

Postdoctoral Positions
Department of Anatomy & Neurobiology
University of California, Irvine



Postdoctoral positions are available for 2-3 years in the laboratory of Dr. Munjal Acharya funded by NIH, California Institute of Regenerative Medicine (CIRM) and the American Cancer Society (ACS). Salary will be commensurate with experience.

The scholar will be responsible for investigating regenerative strategies to remediate radiation- or chemo-therapy-related brain injury (chemobrain) and cognitive dysfunction. Additional projects will involve characterizing the impact of gliosis (microglial and astrocytic activation), neuroinflammation and CNS complement cascade activation on brain function. Our laboratory employs gene silencing, transgenic, stem cell-based and pharmacological approaches to study neurobiological mechanisms and regenerative strategies to ameliorate neuroinflammation and cognitive impairments.

Requirements:

Successful candidates will have an excellent track record and be highly motivated scientist who can carry out independent experiments and work well with a team. The successful candidate will play a critical role in contributing to execution of the overall aims of the project and the analysis and preparation of the data for presentation in scientific meetings and peer-reviewed publications.

Required skills:

- A Ph.D and laboratory experience in neuroscience, molecular biology and/or biochemistry.
- Hands on experience with mouse or rat handling, rodent behavior and cognitive function.
- Standard molecular and cell biology techniques (IHC, ELISA, Western blot, RNA, DNA).
- Strong skill in organization, data handling and statistical analysis.
- Supervise/train students and research staff.
- Proficiency in English with excellent oral, written and interpersonal communication skills.

Desirable skills:

- Brain cancer induction (orthotopic and flank cancer models), cancer imaging (BLI, CBCT)
 - Hands on experience with mouse and/or rat stereotaxic surgery
 - Mammalian cell culturing (human or rodent stem cells, cancer cells), isolation and characterization of extracellular vesicles (exosomes)
 - Confocal and/or Super-Resolution microscopy, and 3D fluorescent image quantification techniques (i.e. Imaris, Auto Quant, ClearView, NeuroLucida, Stereology).
 - Knowledge of genetic manipulation of mammalian cells and mouse brain to knockdown or overexpress genes (AAV, Lentivirus, CRISPR-Cas, Cre-LoxP)
- Electrophysiology experience would be advantageous

Send CV with the names and addresses of three references (please do not solicit letters) to:

Dr. Munjal Acharya
macharya@uci.edu

Or apply to: <https://recruit.ap.uci.edu/JPF07131>

This position is dependent on extramural funds and may be subjected to the disposition/availability of such funds. The University of California, Irvine is an Equal Opportunity Employer committed to excellent and diversity. All qualified The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.