



## Advances in Paraventricular Thalamic Nucleus

Guest Editor:

### Dr. Xiaobing Zhang

Department of Psychology,  
Florida State University,  
Tallahassee, FL, USA

Deadline for manuscript  
submissions:

**closed (31 July 2022)**

### 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.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Stephen D. Meriney

Department of Neuroscience,  
University of Pittsburgh,  
Pittsburgh, PA 15260, USA

## Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, PsycInfo, CAPlus / SciFinder, and other databases.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).

## Contact Us

---

Brain Sciences Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/brainsci](https://mdpi.com/journal/brainsci)  
[brainsci@mdpi.com](mailto:brainsci@mdpi.com)  
[X@BrainSci\\_MDPI](https://twitter.com/BrainSci_MDPI)