UNIVERSITÀ DI TRENTO | Dipartimento di Biologia Cellulare, Computazionale e Integrata - CIBIO

20 November

at 11.30 am

room A208

Povo 1

PhD COLLOQUIA



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Human in vitro models for studying motor neuron disease

Amyotrophic lateral sclerosis (ALS) is a progressive neurodegenerative disease affecting motor neurons. Despite advances in understanding its pathology, effective treatments remain limited. **Human induced pluripotent stem cell (hiPSC)-derived in vitro models, including organoids and neuromuscular assembloids, offer new opportunities to investigate disease mechanisms, cellular interactions, and neural network dysfunction**. This presentation will explore recent advances in human ALS models, their applications in therapeutic discovery, current limitations, and future perspectives, highlighting the development of next-generation platforms to study disease progression and evaluate potential treatments.