NIST BMD Seminar: “Structure-Function Studies of the SARS-CoV-2 Spike and Development of COVID-19 Interventions”

Event Type: IBBR Seminar Series  
Contact Person: Nicole Tenly  
Host: Mike Tarlov

Event Info  
Date: Sep 7 2021 - 11:00am to 12:00pm  
Location: Virtual

Details  
Speaker/Presenter: Jason McLellan  
Speaker Affiliation: University of Texas at Austin  
Event Description:  
During this presentation I will discuss my laboratory’s collaborative work understanding the structure and function of coronavirus spike proteins, and how we leveraged this information to design novel vaccine antigens that are in four leading COVID-19 vaccines. I will also describe how we were able to rapidly determine the structure of the SARS-CoV-2 spike protein in early 2020 and leverage that information into the design of second-generation spikes that are more stable and express better than our initial antigen. I will also discuss our recent work on spike-directed antibodies.