

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

Munaò Serena

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

Cucinotta Laura

- SENOTHERAPEUTIC EFFECTS OF QUERCETIN AGAINST H₂O₂-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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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

22-23 JANUARY 2026
AULA MAGNA "VITTORIO RICEVUTO"

SEGRETARIA 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-acylethanolamines as a promising approach for the treatment of inflammatory-based diseases: from neurodegeneration to metabolic disorders" PRIN2020SEMP22



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PROGRAMMA

22 JANUARY 2026

09:00-09:20 Registration and welcome reception

09:20-09:30 Introduction e greetings

Introduction PRIN2020SEMP22 - 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 **ULTRAMICRONIZED PALMITOYLETHANOLAMIDE RESTORES ASTROCYTE-NEURON METABOLIC COUPLING IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE**

Scuderi C., University of Rome

10:15-10:30 **ENDOCANNABINOID 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 PRP 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

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**

23 JANUARY 2026

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

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**

Ciccia 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"