Bestrophin-1 (BEST1) calcium-activated chloride channels regulate the flow of chloride ions across eukaryotic cell membranes in response to intracellular calcium levels. Mutations in BEST1 cause eye disease. This presentation will focus on the insights into the molecular bases of BEST1 function obtained by reconstituting channel function from purified components and determining the channel’s atomic structure.

Stephen Long’s laboratory studies the molecular mechanisms of eukaryotic ion channels that generate or respond to calcium signals using a combination of approaches that address function and three-dimensional structure.

Abstract:

Recent relevant publication: