

The logo for the MRC Laboratory of Molecular Biology, featuring the letters 'MRC' in a large, white, sans-serif font on the left, and the words 'Laboratory of Molecular Biology' in a smaller, white, sans-serif font on the right, separated by a vertical white line. The entire logo is set against a dark brown, rounded rectangular background.

Postdoc Positions in Neuroscience

MRC-LMB, Cambridge, UK

Dr. Jing Ren's lab will land in MRC Laboratory of Molecular Biology (LMB) at Cambridge, UK, in Jan 2020. We are seeking two highly motivated postdocs to join.

MRC LMB is among the world's most successful research centers as judged by its number of Nobel laureates. LMB lists 13 in-house scientists sharing nine Nobel Prizes since the laboratory was founded in 1947, among them Francis Crick and James Watson. It is the flagship of basic biomedical research institutes in Europe.

Dr. Ren received her Ph.D. from the National Institute of Biological Sciences, Beijing (NIBS) in Dr. Minmin Luo's lab, and did postdoctoral research in Dr. Liqun Luo's lab at Stanford University. During her postdoc research, Dr. Ren revealed that the serotonin system within individual raphe nucleus contains parallel serotonin sub-systems, which lays the foundation for integrating anatomical, neurochemical, physiological, and behavioral functions of the serotonin system. Dr. Ren is leading a research program that bridges the gap between the molecular mechanisms of developmental assembly and the behavioural functions of serotonin neurons. The Ren lab focuses on investigating how the serotonin system is assembled during development, and the consequences when it is disrupted.

There are two openings in the lab. 1) One will focus on revealing the molecular mechanisms underlying the circuitry formation of the serotonin system, by applying single-cell RNA sequencing, proteomic mapping, viral tracing, tissue clearing technology etc.. Candidates with strong molecular biology, biochemistry and bioinformatics background are highly encouraged. 2) The other will focus on investigating how genetic defects of the serotonin system induce psychiatrically relevant behaviours by combing ex vivo and in vivo imaging, electrophysiology recording, chemogenetics, optogenetics and etc.. Candidates with experience in calcium imaging, confocal/2P microscopy, and light sheeting imaging are highly encouraged.

The successful candidates are expected to work independently. For those who have limited rodent research experience, excellent training will be provided in Ren lab and the extraordinary animal facility at the LMB.

To apply, please send CV and contact information for three letters of reference to: jren@mrc-lmb.cam.ac.uk. Please write "Postdoctoral application" in the subject header. Applicants must have a Ph.D., or M.D., or equivalent degree.

Positions will remain open until filled.