



Università
di Catania



Società italiana
di istochimica



SINS
ITALIAN SOCIETY FOR NEUROSCIENCE



SIAI
Società Italiana
di Anatomia e Istologia



XXXIV Congresso Nazionale Gruppo Italiano per lo Studio della Neuromorfologia

Catania, 22-23 Novembre 2024

Sede congressuale: aula “*Coro di Notte*” Monastero Dei
Benedettini, p.zza Dante Alighieri 32



Wolters Kluwer

PICCIN

edra

GIORNO 22 NOVEMBRE 2024

14:00-14:30

APERTURA DEI LAVORI E SALUTI ISTITUZIONALI

Saluti del Direttore del Dipartimento di Scienze Biomediche e Biotecnologiche, Università degli Studi di Catania, **Prof.ssa Mariangela Sortino**

Saluti del Presidente GISN

Prof. Fabrizio Michetti

Saluti del Presidente SIAI

Prof. Lucio Cocco

14:30-15:00

LETTURA INAUGURALE (MODERATORE: Papa M)

Prof. Nathalie Rouach, Neuroglial Interactions in Cerebral Physiology and Pathologies laboratory Center for Interdisciplinary Research in Biology, Collège de France
“STARS FOR BRAIN PLASTICITY AND BEHAVIOR”

15:00-15:45

SESSIONE I: NEURODEGENERATION – SYNUCLEINOPATHIES

(MODERATORI: Cappelletti G, Michetti F)

- **15:00-15:15** THE NORADRENERGIC SYSTEM AND POST-HYPOXIC EPILEPSY
Scotto M, Galgani A, D'Amora M, Tantussi F, Bartolini E, Bosco P, Raffa V, De Angelis F, Tosetti M, Giorgi FS
- **15:15-15:30** ALPHA-SYNUCLEIN PATHOLOGY OF THE PERIPHERAL NERVOUS SYSTEM IN PARKINSON'S DISEASE: A PROMISING BIOMARKER
Campagnolo M, Tushevski A, Russo FP, Carecchio M, Macchi V, De Caro R, Parchi P, Porzionato A, Antonini A and Emmi A
- **15:30-15:45** CLUSTERIN AND ALPHA-SYNUCLEIN ASSOCIATION IN PARKINSON'S DISEASE
Zanchi G, Pizzi S, Calogero AM, Mazzetti S, Triggiani T, Rolando C, Corti C, Pezzoli G, Russo I and Cappelletti G

15:45-16:30

SESSIONE II: BRAIN TUMORS (MODERATORI: Boido M, Pacini A)

- **15:45-16:00** TRACT DENSITY FOR SURVIVAL STRATIFICATION IN GLIOBLASTOMA
Falcó-Roget J, Basile GA, Milardi D and Cacciola A
- **16:00-16:15** OF MICE, HUMANS, FISH: THE GLIOBLASTOMA SPREADING
Virtuoso A, Milior G, Moulard J, Evstratova A, De Luca C, Cirillo G, De Angelis F, Huberfeld G, Rouach N and Papa M

- **16:15-16:30** NAVIGATING THE BLOOD-BRAIN-TUMOR BARRIER TRANSITION
Mora A, d'Amati A, Girolamo F, Errede M, Marzullo A, De Giorgis M, Signorelli F, Ingravallo G and Virgintino D
-

16:30-16:50

PAUSA CAFFÈ

16:50-18:25

SESSIONE III: NEURODEGENERATION AND NEUROPROTECTION

(MODERATORI: Maugeri G, Tayebati SK)

- **16:50-17:05** THE NEUROTOXIN MPP+ DAMAGES CHOLINERGIC NEURONS
Lenzi P, Lazzeri G, Ferrucci M, Scotto M, Binda P and Fornai F
 - **17:05- 17:25** DRUG REPOSITIONING FOR SPINAL MUSCULAR ATROPHY
Boido M, Menduti G, Rasà DM, Stanga S, Artero R, Martinat C, Di Schiavi E and Vercelli A
 - **17:25-17:40** A ROLE FOR DYSFUNCTIONAL MITOCHONDRIA IN ALS
Stanga S, Lall D, Diaz F, Di Lullo E, Mezzanotte M, Chicote J, Hernandez S, Sansa A, Prochiantz A and Svendsen CN
 - **17:40-17:55** ANALYSIS OF THE MODULATION AND ABLATION OF S100B GENE ON GLIAL CELLS: EFFECTS ON MULTIPLE SCLEROSIS
Ruggirello M, Clementi ME, Stabile AM, Pistilli A, Bartolini D, Di Liddo R, Valeriani F, Ria F, Rende M, Romano Spica V, Di Sante G and Michetti F
 - **17:55-18:10** CB1 RECEPTORS IN THE HIPPOCAMPUS OF TWO LINES OF MALE RATS DIFFERING IN THEIR RESPONSE TO STRESSORS
Serra MP, Boi M, Lai Y, Trucas M, Fernández-Terue A, Corda MG, Giorgi O and Quartu M
 - **18:10-18:25** NORADRENERGIC DENERVATION ON MOUSE BRAIN AGEING
Galgani A, Scotto M, Federighi G, Scuri R, Boido M, Vercelli A and Giorgi FS.
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18.25-18:35

