

Nathan Basisty, PhD

postdoctoral fellow at the Buck Institute for Research on Aging

Dr. Basisty received his Ph.D. in Pathology and B.S. in Biochemistry from the University of Washington. Dr. Basisty develops novel and specialized proteomic approaches to understand aging processes and age-related diseases, including the application of data-independent acquisition (DIA) or SWATH workflows to identify and quantify PTMs and secretomes, development of pipelines to comprehensively assess protein turnover rates, and cell-surface proteomics (surfaceomics). A major aim of his current work, funded by an NIA K99/R00 Pathway to Independence Award, is to discover biomarkers of cellular senescence and develop translationally relevant approaches to study senescent cells in people. Dr. Basisty has been recognized for his work investigating the role of protein turnover in mammalian aging and longevity using novel combinations of metabolic labeling, LC-MS/MS, and software tools. These works have resulted in two “Aging Cell Best Paper Prizes”, in 2014 and 2017 and the Joseph A. Pignolo, Sr. Award in Aging Research 2016, recognized as the “year’s most outstanding contribution to basic aging research”.