

Department of Integrative Biology

2018 Spring Seminar Series



When: Feb. 16, 2018

Where: SI 2001 at Noon

“Computer Modeling of Membrane Proteins”

Dr. Hai Lin

Professor

CU Denver Department of Chemistry

Synaptotagmin (Syt) proteins are Ca^{2+} sensors whose C2A and C2B domains are thought to create a bridge between two opposing membranes to stabilize intermediate states in membrane fusion. The binding of Ca^{2+} to the Syt C2 domains triggers the proteins docking to the membrane. We will present state-of-the-art computer modeling of Syt C2 domains standalone in solution and in the presence of membranes, respectively. Our goal is to understand what drives the protein to bind with membrane. Our results, some of which are quite unexpected, are found in good correlation with experimental measurements.

Everyone is welcome to the seminar. If you would like to meet with the speaker, please email Dr. Chris Miller at chris.miller@ucdenver.edu