PRESENTAZIONE SPONSORIZZATA (MODERATORE: D'Agata V)

Dott. Mark Brega, Wolters Kluwer: Human anatomy digital solutions

18:35-19:15 ASSEMBLEA DEI SOCI

20:30 CENA SOCIALE

GIORNO 23 NOVEMBRE 2024

9:00-9:30

LETTURA MAGISTRALE (MODERATORE: De Giorgio R)

Prof. Karl-Herbert Schaefer, University of Applied Sciences Kaiserslautern, Germany.

“NEURODEGENERATION: A MATTER OF GUT?”

09:40-10:40

SESSIONE IV: NEURAL DISORDERS (MODERATORI: Pellitteri R, Vercelli A)

- **09:40-09:55** SEXUALLY DIMORPHIC ORGANIZATIONAL ROLE OF ERs ON ANXIETY AND 5-HT SYSTEM
Ricci E, Paiano M, Tanese G, Nasini S, Collado P, Pinos H, Gotti S, Marraudino M
 - **09:55-10:10** ALTERED MATERNAL NUTRITION AFFECTS THE STRESS AXIS OF THE MOTHER AND OFFSPRING
Bellantoni M, Ricci E, Signorino E, Mezzanotte M, Abid K, Tassone S, Stanga S, Marraudino M
 - **10:10-10:25** ASTROCYTES IN SUICIDE AND PSYCHIATRIC DISORDERS
Tambuzzi S, Massari S, Alini M, Madaschi L, Maderna E, Cattaneo C and Amadeo A
 - **10:25-10:40** CHRONIC MILD STRESS IN A PARKINSON'S DISEASE MODEL
Kashyrina M, De Nuccio F, Serinelli FC, Nicolardi G, Panaro MA, Cianciulli A, Calvello R, Porro C, Ichas F, Lofrumento DD
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10:40-11.10

PAUSA CAFFÈ

11.10-12:45

SESSIONE V: PERIPHERAL SYSTEM AND GUT-BRAIN AXIS

(MODERATORI: D'Amico AG, Tomassoni D)

- **11.10-11:15** MORPHOLOGICAL AND METABOLOMIC CHANGES IN PIPN
Bonomo R, Canta A, Chiorazzi A, Carozzi VA, Meregalli C, Pozzi E, Alberti P, Marmioli P, Skene DJ and Cavaletti G
- **11.15-11:30** MALADAPTIVE PLASTICITY OF THE NEUROVASCULAR UNIT
De Luca C, Assunta Virtuoso A, Marco Bocchetti M, Giovanni Cirillo G, Scrima M and Papa M
- **11.30-11:45** IN VIVO STUDY OF CARFILZOMIB-INDUCED NEUROPATHY
Iseppon F, Chiorazzi A, Canta A, Alberti P, Carozzi VA, Pozzi EI, Cherchi L, Fabbro V, Rodrigues-Menendez V and Meregalli C
- **11.45-12:00** dECM HYDROGELS FOR SUPPORTING NERVE REGENERATION
Metafuno M, Ciriza J, Fernandez-Carro E, Muratori L and Raimondo S

- **12:00-12.15** THE ROLE OF GUT-MICROBIOTA ON PERIPHERAL NERVES
Pellegrino D, Farzin S, Cicconetti C, Bertone F, Oliviero S, Basic M, Bolsega S, Haastert-Talini K, Cescon M, Gambarotta G and Ronchi G
 - **12:15-12:30** A FUNCTIONAL COOKIE MODULATES THE GUT WALL AND ENS IN 3xTg-AD MICE
Bellitto V, Grasselli F, Vennarucci G, Martinelli I, Tayebati SK, Vittadini E, Eleuteri AM, Bonfili L, Amenta F and Tomassoni D
 - **12:30-12:45** ENDOTHELIAL TP DEPLETION LEADS TO ENS ALTERATIONS
Neri I, Boschetti E, Saha T, Rommel S, Schulte S, Gries M, De Giorgio R, Manzoli L, Ratti S and Schäfer KH
-

