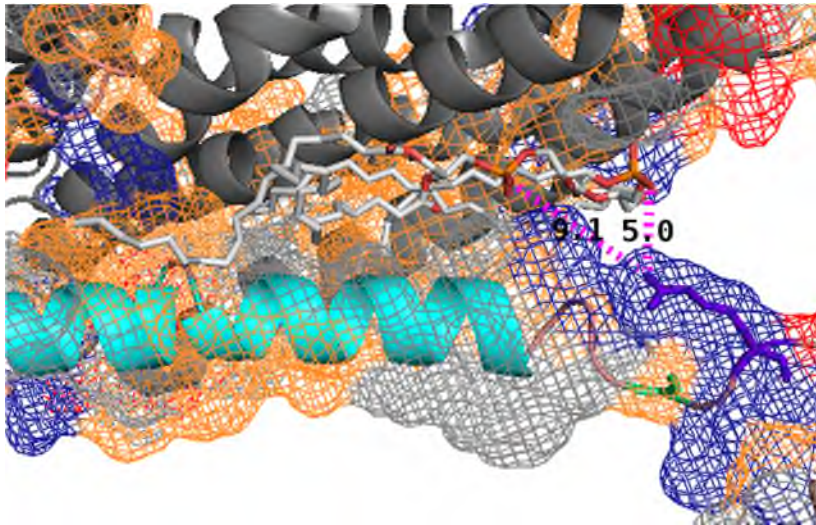
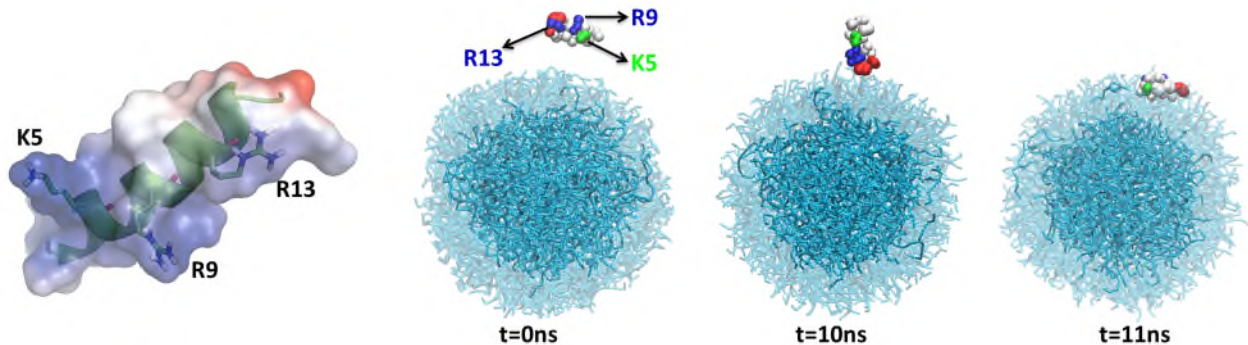


Figure 1. Example Research Results.

