



*nutrients*



an Open Access Journal by MDPI

## Nutrition for Brain Development and Repair

Collection Editor:

**Dr. Stephane V. Sizonenko**

Division of Child Growth &  
Development, Department of  
Pediatrics, University of Geneva,  
Geneva, Switzerland

### Message from the Collection Editor

Dear Colleagues,

Nutrients are a prerequisite for the growth and development of any organism and of major importance for brain development. Fetuses, newborns, and infants exposed to poor nutritional support are at high risk for neurodevelopmental deficits. Nutrients can potentially play an active neuroprotective role on developmental brain injury. Nutrients with specific direct or indirect activities such as antioxidant, anti-inflammatory, and neurotrophin expression could reduce induced brain damage. As a general neuroprotective strategy, the optimization of protein, fatty acids, and energy intake during gestation and after birth is the most important step toward this goal, but the addition of specific active nutrients can further reduce damage by specifically targeting injury and/or repair.

The aim of this Special Issue is to put together high-quality research, clinical or experimental, that looks for the effects of lack or altered nutrition during prenatal and postnatal brain development, but also for neuroprotection conferred by specific nutrients.



[mdpi.com/si/70382](https://mdpi.com/si/70382)

**Topical** Collection



# *nutrients*



an Open Access Journal by MDPI

## Editors-in-Chief

### **Prof. Dr. Lluís Serra-Majem**

1. Centro de Investigación  
Biomédica en Red Fisiopatología  
de la Obesidad y la Nutrición  
(CIBEROBN), Institute of Health  
Carlos III, 28029 Madrid, Spain  
2. Research Institute of  
Biomedical and Health Sciences  
(IUIBS), University of Las Palmas  
de Gran Canaria, 35001 Las  
Palmas, Spain  
3. Preventive Medicine Service,  
Centro Hospitalario Universitario  
Insular Materno Infantil (CHUIMI),  
Canarian Health Service, 35016  
Las Palmas, Spain

### **Prof. Dr. Maria Luz Fernandez**

Department of Nutritional  
Sciences, University of  
Connecticut, Storrs, CT 06269,  
USA

## 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, MEDLINE, PMC, Embase, PubAg, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (*Nutrition & Dietetics*) / CiteScore - Q1 (*Nutrition and Dietetics*)

## Contact Us

*Nutrients* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/nutrients](http://mdpi.com/journal/nutrients)  
[nutrients@mdpi.com](mailto:nutrients@mdpi.com)  
[X@Nutrients\\_MDPI](https://x.com/Nutrients_MDPI)