

Animal division



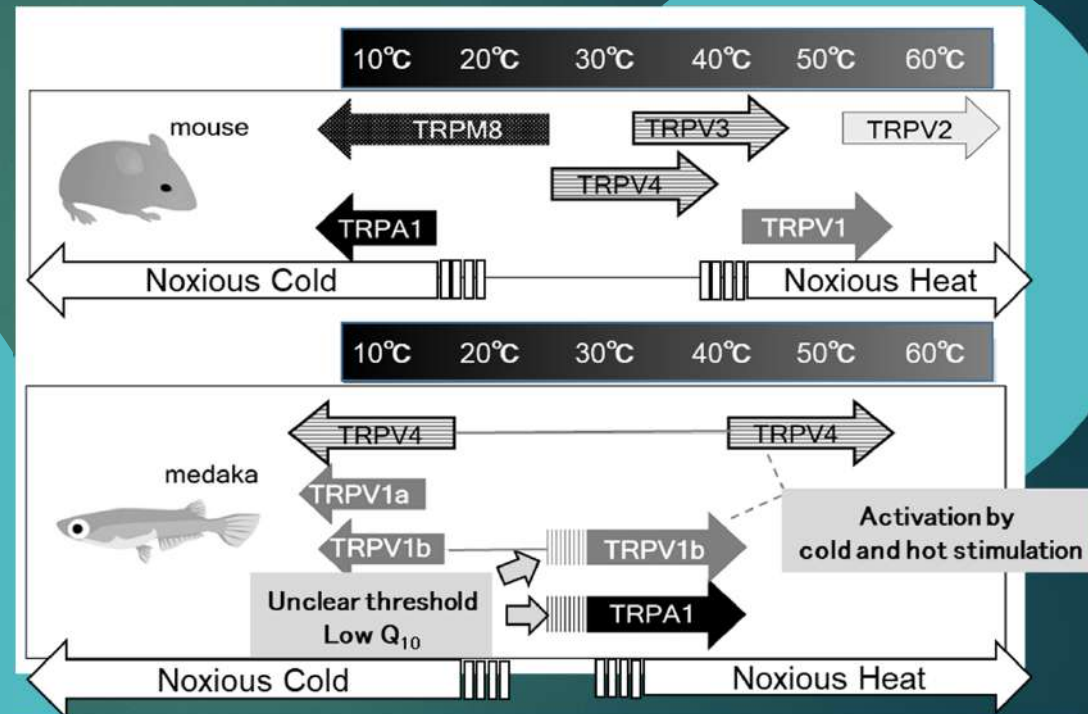
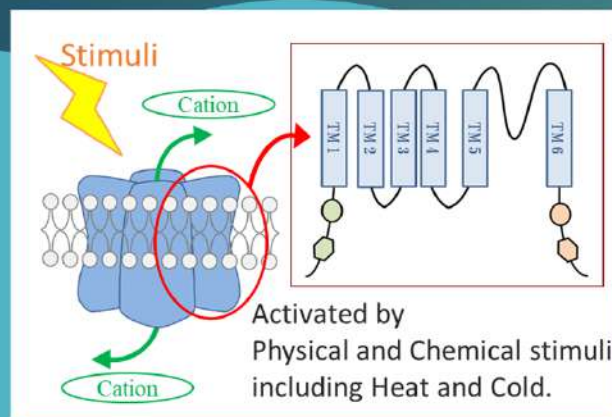
Osamu Saitoh (PhD, professor)

Research area: Neuroscience, Sensory Physiology

Research interests: Functional diversity of TRP sensors for environmental adaptation of animals

ThermoTRPs in mouse and medaka

TRP channels



Subsets of TRP family function as thermal sensors and play central roles in the thermosensory system (thermoTRPs) in animals. Recently, we found that fish has considerably unique sets of thermoTRPs by molecular cloning and functional analysis. Our project is to study physiological roles of each TRP sensor in fish living in water by gene disruption with genome editing technology.