C.M.E. Credits

CME accreditation (valid for Italian participants only) for:

PHYSICIAN - neurology, psychiatry, palliative care, pharmacology and clinical toxicology, geriatrics, neurosurgery, physical medicine and rehabilitation, diabetes and metabolic diseases

PHARMACIST

BIOLOGIST

CME credits: 19

Italian CME credits will be granted to those participants who fully attend all sessions and duly fill in the evaluation guestionnaires answering correctly 75% of the guestions. An attendance certificate will be handed on site at the end of the event, whereas the credit certificate will be mailed.

ORGANIZING SECRETARIAT





DOC CONGRESS S.r.I.

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A SPECIAL THANK TO:













NEURONS:

toward a less neuronocentric view of brain disorders

SCIENTIFIC ORGANIZERS

Pier Luigi Canonico Mariagrazia Grilli University of Piemonte Orientale

Novara, Italy

SCIENTIFIC BOARD

Luca Bonfanti (Torino, Italy) Carola Eva (Torino, Italy) Sabatino Maione (Napoli, Italy) Michela Matteoli (Milano, Italy) Micaela Morelli (Cagliari, Italy) **Cesare Patrone** (Stockholm, Sweden) Anna Pittaluga (Genova, Italy) Maria Angela Sortino (Catania, Italy) **December 1-3, 2016**

Torino Incontra Via Nino Costa, 8 - 10123 Torino

CONFERENCE AIM

MORE THAN NEURONS:

Increasing knowledge on newly identified functions of non-neuronal cells together with suggest a shift from a neurono-centric to a glial-inclusive viewpoint in neuroscience and in

preclinical and clinical findings implicating the involvement of non-neuronal cells in initiation, progression or protection of several neuropathologies. Our perspective is that therapeutic and functional performance may open new venues for relevant and undertreated brain

THURSDAY, DECEMBER 1

10.00	Onsite registration and badge distribution
13.00	Welcome & Introduction
14.00	OPENING HONORARY LECTURE Introduced by Salvatore Cuzzocrea (Messina)
	SPECTRUM OF ASTROGLIOPATHOLOGY: FROM ATROPHY AND LOSS OF FUNCTION TO REACTIVITY Alexei J. Verkhratsky (University of Manchester, Manchester, UK) This lecture has been made possible through an unrestricted grant from
	SESSION 1. MTN IN NEUROINFLAMMATION AND NEURODEGENERATION (part 1) Chairpersons: Maurizio Memo (Brescia) and Stefano Pluchino (Cambridge)
14.50	HARNESSING THE IMMUNE SYSTEM FOR REPAIR IN ALZHEIMER'S DISEASE Kuti Baruch (Weizmann Institute of Science, Rehovot, Israel)
15.20	DISRUPTION OF THE ASTROCYTIC TNFR1-GDNF AXIS ACCELERATES MOTOR NEURON DEGENERATION AND DISEASE PROGRESSION IN AMYOTROPHIC LATERAL SCLEROSIS Daniela Rossi (Istituti Clinici Scientifici Maugeri Spa-SB, Pavia, Italy)
15.50	NEURAL STEM CELL TRANSPLANTATION INDUCES STROKE RECOVERY BY UPREGULATING GLUTAMATE TRANSPORTER GLT-1 IN ASTROCYTES Marco Bacigaluppi (San Raffaele University, Milano, Italy)
16.20	Discussion
16.40	Coffee break
	SESSION 1. MTN IN NEUROINFLAMMATION AND NEURODEGENERATION (part 2) Chairpersons: Bianca Marchetti (Catania) and Anna Pittaluga (Genova)
17.15	STEM CELL SIGNALLING AND REPAIR OF MULTIPLE SCLEROSIS BRAIN Stefano Pluchino (University of Cambridge, UK)
17.45	ROUNDTABLE Simona Perga (University of Torino, Torino, Italy) Marco Milanese (University of Genova, Genova, Italy) Valentina Iori (Mario Negri Institute, Milano, Italy) Mariana Coelho da Mota (University of Brescia, Brescia, Italy) Elzbieta Janda (Magna Grecia University, Catanzaro, Italy)
19.00	Discussion
19.30	21.00 Opening Reception

FRIDAY, DECEMBER 2

SESSION 2. MTN IN PAIN AND NERVE INJURY

Chairpersons: Sabatino Maione (Napoli) and Santina Chiechio (Catania)

08.30 DEFECTIVE GLUTAMATE AND K⁺ CLEARANCE BY CORTICAL ASTROCYTES IN FAMILIAL HEMIPLEGIC **MIGRAINE TYPE 2**

Daniela Pietrobon (University of Padova, Padova, Italy)

09.00 Discussion

Giulia Magni (University of Milano, Milano, Italy)

Beatrice Riva (University of Piemonte Orientale, Novara, Italy)

09.45 HONORARY LECTURE

Introduced by Alexei J. Verkhratski (Manchester)

NON-NEURONAL CELLS IN THE CNS CONTROL OF METABOLISM

Matthias H. Tschoep (Institute for Diabetes and Obesity, Helmholtz Zentrum

München, and Technische Universitat Munchen, Germany)

10.35 Coffee break

SESSION 3. BRAIN DYSFUNCTION IN METABOLIC SYNDROME AND DIABETES

Chairpersons: Cesare Patrone (Stockholm) and Massimo Collino (Torino)

