PhD POSITION

The regulation of adult neurogenesis by astrocytes

Starting date: As soon as possible
Duration: 4-5 years
Institute: Center for Psychiatric Neurosciences, Department of Psychiatry, Lausanne University Hospital, Lausanne, Switzerland

Us:
Adult hippocampal neurogenesis is the most drastic form of brain plasticity and it is involved in mechanisms of learning and memory, as well as anxiety and depression. Our research focuses on the regulation mechanisms of adult hippocampal neurogenesis, by extrinsic signaling from the neurogenic niche. To this aim, we use various in vitro and in vivo approaches, including histology and microscopy, behavior, biochemistry, inducible transgenic mice, clonal analysis and viral-mediated gene transfer.
We are a group of highly motivated scientists who value synergistic collaborations and science integrity.

The project:
The goal of this project is to understand the role of astrocytes in the regulation of adult neurogenesis. In particular, we are focusing on molecules released by astrocytes, that regulate stem cell proliferation and neuronal differentiation in the context of learning of memory.
This project is a follow up of the following: Sultan et al Neuron 2015 (PMID 26606999). More info can also be found in the following review: Cassé et al. Frontiers 2018 (PMID 30538622).

You:
We are looking for a highly motivated PhD student in neuroscience.
We will only consider applications from biology students with a master in neuroscience. Preference will be given to candidates who have experience with histology, biochemistry or behavioral analyses.
The candidate is a team player, has strong skills in verbal and written communication (English required, French is an asset), works independently, but is eager to collaborate with other members of the team.

Submission:
Please submit a CV, a motivation letter, and names of at least 1 reference to Nicolas Toni at the following email address: nicolas.toni@unil.ch. For more information on the group and our institute, please refer to our website: https://tonilab.org/

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