

HiLight initiative PTL

INVITED SPEAKERS:

Eric Hosy, IINS Bordeaux Isabelle Tardieux, IAB Grenoble

Exploration of living systems: Analysis at high spatial and temporal resolution

This day will feature local and external conferences, as well as a round table to exchange ideas and brainstorm about the HiLight initiative (PTL).

https://forms.gle/LuMQb7bGXJrkt/Jr87

In 2026, the sub-theme of the HiLight PTL is "DEVELOPING MULTIPARAMETRIC APPROACHES"

JOIN US ON JANUARY 15, 2026 AT GENOPOLYS!



PROGRAM

9:00-9:15	Introduction Julie Perroy, HiLight PTL Manager
9:15-10:00	Chairperson: Marion Peter, IRCM KEYNOTE - Eric Hosy, IINS Bordeaux New technological improvements for a better understanding of synaptic physiology
	Chairperson: Karine Loulier, INM
10:00-10:10	Charlène Boumendil, IGH YRP selected project "Implementing SPEED microscopy and 3D single molecule live-cell imaging to elucidate the role of heterochromatin exclusion at nuclear pores in mRNA export"
10:10-10:20	Fabrice Caudron, IGMM YRP selected project "High resolution live cell imaging of yeast prion-like proteins and RNA assemblies"
10:20-10:30	Emmanuel Perisse, IGF YRP selected project « A virtual olfactory environment to study value-based decision-making
10:30-10:40	in <i>Drosophila</i> " Laurent Le Cam, IRCM CRP selected project "Multiscale/Multimodal Imaging and Digital Twins for Predicting Decision-Making in Colorectal Tumorigenesis"
10:40-11:00	Break
	Chairperson: Angelo Torrente, IGF
11:00-11:20	Csilla Gergely, L2C Non-linear optics and AFM-based tissue mechanobiology: label-free insights in neurodegenerative diseases
11:20-11:40	Vivien Szabo, IGF A fiberscope for imaging neural intracellular signalling's dynamics during learning in behaving mice
11:40-12:00	Benoit Charlot, IES Cantilever based microelectrode arrays for the recording of the inner electrical and mechanical activities of organoids
12:00-13:30	Lunch break
13:30-14:15	Chairperson: Raphaël Gaudin, IRIM KEYNOTE - Isabelle Tardieux, IAB Grenoble An innovative combinatorial toolkit to uncover the physics of Toxoplasma motile behaviors
	Chairperson: Marie-Pierre Blanchard, MRI
14:15-14:35	Antoine Le Gall, CBS
14:35-14:55	Imaging and Quantifying Emergent Behaviors in Predatory Bacteria Florence Perrin, MMDN
14:55-15:15	Innovative Imaging of Spinal Cord Injury, Aging, and Treatment Dynamics Anne-Blanc Potard, LPHI et Laurence Berry, MRI-EM4Bio Multiple imaging approaches to assess biofilm <i>in vivo</i>
15:15-15:35	Break
15:35-16:30	Chairperson: Pierre-Emmanuel Milhiet, CBS et Raphaël Gaudin, IRIM Round table «Developing multiparametric approaches»
16:30	Closing remarks