12:45 -13:45

SESSIONE VI: NEUROMORPHOLOGY AND METABOLISM (MODERATORI: De Luca A, Quartu M)

- **12:45 -13:00** INTRANASAL DELIVERY OF EXTRACELLULAR VESICLES FROM ADIPOSE MESENCHYMAL STEM CELLS AS A NOVEL THERAPY FOR MULTIPLE SCLEROSIS
Caprioli M, Virla F, Angelini G, Bani A, Scambi I, Marostica G, Furlan R, Constantin G, Bonetti. B, Mariotti R, Rossi B and Turano E
 - **13.00-13.15** NEURAL DIFFERENTIATION OF ADIPOSE STEM CELLS BY MELATONIN
Romano IR, Mannino G, Russo C, Pellitteri R, Giuffrida R and Lo Furno D
 - **13.15-13.30** GLYMPHATIC SYSTEM ALTERATION IN AN ANIMAL MODEL OF METABOLIC SYNDROME
Guarnieri G, Mencarelli F, Lazzerini L, Filippi S, Nosi D, Jirak D, Martin Kocourek M, Zdeneck Musil, Petr Zach and Morelli A
 - **13:30-13:45** SEX-BASED REGULATION OF VESSEL-ASSOCIATED MICROGLIA
Rasile M, Sciolto S, Gomez GP, Rossi A and Matteoli M
-

13:45-14.45

PAUSA PRANZO E DISCUSSIONE POSTER

14.45-16.15

SESSIONE VII: NEW FINDINGS AND TECHNIQUES IN NEUROSCIENCE (MODERATORI: Mariotti R, Milardi D)

- **14.45-15.00** IMAGING THE LYSOSOME IN CELLULAR SYSTEMS
Baldassarro VA, Galeotti M, Satanassi E, Giardino L, Calzà L and Quadalti C

- **15.00-15.15** PROTEASOME INHIBITORS: IN VITRO MORPHO-FUNCTIONAL CHANGES
Fabbro V, Malacrida A, Iseppon F, Tarasiuk O, Pero ME, Bartolini F, Mauri M, Stanga S, Cavaletti G and Meregalli C
 - **15.15-15.30** AN ANATOMICAL STUDY ON THE ATYPICAL SOM+ NEURONS
Salamanca G, Bombardi C, Antonelli F, Monai A, De Giorgio R, Mazzoni M, Grandis A, Tagliavia C, Costanzini A and Papaleo F
 - **15.30-15.45** BRIDGING THE GAP BETWEEN WHITE MATTER ANATOMY AND FUNCTION
Basile GA, Torre AM, Rizzo G, Cacciola A
 - **15.45-16.00** EXECUTIVE FUNCTIONS AND DUAL TASK WALKING
Lucariello A, Fullin A, Gargiulo L, De Girolamo CI, Moccaldi N, Arpaia P, De Luca A and De Blasiis P
 - **16.00-16.15** ANALYSIS OF FACE INNERVATION BY ULTRASOUND TECHNOLOGY
Amenta F, Dima MM, Dima S, Nittari G, Tomassoni D, Traini E
 - **16.15- 16.30** VISUAL TARGET DISTANCE AND POSTURAL STABILITY
De Blasiis P, Lucariello A, Fullin A, De Girolamo CI, Trucillo M, De Luca A
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CONCLUSIONI DEL DIRETTIVO GISN E PREMIAZIONI.

