21st annual meeting of the French Club for Invertebrate Neurobiology

June 14-16th , Virtual conference

[https://cnrs.zoom.us/j/92013339757](https://cnrs.zoom.us/j/92013339757" \t "_blank)

**Code secret/Password : LyonCNI-21**





  [](http://www.bfklab.com/)

Local (Lyon) organizing committee:

Nathalie Davoust,

Bertrand Mollereau,

Véronique Morel,

Laurent Seugnet

Preliminary program

**Monday June 14th**

Chair: Laurent Seugnet, Webmaster: Bertrand Mollereau

1.30-2.15pm **Invited talk**

**Manuel Zimmer,** Research Institute of Molecular Pathology (IMP), Vienna Biocenter, University of Vienna

From connectome to function: connectivity features underlying neuronal population dynamics in the nematode *C. elegans*

**Short talk session**

2.15-2.35pm Konstantinides Nikos

A comprehensive series of temporal transcription factors in the fly visual system

2.35-3.55pm Guillermin Camille

How do muscles and motoneurons meet for life?

3.55-3.15pm Andriatsilavo Maheva

Intravital imaging of brain development reveals the spatio-temporal dynamics of axonal selection during neuronal circuit wiring in individuals

3.15-3.35pm **Break**

**Short talk session**

3.35-3.55pm Nouvian Morgane

Recruitment during honeybee colony defence

3.55-4.15pm Bestea Louise

sNPF modulates appetitive learning in honey bees (Apis mellifera)

4.15-4.35pm Ramiaranjatovo Gaëlle

Quantifying insect olfactory sensitivity with multipoint electroantennography

**Datablitz session**

4.35-4.45pm Bellanger Cécile

Looking for immediate early genes as neuronal activation markers in the cephalopod mollusc Sepia officinalis

4.45-4.55pm Manceau Dylan

Studying multisensory external context and internal state integration for the modulation of neuronal circuit activity in Drosophila larva

**Tuesday June 15th** Chair: Nathalie Davoust, Webmaster: Véronique Morel

1.30-2.15 **Invited talk**

**Florence Besse**, Institute of Biology Valrose, Post-transcriptional control of neuronal plasticity, Univ. Nice Sophia-Antipolis

Spatio-temporal regulation of neuronal RNA granules in mature neurons.

**Short talk session**

2.15-2.35pm Alexis Bédécarrats

An atypical pacemaker mechanism drives spontaneous and irregular feeding patterns in Aplysia

2.35-3.55pm Yasmine Rabah

Glial glucose fuels the neuronal pentose phosphate pathway for long-term memory

3.55-3.15pm Hui Li

Pallidin in Drosophila surface glia modulates sleep via essential amino acid availability

3.15-3.35pm **Break**

**Short talk session**

3.35-3.55pm Baptiste Piqueret

Ants detect cancer cells through volatile organic compounds

3.55-4.15pm Yaël Grosjean

Sex-specific anaesthesia via olfactory receptor inhibition in Drosophila

4.15-4.35pm Jean-Maurice Dura

Axon-secreted CX3C chemokine-like Orion induces astrocyte infiltration and engulfment during mushroom body neuronal remodeling

**Datablitz session**

4.35-4.45pm Vincent Jacob

Morphological analysis of Dacini antennae (Diptera:Tephritidae) suggests an improved olfactory sensitivity of Cucurbitaceae pests

4.45-4.55pm Maxime Lehman

Neural circuitry underlying sensorimotor decisions

**Wednesday June 16th** Chair: Bertrand Mollereau, Webmaster: Nathalie Davoust

1.30-2.15pm **Invited talk**

**Anna Ziegler**, Laboratory Dynamics of neuronal circuits, German Center for Neurodegenerative Diseases

The role of neuronal lipid production on morphology, function, and maintenance

**Short talk session**

2.15-2.35pm Assemblée générale du Club de Neurobiologie des Invertébrés

2.35-3.55pm Juan Antonio Navarro

Erastin-induced ferroptosis enhances loss-of frataxin phenotypes in a Drosophila model of Friedreich ataxia

3.55-3.15pm Xiaojing Yue

Exploring potential links between the gut and the brain in Parkinson's disease using Drosophila.

3.15-3.35pm Jean-René Martin

ninaD regulates cholesterol homeostasis from the midgut which protects against neurodegeneration

3.35-3.55pm **Break**

**Short talk session**

3.55-4.15pm Gaëlle Ramiaranjatovo

Shared volatile compounds among the various host-fruits shape Tephritidae olfactory system

4.15-4.35pm Mercedes Bengochea

Counting flies: Evidence of numerical discrimination in Drosophila melanogaster

**Datablitz session**

4.35-4.45pm Celle Marion

Establishing a Drosophila model of BPAN disease

4.45-4.55pm Lambert Erwan

Isoform-dependent neurotoxicity of the Alzheimer's disease genetic risk factor BIN1

4.55-5.05pm Zhou Anqi

Multi-scale approach to investigate neural circuit dysfunction: From synaptic changes to probabilistic behavior

**Attendees/ Participants**

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