# **Special Issue**

# Brain Development and Nutrition in Preterm Infants

## Message from the Guest Editor

Brain development represents a fascinating area of research, especially in premature infants. The success of intrauterine development is challenged by extrauterine circumstances.

A mother's eating habits and food quality during pregnancy produce substances that are passed to the fetus via the umbilical cord. Investigations into the mechanisms behind this are difficult, although omics sciences are starting to offer some insights. Nutrition outside of the uterus is challenged by the quality of parenteral and enteral nutrition, as well as other factors, such as inevitable oxidative stress. It is important to identify and prioritize the crucial steps in brain development in premature infants exposed to a range of insults during intrauterine and extrauterine life at different gestational ages.

We invite the submission of high-quality studies by experts across diverse fields, including, but not limited to, basic scientists, neuro-clinicians involved in follow-up, nutritional experts, and MRI researchers.

#### **Guest Editor**

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## Deadline for manuscript submissions

closed (31 October 2025)



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## 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.

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