



AXE NEUROSCIENCES

PÔLE DE RECHERCHE BIOLOGIE-SANTÉ
UNIVERSITÉ DE MONTPELLIER

NEUROSCIENCE DAYS 2022

30 JUIN (13H50-18H10) & 1ER JUILLET 2022 (8H50-13H10)

Faculté de Médecine de Montpellier - Bâtiment historique
Amphithéâtre d'anatomie



M U S E
POLE BIOLOGIE-SANTE
MONTPELLIER UNIVERSITY OF EXCELLENCE



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Institut de Recherche
pour le Développement



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Institut régional du Cancer
Montpellier | Val d'Orbelle

INRAE

Avec le soutien de :
CoEN Montpellier
Center of Excellence for neurodegenerative disorders

PROGRAMME

THURSDAY, JUNE 30th

COGNITION

- 13:50 - 14:00 Welcome Introduction
- 14:00 - 14:45 **Keynote lecture. *Paradoxical sleep network and its role in RBD and narcolepsy***
Pierre-Hervé Luppi, Centre de Recherche en Neurosciences de Lyon (CRNL)
- 14:45 - 15:05 ***Orexin / hypocretin deficiency in humans : consequences and pathophysiology***
Lucie Barateau, CHU de Montpellier, Institut des Neurosciences de Montpellier (INM)
- 15:05 - 15:25 ***Invisible and odorless: how do pesticide residues attack our brain?***
Véronique Perrier, Institut des Neurosciences de Montpellier (INM)
- 15:25 - 15:45 Flash presentations by students
Exposure to ambient air pollution and cognitive decline in the Three-City cohort study
Jeanne Duchesne, Institut des Neurosciences de Montpellier (INM)
- Impact of pesticides on Alzheimer's disease*
Pierre-André Lafon, Institut des Neurosciences de Montpellier (INM)

15:45 - 16:15 Break

PSYCHIATRY

- 16:15 - 17:00 **Keynote lecture. *Autoimmunity in psychiatric disorders: challenge ahead of us***
Laurent Groc, Institut interdisciplinaire Neuroscience, Bordeaux
- 17:00 - 17:20 ***Inflammation and neurocognition of the suicidal mind***
Jorge Lopez-Castroman, CHU Montpellier, Institut de Génomique Fonctionnelle (IGF)
- 17:20 - 17:40 ***A new immunotherapy strategy in schizophrenia, a pre-clinical study***
Philippe Rondard, Institut de Génomique Fonctionnelle (IGF)
- 17:40 - 18:00 Flash presentations by students
5-HT₆ receptor-operated mTOR signaling as target for disease modifiers preventing onset of cognitive deficits in schizophrenia
Mehdi Sekssaoui, Institut de Génomique Fonctionnelle (IGF)
- Physical and functional interaction between metabotropic glutamate 2 receptor and neurotrophin receptor TrkB: role in the response to glutamatergic antipsychotics*
Clémentine Philibert, Institut de Génomique Fonctionnelle (IGF)

18:00 - 18:10 Concluding remarks

FRIDAY, JULY 1st

MOTOR DISORDERS

- 8:50 - 9:00 Welcome Introduction
- 9:00 - 9:45 **Keynote lecture. Where does risk of amyotrophic lateral sclerosis lie in the genome?**
Luc Dupuis, Centre de recherche en biomédecine de Strasbourg (CRBS)
- 9:45 - 10:05 **Biomarkers in Polyradiculoneuropathies**
Guillaume Taieb, CHU de Montpellier, Institut de Génomique Fonctionnelle (IGF)
- 10:05 - 10:25 **CSF Biomarkers and remyelination in multiple sclerosis**
Eric Thouvenot, CHU de Nîmes, Institut de Génomique Fonctionnelle (IGF)
- 10:25 - 10:45 Flash presentations by students

Molecular mechanisms of microglia depletion following spinal cord injury in non-human primate.
Jean-Christophe Perez, Mécanismes Moléculaires dans les Démences Neurodégénératives (MMDN)

Microglial P2X4 in neuropathic pain and associated comorbidities: A gender independent story ?
Damien Gilabert, Institut de Génomique Fonctionnelle (IGF)

Unconventional secretion of misfolded SOD1 in ALS: a novel mechanism of toxicity spreading.
Philippe Gosset, Institut des Neurosciences de Montpellier (INM)
- 10:45 - 11:15 Break
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- ### **SENSORY SYSTEMS**
- 11:15 - 12:00 **Keynote lecture. From sight prevention to restoring vision in blind patients**
Serge Picaud, The Vision Institute, Paris
- 12:00 - 12:20 **Post-operative chronic pain and peri-operative pain trajectories**
Xavier Capdevila, CHU de Montpellier, Institut des Neurosciences de Montpellier (INM)
- 12:20 - 12:40 **Mouse model of the human progressive hearing loss DFNA25**
Regis Nouvian, Institut des Neurosciences de Montpellier (INM)
- 12:40 - 13:00 Flash presentations by students

Unrevealing pathophysiology associated to USH2A mutations using CRISPR and iPSC-derived retinal organoids
Carla Sanjurjo-Soriano, Institut des Neurosciences de Montpellier (INM)

T-type calcium current in PKC γ neurons gating chronic pain in the dorsal spinal cord in mice
Célia Cuculière, Institut de Génomique Fonctionnelle (IGF)
- 13:00 - 13:10 Concluding remarks

Le Pôle de recherche Biologie-Santé de l'Université de Montpellier comprend 7 axes thématiques :

- | Biologie quantitative
- | Cancérologie
- | Génétique-Epigénétique
- | Infectiologie-Immunologie

- | Médecine Expérimentale & Régénératrice
- | Neurosciences
- | Technologies pour la santé -Bioingénierie