Special Issue

Advances in Paraventricular Thalamic Nucleus

Message from the Guest Editor

Emerging evidence has confirmed that paraventricular thalamus plays a critical role in the regulation of emotion, motivation, and behaviors . PVT neurons receive projections and modulations widely from the prefrontal cortex , hypothalamus, zona incerta, and brainstem. To exert their functions, PVT neurons send projections to the forebrain including the amygdala, nucleus accumbens , insular cortex, and bed nucleus of stria terminalis . Although the afferents and efferents of PVT are relatively clear based on traditional neural circuit tracings, the specific functions of those projections remain to be clarified due to the diversity of PVT neurons across the anatomical regions from anterior to posterior PVT.

In this Special Issue, we intend to present important findings, achieved with cutting-edge technologies and traditional tools , that lead to a better understanding of the diversity of PVT neurons and their neural circuit connections for the regulation of emotion, motivation, and behaviors. We hope to collect high-quality findings about PVT neurons in cellular, circuitry, and behavioral levels that contribute to the advances of PVT in functional brain control.

Guest Editor

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