



Effects of Dietary Patterns and Exercise on Exerkine/Endocrine Responses

Guest Editor:

Dr. Pieter De Lange

Dipartimento di Scienze e
Tecnologie Ambientali,
Biologiche e Farmaceutiche,
Università Degli Studi Della
Campania “Luigi Vanvitelli”, Via
Vivaldi 43, 81130 Caserta, Italy

Deadline for manuscript
submissions:

closed (5 June 2024)

Message from the Guest Editor

Dear Colleagues,

In recent years, a multitude of factors (referred to as “exerkines”) has emerged that link the physiological response of multiple tissues to mobility and nutrition, through endocrine, paracrine, and/or autocrine pathways. Interestingly, in response to exercise or dietary interventions, these factors may be produced in tissues that deviate from those originally discovered and thought to be the main production site (e.g., brain-derived neurotrophic factor (BDNF), being produced in skeletal muscle in response to exercise or energy deprivation). Another factor, thyroid hormone (T3), is increasingly produced locally (muscle) but not centrally (thyroid) in response to exercise. One entity that modulates metabolic responses by stimulating exerkine synthesis is the microbiome, which should be considered an additional organ of the body. This Special Issue aims to focus on the emerging roles of “exerkines”, including hormones, as well as nutritional lipids and amino acids, crucial for maintenance of the body’s physiological constitution, in order to adequately respond to the ever-increasing variety of challenges it is facing.





an Open Access Journal by MDPI

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 (Food Science)

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.

Contact Us

Nutrients Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nutrients
nutrients@mdpi.com
X@Nutrients_MDPI