



# Centre de Neurosciences Psychiatriques

## CNP SEMINARS

### ANNOUNCEMENT

Friday, January 22, 2021, 11:00 – 12:00

## Imaging neuroscience – where psychiatry and neurology meet together

**Prof. Bogdan Draganski MD**

Associate Professor FBM, UNIL, Consultant in Neurology

Centre for Research in Neuroscience - Department of Clinical Neurosciences, CHUV

Considering the numerous collaborations between researchers at the Department of Psychiatry and LREN at the Department of Clinical Neurosciences, including large-scale SNF-supported projects (NCCR Synapsy, longitudinal cohort CoLaus|PsyCoLaus) and SNF project grants (Effects of ECT on the brain – with Armin von Gunten) with the overall goal of understanding brain's health and disease, there is unique opportunity for synergies in the field of neuroscience. LREN is responsible the neuroimaging platform of the Department of Clinical Neurosciences – CHUV, consisting of a fully research dedicated 3 Tesla magnetic resonance imaging Siemens Prisma machine at the edge of MR technology, well-established infrastructure for neurophysiological testing (electro-encephalography and Biopac-system), computer pool for hands-on teaching and 200m<sup>2</sup> of laboratory space. LREN offers a unique accumulation of imaging resources and sophisticated methods for conducting high-level research, in particular for the combination of clinical, systems and computational expertise, providing an optimal environment for collaborative projects.

In my presentation, I will focus on the research infrastructure at LREN in the context of ongoing collaborative projects with particular emphasis on in-house developed methods that allow for quantification of brain tissue properties. I will provide a broader outlook how our mutual interests and expertise could benefit from a closer and ambitious partnership in relevant domains of clinical neuroscience.

Invited by Chin Bin Eap

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#### *Related publications*

*Converging patterns of aging-associated brain volume loss and tissue microstructure differences. Taubert M, Roggenhofer E, Melie-Garcia L, Muller S, Lehmann N, Preisig M, Vollenweider P, Marques-Vidal P, Lutti A, Kherif F, Draganski B. Neurobiol Aging. 2020 Jan 15. pii: S0197-4580(20)30014-2. doi: 10.1016/j.neurobiolaging.2020.01.006.*

*Marchi NA, Ramponi C, Hirotsu C, Haba-Rubio J, Lutti A, Preisig M, Marques-Vidal P, Vollenweider P, Kherif F, Heinzer R, Draganski B. Mean Oxygen Saturation during Sleep Is Related to Specific Brain Atrophy Pattern. Ann Neurol. 2020 Jun;876:921-930. doi: 10.1002/ana.25728*

*Kramer, U. Kolly, S. Maillard, P. Pascual-Leone, A. Samson, A. C. Schmitt, R. Bernini, A. Allenbach, G. Charbon, P. De Roten, Y. Conus, P. Despland, J.-N. Draganski, B. Change in Emotional and Theory of Mind Processing in Borderline Personality Disorder: A Pilot Study. Journal of Nervous and Mental Disease 2018, 206 12, 935–943.*

This event will take place on a virtual space on **Friday, January 22<sup>nd</sup> 2021 at 11:00** through the link:

<https://chuv.webex.com/chuv/j.php?MTID=m48c1152332c0fc822e445460af90ed97>

Meeting number (access code):174 268 7905

Meeting password: ApTTd92mnM3