11.00 THE DIPEPTYDYL PEPTIDASE 4 INHIBITOR LINAGLIPTIN PARTIALLY REVERSES DIABETIC-INDUCED EFFECTS ON NEURONS AND AGE-INDUCED EFFECTS ON GLIAL CELLS IN THE MOUSE STRIATUM

Grazyna Lietzau (Karolinska Institute, Stockholm, Sweden)

11.15 ROUNDTABLE

Simone Romano (University of Milano, Milano, Italy) Raffaella Mastracola (University of Torino, Torino, Italy)

11.45 Discussion

12.00 Lunch & poster visit

SESSION 4. MTN IN NEUROPSYCHIATRIC AND NEURODEVELOPMENTAL DISORDERS (PART 1)

Chairpersons: Giovanbattista Bonanno (Genova) and Pier Luigi Canonico (Novara)

13.50 PHARMACOLOGICAL TREATMENT OF DOWN SYNDROME

Renata Bartesaghi (University of Bologna, Bologna, Italy)

14.20 NEUROBIOLOGICAL LINKS BETWEEN DEPRESSION AND ALZHEIMER'S DISEASE: THE ROLE OF TGF-B1 SIGNALING PATHWAY

Filippo Caraci (University of Catania, Catania, Italy)

14.50 ASTROCYTE-DERIVED PROTEASES AS POTENTIAL CONTRIBUTORS TO ANTIDEPRESSANT EFFICACY

Katherine Conant (Georgetown University, Washington DC, USA)

15.20 Coffee break

15.40 HONORARY LECTURE

Introduced by Maria Angela Sortino (Catania)

NON NEURONAL TARGETS FOR PHARMACOLOGICAL THERAPY OF BRAIN DISORDERS

Ferdinando Nicoletti (Sapienza University, Roma, Italy)

This lecture has been made possible through an unrestricted grant from **Roche**



SESSION 4. MTN IN NEUROPSYCHIATRIC AND NEURODEVELOPMENTAL DISORDERS (PART 2)

Chairpersons: Giovanbattista Bonanno (Genova) and Pier Luigi Canonico (Novara)

16.30 ROUNDTABLE

Silvia Alboni (University of Modena-Reggio Emilia, Modena, Italy)

Alessandro Ieraci (University of Milano, Milano, Italy)

Erika Zamberletti (University of Insubria, Busto Arsizio, Italy)

Majia Castren (University of Helsinki, Helsinki, Finland)

17.30 Discussion

18.00 - 20.45 Poster Session + wine & cheese reception

SATURDAY, DECEMBER 3

SESSION 5. NG2 CELLS & OLIGODENDROCYTES: RELEVANCE IN HEALTH, DISEASE AND THERAPY

Chairpersons: Agata Copani (Catania) and Maria Pia Abbracchio (Milano)

08.30 PROMOTING REMYELINATION VIA GPR17 RECEPTOR: A NEW APPROACH TO NEURODEGENERATIVE AND NEUROPSYCHIATRIC DISEASES

Maria Pia Abbracchio (University of Milano, Milano, Italy)

09.05 ROUNDTABLE

Enrica Boda (University of Torino, Torino, Italy)

Sandra Braz (Imagine Institute, Paris, France)

Chiara De Nuccio (Istituto Superiore di Sanità, Roma, Italy)

Roberta Parolisi (University of Torino, Torino, Italy)

10.05 Discussion

10.20 Coffee break

10.45 Closing Honorary Lecture

Introduced by Nicoletta Brunello (Modena)

THE NEUROVASCULAR UNIT, BLOOD-BRAIN BARRIER, AND BLOOD-BRAIN INTERFACE IN DRUG DELIVERY TO THE BRAIN: AN ENDOCENTRIC VIEW

William A. Banks (University of Washington, Seattle, WA, USA)

This lecture has been made possible through an unrestricted grant from ANGELINI

SESSION 6. NEURONAL AND NON NEURONAL CELL CROSS-TALK IN HEALTH AND DISEASES

Chaired by Michela Matteoli (Milano) and Marina Pizzi (Brescia)

11.35 ROUNTABLE

Giuseppina D'Alessandro (Sapienza University, Roma, Italy)

Irene Appolloni (University of Genova, Genova, Italy)

Annunziato Morabito (EBRI, Roma, Italy)

Valeria Bortolotto (University of Piemonte Orientale, Novara, Italy)

Ben Korin (Israel Institute of Technology, Haifa, Israel)

12.50 Discussion

13.00 Lunch

SESSION 7. NEURAL STEM CELLS, NEURO-GLIA-VASCULAR INTERACTIONS, BLOOD BRAIN **BARRIER AND GUT-BRAIN AXIS**

Chairpersons: William A. Banks (Seattle), Mariagrazia Grilli (Novara)

14.30 MENINGES: FROM PROTECTIVE MEMBRANES TO STEM CELL NICHE

Ilaria Decimo (University of Verona, Verona, Italy)

15.00 VASCULAR INFLAMMATION AND NEUTROPHIL TRAFFICKING IN ALZHEIMER'S DISEASE

Elena Zenaro (University of Verona, Verona, Italy)

15.30 ROUNDTABLE

Simona Spampinato (University of Catania, Catania, Italy) Francesca Guida (University of Napoli, Napoli, Italy)

16.00 General discussion

16.20 - 17.00 Concluding remarks

