Prof. Klaus Hahn

Title:
Controlling adhesion proteins with light - insights into allosteric optogenetic control

Abstract:
Coming Soon

Biography:
Dr. Hahn obtained his B.S in biochemistry from the University of Pennsylvania, followed by a doctorate in Organic Chemistry from the University of Virginia and postdoctoral studies at Carnegie Mellon University's Center for Fluorescence Research. He was a professor at Scripps Research Institute, then University of North Carolina - Chapel Hill Medical School, where he is the Thurman Distinguished Professor of Pharmacology. Dr. Hahn's lab focuses on molecular tools to visualize and control signaling in living cells, and on questions re the spatio-temporal dynamics of signaling. They are currently emphasizing GTPase "circuits" in adhesion, phagocytic and durotactic signalin. Novel biosensor designs minimally perturb signaling and visualize conformational changes of single molecules in living cells. New approaches to control protein behavior in living systems include engineering allosteric networks for control by light or small molecules, and engineered domains that can be inserted to alter protein responses. Dr. Hahn is a recipient of an NIH Transformative Grant, the NIH's James Shannon Director's Award, the Pearse Prize of the Royal Microscopy Society, and he is a fellow of the AAAS.