# **Special Issue**

# Choline: An Essential Nutrient for Human Health

# Message from the Guest Editor

Choline is an essential nutrient classified within the vitamin B complex, which regulates several functions relevant for maintaining human health from early life to aging. Dietary choline availability regulates choline levels, which are relevant for early brain development and brain plasticity throughout life. Thus, choline dysregulation has been associated with lower cognitive performance; neurodegenerative diseases, such as Alzheimer's, Parkinson's, and Huntington's diseases; mental disorders; and aging cognitive decline. Cholinerelated functions seem to be also dysregulated in other clinical conditions, such as cancer, obesity, and immune system and cardiovascular diseases. Therefore, nutritional intervention is emerging as a promising treatment, either by regulating choline levels through maternal and adult choline supplementation or by acting on the bacterial metabolism of dietary choline throughout gut microbiota modifications. Being such a wide field, more research is required for understanding the role of choline in human health, action mechanisms, interactions with other micronutrients, and potential value for disease management.

#### **Guest Editor**

Prof. Dr. Milagros Gallo

Department Psychobiology, Institute of Neurosciences, University of Granada, Spain

## Deadline for manuscript submissions

closed (31 March 2021)



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

mdpi.com/journal/ nutrients





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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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- Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
- Research Institute of Biomedical and Health Sciences (IUIBS),
   University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
   Preventive Medicine Service, Centro Hospitalario Universitario
   Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las

#### Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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