 16:00 – Bert Blaauw

The role of energy consumption of resting skeletal muscle on hypermetabolism in ALS patients

● 16:00 – 16:15 – Tania Zaglia

The Muscle–Nerve Dialogue: miR-206 as a Regulator of Sympathetic Innervation

16:15 – 16:45 – Coffee Break & Poster Viewing

16:45 – 17:30 – Short talks selected from abstracts

Session 2 – Muscle and NMJ Pathophysiology in ALS

Chairs: Antonio Musarò – Maria Pennuto

● 17:30 – 17:45 – Alessandro Rosa

The RNA-binding protein HuD at the crossroads of oxidative stress and NMJ defects in sporadic ALS

● 17:45 – 18:00 – Carmelo Milioto

Motor neuron vulnerability and plasticity: insights from C9orf72 DPR knock-in mouse models

● 18:00 – 18:15 – Diana Piol

Local translation defects in the ALS lower motor neuron circuitry

● 18:15 – 18:30 – Udai Pandey

Molecular Insights into the Muscle–NMJ Axis in ALS

● 18:30 – 18:45 – Nilo Riva

From the Peripheral Nerve to Muscle: a PNS Perspective on ALS

18:45 – 19:00 – Day 1 Wrap-up

DAY 2 – 26TH SEPTEMBER 2026 – 09:00 – 14:00

09:00 – 09:45 – **Keynote Lecture – Pietro Fratta**

Muscle as a Window and Target in ALS: Insights from MRI and TDP-43 Pathology

Session 3 – Muscle Biomarkers in ALS

Chairs: Federico Verde – Matteo Zanovello

● 09:45 – 10:00 – Albert Ludolph

Which part might a muscle biomarker play among neurochemical ALS biomarkers?

● 10:00 – 10:15 – Patrick Weydt

Teaching an old dog new tricks: repurposing cardiac Troponin T as a biomarker for ALS

● 10:15 – 10:30 – Giuseppe De Vito

Biomarkers of Motoneuronal dysfunction in health and disease

● 10:30 – 10:45 – Gaetano Vattei

Lessons from sporadic inclusion body myositis (sIBM)

● 10:45 – 11:00 – Barbara Di Camillo

Toward reliable and responsible ALS progression prediction: development and external validation of clinical models

11:00 – 11:30 – Coffee Break & Poster Viewing

Session 4 – Therapeutic Strategies Targeting the Skeletal Muscle

Chairs: Adriano Chiò – Gianni Sorarù

● 11:30 – 11:45 – Delia Gagliardi

Leveraging 3D patient-specific in vitro models to test therapeutic strategies in ALS

● 11:45 – 12:00 – Michela Rigoni

Targeting neuromuscular junction regeneration as a therapeutic strategy in ALS

● 12:00 – 12:15 – Stefano Cagnin

miRNA-Mediated Crosstalk Between Skeletal Muscle and Motor Neurons in ALS: Implications for NMJ Formation and Regeneration

● 12:15 – 12:30 – Giuseppe Ronzitti

Safety and efficacy considerations in muscle-directed AAV gene therapy

● 12:30 – 12:45 – Giovanni Nardo

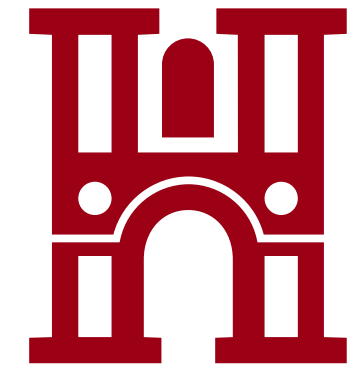
Targeted IL-10 Delivery to Remodel Immune-Driven Skeletal Muscle Pathology in ALS

12:45 – 13:00 – Closing Remarks & Future Directions

13:00 – 14:00 – Light lunch & Poster Viewing



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