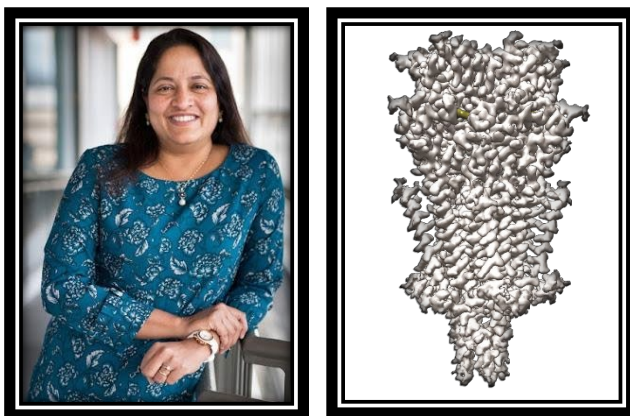


Webinar

Understanding gating mechanisms in Pentameric Ligand-Gated Ion Channels by CryoEM



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9:00 AM (PST)/12:00 PM (EDT) Thursday, December 3, 2020

My group is interested in structure, function and dynamics of pentameric ligand-gated ion channels (pLGICs). The pLGICs are central players in mediating fast synaptic transmission in the neuronal- and neuromuscular junctions. My talk will focus on two members of the pLGIC family: cation-selective serotonin (3A) receptors (5-HT_{3A}R) and anion-selective glycine receptors (GlyR). I will present an overview of our rationale and strategies used to determine cryo-EM structures of full-length receptors in multiple conformational states. Findings from these studies have provided new molecular insights into gating mechanisms and drug modulation.

All are welcome to attend. Registration is at no-cost, but sign-up is required:
https://stanford.zoom.us/webinar/register/WN_rdxuZDOAR9i-px1UPEXBUA
Password: 930802

This webinar series is jointly hosted by the NIH Transformative High Resolution CryoEM Program Service Centers: the National Center for CryoEM Access and Training (NCCAT), the Pacific Northwest Center for CryoEM (PNCC), and the Stanford-SLAC CryoEM Center (S2C2) who provide no-cost access to cryoEM instrumentation and training. In this monthly series, we will highlight cryoEM methods and use the Q&A session after the seminar to stimulate discussion of best practices and interesting challenges that will be helpful to researchers new to the field. Representatives from all three service centers will also be on hand to answer questions about the CryoEM resources available to biomedical researchers and how to access them.