



CHIBIOFARAM

DIPARTIMENTO di
SCIENZE CHIMICHE,
BIOLOGICHE,
FARMACEUTICHE
ED AMBIENTALI



«Inflammatory-based diseases, neurodegeneration and metabolic disorders: from bench to the bedside»

University of Messina

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences
Messina



Auditorium «Vittorio Ricevuto»
January 22-23 2026

22 January 2026

Auditorium "Vittorio Ricevuto", Polo Papardo

09:00 - 09:20 Registration and welcome reception

09:20 - 09:30 Introduction e greetings

Introduction PRIN2020 *"Regulation of autophagy by N-acylethanolamines as a promising approach for the treatment of inflammatory-based diseases: from neurodegeneration to metabolic disorders"*

Paterniti I., Romano A., Travelli C. and Panza E.

Opening Lecture

Chairperson: Paterniti I.

09:30 - 10:00 *Linking synaptic dysfunction and inflammation in early Parkinson's disease*

Gardoni F., University of Milan

Oral Communications

"Neural Crosstalk in Neurodegeneration: From Molecular Mechanisms to Pharmacological Targets"

Chairpersons: Grilli M and Esposito E.

10:00 - 10:15 *Ultramicrosized palmitoylethanolamide restores astrocyte–neuron metabolic coupling in a transgenic mouse model of Alzheimer's disease*
Scuderi C., University of Rome

10:15 - 10:30 *Endocannabinoids and congeners in plastic changes associated with pathological pain*
Luongo L. University of Campania "L. Vanvitelli"

10:30 - 10:45 *Unmasking Alzheimer's Disease: The multifactorial puzzle beyond protein misfolding*
Balducci C., Mario Negri Institute IRCCS

10:45 - 11:00 *Role of microglia in oligotau-induced neurodegeneration: opposite roles of PrPc and TGF- β 1 signaling*
Gullotta G. IRCCS Oasi Maria SS Onlus, Troina (EN)

11:00 - 11:15 *From neuroinflammation to protein dyshomeostasis: the role of astroglial calcineurin in Alzheimer's disease*
Saverio V., University of Piemonte Orientale "Amedeo Avogadro"

11.15 - 11.30 Round Table and General discussion of the session

Caraci A., Gardoni F., Copani A., Esposito E., Sortino M., Sottile F., D'Avella D.

11:30-11:45 Coffee break ☕

Plenary Lecture

Chairperson: D'Avella D.

11:45 – 12:15 *Neuromodulation, immunity and chronic inflammation*

Landi A., University of Padova


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Plenary Lecture

Chairperson: Cirino G.

12:15 – 12:45 *Resolution Pharmacology: a new approach to the management of chronic diseases*

Perretti M., William Harvey Research Institute, London

12:45 - 14.30 **Lunch** 

Oral Communications

"Metabolic Diseases: Molecular Insights and Pharmacological Perspectives"

Chairpersons: Gaetani S. and Bucci M.

14:30 - 14:45 *Pharmacological modulation of paracannabinoid signaling in a rodent model of diet-induced obesity: insights into multi-organ dysfunction*

Friuli M., Link Campus University, Rome

14:45 - 15:00 *Defective protein persulfidation in obesity-associated skeletal muscle dysfunction: role of SIRT-1*

Vellecco V., University of Naples Federico II

15:00 - 15:15 *Targeting the central histaminergic system to counteract obesity-associated cognitive deficits*

Provensi G., University of Florence

15:15 - 15:30 *Rewiring metabolic organ networks in obesity: from mechanisms to therapy*

Pirozzi C., University of Naples Federico II

15:30 - 15:45 *Targeting NPY pathways for metabolic disorders: insights from limbic Npy1r deletion*

Einaudi G., University of Camerino

15:45 - 16:00 **Round table and General discussion of the session**

Gaetani, Bucci, Meli, Lutz

16:00 - 16:15 **Coffee break** 

Plenary Lecture

Chairperson: Romano A.

16:15 - 16:45 *Gut hormones in the treatment of metabolic diseases*

Thomas Lutz, University of Zurich

16:45 - 19:00 **Short communications**

Chairpersons: Smeriglio A. and Campolo M.

19:00 **Conclusions**

20:00 **Dinner**

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Plenary Lecture

Chairperson: Panza E.

09:00 – 09:30 *Thrombin chronic inflammation: new roles for an old player*
Vergnolle N., University of Toulouse

Oral Communication

“Inflammatory based diseases: Novel Therapeutic Strategies”

Chairperson: Bruscoli S and Meli R.

