Special Issue

The Regulation of Human Skeletal Muscle Metabolism by Nutrients across the Lifespan

Message from the Guest Editors

Skeletal muscle is the body's largest organ by mass, and one which plays a crucial role in locomotion and the regulation of homeostasis, e.g., glycaemic control, thermogenesis, substrate liberation in response to illness/injury. This is reflected by the robust epidemiological links between low skeletal muscle mass and all-cause morbidity/mortality. In healthy, weightbearing individuals, skeletal muscle mass is regulated by nutrition and contractile activity (movement/exercise). As such, the manner by which muscles respond to nutrients—across the human lifespan—are critical determinants of muscle mass maintenance. Therefore, optimising nutrition (e.g., protein quantity/quality, energy, eating patterns, novel nutraceuticals) to maximise muscle maintenance across the lifespan, both in isolation and in tandem with physical activity, is highly important; as is the identification of mechanisms underlying nutrient mishandling, and propagating a failure in muscle homeostasis, i.e., in ageing and comorbidities. The purpose of this Special Edition is to help to address these questions via encouraging submission of relevant reviews and clinical studies in humans.

Guest Editors

Prof. Dr. Philip J. Atherton

School of Medicine, Royal Derby Hospital, University of Nottingham, Nottingham, UK

Dr. Bethan E. Phillips

Clinical, Metabolic & Molecular Physiology, MRC-ARUK Centre for Musculoskeletal Ageing Research & NIHR Nottingham BRC, Division of Medical Sciences & Graduate Entry Medicine, School of Medicine, University of Nottingham, Royal Derby Hospital Centre, Nottingham, UK

Deadline for manuscript submissions

closed (31 May 2020)



Nutrients

an Open Access Journal by MDPI

Impact Factor 5.0 CiteScore 9.1 Indexed in PubMed



mdpi.com/si/32367

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

mdpi.com/journal/ nutrients





Nutrients

an Open Access Journal by MDPI

Impact Factor 5.0 CiteScore 9.1 Indexed in PubMed





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. Lluis Serra-Majem

- 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 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)