

NEURO DEGENERATIVE DISEASES

from **molecular** mechanisms
to prospective **therapies**

29-30 Apr 2025

Accademia dei Lincei
Rome \ Italy

KEYNOTE
LECTURE

Aaron Ciechanover

Israel Institute of Technology
Haifa

Lennart Mucke

Gladstone Inst. of Neur. Disease
San Francisco

invited speakers

Rick **Morimoto**

Ivan **Đikić**

Christian **Haass**

Gabor **Petzold**

Thomas **Gasser**

Pier Giorgio

Mastrobernardino

Jeffery **Kelly**

Joachim **Schultze**

Fabio **Blandini**

Antonio **Uccelli**

Mauro **Piacentini**

Fu-Dong **Shi**

Donato **Di Monte**

Adriano **Aguzzi**

Antonio **Cattaneo**

Nicolas G. **Bazan**

Martin **Rossor**

Yufang **Shi**

Gerry **Melino**

Pierluigi **Nicotera**

Organizing Committee

Ivan **Đikić** \ Gerry **Melino** \ Pierluigi **Nicotera**

Neurodegenerative diseases:

from molecular mechanisms to prospective therapies

29 - 30 April 2025 | Accademia Nazionale dei Lincei

Palazzo Corsini | Via della Lungara 10 | Rome

Organizing Committee Ivan Dikic (University of Frankfurt), Gerry Melino (Linceo, University of Rome Tor Vergata) and Pierluigi Nicotera (Mondino Foundation, Pavia).

Secretariat Lucilla Bongiorno-Borbone, Claudia Weude-Bialas, Mario Picozza and Vittoria Liberati

PROGRAM

DAY 1 | Tuesday 29th APRIL 2025

10:00 Opening, Roberto Antonelli (ANL President) & Carlo Doglioni (ANL vice President), Gerry Melino (ANL) and Pierluigi Nicotera (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 (Pavia)

11:00 **Session 1: Proteostasis and Neurodegenerations**

Chairs: Pierluigi Nicotera (Mondino Foundation, Pavia) and Joachim Schultze (DZNE)

Speakers

- **Rick MORIMOTO**, Northwestern University Chicago: "Proteostasis and neurodegenerative diseases"
- **Ivan DIKIC**, University of Frankfurt: "Proteostasis & ubiquitous ubiquitin in diseases"

12:00 - 12:15 Break

- **Christian HAASS**, DZNE Munich: "The role of microglia in Alzheimer's disease"
- **Gabor PETZOLD**, DZNE Bonn: "Float like a butterfly, sting like a bee – clinical research in neurodegeneration"

13:15 Lunch (invited speakers only)

15:00 **Session 2: New highlights and perspectives for Neurodegenerative Disease**

Chair: Cesare Montecucco (Padua), Nicolas Bazan (New Orleans)

Speakers

- **Thomas GASSER**, DZNE Tübingen: "What have the genes taught us on Parkinson's and other neurodegenerative diseases?"
- **Pier Giorgio MASTROBERNARDINO**, University of L'Aquila: "Mitochondrial function in Parkinson Disease"
- **Jeffery KELLY**, The Scripps Research Institute, La Jolla, CA, USA
- **Joachim SCHULTZE**, DZNE Bonn: "The use of swarm learning to diagnose and stratify patients and deliver personalised therapies"

17:00 - 17:15 Break

17:15 **Keynote lecture: Aaron CIECHANOVER**, Israel Institute of Technology, Haifa - **"Molecular Mechanisms of protein degradation in Human disease"** - presented by Gerry Melino (ANL) & Ivan Dikic (Frankfurt)

18:00 End of the first day

DAY 2 | Wednesday 30th APRIL 2025

10:00 Session 3: At the interface between fundamental and translational neuroscience

Chair: Cristina Tassorelli (Pavia), Mauro Piacentini (Rome)

Speakers

- **Fabio BLANDINI**, IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan: "Diagnostic and therapeutic innovation for Parkinson's disease: where do we stand?"
- **Antonio UCCELLI**, IRCCS Ospedale Policlinico San Martino, Genoa: "Neural Control of Hematopoiesis Drives Inflammation in Preclinical Models of Neurodegenerative Diseases"
- **Mauro PIACENTINI**, University of Rome Tor Vergata: "Transglutaminase type 2 in Neurodegenerative Diseases"

11:30 - 11:45 Break

- **Fu-Dong SHI**, National Clinical Research Center for Neurological Diseases of China, Beijing Tiantan Hospital: "Neurovascular Inflammation"
- **Donato DI MONTE**, DZNE Bonn: "Targeting alpha-synuclein pathology in Parkinson models"

12:45 Lunch (for invited speakers only)

14:10 Session 4: New models for precision-centered interventions

Chair: Paolo Calabresi (Rome), Yufang Shi (Soochow University)

Speakers

- **Adriano AGUZZI**, University of Zurich, Zurich, Switzerland: "Exploring neurodegeneration with arrayed genome-wide CRISPR screens"
- **Antonino CATTANEO**, ANL: "NGF, from mechanism to therapy"
- **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 - 16:00 Break

- **Martin ROSSOR**, University College London: "Perspective for diagnosis and care of neurodegenerative diseases"
- **Yufang SHI**, Soochow: "Conditioning Mesenchymal Stem Cells for Treating EAE"
- **Gerry MELINO**, ANL: "Back to proteostasis: p73 & Itch in neurodevelopment"
- **Pierluigi NICOTERA**, Mondino Foundation, Pavia: "Back to the Future"

Conclusive Remarks: Pierluigi Nicotera (Fondazione Mondino, Pavia), Gerry Melino (ANL, Rome)

18:00 End of the meeting

SUPPORTED BY

Deutsche Zentrum für Neurodegenerative Erkrankungen (DZNE)
CDDpress (Cell Death Differentiation)
Accademia Nazionale dei Lincei

CONTACTS

Lucilla Bongiorno-Borbone | lucilla.bongiorno@uniroma2.it
Claudia Weude-Bialas | claudia.veyde-bialas@dzne.de

VENUE

Sala delle Scienze Fisiche – 2nd Floor
Accademia Nazionale dei Lincei - Palazzo Corsini
Via della Lungara 10 - 00165 Rome