



Centre de Neurosciences Psychiatriques

CNP SEMINAR

ANNOUNCEMENT

Friday, August 26th 2022, 14:00 – 15:00

The brain: A coincidence detector between sensory experiences and internal milieu

Prof. Pierre-Marie Lledo

Chairman of the Department of Neuroscience and Head of the Laboratory "Perception and Memory" at the Pasteur Institute, Paris

Understanding the brain is not only intrinsically fascinating, but also highly relevant to increase our well-being since our brain exhibits a power over the body that makes it capable both of provoking illness or facilitating the healing process.

Bearing in mind this dark force, brain sciences have undergone and will undergo an important revolution, redefining its boundaries beyond the cranial cavity. During this presentation, we will discuss about the communication between the brain and other systems that shapes how we feel the external world and how we think.

We are starting to unravel how our organs talk to the brain and how the brain talks back. That two-way communication encompasses a complex, bodywide system of nerves, hormones and other signals that we will discuss.

This presentation aims at challenging a long history of thinking of bodily regulation as separate from "higher" mental processes. Four centuries ago, René Descartes famously conceptualized the mind as being separate from the body, it is time now to embody our mind.

Invited by Jean-Luc.Martin@chuv.ch and Pierre.Magistretti@epfl.ch

Selected recent publications:

[Bacterial sensing via neuronal Nod2 regulates appetite and body temperature.](#)

Gabanyi I, Lepousez G, Wheeler R, Vieites-Prado A, Nissant A, Wagner S, Moigneu C, Dulauroy S, Hicham S, Polomack B, Verry F, Rosenstiel P, Renier N, Boneca IG, Eberl G, **Lledo PM**. *Science*. 2022 Apr 15;376(6590):eabj3986. doi: 10.1126/science.abj3986. Epub 2022 Apr 15. PMID: 35420957

[Effect of gut microbiota on depressive-like behaviors in mice is mediated by the endocannabinoid system.](#)

Chevalier G, Siopi E, Guenin-Macé L, Pascal M, Laval T, Rifflet A, Boneca IG, Demangel C, Colsch B, Pruvost A, Chu-Van E, Messager A, Leulier F, Lepousez G, Eberl G, **Lledo PM**. *Nat Commun*. 2020 Dec 11;11(1):6363.

[Changes in Gut Microbiota by Chronic Stress Impair the Efficacy of Fluoxetine.](#)

Siopi E, Chevalier G, Katsimpardi L, Saha S, Bigot M, Moigneu C, Eberl G, **Lledo PM**. *Cell Rep*. 2020 Mar 17;30(11):3682-3690.e6.

[Systemic GDF11 stimulates the secretion of adiponectin and induces a calorie restriction-like phenotype in aged mice.](#)

Katsimpardi L, Kuperwasser N, Camus C, Moigneu C, Chiche A, Tolle V, Li H, Kokovay E, **Lledo PM**. *Aging Cell*. 2020 Jan;19(1):e13038.

Salle de séminaire, 1^{er} étage CNP
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