SESSIONE POSTER

1. SHEAR STRESS-INDUCED BBB ALTERATION: THE ROLE OF OXIDATIVE STRESS
Branca J, *Guarnieri G, Mencarelli F, Morelli A, Gulisano M, Pacini A.*
2. NEUROPROTECTIVE EFFECTS OF POLYPHENOLS AGAINST A-SYNUCLEIN AGGREGATION
Basellini MJ, *Granadino-Roldán JM, Torres PV, Simmini G, Rubio-Martinez J, Marín S, Cascante M, Cañuelo A and Cappelletti G*
3. BaP INHIBITS HUMAN GnRH NEURON MIGRATION BY ALTERING THE RhoA PATHWAY
Guarnieri G, *Lazzerini L, Mencarelli F, Mattei G, Magi A, Becatti M, Branca J, Pacini A and Morelli A*
4. BRAIN IRON AND MITOCHONDRIAL FEATURES IN 5XFAD MOUSE
Mezzanotte M, *Chicote J, Scimia N, Toce A, Rosano V and Stanga S*
5. NEW MECHANISMS AND STRATEGIES TO PREVENT AD
Chicote J, *Mezzanotte M, Vergara C, Toce A, Rosano V, Rodríguez-Pascau L, Pizcueta P, and Stanga S*
6. THE STRESS IMPACT ON AMYOTROPHIC LATERAL SCLEROSIS
Rasà DM, *Stoppa I, Berenger-Currias N, Ciura S, Kabashi E, Martinat C and Boido M*
7. CHOLINERGIC TREATMENT ON BRAIN VOLUME IN MCI
Traini E, *Carotenuto A, Hossein MA, Andreone V and Amenta F*
8. THE SUBMUCOSAL PLEXUS IN THE PIG VS HUMAN COLON
Costanzini A, *Mazzoni M, Cabanillas L, Caremoli F, Million M, Larauche M, Clavenzani P, De Giorgio R and Sternini C*
9. INVOLVEMENT OF PKC ϵ IN ALS MOTOR NEURON DEGENERATION
D'Amico AG, *La Cognata V, Maugeri G, Morello M, Guarnaccia M, Magrì B, Aronica E, Alkon D, Cavallaro S, D'Agata V*
10. MODERATE AEROBIC EXERCISE UP-REGULATES ADNP IN SPECIFIC RAT BRAIN AREAS
Maugeri G, *D'Amico AG, Federico C, Saccone S, Musumeci G and D'Agata V*
11. ACTIVITY OF THIOCTIC ACID AND CHOLINERGIC PRECURSORS ON NEUROINFLAMMATION
*Martinelli I, Roy P, Bellitto V, Amenta F, Tayebati SK, and **Tomassoni D***
12. EFFECT OF DEXAMETHASONE OR ESTRADIOL ON THE EXPRESSION OF NESTIN, NEUROFILAMENT, BETA-TUBULIN AND MAP KINASE IN BONE MARROW MESENCHYMAL STEM CELLS CULTURES
*Tibullo D, Grasso S, Bronzi D, Camiolo G, Barbagallo F, Barbagallo A, Giallongo C and **Avola R***

13. MULTIMODAL GRADIENTS OF THE HUMAN PULVINAR
*Basile GA, **Torre AM**, Cogliandro G, Anastasi GP, Milardi D and Cacciola A*
14. A MORPHOLOGICAL DETECTION OF PIGMENT AND NEUROTRANSMITTERS IN THE HUMAN DENTATE NUCLEUS
***Flace P**, Caringella ME, Galletta D, Santangelo G, Stolfa M, Milardi D, Scarcella V, Livrea P, Quartarone A, and Marzullo A*
15. SKIN BIOPSIES' POTENTIAL FOR THE STUDY OF PARKINSON'S DISEASE
***Calogero AM**, Basellini MJ, Contaldi E, Mazzetti S, Novello C, Luppino A, Isaias IU, Pezzoli G and Cappelletti G*
16. FIRST VISUALIZATION OF GATA1 IN MICE BRAIN
***Caturano C**, Bellomi F, La Barbera L, Mancinelli R, Leone S, Arciprete F, Verardi V, Zingariello M, Franco Migliaccio AR and Vivacqua G*
17. GATA1LOW MICE: A NEW MODEL FOR NEURODEGENERATION?
***Bellomi F**, Caturano C, Podgajna M, Kaczyńska A, Węgrzynowicz M, Zingariello M, Falchi M, Franco Migliaccio AR and Vivacqua G*

INFORMAZIONI GENERALI

Comunicazioni orali: le comunicazioni orali saranno tenute in italiano e dovranno avere una durata di 10 minuti (+5 discussione).

Poster: i poster dovranno avere come dimensioni massime 70 cm x 100 cm e saranno esposti dall'inizio del congresso sino alla chiusura dei lavori

CONSIGLIO DIRETTIVO DEL G.I.S.N.

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XXXIV CONGRESSO NAZIONALE
GRUPPO ITALIANO PER LO STUDIO DELLA
NEUROMORFOLOGIA

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