

Biochemistry and Biophysics – The Black Lab

RESEARCH SPECIALIST

UNIVERSITY OF PENNSYLVANIA

The Black Laboratory [<http://hosting.med.upenn.edu/blacklab/>] at the Perelman School of Medicine at the University of Pennsylvania (Department of Biochemistry and Biophysics) has an open position for a motivated scientist with background and experience in biochemistry, biophysics, or a related field. This full time position comes with the expectation that the applicant will commit to one year or ideally two. The work will involve the generation and investigation of recombinant protein/protein and protein/DNA complexes, with responsibilities in experiments using an emerging mass spectrometry-based approach to assess protein conformational dynamics. The experiments have the promise to make a major impact in medically relevant areas of epigenetics, cell signaling, and synthetic biology. Minimum requirements include a B.A. or B.S. with significant coursework and laboratory experience in a related field. This is an excellent opportunity for an energetic individual passionate about a career in life science research with a focus on quantitative/physical approaches to perform independent research in an exciting new area of biochemistry and molecular biology. Interested individuals should email the address below a letter of interest and a resume that includes lab experience, research accomplishments, and a list of at least three references. The start date is negotiable.

Contact: Ben Black [blackbe@pennmedicine.upenn.edu]

Selected Publications:

Pandey, N., and B.E. Black. 2021. Rapid detection and signaling of DNA damage by PARP-1. *Trends in Biochemical Sciences*, 46:744-757.

Zandarashvili, L., M.F. Langelier, U.K. Velagapudi, M.A. Hancock, J.D. Steffen, R. Billur, Z.M. Hannan, A.J. Wicks, D.B. Krastev, S.J. Pettitt, C.J. Lord, T.T. Talele, J.M. Pascal, and B.E. Black.

2020. Structural basis for allosteric PARP-1 retention on DNA breaks. *Science*, 368:eaax6367.

Logsdon, G.L., C.W. Gambogi, M.A. Liskovych, E.J. Barrey, V. Larionov, K.H. Miga, P. Heun, and

B.E. Black. 2019. Human artificial chromosomes that bypass centromeric DNA. *Cell*, 178:624-639.