IJColloquium

Renaud JOLIVET (Maastricht University)

Professor Renaud Jolivet is Full Professor at the Centre for Systems Biology, and Chair of Neural Engineering & Computation at Maastricht University. His work focuses on the brain's heterocellularity and on neurotechnologies to interface with brain tissue. He is the nominated representative for individual researchers and innovators at the European Commission's ERA Forum, and an elected member of the Board of Directors at the Organization for Computational Neuroscience. He is a member of the Science & Technology Committee of EBRAINS, the European research infrastructure for neurosciences, and is a 2023 Neurotech Fellow of the Foresight Institute. He also holds a courtesy appointment at CERN. He has worked in Switzerland, Japan, the Netherlands, and the UK.

New Developments in Brain Imaging : Why and How?

There is immense need for better and / or cheaper brain imaging modalities, both for clinical but also for fundamental research. Historically, some of the key methods available today have been linked to the very high energy consumption of the brain. Recently, we (Inspiralia, UCM, HESSO, CERN, KU Leuven, RS2D and UM) have started on the development of a new, low TRL, method for brain imaging that we call GAMMA-MRI. Rather than improving on a pre-existing method, we aim at developing a brand new imaging modality that combines the physical principles of MRI and SPECT. In this talk, I will report on this project and on its progress, and I will try to justify why, as a neuroscientist, I am interested in this methodology and in the links between energy consumption and brain function.

Mardi 18 avril 2023
à 10H30
Café servi à 10H

Auditorium Pierre Lehmann

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