



## Understanding the Molecular Diversity of Astrocytes

Guest Editor:

### Prof. Dr. Sergey Kasparov

School of Physiology,  
Pharmacology and  
Neuroscience, University of  
Bristol, University Walk, Bristol  
BS8 1TD, UK

Deadline for manuscript  
submissions:

**closed (18 October 2019)**

### Message from the Guest Editor

All physiological and pathological processes in the brain are supported or assisted by astrocytes. Recent evidence indicates that astrocytes in different parts of the brain have different genetic fingerprints. But how many genuine subtypes which can be reliably distinguished functionally and anatomically are actually present?

Our current knowledge of astrocytic transcriptomes comes from studies which have used very different methods and this is an important factor. Each of the experimental approaches and specific paradigms used to challenge astrocytes has consequences to what we see at transcriptional level and it is important to keep these differences in mind when trying to make sense of the plethora of published transcriptomic data.

We invite the leading laboratories to discuss their findings in one volume where we focus readers attention on the key questions: how much our “vision” of astrocytes depends on the experimental conditions and what are the take home messages of the transcriptomic data available so far.





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)