

12:00-12:15 **NLRP3 INFLAMMASOME AND NF-KB 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**

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 B-AMYLOID PEPTIDE INVOLVING SIRT1 AND MITOCHONDRIAL FUNCTION**

*Lipari Cristiana*

- **HYBRID PLGA/RANDOMLY METHYLATED B-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**

*Mumà Serena*

- **NEUROPROTECTIVE EFFECTS OF PEA AND OEA IN A MURINE MODEL OF PARKINSON' DISEASE**

*Cucinotta Laura*

- **SENOTHERAPEUTIC EFFECTS OF QUERCETIN AGAINST H<sub>2</sub>O<sub>2</sub>-INDUCED SENESCENCE IN SH-SY5Y NEURONAL CELLS**

*Salamone 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*

- **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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BIOLOGICHE,  
FARMACEUTICHE  
ED AMBIENTALI



SOCIETÀ ITALIANA DI FARMACOLOGIA

# INFLAMMATORY-BASED DISEASES, NEURODEGENERATION AND METABOLIC DISORDERS: FROM BENCH TO THE BEDSIDE

UNIVERSITY OF MESSINA  
DEPARTMENT OF CHEMICAL,  
BIOLOGICAL, PHARMACEUTICAL  
AND ENVIRONMENTAL SCIENCES

**22-23 JANUARY 2026**  
AULA MAGNA "VITTORIO RICEVUTO"

COMITATO SCIENTIFICO ED ORGANIZZATIVO:  
Prof.ssa Irene Paterniti - Prof.ssa Adele Romano  
Prof.ssa Cristina Travelli - Prof.ssa Elisabetta Panza

SEGRETERIA SCIENTIFICA LOCALE:  
Prof.ssa Irene Paterniti  
Prof.ssa Emanuela Esposito  
Dott.ssa Giovanna Casili

Convegno organizzato grazie al contributo del MUR nell'ambito del PRIN2020SEMP22 "Regulation of autophagy by N-acyl ethanolamines as a promising approach for the treatment of inflammatory-based diseases: from neurodegeneration to metabolic disorders" PRIN2020SEMP22

PROGRAMMA

22 JANUARY 2026

09:00-09.20	Registration and welcome reception
09:20-09:30	Introduction e greetings <b>Introduction PRIN2020SEMP22 - REGULATION OF AUTOPHAGY BY N-ACYLETHANOLAMINES AS A PROMISING APPROACH FOR THE TREATMENT OF INFLAMMATORY-BASED DISEASES: FROM NEURODEGENERATION TO METABOLIC DISORDERS</b> <i>Paterniti I., Romano A., Travelli C. and Panza E.</i>  <b>Opening Lecture - Chairperson: Paterniti I.</b>
09:30-10:00	<b>LINKING SYNAPTIC DYSFUNCTION AND INFLAMMATION IN EARLY PARKINSON’S DISEASE</b> <i>Gardoni F., University of Milan</i>  <b>Oral Communications</b> <b>NEURAL CROSSTALK IN NEURODEGENERATION: FROM MOLECULAR MECHANISMS TO PHARMACOLOGICAL TARGETS</b> Chairpersons: <i>Grilli M and Esposito E.</i>
10:00-10:15	<b>ULTRAMICRONIZED PALMITOYLETHANOLAMIDE RESTORES ASTROCYTE–NEURON METABOLIC COUPLING IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER’S DISEASE</b> <i>Scuderi C., University of Rome</i>
10:15-10:30	<b>ENDOCANNABINOIDS AND CONGENERS IN PLASTIC CHANGES ASSOCIATED WITH PATHOLOGICAL PAIN</b> <i>Luongo L., University of Campania “L. Vanvitelli»</i>
10:30-10:45	<b>UNMASKING ALZHEIMER’S DISEASE: THE MULTIFACTORIAL PUZZLE BEYOND PROTEIN MISFOLDING</b> <i>Balducci C., Mario Negri Institute IRCCS</i>
10:45-11:00	<b>ROLE OF MICROGLIA IN OLIGOTAU-INDUCED NEURODEGENERATION: OPPOSITE ROLES OF PRP AND TGF-β1 SIGNALING</b> <i>Gullotta G, IRCCS Oasi Maria SS Onlus, Troina (EN)</i>
11:00-11:15	<b>FROM NEUROINFLAMMATION TO PROTEIN DYSHOMEOSTASIS: THE ROLE OF ASTROGLIAL CALCINEURIN IN ALZHEIMER’S DISEASE</b> <i>Saverio V., University of Piemonte Orientale “Amedeo Avogadro”</i>
11.15-11.30	<b>ROUND TABLE AND GENERAL DISCUSSION OF THE SESSION</b> <i>Caraci A., Gardoni F., Copani A., Esposito E., Sortino M., Sottile F., D’Avella D.</i>
11:30-11:45	Coffee break

