

## Special Issue

# Maternal Gestational Diabetes and Its Impact on Fetal Health

### Message from the Guest Editor

Gestational diabetes mellitus (GDM) is associated with risks to both mother and child. Consequently, GDM is one of the most important metabolic complications during pregnancy. The benefits of therapies aiming to reduce glucose levels in GDM pregnancies are well-established. Nonetheless, several critical research questions remain unresolved: Firstly, the Hyperglycemia and Adverse Pregnancy Outcomes (HAPO) Study indicated a direct association between maternal glucose concentrations during a 75g oral glucose tolerance test, conducted between the 24th and 32nd weeks of gestation, and adverse perinatal outcomes. It is, however, an ongoing debate regarding whether earlier testing and treatment (before 24 weeks of gestation) could diminish perinatal complications. Secondly, the frequent co-occurrence of fetal overgrowth and maternal obesity may be partially independent from maternal hyperglycemia. This phenomenon is likely driven by a higher degree of maternal insulin resistance in obese mothers; however, research in this area is limited. Thirdly, GDM presents a complex challenge in clinical management due to its phenotypic heterogeneity.

### Guest Editor

Dr. Christian S. Göbl

Department of Obstetrics and Gynecology, Division of Obstetrics and Feto-Maternal Medicine, Medical University of Vienna, Vienna, Austria

### 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/220737](https://mdpi.com/si/220737)

*Nutrients*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nutrients@mdpi.com](mailto: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)