



4th CEREBELLUM DAY

MONTPELLIER
FRANCE



21
22
JANUARY
2021

THURSDAY JANUARY 21st

- 01:00 - 01:30 pm Welcome notes by Scientific board and Organizing committee
- 01:30 - 03:00 pm **SESSION 1: CIRCUITS INTERACTIONS**
Chair: Fabrice Ango
- 01:30 - 01:55 pm **A synaptic mechanism for encoding time within neural circuits**
David DI GREGORIO (Institut Pasteur, Paris, France)
- 01:55 - 02:20 pm **Monitoring the heterogeneous organization of short-term plasticity at granule cells terminals**
Théo ROSSI (INCI, Strasbourg, France)
- 02:20 - 02:45 pm **Spiking neural network models of the cerebellar microcircuit: from single neuron dynamics to motor behaviors**
Alice GEMINIANI (University of Pavia, Pavia, Italy)
- 03:00 - 03:30 pm Poster session + Exhibitor booths
- 03:30 - 05:00 pm **SESSION 2: FROM SENSORI-MOTOR CONTROL TO COGNITION**
Chair: Michael Graupner
- 03:30 - 03:55 pm **Delta oscillations as a coordinator of intra-cerebellar and cerebello-hippocampal network dynamics during sleep**
Arturo TORRES HERRÁEZ (Columbia, NYC, USA)
- 03:55 - 04:20 pm **Decision making and motor control in larval zebrafish**
Ruben PORTUGUES (MPI, Martinsried, Germany)
- 04:20 - 04:55 pm **Investigating the role of the cerebellum in birdsong sensorimotor learning**
Roman URSU (IMN, Bordeaux, France)
- 05:00 - 05:30 pm Round Table: Cerebellum Club Committee
- 05:30 - 05:45 pm Break
- 05:45 - 06:30 pm **KEYNOTE LECTURE**
Synaptic Signaling and Synchrony in Cerebellar Circuits
Indira RAMAN (Northwestern University - Chicago, USA)
- 06:30 - 08:30 pm Poster session + Exhibitor booths

PROGRAM





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FRIDAY JANUARY 22nd

09:00 - 10:50 am SESSION 3: DEVELOPMENT

Chair: Ludovic Telley

09:00 - 09:25 am **The molecular logic of cerebellar purkinje cells diversity**

Andrea LOPES (UNIL, Lausanne, Switzerland)

09:25 - 09:50 am **Single-cell RNA sequencing unveils an unprecedented molecular and functional heterogeneity of cerebellar astrocytes**

Valentina CERRATO (Università degli Studi di Torino, Turin, Italy)

09:50 - 10:15 am **Laminar localization and differentiation of inhibitory interneuron subtype in cerebellum**

Fabrice ANGO (INM, Montpellier, France)

10:15 - 10:40 am **Unraveling the molecular presynaptic determinants of climbing fiber synapse identity**

Maela PAUL (Collège de France, Paris, France)

10:50 - 11:20 am **Poster session + Exhibitor booths**

11:20 - 12:20 am KEYNOTE LECTURE

New insights into cerebellar disorders

Esther BECKER (Oxford University - Oxford, United Kingdom)

12:30 - 01:30 pm Lunch Break

01:30 - 02:45 pm SESSION 4: CLINICAL

Chairs: Zoé Husson & Philippe Lory

01:30 - 01:55 pm **Clinical phenotypes of CACNA1A-related disorders**

Agathe ROUBERTIE (CHU, Montpellier, France)

01:55 - 02:20 pm **Absence of specific molecular pathway leading to degenerative recessive ataxias**

Michel KOENIG (Institut Universitaire de Recherche Clinique, Montpellier, France)

02:20 - 02:45 pm **Phenotype spectrum and genetic landscape of congenital and very early onset cerebellar disorders: Experience of the French National Reference Center**

Lydie BURGLÉN (Imagine Institute - Hopital Trousseau, Paris, France)

02:45 - 03:00 pm **Closing remarks**

PROGRAM

