# Opening for JRF-PhD Position

## Position Description:

A Junior Research Fellow position is available at the Yenepoya Research Center (YRC) in the Translational Neuroscience laboratory headed by Dr. Arnab Datta. The Datta lab combines various preclinical models and comparable clinical samples to discover potential therapeutic targets and biomarkers for neurological disorders using a systems biological approach. Stroke is the most debilitating among all neurological disorders and the predominant cause of adult morbidity with limited treatment options. We seek to understand how perturbations in protein expression and post-translational modifications such as phosphorylation mediate neurovascular dysfunction in brain injury and repair. In the pursuit, we use a combination of biochemical, flow cytometric, proteomics, bioinformatics, and molecular biological tools. It is expected that as a member of this lab, one will have an opportunity to be exposed to all these areas. We value a vibrant and collaborative environment where lab members share ideas, reagents and expertise and desire to work on understanding the pathophysiology of ischemic stroke.

The current project aims to 1) establish an *in vivo* middle cerebral artery occlusion model in rodents, 2) perform model validation on intact animal and on isolated brain tissue 3) characterize the model using protein mass spectrometry 4) understand the evolution of the disease using a data-driven systems approach.

Our lab is located in the Yenepoya University campus in Mangalore. The research facilities at YRC are outstanding. It has state-of-the-art facilities for protein mass spectrometry, FACS, and microscopy. The position will be **fully funded** by the YRC for candidates without govt. fellowship when the candidate will be enrolling for the PhD program. The successful candidate will interact with a diverse group of scientists with backgrounds in biochemistry, molecular biology, stem cell biology, nanotechnology and chemistry. The position offers a generous salary and benefits package as well as the possibility of further career advancement if performance is excellent.

Some sample references include *Datta et al.* Brit. J. Pharmacology 2021 [PMID: 33346914], *Datta et. al.* FESEB J. 2020 [PMID: 32219907], *Datta et al.* J. Prot. Res. 2011. [PMID: 21950801].

## Qualifications:

The successful candidate must have a M.Sc./M.Pharm./M.Tech. in a relevant discipline (biology, chemistry, pharmacy, engineering, medicine). Candidates who have qualified in the GPAT/CSIR-NET/DBT-JRF/ICMR-JRF/UGC-JRF/GATE will be preferred.

Prior hands-on experience with **animals** will be useful. Relevant experience in teaching, pharma or biotech R&D or in research laboratory will be preferred. Having publications in peer-reviewed journals will be an added advantage. Other requirements include ability to work independently following training, strong verbal and written communication skills in English, strong motivation and most importantly a high level of creativity and enthusiasm for science.

## To Apply:

Interested applicants should send a CV, names of 2 references, and a brief summary (max. 1 page, font: 11, Arial) of their future career goals to Dr. Arnab Datta: arnabdattaju@gmail.com. Please write "JRF application" in the subject header.

*Laboratory of Translational Neuroscience*