

University of Naples Federico
II School of Medicine
ENGLISH COURSE IN MEDICINE AND SURGERY

ADE (Educational Elective Activity)
4th year, academic year 2025-26

CURRENT AND NEW POTENTIAL PHARMACOLOGICAL STRATEGIES FOR NEURODEGENERATIVE DISEASES

Coordinator: Ass Prof Matrone Carmela
(carmela.matrone@unina.it)

European Credit Transfer and Accumulation System = 1

Educational contents of the course:

This course will investigate the mechanisms responsible for the most prevalent neurodegenerative (Alzheimer's disease, Parkinson's disease, and multiple sclerosis) and neurodevelopmental diseases (autism and neuronal brain injury). The present background review articles and seminal research papers will be critically and interactively discussed between students and teachers. The study of the most recent pharmacological strategies and clinical trials will be emphasized, focusing on the comprehension of all possible factors contributing to the failure of clinical trials.

The course will be organized in seminars to be held at Building 19 (Torre Biologica) starting from April 27, at 17.

Faculty	Position	Department	Scientific field	Hrs	e-mail
Boscia Francesca	Associate professor	Department of Neuroscience and Reproductive and Odontostomatological Sciences	Pharmacology (Bio14)	2	boscia@unina.it
Cuomo Ornella	Associate professor	Department of Neuroscience and Reproductive and Odontostomatological Sciences	Pharmacology (Bio14)	1	or.cuomo@unina.it
Matrone Carmela	Associate professor	Neuroscience and Reproductive and Odontostomatological Sciences	Pharmacology (Bio14)	2	carmela.matrone@unina.it
Miceli Francesco	Researcher (RTD-B)	Department of Neuroscience and Reproductive and Odontostomatological Sciences	Pharmacology (Bio14)	1	francesco.miceli@unina.it
Valeria Valsecchi	Researcher (RTD-B)	Department of Neuroscience and Reproductive and Odontostomatological Sciences	Pharmacology (Bio14)	1	Valeria.valsecchi@unina.it

1. Cuomo Ornella: Pharmacological neuroprotective strategies against neonatal brain injury.
2. Miceli Francesco: Pharmacological treatment of neurodevelopmental disorders, including autism spectrum disorders.
3. Matrone Carmela: What's new in the Alzheimer's disease treatment pipeline?
4. Boscia Francesca: Current and emerging disease-modifying therapies in multiple sclerosis
5. Cuomo Ornella: Pharmacological Approaches to Stroke Management: Current and Future Perspectives.
6. Valsecchi Valeria: Focus on Amyotrophic Lateral Sclerosis Management