

# Effects of skin-expressed chemical receptors on body temperature acclimation

**Akane Ohta, Natsune Takagaki**

*Graduate school of Natural Science / Institute for Integrative Neurobiology, Konan University*

Animals sense temperature information for acclimation and habituation to dynamically changing environmental temperature conditions. However, their molecular and cellular machinery has not been well known. In this analysis, nematode *Caenorhabditis elegans* was utilized to study molecular and cellular machinery of temperature tolerance. Through the analysis, chemical receptor expressing in cuticle was involved in temperature acclimation of the body.