**Bio:** Jonathan F. Lovell is an Empire Innovation Professor of Biomedical Engineering at the State University of New York at Buffalo. His work has been recognized with several distinctions including the NIH Early Independence Award (2013), the Biomedical Engineering Society Young Investigator Award (2015), an NSF CAREER award (2016), the young investigator award from the Society of Porphyrins and Phthalocyanines (2018) the Basic PDT Research award from the International Photodynamic Association (2019), and the ETH Lectureship in Pharmaceutical Sciences (2020). His research interests center around developing new tools to treat or prevent disease