Employment Opportunities

- Claridge Research Nanostructured materials
- Microbiologist to Support Drug Discovery Research
- Computer-Aided Drug Discovery
- Discovery of non-opioids for the treatment of chronic pain
- Cryo-electron tomography of virus-host interaction and bacterial metabolism
- University of Wisconsin- Madison
- BMS Collaboration
- Translational Neuroscience

Postdoctoral researcher positions developing nanostructured materials for artificial basement membranes

The Claridge research group in the Department of Chemistry and Weldon School of Biomedical Engineering is seeking candidates for postdoctoral researcher positions developing nanostructured materials for artificial basement membranes, as part of a 5-year high-risk/high-reward Schmidt Science Polymaths project. Currently, we are seeking candidates with previous experience in tissue engineering and/or cell culture, who would contribute strong biological perspectives to the project, while learning about nanomaterial chemistry and characterization from our group. Our core expertise is in nanostructured material chemistry, and our laboratory is developing materials with unique surface functionalization strategies to embed precisely controlled chemistries that promote desired cellular adhesion, proliferation, and differentiation processes. We know that this strategy is effective in controlling myoblast (muscle) cell adhesion and growth and are exploring impacts on other cell lines. Our ultimate goal is to design ultrathin interfacial layers that recapitulate functions of biological basement membranes important in controlling epithelial and endothelial layer growth, driving differentiation, and for interrogating environmental factors that can lead to improved regulation of tissue function. Interested candidates should send a brief statement of research interests, CV, and contact information for three references to the PI (Prof. Shelley Claridge, claridge@purdue.edu).

Post-doctoral Position for Microbiologist to Support Drug Discovery Research

The laboratory of Dr. Daniel Flaherty in the Department of Medicinal Chemistry and Molecular Pharmacology at Purdue University is seeking a post-doctoral research associate in the field of microbiology to support NIH funded drug discovery efforts against novel antibacterial targets of interest in our laboratory. The laboratory is a vibrant research environment and highly interdisciplinary with medicinal chemistry, biochemistry, and structural biology teams all supporting antibiotic drug discovery efforts in search of novel inhibitors for enterococcus and Neisseria gonorrhoeae pathogens. The successful candidate will gain valuable experience and understanding of the drug discovery process and contributing to a team for advancement of molecules. Required degree/skills: PhD (or expected PhD) with experience in microbiology supported by peer-reviewed publications. Required experience includes antimicrobial testing (MICs, killing kinetics, etc), mutant isolation, bacterial genetic manipulation, target
identification. Desired Skills – Candidates with experience in Omics approaches (transcriptomics, proteomics, metabolomics) in the context of drug treatment are especially encouraged to apply.

The candidate would have access to world-class facilities and instrumentation to support their work. Other responsibilities include managing data, managing strain library, maintaining a laboratory notebook, assisting graduate students in microbiology, and manuscript preparation. This position is funded by a grant from the National Institutes of Health in search of novel inhibitors for new antibacterial targets. The position offers a competitive salary commensurate upon experience plus benefits and is contingent upon meeting progress milestones. The successful applicant will be assessed for productivity on a bi-annual basis with the option of yearly renewal if agreed upon by both parties.

Interested candidates should submit a cover letter, CV and at least 3 references that are familiar with the candidate’s experience and research potential to https://careers.purdue.edu/job-invite/24145/. The position is open immediately, however, start date is flexible and negotiable depending on the availability of the candidate. For more information, please visit https://www.flahertylab.com/positions

Postdoctoral Positions in Computer-Aided Drug Discovery at Purdue University

Description

Professor Jianing Li is seeking several postdoctoral researchers in her laboratory in the Department of Medicinal Chemistry and Molecular Pharmacology (MCPM) at Purdue University. The Li research group is working on the innovation of multiscale modeling to discover new medicines. Current projects include computer-aided drug discovery (i.e., small molecules, peptide drugs, and nucleic acid therapeutics) and highly coarse-grained force field development. More information can be found on the current group website https://web.ics.purdue.edu/~li4578/.

Requirement

Applicants should have a Ph.D. in Computational Chemistry, Biochemistry, Biophysics, Computer Science, and related fields. Desirable skills include a good understanding of molecular structures and force field methods, molecular dynamics simulations, basic programming skills, solid doctoral publication record, good verbal and written communication skills, and an ability to work effectively in a teamwork environment with collaborators from different disciplines. Prior experience with machine learning or Python programming will be a plus. Salary will be commensurate with experiences.

Applications should include CV, representative publications, the names of three referees, a cover letter detailing their qualification for this position and what they would contribute to the laboratory.

Applications should be sent by email to jianing-li@purdue.edu.

Discovery of non-opioids for the treatment of chronic pain:

We seek highly motivated postdoctoral associates to apply novel chemical, cellular, and genetic approaches to study adenylyl cyclase signaling for drug discovery. We have ongoing collaborations with medicinal chemists, pain experts, and NCATS. A Ph.D. in pharmacology, cell biology, or biochemistry is desired. The ideal candidate should have expertise in one or more of the following areas: cell biology (including mammalian cell culture, transfection, PCR, qPCR, western blotting), signal transduction, molecular biology, neurobiology, and enzyme kinetics.
Interested candidates should send a brief statement of research interests, CV, and contact information of three references to Val Watts (wattsv@purdue.edu).

