Doctoral Landscape Award (DLA) project

Professor Karen Polizzi

October 2027 start

Manipulating glycosylation for targeted glycoform production

Glycosylation, the addition of sugars to a protein, affects the solubility, function, and interactions of proteins. It is often considered the "dark matter" of biology because as a non-templated process it is difficult to control in vivo. This project will develop modular tools and methods to enable us to 'dial-a-glycan' enabling structure-function studies and the development of vaccines and therapeutics with improved efficacy.