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%22%20%5Ct%20%22_blank)

**Code secret/Password : LyonCNI-21**



 

   

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**

Andouche Aude, aude.andouche@mnhn.fr, UMR BOREA

Andriatsilavo Maheva, maheandria@gmail.com, Hassan Lab

Avarguès-Weber Aurore, aurore.avargues-weber@univ-tlse3.fr , Centre de Recherches sur la Cognition Animale

Baratte Sébastien, sebastien.baratte@mnhn.fr, UMR 8067 BOREA

Bédécarrats Alexis, alexis.bedecarrats@gmail.com, INCIA (UMR5287)

Bellanger Cécile, cecile.bellanger@unicaen.fr, EthoS

Bengochea Mercedes, mercedes.bengochea@icm-institute.org, Brain Development - Bassem Hassan Lab

Berthelot-Grosjean Martine, martine.berthelot-grosjean@u-bourgogne.fr, CSGA

Besse Florence, florence.besse@unice.fr, Institute of Biology Valrose

Bessereau Jean-Louis, jean-louis.bessereau@univ-lyon1.fr, Institut NeuroMyoGène - CNRS UMR5310

Birman Serge, serge.birman@espci.fr, Equipe GCRN, Laboratoire Plasticité du Cerveau, CNRS UMR 8249

Boscolo Erica, erica.boscolo@ens-lyon.fr, LBMC

Boulin Thomas, thomas.boulin@univ-lyon1.fr, Institut NeuroMyoGène - CNRS UMR5310

Capovilla Maria, capovilla@ipmc.cnrs.fr, UMR7275 CNRS-UCA

Cartereau Alison, alison.cartereau@univ-orleans.Fr, Laboratoire de biologie des ligneux et des grandes cultures

Celle Marion, marion.celle@ens-lyon1.fr, Apoptosis and Neurogenetics

Chérif-Zahar Baya, baya.cherif-zahar@espci.fr, Equipe GCRN, Laboratoire Plasticité du Cerveau, UMR 8249

Davoust-Nataf Nathalie, nathalie.davoust-nataf@ens-lyon.fr, LBMC

Dourlen Pierre, pierre.dourlen@pasteur-lille.fr, UMR1167 - RID-AGE

Dulac Amina, amina.dulac@espci.fr, Laboratoire de Plasticité du cerveau

Dura Jean-Maurice, jean-maurice.dura@igh.cnrs.fr, Institut de Génétique Humaine

Giurfa Martin, martin.giurfa@univ-tlse3.fr, Centre de Recherches sur la Cognition Animale

Grosjean Yaël, yael.grosjean@u-bourgogne.fr, Centre des Sciences du Goût et de l'Alimentation

Guillermin Camille, camille.guillermin@ens-lyon.fr, Institut de Génomique Fonctionnelle de Lyon

Issa Sabi Abdul-Raouf, s.a.issa@sussex.ac.uk, Sussex Neuroscience, Alonso Lab

Jacob Vincent, vincent.jacob@cirad.fr, CIRAD UMR PVBMT

Jollivet Florence, florence.jollivet@ens-lyon.fr, LBMC, Lyon 7

Konstantinides Nikos, nikos.konstantinides@ijm.fr, Comparative Developmental Neurobiology lab

Lambert Erwan, erwan.lambert@pasteur-lille.fr, U1167

Laurençon Anne, anne.laurenconloviton@ens-lyon.fr, IGFL

Le Mauff Anaïs, anais.lm1995@gmail.com, LBLGC

Lehman Maxime, maxime.lehman@cnrs.fr, Neuro-PSI (institut des neurosciences Paris Saclay)

Li Hui, lihui718092689@163.com, Centre de recherche en Neurosciences de Lyon, Equipe Waking

Manceau Dylan, dylan.manceau@cnrs.fr, NeuroPSI

Martin Jean-René, jean-rene.martin@cnrs.fr, Institut des Neurosciences Paris-Saclay (NeuroPSI), UMR-9197

Mialon Morgane, mialon.morgane@univ-lyon1.fr, Institut NeuroMyoGene

Mollereau Bertrand, bertrand.mollereau@ens-lyon.fr, LBMC

Monnier Véronique, veronique.monnier@u-paris.fr, CNRS UMR8251

Morel Véronique, veronique.morel@univ-lyon1.fr, INMG

Nargeot Romuald, romuald.nargeot@u-bordeaux.fr, INCIA

Navarro Juan Antonio, juan.a.navarro@uv.es, Cellular and organic Physiopathology of oxidative stress

Nguyen Minh-Dao, minh.dao1995@gmail.com, Bessereau lab

Nouvian Morgane, mailto:morgane.nouvian@uni-konstanz.de, Department of Biology

Piqueret Baptiste, baptiste.piqueret@live.com, LEEC

Plaçais Pierre-Yves, pierre-yves.placais@espci.fr, Plasticité du Cerveau UMR8249

Rabah Yasmine, yasmine.rabah@espci.fr, Energy & Memory, Brain Plasticity Unit, CNRS, ESPCI Paris.

Rahmani Zohra, zohra.rahmani@espci.fr, CNRS UMR8249 Equipe GCRN (Serge Birman team)

Ramiaranjatovo Gaëlle, iharilala-gaelle.ramiaranjatovo@cirad.fr, UMR PVBMT

Riemensperger Thomas, triemens@uni-koeln.de, Experimental Morphology / Neuroanatomy

Seugnet Laurent, Laurent.seugnet@inserm.fr, Centre de recherche en Neurosciences de Lyon, Equipe Waking

Silva Bryon, bryon.silva@espci.fr, Energy & Memory Lab, Thomas Préat.

Taillebois Emiliane, emiliane\_taillebois@yahoo.fr, LBLCG

Trannoy Séverine, severine.trannoy@univ-tlse3.fr, Centre de Recherche sur la Cognition Animale

Vaccaro Alexandra, alexandra\_vaccaro@hms.harvard.edu, Rogulja Lab

Walter Ludivine, ludivine.walter@ens-lyon.fr, LBMC

Ziegler Anna, anna.ziegler@dzne.de, Dynamics of neuronal circuits

Zimmer Manuel, manuel.zimmer@univie.ac.at, Research Institute of Molecular Pathology (IMP)