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MONDINO  
Istituto Neurologico Nazionale  
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SEMINARIO (SEM05/26)

# RECENT ADVANCES IN SMALL MOLECULE THERAPEUTICS AND BLOOD-BASED BIOMARKER ANALYSIS FOR ALS DISEASE

with **Emanuele BURATTI**

Introduced by **Luca DIAMANTI**

**23.09.2026**

**Aula Berluschi 14.00 -17.00**

Fondazione Istituto Neurologico Nazionale  
IRCCS G. Mondino, Pavia

**Emanuele BURATTI**

is Group Leader of  
the Molecular Pathology lab  
at the International Centre  
for Genetic Engineering and  
Biotechnology in Trieste,  
Italy ICGB

Since beginning his postdoctoral work, the principal areas of **Dr. Buratti's** expertise have been the investigation of RNA binding proteins/structure and their influence on translation and alternative splicing processes.

In 2001, as part of a research project on Cystic Fibrosis, he identified nuclear protein TDP-43 as a potential CFTR exon 9 pre-mRNA splicing regulator.

As a result, in the following years he has performed several basic studies on the biochemical and functional properties of this protein that have been of great advantage to the scientific community when its role in neurodegeneration was first reported in 2006.

Since then, **Dr. Buratti** research has primarily focused on investigating the potential pathophysiological role played by TDP-43 in Frontotemporal Dementia and Amyotrophic Lateral Sclerosis, and in better understanding the functional roles played by this protein (ie. microRNA biogenesis and splicing regulation, shuttling nuclear/cytosplamic properties, autoregulatory processes, and so forth).

## REFERENTE SCIENTIFICO

**Dr. Luca DIAMANTI**

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