



Postdoctoral Fellowship in Functional Neuroimaging

Who we are:

At Roche, 80,000 people across 150 countries are pushing back the frontiers of healthcare. Working together, we've become one of the world's leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity, and on seeing each other's differences as an advantage. To innovate healthcare, Roche has ambitious plans to keep learning and growing – and is seeking people who have the same goals for themselves.

The headquarters in Basel is one of Roche's largest sites. It is home to the Corporate Executive Committee, the Pharmaceuticals and Diagnostics Divisions and the global business functions. Roche Basel also covers the entire business chain from research, development and production through to marketing. Over 8,000 people from more than 60 countries work at the site.

The Position:

This Roche Postdoc Fellowship is offered in collaboration with the University of Antwerp, with support from the Biomedicine Lab headed by Prof. Dr. Annemie Van der Linden.

While traditional functional MRI measures of brain function have addressed univariate responses at one or more brain regions, the focus of this fellowship is to understand the relationships of brain activity – or «functional connectivity» – between brain regions, and how they are modulated by drug response. The successful candidate will implement small rodent fMRI to support CNS discovery projects at Roche, Switzerland.

- Functional connectivity MRI bears great potential to gain better insight into the etiology of psychiatric or neurodegenerative disorders allowing to follow and stage disease progression, to test effects of therapeutic interventions and may serve as potential surrogate marker.
- fMRI will enable to characterize a drug's ability to modify altered brain connectivity and thus more information on mode-of-action of a given drug.
- Preclinical fMRI parallels the fast emerging progresses in clinical imaging investigating specific alteration in neurocircuitry underlying a given brain disorders and is therefore representing an attractive translational tool.

The MR Imaging and Spectroscopy Group at Roche, Basel, Switzerland and the Biomedicine Lab at the University of Antwerp are equipped with state-of-the-art MR systems (Bruker, 9.4T, 7T, 4.7T) dedicated for small animals and offer the opportunity to work in an interdisciplinary team of neuroscientists, pharmacologists and engineers.

Who you are:

You're someone who wants to influence your own development. You're looking for a company where you have the opportunity to pursue your interests across functions and geographies, and where a job title is not considered the final definition of who you are, but the starting point.

- You have a PhD degree in biology, pharmacology, neuroscience or related field.
- You are highly motivated, innovative with interest in developing new techniques to further understand brain function and with a high interest of applying fMRI technologies in CNS drug discovery.
- You show enthusiasm for working in a multidisciplinary environment is essential.
- You are familiar with computational and statistical methods for neuroimaging (e.g. MatLab, SPM) and skills in electrophysiology confers an advantage but is not absolutely required.

The Roche Postdoc Fellowship offers a 2 year grant (with optional 2 year extension). Applicant should comply to work for first year in Antwerp, Belgium and 2nd year in Basel, Switzerland.

Job ID No.: 21155

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improve lives.”*

Jean-Jacques K.

Roche, Switzerland

