Postgrad position at the Department of Comparative Medicine at Yale School of Medicine

The Department of Comparative Medicine at Yale School of Medicine seeks **highly motivated and dedicated recent college graduates** for a postgraduate position, to work in one of the participating labs. We seek outstanding individuals with a bachelor's degree, who come from **diverse backgrounds** and are interested in enhancing their research experience before applying to graduate school. **This position reflects our commitment to scientific excellence and diversity, equity, and inclusion in science and medicine**. Diverse background includes - but is not limited to - Individuals from underrepresented groups in science and medicine, first-generation college students, LGBTQIA+ students, students with disability, and students from economically disadvantaged background. **Residents of the New Haven area are particularly encouraged to apply**.

The position is for one year. Extension for a second year will be contingent on performance and available funds.

To Apply:

Please submit the following, directly to the relevant lab (see next page) **by 4/30/23**:

- CV
- A short statement describing prior research experience, your interest in the lab, and the training you would like to receive (up to 1 page)
- A brief diversity statement (up to ½ page) detailing any relevant aspects of your background, and how you will contribute to creating a diverse and inclusive environment.

PARTICIPATING LABS

Xiao-Bing Gao, PhD

The current interests of Dr. Xiao-Bing Gao's lab at Yale School of Medicine are to understand how biological processes at molecular, cellular and systems levels lead to the emergence of physiological functions (such as energy balance and sleep/wake regulation) and complex behaviors (such as reward seek/addiction, stress coping strategy and social behaviors) critical to animal survival. Multidisciplinary approaches, including single nucleus RNA sequencing, spatial transcriptomic analysis, cellular and whole animal electrophysiology, chemogenetic and optogenetic manipulations, rodent models of physiological, mental and social deficiencies as well as neurodegenerative diseases (such as Alzheimer's disease), are currently employed in their projects on drug addiction, obesity and social behaviors.

Highly motivated individuals, especially from groups underrepresented in the biomedical, clinical, behavioral, and social sciences are encouraged to apply.

Lab website: https://medicine.yale.edu/profile/xiao-bing-gao/

Submit application to: xiao-bing.gao@yale.edu

Yajaira Suarez, PhD

The Suarez lab at Yale School of Medicine studies cell biological processes relevant to vascular biology and pathology, including intracellular cholesterol homeostasis, inflammation and angiogenesis.

The ideal candidate has majored in Biology or molecular biology (but lacks a doctoral degree) and is seeking advanced training for a defined period of time. In this position, the candidate will learn to carry out basic science research using different approaches combining molecular and cellular biology, biochemistry, together with genetically modified mouse models.

The candidate will be trained to take on the following principle responsibilities:

1. Assist with mouse colony management and genotyping.

2. Perform PCR and western blot, flow cytometry, confocal microscopy, cell culture, and quantitative real-time PCR.

3. Assist with data analysis and interpretation. Attend and present data at weekly lab meetings.

Highly motivated and dedicated individuals with prior experience of molecular and cellular biology, and of mammalian cell culture/tissue are strongly encouraged to apply.

Lab website: https://medicine.yale.edu/profile/yajaira-suarez/?tab=research

Submit application to: yajaira.suarez@yale.edu

Ken Loh, PhD

The Loh lab is a young lab at Yale's School of Medicine that is interested in brain-body interactions at the tissue and molecular length scales. We are interested in using chemical biology tools developed by us and others to identify the molecular interactions between the autonomic nervous system and organs that are important for metabolism. This is part of our long-term vision to understand how the brain specifically regulates the functionally distinct organs in the body. As part of our research program, we also have a general interest in developing new technologies to discover these interactions. Techniques used in the lab include   imaging cleared intact organs using light sheet microscopy, molecular profiling technologies such as proximity-labeling based proteomics and RNA sequencing.

We are actively looking for creative, enthusiastic, and collaborative scientists to join our team! Our lab is deeply committed to providing an inclusive and supportive lab environment regardless of your background and training. Postgraduates should reach out about the possibility of joining us and have an undergraduate degree or masters related to bio-chemistry, biology or neuroscience.

Lab website: https://kenlohlab.squarespace.com

Submit application to: huaijinkenleon.loh@yale.edu

Xiaoyong Yang, PhD

The Yang laboratory at Yale School of Medicine studies the mechanisms that regulate organ physiology and human diseases including diabetes, obesity, cancer, and aging. A combination of tools, including biochemistry, cell biology, mouse genetics, optogenetics, physiology and multi-omics, are employed.

Candidates are expected to have a bachelor degree in biological sciences (such as biochemistry, molecular biology, cell biology or genetics). Laboratory experience with cell culture or rodent handling is an advantage. Candidates should have excellent organizational and communication skills who are capable of working both independently and as a member of the team. The lab duties also include assistance with organization and maintenance of experimental infrastructure.

Our lab is committed to equal opportunity and diversity and to providing an environment of mutual respect and intellectual discovery in which all lab members can grow and flourish.

Lab website: https://medicine.yale.edu/profile/xiaoyong_yang/?tab=bio.

Submit application to: xiaoyong.yang@yale.edu