

Research Theme: Human Potassium Channels
Research Project Title: Structural analysis of drug binding on Potassium Channels
Principal Investigator/Supervisor: Asst/Prof Shashi Bhushan
Co-supervisor/ Collaborator(s) (if any): Prof George Chandy, LKC NTU
Project Description a) Background: Potassium channels are one of the largest family of ion channels in humans. They are involved in different physiological systems which makes them excellent targets for selective modulation of specific tissues and functions. b) Proposed work: A number of ligands have been identified by different research groups to selectively block the potassium channels for treating several human diseases. In this project we would map the ligand binding site on the potassium channels by determining the cryo-EM structure of Human Potassium channel complexed with ligands.
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