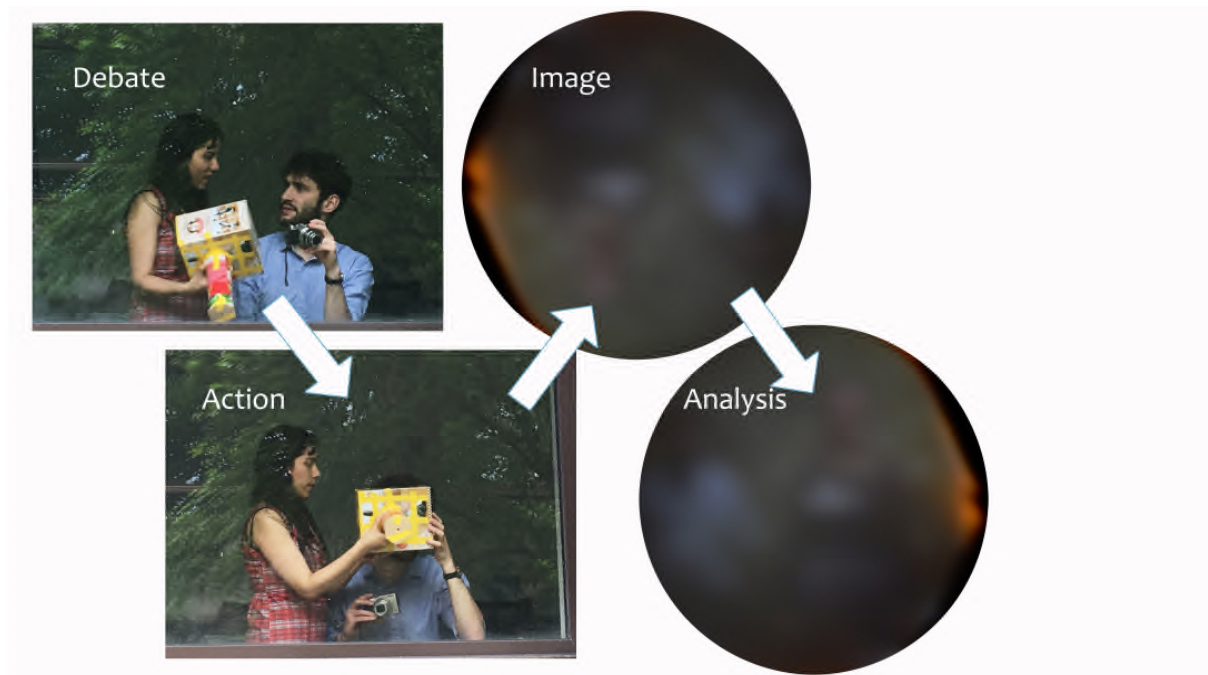


A. Binding of cardiolipin to proteins. Example shows cardiolipin bound to cytochrome c oxidase. Results published in: Planas-Iglesias J, Dwarakanath H, Mohammadyani D, Yanamala N, Kagan VE, Klein-Seetharaman J. (2015) Cardiolipin Interactions with Proteins. *Biophys J.* 09(6):1282-94 and reviewed in: John Maguire; Yulia Tyurina; Dariush Mohammadyani; Aleksandr A Kapralov; Tamil S Anthonymuthu; Feng Qu; Andrew A Amoscato; Louis J Sparvero; Vladimir A Tyurin; Joan Planas-Iglesias; Rong-Rong He; Judith Klein-Seetharaman; Hülya Bayır; Valerian E. Kagan (2016) Known Unknowns of Cardiolipin Signaling: The Best Is Yet To Come. In: *Lipids of Mitochondria, special issue of BBA - Molecular and Cell Biology of Lipids*, in press.



B. Lipid droplet formation and binding of CIDEA peptide to lipid droplets in a new collaboration at the host institution. Published in: Barneda, D., Gaspar, M.L, Planas, J., Mohammadyani, D., Prasannan, S., Dormann, D., Han, G.-S., Jesch, S.A., Carman, G.M., Kagan, V., Parker, M.G., Ktistakis, N.T., Dixon, A., Klein-Seetharaman, J., Henry, S.A., Christian, M. (2015) The brown adipocyte protein CIDEA promotes lipid droplet fusion via a phosphatidic acid-binding amphipathic helix. *eLife* 4, e07485.

Figure 2. Example Outreach Activity “Selfie Science”.



Our work with the membrane protein rhodopsin is important for function and dysfunction in vision because rhodopsin is the pigment in the eye sensitive to light, and misfolding of rhodopsin causes the retinal degeneration disease retinitis pigmentosa. To demonstrate the concept of interdisciplinary research, we developed an outreach activity related to our research in vision. Using the analogy of animal eyes to photographic “vision”, we had children build pinhole cameras and develop photographic paper using home-made developer (coffee, vitamin C tablets and washing soda). They gained insight how chemistry, mathematics, engineering, biology and medicine all weave together in one research project. We submitted the above picture to the photographic competition “Looking at diversity through the lense of a camera”. The image shows our ethnically diverse group through pinhole, pocket camera and iphone cameras. We are awaiting the outcome of the competition.