**Postdoctoral Fellow**

Applications are invited for outstanding postdoctoral candidates to contribute to NIH-funded and University of California President’s Office Tobacco Related Disease Research Program research projects in The Jendzjowsky Lab investigating neuro-immune control of airway defense at The Lundquist Institute for Biomedical Innovation at Harbor-UCLA Medical Center. Fellowships will provide a research training experience designed to develop broad-based expertise in research in neuro-immune reflex regulation and respiratory physiology, and to develop the skills required for an independent research career.

The successful applicant will report directly to Dr. Nicholas Jendzjowsky working on the choice two of the following funded projects:

1) the role of neuroendocrine cells in innate and adaptive immunity;
2) neuroendocrine stem cell niche proliferation during allergy;
3) neuroendocrine stem cell niche proliferation during bacterial infection;
4) the role of neuroendocrine cell/ carotid bodies in the modulation of perinatal nicotine exposure induced asthma or;
5) the role of neuroendocrine cell/ carotid bodies in the modulation of perinatal nicotine exposure induced hypertension.

The primary duties will involve designing and executing experiments for projects focused on the neuro-immune sensing, tissue repair and regeneration and reflex implementation in response to fungi, bacteria or tobacco-produced/nicotine exposure.

The Lundquist Institute (formerly LA Biomedical Institute) is an independent, non-profit research institute with over 110 investigators, 600 scientists, trainees and technicians as well as administrative staff associated with UCLA. In the 67 years since its founding, The Lundquist Institute has made seminal contributions to Science and Medicine, including the modern serum cholesterol test, the creation and implementation of a training system for paramedics, and the development of enzyme replacement therapy for lysosomal storage diseases. The Lundquist Institute intellectual property has enabled the formation of 10 spin-off companies over the last 9 years. Its ecosystem for innovation occupies 11.5 acres on the Harbor-UCLA campus in Torrance, CA. The newly completed research tower adds 80,000 square feet of state-of-the-art laboratory, office and public space to our scientific infrastructure.

Key responsibilities include, but are not limited to:

- Perform and design experiments involving neuronal patch-clamp, neuronal calcium imaging, neuronal cell imaging using two photon/multiphoton microscopy of cultured neurons and tissue preparations, cell culture of neurons and neuroendocrine cells; immunocytochemistry, immunohistochemistry, and immunoassays.
- Animal physiology, in vivo plethysmography, Flexivent pulmonary function tests
- Flow cytometry, cytokine assessment, immunoassays
- Animal physiology, in vivo animal nerve recording/telemetry, blood pressure recording / telemetry
- Adheres to standards for safety and hygiene and ethical conduct as defined by the Institute and
relevant outside parties.
- Excellent communication, presentation and writing skills are essential, as is the ability to work with complex data and work successfully in a highly collegial team.

**Minimum Qualifications**

PhD in immunology, neuro-immunology, neuroscience, physiology, biomedical sciences or equivalent.

**Other Qualifications**

The ideal candidate will possess the following knowledge, skills and professional competencies:

- A doctoral degree (PhD or equivalent).
- A track record of scientific achievement as evidenced by peer-reviewed journal publications
- Experience in neuroscience.
- Experience in molecular biology.
- Experience in immunology.
- Flexibility in work schedule to accommodate experimental need that may occur on any day of the week.
- In-depth knowledge of the scientific principles, methods and processes (technical and/or theoretical) used to conduct scientific research— including experimental design, methods of data collection and analysis, and interpreting and reporting results.
- Demonstrated expertise at working across and within disciplines.
- Ability to plan workload effectively.
- Excellent interpersonal skills.
- Excellent verbal and written communication skills and the ability to work well independently or as part of a team.

Please apply online: [https://careers.lundquist.org/](https://careers.lundquist.org/); Job Code #22-038 or email your CV and cover letter to jmunz@lundquist.org