

Special Issue

Exploring the Effect of Folate and Other B Vitamins on Brain Health and Disease

Message from the Guest Editor

Vitamins of the B complex group play critical roles in cellular metabolism, and their deficiency leads to specific disorders. This is of utmost significance in embryonic development, especially in the development of the brain and the structural refinement and metabolic functioning of the neonatal and adult brain. This Special Issue will focus on the role of these vitamins in brain development and function, the disruption of this process, and potential strategies for the prevention and treatment of brain disorders resulting from the deficiency or disrupted metabolism of B vitamins. Special emphasis will be placed on B12 and folate because of their role in fetal and neonatal brain development and in adult brain functional disorders such as depression, dementia, and schizophrenia. We also aim to explore genetic and epigenetic influences on developmental disorders, as well as the role that methyl donors play in regulating this process.

Guest Editor

Dr. Edward Quadros

Department of Medicine, SUNY Downstate Medical Center, New York, NY 11203, USA

Deadline for manuscript submissions

15 December 2025



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/183638

Nutrients
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nutrients@mdpi.com

[mdpi.com/journal/
nutrients](https://mdpi.com/journal/nutrients)





Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



[mdpi.com/journal/
nutrients](https://mdpi.com/journal/nutrients)



About the Journal

Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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 (UIBS), 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 and Dietetics) / CiteScore - Q1 (Nutrition and Dietetics)