

A postdoctoral associate position is available in the lab Prof. Elias Lolis at the Department of Pharmacology, Yale University, to work on the structures of chemokine receptor (GPCR) complexes. The chemokine and chemokine receptors function as homeostatic and/or inflammatory proteins and are targets in a number of disorders including autoimmune disease and cancer. This position represents an opportunity for a postdoctoral scientist to develop their expertise as well as broaden their experience. The successful candidate will participate with a larger research team that includes graduate students and postdocs working on a mouse knockout of a receptor in a variety of diseases and the development of therapeutics. The project will combine structural techniques such as macromolecular crystallography with biophysical and biochemical techniques to investigate the structural basis of GPCR signaling and its inhibition. The project also includes the crystallography of soluble proteins. Opportunities for cryo-EM studies are also available within the department for large complexes. The lab has all necessary equipment needed for the project and access to the Macromolecular X-ray Crystallography Core Facility that contains an Agilent HPLC with online Wyatt SEC-MAS, Nano-ITC, crystallization robotics (LCP Formulatrix NT dropsetter, TTP LabTech Mosquito and Art Robbins Gryphon), temperature-controlled crystallization incubators, Formulatrix RI-1000 with visible, UV, and fluorescent capabilities, and Dectris Pilatus 200K Pixel Array Detector with a Rigaku 007 generator. We have access to various beamlines in the US. The lab is part of the SBGrid (sbgrid.org) consortium.

Qualifications:

The candidates should hold a PhD, be motivated to independently solve problems, and have a strong background in structural biology. Experience with Sf9 protein expression, purification and biochemical characterization is required. Prior experience in membrane protein biochemistry and computational skills such as a familiarity with the LINUX operating system is a plus.

The postdoc position is available immediately. The application must include:

(1) A letter of intent stating the scientific interests, technical skills, and previous experience of the candidate.

The applicant should also state when the candidate will be able to start working at Yale.

(2) CV including field and date of (expected) graduation, if the applicant has not graduated yet, and a list of publications, with the contact information of at least two references.

Interested candidates should be sent their application to elias.lolis@yale.edu.