09:30 - 09:45 *ER-mitochondrial contacts as a novel therapeutic target to control cell metabolism and function in neurodegeneration and beyond*
Lim D., University of Piemonte Orientale “Amedeo Avogadro

09:45 - 10:00 *Breaking Barriers: How Leukemia Drive Neuroinflammation*
Bereshchenko O., University of Perugia

10:00 - 10:15 *Targeting the Gut Microbiota–Endocannabinoidome Axis to Counteract Inflammation and Cellular Dysfunctions in Incurable Rare Disorders*
Iannotti F., Institute of Biomolecular Chemistry, CNR Napoli

10:15 - 10:30 *Divergent recovery of the gut–brain axis across acute, recovery and chronic phases of DSS-induced intestinal inflammation*
Lanni C., University of Pavia

10:30 - 10:45 **Coffee break** ☕

Plenary Lecture

Chairperson: Travelli C.

10:45 – 11:15 *Enteric nervous system: an immunoregulatory gatekeeper in the gut*
Matteoli G., Translational Research Center for Gastrointestinal Disorders, Belgium

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Oral Communication

"Inflammatory Pathologies: New Therapeutic Frontiers and Signal Network Dynamics"

Chairpersons: Lanni C. and Trombetta D.

- 11:15 - 11:30** *Novel insights in the control of vascular inflammation: cross-talk between gaseous molecules and resolution pathways*
Brancaleone V., University of Basilicata
- 11:30 - 11:45** *Defining the role of distinct intestinal macrophage subsets in tissue repair and fibrosis*
Cicia D., Translational Research Center for Gastrointestinal Disorders, Belgium
- 11:45 - 12:00** *Myeloid cell plasticity at the crossroads of inflammation and therapy response*
Porta C., University of Piemonte Orientale "Amedeo Avogadro"
- 12:00 - 12:15** *NLRP3 inflammasome and NF- κ B pathway as molecular drivers of inflammatory diseases*
Irrera N., University of Messina
- 12:15-12:30** **Round table and General discussion of the session**
Gaetani, Bucci, Meli, Lutz
- 12:00-13:00** **Conclusions and Lunch**

22 January 2026
Auditorium “Vittorio Ricevuto”, Polo Papardo

16:45 - 19:00 Short communication

Chairpersons: Smeriglio A. and Campolo M.

- *Targeting enteric glial calcineurin reduces inflammation and provides additional indirect effects on macrophage activation*

Merlo Sara

- *An in vitro model of etoposide-induced senescent microglia: focus on metabotropic glutamate receptors*

Costantino Giuseppe

- *Hypoxia impacts the early microglial response to the β -amyloid peptide involving SIRT1 and mitochondrial function*

Lipari Cristiana

- *Hybrid PLGA/randomly methylated β -cyclodextrin nanoparticles improve the effectiveness of methylene blue in an in vitro Alzheimer's disease model*

De Gaetano Federica

- *RIPK1 mediates neuroinflammation in Alzheimer's disease*

Saitta Alessandra

- *ATM-Silenced SH-SY5Y Cells as a Model for Sterile Neuroinflammation*

Mosca Claudia

- *Spontaneous Neuronal Differentiation and Synaptic Network Formation Driven by Conductive P3HT Films: A Bioelectronic Approach to Neural Regeneration*

Munà Serena

- *Neuroprotective effects of PEA and OEA in a murine model of Parkinson' disease*

Cucinotta Laura

- *Senotherapeutic effects of quercetin against H_2O_2 -induced senescence in SH-SY5Y neuronal cells*

Salomone Federica

- *HSV-1 triggers a replication-dependent inflammatory response that mediates crosstalk between immune and neuronal cellular models*

Trischitta Paola

- *Immune checkpoint inhibitors and neuroinflammatory adverse events: from mechanism to management*

Speranza Desirée

- *Mapping the resolution of gut-immune-brain axis disruptions post-DSS withdrawal*

Gualtieri Chiara

22 January 2026
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16:45 - 19:00 Short communication

Chairpersons: Smeriglio A. and Campolo M.

- *Extracellular NAMPT leads to myelopoiesis in vitro and in vivo acting on the Bone Marrow-Gut axis dysregulation in Inflammatory Bowel Disease*
Balestrero Federica
- *Disruption of Epithelial Barrier Integrity via Altered GILZ/c- Rel/RACK1 Signaling in Inflammatory Bowel Disease*
Limosani Roberta
- *Pharmacological modulation of the paracannabinoid system as a protective strategy against high-fat diet-induced autophagy dysregulation*
Campagna Alessia
- *Protective Effects of Chlorogenic Acid on in vitro Adipocyte Senescence and Metabolic Dysfunction*
Molonia Sofia
- *The nicotinamide phosphoribosyltransferase (NAMPT) as a novel therapeutic target for the treatment of glioblastoma multiforme (GBM)*
Buccellini Alessia
- *Cyclodextrin-Hyaluronic Acid Bioconjugate for Diclofenac Delivery in Inflammatory Diseases*
Sgambellone Natalia
- *OXER1 as a Therapeutic Target in Triple Negative-Inflammatory Breast Cancer (TN-IBC): From Tumor Progression to Immune Microenvironment Modulation*
Oliviero Chiara
- *Variable Virus-Driven Inflammation Across Distinct Cell Lines Generated In Vitro as Models of Distinct Stages of HTLV-1 Infection/Transformation*
Stefanizzi Valeria



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