



ACCADEMIA NAZIONALE
DEI LINCEI

SPRINGER NATURE
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CELL DEATH
DIFFERENTIATION



DEUTSCHE ZENTRUM FÜR
NEURODEGENERATIVE
ERKRANKUNGEN (DZNE)

CONFERENCE

NEURODEGENERATIVE DISEASES *from molecular mechanisms to prospective therapies*

29 - 30 APRIL 2025

Organizing Committee: Ivan DIKIC (University of Frankfurt), Gerry MELINO (Lincoo, Università Roma Tor Vergata), Pierluigi NICOTERA (Fondazione Mondino, Pavia)

PROGRAMMA

The symposium plans to discuss the state of the art of developments in the field of neurodegenerative diseases between the Deutsche Zentrum für Neurodegenerative Erkrankungen (DZNE) and Italian colleagues hosted by the Italian Academy of Sciences (Accademia dei Lincei).

Tuesday April 29th

10.00 *Welcome addresses*

Roberto ANTONELLI (President of the Accademia Nazionale dei Lincei)

Carlo DOGLIONI (vice President of the Accademia Nazionale dei Lincei)

Opening

Gerry MELINO (Lincoo, Università Roma Tor Vergata)

Pierluigi NICOTERA (Fondazione Mondino, Pavia)

10.15 **Keynote lecture: Lennart MUCKE** (Gladstone Institute of Neurological Disease and University of California San Francisco, former Chairman of the DZNE Senate): *Therapeutic Strategies Targeting Neuronal and Glial Dysfunctions in Alzheimer's Disease*

presented by Rick MORIMOTO (Chicago), Pierluigi NICOTERA (Fondazione Mondino, Pavia)

Session 1: Proteostasis and Neurodegenerations

Chairs: Pierluigi NICOTERA (Fondazione Mondino, Pavia), Joachim SCHULTZE (DZNE, Bonn)

11.00 Rick MORIMOTO (Northwestern University Chicago): *Proteostasis and neurodegenerative diseases*

11.30 Ivan DIKIC (University Frankfurt): *Proteostasis & ubiquitous ubiquitin in diseases*

12.00 Coffe break

12.15 Christian HAASS (DZNE, Munich): *The role of microglia in Alzheimer's disease*

12.45 Gabor PETZOLD (DZNE Bonn): *Float like a butterfly, sting like a bee – clinical research in neurodegeneration*

13.15 Intervallo

Session 2: New highlights and perspectives for Neurodegenerative Disease

Chairs: Cesare MONTECUCCO (Linco, Università di Padova), Nicolas BAZAN (New Orleans)

- 15.00 Thomas GASSER (DZNE Tübingen): *What have the genes taught us on Parkinson's and other neurodegenerative diseases?*
- 15.30 Pier Giorgio MASTROBERNARDINO (Università de L'Aquila): *Mitochondrial dysfunction and age-related genome instability in Parkinson's disease*
- 16.00 Jeffery KELLY (The Scripps Research Institute, La Jolla, CA, USA): tbd
- 16.30 Joachim SCHULTZE (DZNE Bonn): *The use of swarm learning to diagnose and stratify patients and deliver personalised therapies*
- 17.00 Coffee break
- 17.15 **Keynote lecture Aaron CIECHANOVER** (Israel Institute of Technology, Haifa): *Molecular Mechanisms of protein degradation in Human disease*
presented by Gerry MELINO (Linco, Università Roma Tor Vergata), Ivan DIKIC (Frankfurt)

Wednesday April 30th

Session 3: At the interface between fundamental and translational neuroscience

Chairs: Cristina TASSORELLI (Università di Pavia), Mauro PIACENTINI (Università Roma Tor Vergata)

- 10.00 Fabio BLANDINI (IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milano): *Diagnostic and therapeutic innovation for Parkinson's disease: where do we stand?*
- 10.30 Antonio UCCELLI (IRCCS Ospedale Policlinico San Martino, Genova): *Neural Control of Hematopoiesis Drives Inflammation in Preclinical Models of Neurodegenerative Diseases*
- 11.00 Mauro PIACENTINI (Università Roma Tor Vergata): *Transglutaminase type 2 in Neurodegenerative Diseases*
- 11.30 Coffee break
- 11.45 Fu-Dong SHI (National Clinical Research Center for Neurological Diseases of China, Beijing Tiantan Hospital): *Neurovascular Inflammation*
- 12.15 Donato DI MONTE (DZNE Bonn): *Targeting alpha-synuclein pathology in Parkinson models*
- 12.45 Intervallo

Session 4: New models for precision-centered interventions

Chairs: Paolo CALABRESI (Roma), Yufang SHI (Soochow University)

- 14.10 Adriano AGUZZI (University of Zurich, Zurich, Switzerland): *Exploring neurodegeneration with arrayed genome-wide CRISPR screens*
- 14.40 Antonino CATTANEO (Linco, Scuola Normale Superiore, Pisa): *NGF, from mechanism to therapy*
- 15.10 **Special CDD Career Award Lecture** Nicolas G. BAZAN (Neuroscience Center of Excellence, Louisiana State University Health New Orleans, New Orleans, LA): *Elovanoids target synaptic deconstruction by inducing protective cell phenotypes that modulate mitochondria function and uncompensated oxidative stress in models of neurodegenerative diseases.*
- 15.45 Coffee break

- 16.00 Martin ROSSOR (University College London): *Lost in Translation*
- 16.30 Yufang SHI (Soochow): *Conditioning Mesenchymal Stem Cells for Treating EAE*
- 17.00 Gerry MELINO (Linco, Università Roma Tor Vergata): *Back to proteostasis: p73 & Itch in neurodevelopment*
- 17.30 Pierluigi NICOTERA (Fondazione Mondino, Pavia): *Back to the Future*
- 18.00 Conclusive Remarks: Pierluigi NICOTERA (Fondazione Mondino, Pavia), Gerry MELINO (Linco, Università Roma Tor Vergata)

Support from Deutsche Zentrum für Neurodegenerative Erkrankungen (DZNE), CDDpress (Cell Death Differentiation) and Accademia Nazionale dei Lincei.

ROMA - PALAZZO CORSINI- VIA DELLA LUNGARA, 10

Segreteria del convegno: Lucilla BONGIORNO BORBONE (Università di Tor Vergata - lucilla.bongiorno@uniroma2.it), Claudia WEYDE-BIALAS (DZNE - Claudia.Weyde-Bialas@dzne.de), Mario PICOZZA (ISS)

Tutte le informazioni per partecipare al convegno sono disponibili su:
<https://www.lincoi.it/it/manifestazioni/neurodegenerative-diseases>

Fino alle ore 10 è possibile l'accesso anche da Lungotevere della Farnesina, 10
I lavori potranno essere seguiti dal pubblico anche in streaming

L'attestato di partecipazione al convegno viene rilasciato esclusivamente a seguito di partecipazione in presenza fisica e deve essere richiesto al personale preposto in anticamera nello stesso giorno di svolgimento del convegno