Dr. Scott C. Blanchard received his PhD in Biophysics from Stanford University, and is currently a member of St. Jude Faculty and Endowed Chair in Molecular Imaging. Current research in the Blanchard laboratory focuses on examining structure-function relationships in macromolecular assemblies using genetic, biochemical, and spectroscopic techniques. Our mission is to develop novel approaches, including single-molecule fluorescence imaging methods, to elucidate the conformational and compositional processes critical to the functions of biological systems. The regulation of protein synthesis and ribosome biogenesis in development and disease, mechanisms of integral membrane protein signaling, and small-molecule interventions in infectious disease, are key focus areas.

A principal goal of investigating this diversity of biology systems is to reveal regulatory paradigms that explain how cellular factors and small-molecules modify the function of essential molecular machines. We seek to leverage the information obtained from our discovery research initiatives to improve the efficacy of clinical interventions for the betterment of the human condition.

*ZOOM option available: https://asu.zoom.us/j/87081218152*