

MONDAY

COLLOQUIUM

Membrane Trafficking Proteins Moonlight to Assemble Ion Channel Pores and Regulate Immunity

Monika Vig (TIFR, Hyderabad)

19 Jan 2026 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

Ion channels are multimeric membrane proteins involved in the transport of ions across lipid bilayers. Structural studies on detergent solubilised pore forming subunits have proposed fixed stoichiometries for these important conduits. Our work over years has shown that, in the native cell environment, ion channels display flexible stoichiometries that are regulated by specific membrane trafficking proteins. This novel understanding of ion channel and SNARE family proteins has important implications for immune and neurological disorders as well as drug design.