

Special Issue

Maternal Nutrition and Placental Biology in Early-Life Programming

Message from the Guest Editors

This Special Issue, “Maternal Nutrition and Placental Biology in Early-Life Programming”, highlights the placenta as the central integrator of maternal diet, metabolic status, and co-exposures that shape fetal development and long-term health. We invite original research, reviews, and methodological papers that elucidate mechanistic links between prenatal nutrition—dietary patterns, macro-/micronutrients, one-carbon metabolism, molecular signalings, and gestational weight dynamics—and placental structure and function. Of particular interest are multi-omics approaches, placental pathways (nutrient transport, immune signaling, vascularization, circadian regulation), and studies connecting these signatures to infant birth and developmental phenotypes. We welcome work that addresses health equity, including populations in resource-limited or agricultural settings, and studies that evaluate interactions between nutrition and the broader prenatal exposome (e.g., endocrine disruptors, pesticides), as well as interventions and policy-relevant insights. Methodological contributions on mixture modeling, causal inference, and integrative analytics are encouraged.

Guest Editors

Dr. Yewei Wang

Gangarosa Department of Environmental Health, Rollins School of Public Health, Emory University, Atlanta, GA 30322, USA

Dr. Elizabeth M. Kennedy

Department of Gynecology and Obstetrics, School of Medicine, Emory University, Atlanta, GA 30322, USA

Deadline for manuscript submissions

25 June 2026



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/257801

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