

BCH 252 Seminar Series



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Seminar Title: "Membrane interactions and inhibition of the KRAS oncogene"

Abstract: Compared to protein-based membrane targeting motifs, much less is known about the structural and biophysical basis of membrane targeting by the intrinsically disordered lipid-based membrane targeting motifs of small GTPases. In this presentation, I will discuss new insights from molecular simulations and experiments into how the flexible lipid anchor of KRAS recognizes membrane lipids in a conformational ensemble-dependent manner, and its role in the dynamics of the full-length protein on membrane surfaces. I will then briefly discuss our efforts toward the development of small-molecule non-covalent allosteric KRAS inhibitors.

Tuesday, May 21st, 2024 12:00 p.m. - 12:50 p.m. PST
In-Person: Genomics Auditorium 1102A