Job Title:  Postdoctoral Scholar - The Pennsylvania State University

The laboratory of Stephen Benkovic in the Chemistry Department at The Pennsylvania State University seeks to fill a post-doctoral scholar research position with a highly motivated PhD candidate. This position requires extensive experience in metabolic enzymology with particular emphasis on intracellular fluorescence microscopy and protein-protein interaction reporter assays to define the assembly and operation of metabolons in cells. With our discovery of the purinosome, a metabolon that is constituted from the six enzymes in the de novo purine biosynthetic pathway, we now ask questions about what other metabolic pathways operate through condensed phase metabolons and whether they are proximal to one another in a cell. We will build upon our identification of protein-protein interactions within the purinosome metabolon or with proteins in other metabolic pathways to design and synthesize molecules to inhibit such associations. Such molecules may be elaborated into drugs to alter metabolic diseases. Interested applicants may find further details about the position and how to apply at https://psu.jobs/job/82562. Review of applicants will begin immediately and continue until the position is filled.

To review the Annual Security Report which contains information about crime statistics and other safety and security matters and policies, please go to https://police.psu.edu/annual-security-reports, which will also explain how to request a paper copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.
Job Title: Postdoctoral Scholar - The Pennsylvania State University

The laboratory of Stephen Benkovic in the Department of Chemistry at The Pennsylvania State University seeks to fill a postdoctoral scholar research position with a highly motivated PhD candidate who has extensive experience in human DNA replication, DNA repair, or chromatin dynamics and strong skills in molecular biology techniques. Specifically, experience in immunofluorescence microscopy of human cells, APEX, and single-molecule kinetic methods is appreciated. The position will be in collaboration with Professors Tae-Hee Lee and Mark Hedglin in the Chemistry Department. Our objective is to determine how the large number of DNA repair polymerases are assembled and selected to bypass a light/chemical induced lesion in the DNA and how the gaps created by stalling of the DNA replisome are filled. Mechanistic insights into this process could lead to drugs that increase the efficacy of chemotherapy by countering DNA repair in cancerous cells. Interested applicants may find further details about the position and how to apply at https://psu.jobs/job/82566. Review of applicants will begin immediately and continue until the position is filled.

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