Job description

Title: Research Scientist – Human brain tissue labelling and mapping
Position: Full time
Posted on: 14th January 2022
Location: Wyss Center for Bio and Neuroengineering, Campus Biotech, Geneva Switzerland

About the Wyss Center for Bio and Neuroengineering
The Wyss Center is an independent, non-profit research and development organization that advances our understanding of the brain to realize therapies and improve lives. The Wyss Center staff, together with the Center’s academic, clinical and industrial collaborators, pursue innovations and new approaches in neurobiology, neuroimaging, and neurotechnology. The Wyss Center advances reveal unique insights into the mechanisms underlying the dynamics of the brain and the treatment of disease to accelerate the development of devices and therapies for unmet medical needs. The Center was established by a generous donation from the Swiss entrepreneur and philanthropist Hansjörg Wyss in 2014. Additional resources from funding agencies and other sources help the Wyss Center accelerate its mission.

Job description
The Research Scientist will contribute to the cellular and molecular mapping of human brain tissue using established techniques as well develop new strategies. He/she will be part of a team of neurobiologists and brain imaging experts and will work in a brand-new laboratory equipped with state-of-the-art research tools.

Key responsibilities
The candidate is expected to perform several hands-on lines of research within the context of the research goal including:
- Slicing and staining tissue sections with labels for RNA, proteins, and lipids
- Processing tissues using modern techniques such as hydrogel embedding and clearing
- Imaging and producing molecular marker maps
- Designing/synthesizing novel labels enabling multiplexed tissue profiling
- Applying techniques to healthy and diseased tissues to help elucidate disease mechanisms

The candidate will contribute to patents and manuscripts for publication as well as present research findings at conferences and within the Wyss Center community. He/she will act as a mentor to more junior staff or staff from different disciplines, contributing to the collaborative culture of the Center.

This position reports directly to our Chief Scientific Officer.
Requirements

We are looking for an excellent candidate with expertise in multiplexed spatial mapping of brain tissue. A high level of motivation, independence, teamwork capacity, and curiosity are required as well as fluency in English (oral and written).

- PhD degree in a relevant field such as Chemistry, Neuroscience, Biochemistry, Bioengineering, etc.
- 3+ years of relevant research work
- Experience with working with brain tissue and basic neuroanatomy knowledge
- Expertise in bioconjugation chemistry (NHS ester reactions, Click chemistry, thiol-maleimide, etc.) and hydrogel/clearing chemistry
- Experience with immunohistochemistry and RNA staining
- Core competency with fluorescence, confocal, and lightsheet microscopy
- Aptitude for innovation, willingness and ability to drive change, passion for quality and continuous improvement
- Results oriented, proactive problem-solving attitude with strong sense of ownership, urgency, and drive
- Excellent documentation and communication skills, ability to interact at all levels of the business
- Work autonomously with good initiative

Preferred Qualifications

- Familiarity with nucleic acid based technologies and processes such as oligonucleotide barcoding and amplification
- For candidates with PhD's, postdoc experience is a plus
- Fluent in French is a plus

This position is available immediately

To apply, please send your CV and covering letter describing your qualifications, background, and interest in this position to HR@wysscenter.ch no later than the 28th of February 2022.