

POSTDOCTORAL RESEARCH ASSOCIATE

A postdoctoral research associate position is available immediately in Dr. Kannanganattu V. Prasanth's laboratory, in the Department of Cell and Developmental Biology, University of Illinois, Urbana-Champaign, IL, USA.



The project will focus on developing breast cancer (BrCa) 3D-tumor models from cell lines and patients, with minimum cellular heterogeneity. The goal is to understand the molecular mechanisms controlling variability during 3D BrCa organoid growth. The project will address critical questions relating to the role of hypoxia in BrCa progression, metastasis, and chemo-resistance. Specifically, we will study the role of phase-separated membrane-less nuclear domains, genome organization, and epigenetic modifications in regulating transcriptional and post-transcriptional gene regulation during hypoxia. Please see <https://mcb.illinois.edu/directory/profile/kumarp> for the further details about the research conducted in Prasanth lab.

We are looking for individuals who are independent, highly motivated, and possess efficient time management skills. We encourage those with prior experience in experimental and computational approaches in RNA Biology, Epigenetics, or Cancer Biology to apply. The applicant must have a Ph.D. in Molecular Biology, Genetics, Genomics, or a related field and should have good command of written and spoken English. The ideal candidate must be able to analyze high-throughput multi-omics data sets, such as RNA-seq, single-cell seq., Cut & Run, HiC, etc., and should have demonstrated this expertise by publishing in high-quality peer-reviewed journals. Handling 3D spheroids or organoids previously would be a big plus.

The position comes with generous salary and benefits. The candidate will work in a group of >20-30 researchers with expertise in Molecular Biology, Mechanical, Bio Engineering and computer science, offering an opportunity to work as a team, contribute to the candidate's expertise, and address high-impact biological questions. The candidate will learn new skills and develop the ability to execute a multi-disciplinary project. The applicant will also get ample opportunities to interact and collaborate with world-class researchers from several research areas.

The University of Illinois, Urbana-Champaign, established in 1867, has a reputation as a world-class leader in research, teaching, and public engagement. UIUC provides exciting environment with unparalleled opportunities for scientific and career advancement. The campus is located ~2 hours (by car) south of Chicago, Illinois. UIUC has a strong commitment to diversity and mentoring. We welcome applications from women and minorities. The UI is an EEO Employer/Vet/Disabled <http://go.illinois.edu/EEO>.

Interested applicants may email cover letter and *curriculum vitae* containing the list of publications, statement of research interest, names, and email addresses of three references to Dr. Kannanganattu V. Prasanth (kumarp@illinois.edu).