	<b>Plenary Lecture - Chairperson: D’Avella D.</b>
11:45-12:15	<b>NEUROMODULATION, IMMUNITY AND CHRONIC INFLAMMATION</b> <i>Landi A., University of Padova</i>  <b>Plenary Lecture - Chairperson: Cirino G.</b>
12:15-12:45	<b>RESOLUTION PHARMACOLOGY: A NEW APPROACH TO THE MANAGEMENT OF CHRONIC DISEASES</b> <i>Perretti M., William Harvey Research Institute, London</i>
12:45-14.30	Lunch  <b>Oral Communications</b> <b>METABOLIC DISEASES: MOLECULAR INSIGHTS AND PHARMACOLOGICAL PERSPECTIVES</b> Chairpersons: <i>Gaetani S. and Bucci M.</i>
14:30-14:45	<b>PHARMACOLOGICAL MODULATION OF PARACANNABINOID SIGNALING IN A RODENT MODEL OF DIET-INDUCED OBESITY: INSIGHTS INTO MULTI-ORGAN DYSFUNCTION</b> <i>Friuli M., Link Campus University, Rome</i>
14:45-15:00	<b>DEFECTIVE PROTEIN PERSULFIDATION IN OBESITY-ASSOCIATED SKELETAL MUSCLE DYSFUNCTION: ROLE OF SIRT-1</b> <i>Vellecco V., University of Naples Federico II</i>
15:00-15:15	<b>TARGETING THE CENTRAL HISTAMINERGIC SYSTEM TO COUNTERACT OBESITY-ASSOCIATED COGNITIVE DEFICITS</b> <i>Provensi G., University of Florence</i>
15:15-15:30	<b>REWIRING METABOLIC ORGAN NETWORKS IN OBESITY: FROM MECHANISMS TO THERAPY</b> <i>Pirozzi C., University of Naples Federico II</i>
15:30-15:45	<b>TARGETING NPY PATHWAYS FOR METABOLIC DISORDERS: INSIGHTS FROM LIMBIC NPY1R DELETION</b> Einaudi G., University of Camerino
15:45-16:00	<b>ROUND TABLE AND GENERAL DISCUSSION OF THE SESSION</b> <i>Gaetani, Bucci, Meli, Lutz</i>
16:00-16:15	Coffee break  <b>Plenary Lecture - Chairperson: Romano A.</b>
16:15-16:45	<b>GUT HORMONES IN THE TREATMENT OF METABOLIC DISEASES</b> <i>Thomas Lutz, University of Zurich</i>
16:45-19:00	<b>Short communications - Chairpersons: Smeriglio A. and Campolo M.</b>
19:00	Conclusions
20:00	Dinner

23 JANUARY 2026

	<b>Plenary Lecture - Chairperson: Panza E.</b>
09:00 09:30	<b>THROMBIN CHRONIC INFLAMMATION: NEW ROLES FOR AN OLD PLAYER</b> <i>Vergnolle N., University of Toulouse</i>  <b>Oral Communication</b> <b>INFLAMMATORY BASED DISEASES: NOVEL THERAPEUTIC STRATEGIES</b> Chairperson: <i>Bruscoli S and Meli R.</i>
09:30-09:45	<b>ER–MITOCHONDRIAL CONTACTS AS A NOVEL THERAPEUTIC TARGET TO CONTROL CELL METABOLISM AND FUNCTION IN NEURODEGENERATION AND BEYOND</b> <i>Lim D., University of Piemonte Orientale “Amedeo Avogadro</i>
09:45-10:00	<b>BREAKING BARRIERS: HOW LEUKEMIA DRIVE NEUROINFLAMMATION</b> <i>Bereshchenko O., University of Perugia</i>
10:00-10:15	<b>TARGETING THE GUT MICROBIOTA–ENDOCANNABINOIDOME AXIS TO COUNTERACT INFLAMMATION AND CELLULAR DYSFUNCTIONS IN INCURABLE RARE DISORDERS</b> <i>Iannotti F., Institute of Biomolecular Chemistry, CNR Napoli</i>
10:15-10:30	<b>DIVERGENT RECOVERY OF THE GUT–BRAIN AXIS ACROSS ACUTE, RECOVERY AND CHRONIC PHASES OF DSS-INDUCED INTESTINAL INFLAMMATION</b> <i>Lanni C., University of Pavia</i>
10:30-10:45	Coffee break  <b>Plenary Lecture - Chairperson: Travelli C.</b>
10:45 11:15	<b>ENTERIC NERVOUS SYSTEM: AN IMMUNOREGULATORY GATEKEEPER IN THE GUT</b> <i>Matteoli G., Translational Research Center for Gastrointestinal Disorders, Belgium</i>  <b>Oral Communication</b> <b>INFLAMMATORY PATHOLOGIES: NEW THERAPEUTIC FRONTIERS AND SIGNAL NETWORK DYNAMICS</b> Chairpersons: <i>Lanni C. and Trombetta D.</i>
11:15-11:30	<b>NOVEL INSIGHTS IN THE CONTROL OF VASCULAR INFLAMMATION: CROSS-TALK BETWEEN GASEOUS MOLECULES AND RESOLUTION PATHWAYS</b> <i>Brancaleone V., University of Basilicata</i>
11:30-11:45	<b>DEFINING THE ROLE OF DISTINCT INTESTINAL MACROPHAGE SUBSETS IN TISSUE REPAIR AND FIBROSIS</b> <i>Cicia D., Translational Research Center for Gastrointestinal Disorders, Belgium</i>
11:45-12:00	<b>MYELOID CELL PLASTICITY AT THE CROSSROADS OF INFLAMMATION AND THERAPY RESPONSE</b> <i>Porta C., University of Piemonte Orientale “Amedeo Avogadro”</i>