

## Special Issue

# Nutrient-Driven Modulation of the Gut Virome and Bacteriome: Implications for Brain Aging and Neurodegeneration

### Message from the Guest Editors

The gut microbiota and virome are key in the gut–brain axis. Diet impacts the gut bacteriome, but its effects on the virome and brain health are unclear. This Special Issue explores the links between diet, gut microbiota, and central nervous system function. We welcome studies on how nutrients and dietary patterns affect gut microbial communities and their links to cognitive decline and neurodegenerative diseases. We focus on mechanisms influencing immune responses, blood–brain barrier integrity, and neuronal health. Contributions using metagenomics, metabolomics, or longitudinal studies are encouraged. This issue aims to integrate nutritional science, microbiome research, and neuroscience to advance our understanding of gut-derived factors in brain aging and develop new dietary strategies for neurodegenerative diseases.

### Guest Editors

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### Deadline for manuscript submissions

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## Nutrients

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## 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.

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### Editors-in-Chief

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