



## Vulnerability and Adaptation in Brain Development

Guest Editors:

**Prof. Dr. Ishan Kumar Patro**

School of Studies in  
Neuroscience/Zoology, Jiwaji  
University, Gwalior, India

**Dr. Nisha Patro**

School of Studies in  
Neuroscience, Jiwaji University,  
Gwalior, India

**Prof. Dr. Prakash Narain  
Tandon**

National Brain Research Centre,  
Manesar, Haryana, India

Deadline for manuscript  
submissions:

**closed (25 November 2023)**

### Message from the Guest Editors

Multiple factors influence the development and maintenance of the nervous system. Stresses at critical windows during brain development are detrimental as the deficits are severe, irreversible and long lasting, leading to later life disorders. The consequences of stress are dependent upon the time at which an individual encounters it.

Prenatal stressors (such as maternal immune activation, malnourishment, obesity, smoking, alcoholism, drug/toxin exposures, diabetes, HIV, hepatitis and more), post-natal stressors (such as defective childbirth, injury, poor hygiene, infections, malnourishment, parental separation, violence, etc.) contribute to compromised brain development, abnormal cellular networking, cellular degeneration, inflammation and more. Such changes may lead to the development of mood and anxiety disorders, depression and poor cognitive development: the hallmarks of neurological disorders like Schizophrenia, Alzheimer's, bipolar disorders and even accelerated aging.

We need to identify the factors that influence the functional and structural plasticity of the developing brain influencing its adaptability to perinatal challenges.





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, CAPlus / SciFinder, and other databases.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2024).

## 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)