

CLUB EXO CYTOSE-ÉNDOCYTOSE

25th MEETING LACANAU June 1st-3rd 2023

Invited speakers

- Francesca Bottanelli (Berlin)
- Emmanuel Derivery (Cambridge)
- Shigeki Watanabe (Baltimore)

Organizing committee:

- Gaëlle Boncompain (Institut Curie, Paris)
- Stéphanie Lebreton (Institut Pasteur, Paris)
- David Perrais (IINS, Bordeaux)

Registration and updates: <http://www.exoendo.org> @clubexoendo

credit: Amandine Bery

With the financial support of:



25th annual meeting of the Club Exocytose-Endocytose
Lacanau, June 1st-3rd, 2023
Programme

Thursday, June 1st

11h30-12h30: **Welcome and registration**

12h30-14h: Lunch

14h30-14h40: Opening remarks and introduction

14h40-16h20: **Session 1 Neurobiology**

Chaired by Lydia Danglot & Stéphane Ory

Etienne Herzog (Interdisciplinary Institute of Neuroscience IINS, Bordeaux)
A synaptic analysis reveals dopamine hub synapses in the mouse striatum

Paul Lapios (Interdisciplinary Institute of Neuroscience IINS, Bordeaux)
Ultrastructural analysis of dopamine synapses using cryo-CLEM

Satish Moparthi (Institute of Myology, Paris)
Circular spectrin scaffolds control endocytosis in neurons

Sandra Soukup (Institute for Neurodegenerative Diseases IMN, Bordeaux)
Deciphering synaptic autophagy to empower brain health

Victor Breton (Paris Institute of Psychiatry and Neuroscience IPNP, Paris)
Unraveling the role of the vesicular SNARE TI-VAMP in neuronal plasticity and memory

16h20-16h50: coffee break

16h50-17h30: **Keynote Lecture**

Introduced by David Perrais

Shigeki Watanabe (Johns Hopkins University, Baltimore, USA).
Spatial and temporal control of synaptic vesicle exocytosis and recycling

17h30-18h30: **Session 2 Extracellular vesicles and material**

Chaired by Maité Montero & Julien Saint-Pol

Camille Dantzer (Bordeaux Institute of Oncology BRIC, Bordeaux)
Mutated β -catenin regulates extracellular vesicles machinery in hepatocellular carcinoma

Camille Menaceur (Blood-Brain Barrier Laboratory LBHE, Lens)
In-depth characterization of human brain pericyte-derived small extracellular vesicles and their role in the BBB phenotype induction

Neetu Gupta-Rossi (Institut Pasteur, Paris)
The Midbody Remnant at the Nanoscale

18h45 – 19h30 Wine tasting

19h30 – 21h00 Dinner

21h00-22h45: **Poster session 1** (Odd numbers)

Friday, June 2nd

8h45-9h25: **Keynote Lecture**

Introduced by Stéphanie Lebreton

Emmanuel Derivery (Laboratory of Molecular Biology LMB, Cambridge, UK)
Mechanisms of polarized trafficking induced by cytoskeleton asymmetries

9h25-10h45: **Session 4 Trafficking and signalling**

Chaired by Stéphanie Miserey & Cédric Blouin

Juliette Kaeffer (Biotechnology and Signalling Lab BSC, Strasbourg)
Development of analgesic tolerance to DOR agonist: involvement of GPRASP1

Silvia Sposini (Interdisciplinary Institute of Neuroscience IINS, Bordeaux)
Effect of poly-unsaturated fatty acids on dopamine D2 receptor trafficking

Satish Kailasam Mani (Institut Curie, Paris)
Remote control of cell signaling through caveolae mechanics

Kristine Schauer (Institut Gustave Roussy, Villejuif)
Optogenetics to understand internal cell coordination during migration

10h45-11h15: Coffee break

11h15-12h15: **Session 4 Pathogens and intracellular traffic**

Chaired by Delphine Muriaux & Anne Brelot

Jana Koch (Center for Integrative Infectious Diseases CIID, Heidelberg, Germany)
Zoonotic viruses make a differential use of endosomal acidification for infectious entry

Jitendriya Swain (Institute of Research in Infectiology of Montpellier IRIM, Montpellier)
Interplay between F-actin and viral M clusters during SARS-CoV-2 viral assembly at the lyso-endosomal pathway mediated viral egress

Remigiusz Walocha (Institut Pasteur, Paris)
Impact of mechanical forces and microenvironment on colonic homeostasis and SARS-CoV-2 invasion

12h15-12h30 **Presentation France Bio Imaging**

12h30-13h30 Lunch

13h30-16h15 Free time by the ocean

16h30-17h10: **Keynote Lecture**

Introduced by Gaele Boncompain

Francesca Bottanelli (Free University Berlin, Germany)
Dynamics of the secretory pathway at high spatial and temporal resolution

17h10-18h30 **Session 5 Secretory pathways**

Chaired by Nathalie Sauvonnet & Jean-Marc Verbavatz

Octave Joliot (Institut Curie, Paris)
CATCHFIRE, a new chemically induced dimerization technology for controlling, imaging and sensing protein proximity

Lou Fourriere (University of Melbourne, Australia)

Segregation of the membrane cargoes β -secretase (BACE1) and amyloid precursor protein (APP) along the secretory pathway and production of amyloid peptides in Alzheimer's disease

Chandini Bhaskar Naidu (Institut Curie, Paris)

Mechanotransduction at the Golgi Apparatus

Magda Cannata Serio (Institut Curie, Paris)

Entry into the endoplasmic reticulum: when better is worst

18h30-20h15 **Poster Session 2** (Even numbers)

20h30 Gala Dinner

Saturday, June 3rd

9h00-10h30: **General assembly of the Club Exocytose-Endocytose + coffee**

10h30-11h20: **Session 6 Organelles and cytoskeleton**

Chaired by Frank Perez & Christophe Lamaze

Valentin Guyard (Institute for Integrative Biology of the Cell I2BC, Gif-sur-Yvette)

Functional crosstalk between ORP5/8 and Seipin at ER-mitochondria contact sites involved in lipid droplet biogenesis

Vera Monteiro-Cardoso (Institute for Integrative Biology of the Cell I2BC, Gif-sur-Yvette)

ORP5/8 at mitochondria associated ER-membranes (MAM) mediate the transfer of PS from the ER to Mitochondria and regulate LD biogenesis

Julie Eichler (Institute of Genetics and Molecular and Cellular Biology IGBMC, Strasbourg)

MOSPD2 is an endoplasmic reticulum-lipid droplet tether functioning in LD homeostasis

Arnon Henn (Faculty of Biology, Technion, Tel Aviv)

Cytoskeleton-based molecular motors function in mitochondrial transport and positioning to actin protrusions and impact collective cell migration

11h20-11h50: **Thesis Prize Lecture**

Hugo Lachuer (Institut Curie, Paris)

Spatial organization of lysosomal exocytosis relies on membrane tension gradients

11h50-12h10: **Best presentation prizes and closing remarks**

12h15: Lunch and departure