Postdoctoral Fellowship in Novel Models to Predict AAV Transport Across the Blood-Brain Barrier (Starting May 2020 or Upon Availability, Full-Time)

Switzerland, Basel-City, Basel

At Roche, we believe in the urgency of delivering medical solutions right now – even as we develop innovations for the future. We are passionate about transforming patients’ lives and we are fearless in both decision-making and taking action. And we believe that good business means a better world.

Pharmaceutical Sciences at Roche Pharma Research and Early Development (pRED) focuses on an exploratory research project to develop new in vivo and in vitro assays for investigating the transport of AAV across the blood-brain barrier. Experimental work will be performed in partnership with an academic mentor to provide further insights on state-of-the art microphysiological systems of the blood-brain barrier.

This fellowship position is sponsored by the Roche Postdoctoral Fellowship Programme.

In this position, you will

● Perform mouse studies of different AAV vectors using whole-animal imaging
● Develop new microphysiological models (spheroids, organ-on-chip) of the blood-brain barrier
● Investigate the mechanisms of AAV transport in vitro combining gene editing and advanced cellular models
● Collaborate with a vibrant scientist community both at Roche and with an academic mentor with extensive expertise in in vivo studies and organs-on-chip applied to drug development
● Be expected to generate results for high quality publications in peer reviewed journals

Who you are

We are keen to discover talents who are hungry for knowledge. At the Roche Headquarter site in Basel, employees from over 90 countries are doing now what patients need next. We contribute our share towards achieving our mission and to make our vision of personalized healthcare happen. We offer you a multicultural workplace in a modern environment, which at the same time requires you to be open-minded and adaptable. This also means that you continuously contrast your results with others and acknowledge the benefit of collaborations and communications.

What you bring in your toolbox

● A recent PhD in the field of Cell Biology, Bio-Engineering or a related field (max 3 years after completing PhD)
● Outstanding experience in molecular Cell Biology using both animal (FELASA B or equivalent certification required) and cellular models (primary cell culture, multicellular systems)
● Strong hands-on experience in confocal microscopy and image analysis
● At least one first author publication accepted in a peer-reviewed journal
● Broad interest in gene therapy and mechanisms of transport across the blood-brain barrier
● Very good interpersonal and communication skills and the ability to build good working relationships
● The ability to work independently, to design, perform, and interpret experiments, and to embark on new scientific methodologies

To be considered, please send us your application including

● CV
● Motivation Letter (including desired start date)

Roche embraces diversity and equal opportunity in a serious way. We are dedicated to building a team that represents a range of backgrounds, perspectives, and skills. The more inclusive we are, the better our work will be.

The next step is yours. To apply online for this position visit careers.roche.ch

Roche strives to be an equal opportunity employer.