Cryo-electron tomography of virus-host interaction and bacterial metabolism

The Metskas lab is looking for a research technician / lab manager to join us on either a part-time or full-time basis. We specialize in cryo-electron tomography of virus-host interaction and bacterial metabolism, but this position could involve cell culture, computational processing, and/or laboratory management depending on the skills and goals of the applicant. Applicants should have at least one year of experience in life sciences research; beyond this, all skill levels are welcome. You can learn more about the lab and our research here: https://www.science.purdue.edu/metskaslab. Please contact metskas@purdue.edu for more information or to apply.

My lab is also looking for a research technician/postdoc (in addition to graduate students). Do you know trainees who are interested or would you be able to circulate the recruitment message below? Thank you so much!

Research Technician/Postdoc position at the University of Wisconsin - Madison

The Huynh lab at the University of Wisconsin – Madison (https://huynhlab.labs.wisc.edu/) is looking for a Research Technician or Postdoc. We study bacterial stress response, pathogenesis, and antibiotic resistance, primarily in Listeria monocytogenes and Bacillus subtilis. We address these mechanistic questions using techniques in bacterial genetics, protein chemistry, mass spectrometry, and microscopy. The successful candidate will lead a project understanding the functions of stress response proteins and virulence factors. We will consider applicants at different levels of experience. Please contact Dr. Huynh at thuynh6@wisc.edu.

To apply for the technician position see: https://jobrxiv.org/job/university-of-wisconsin-madison-27778-research-technician-at-university-of-wisconsin-madison/

If you’re interested in a postdoc position please contact Dr. Huynh directly

Tu-Anh Huynh
Assistant Professor
Food Science Department
University of Wisconsin - Madison
Lab: 231 Babcock Hall
Office: 127A Babcock Hall
POST-DOCTORAL RESEARCH ASSOCIATE - BMS COLLABORATION

Our lab is recruiting a postdoc fellow. Please check the link if interested: [https://careers.purdue.edu/job/West-Lafayette-Post-Doctoral-Research-Associate-BMS-Collaboration-IN-47906/983801600/](https://careers.purdue.edu/job/West-Lafayette-Post-Doctoral-Research-Associate-BMS-Collaboration-IN-47906/983801600/)

**Job Summary**

The Postdoctoral researcher will conduct experiments to characterize novel compounds for re-sensitizing multidrug resistant Gram-negative bacteria to traditional antibiotics to improve human and animal health. Studies will involve examining efficacy of novel compounds that restore drug sensitivity to resistant Gram-negative bacterial strains in ex vivo and in vivo infection models. Also, studies will aim to characterize host-microbe interactions following treatment with novel antibiotic adjuvants and antibiotics in a model of skin infection.

**Education and Experience:** Ph.D. in Biology, Biomedical Sciences, or other relevant fields.

**Skills:** A background in in vivo models and anti-microbial characterization. Previous experience with preclinical models and molecular imaging in vivo are ideal.

---

Postdoctoral Fellow Position in Translational Neuroscience

A postdoctoral fellow position is available in the Lefebvre laboratory at the Children’s Hospital of Philadelphia (CHOP) Abramson Research Institute. The fellow will participate in a research project focused on Lamb-Shaffer syndrome, a neurodevelopmental characterized by global developmental delay, intellectual disability and autism spectrum disorder features. The first aim of the project is to decipher the cellular and molecular mechanisms whereby genetic variants inactivating one SOX5 allele affect neocortex formation and function and thereby cause the syndrome. The second aim is to develop gene therapies that could eventually be used to treat patients with Lamb-Shaffer syndrome. The project will involve both mouse genetic models and human iPSC-derived forebrain organoid models of the disease. These models will be characterized in depth using cutting-edge high-throughput ‘omics’ and in situ approaches. Mouse transgenes and adenovirus-derived viruses (AAV) will be used to test novel therapeutic strategies. Successful accomplishment of this research is expected to deepen understanding of Lamb-Shaffer syndrome, propose treatment options, and help the fellow launch an independent investigator career in translational neuroscience. Strong candidates for this position will have obtained a Ph.D. degree in neuroscience in the last three years, will have a solid scientific background
and strong publication record relevant to the project, and will be eager to contribute productively to pioneering research in translational neuroscience. They will also demonstrate outstanding communication skills and first-rate interpersonal and organizational skills.

The CHOP Abramson Research Institute offers an exceptionally interactive and front-line scientific environment with state-of-the-art research core facilities and with multiple career-development programs for trainees. It recognizes the power of a diverse community and encourages applications from individuals with varied experiences, perspectives, and backgrounds. Competitive salaries are provided along with excellent fringe benefits. Candidates should send their curriculum vitae, a description of research interests and career goals, and contact information for three or more Faculty level references to Dr. Véronique Lefebvre (lefebrev1@chop.edu).