

Special Issue

The Role of Leptin on Adipocyte Metabolism and Obesity

Message from the Guest Editor

Even though it became quickly evident that exogenous administration of leptin does not represent the holy grail in the treatment of obesity, important recent insight shows that relatively high leptin levels are independently associated with insulin resistance; thus, attempts to decrease leptin levels—even in subjects without obesity—may still be beneficial. Translational studies combining clinical longitudinal data and adipose tissue (AT) biopsies to assess AT morphology and function may provide better insight into the determinants of leptin secretion. Moreover, the cross-talk between adipose tissue and other key metabolic organs (such as the brain and the liver) may be partly mediated via leptin's action. Functional imaging studies with the simultaneous assessment of leptin levels may assess the effects of leptin on tissue-specific metabolism. For this Special Issue, we welcome original papers that increase our insight regarding the secretion and function of this key adipokine, as well as high-level reviews that summarize the current knowledge on the topic.

Guest Editor

Dr. Eleni Rebelos

1. First Department of Propædeutic Internal Medicine and Diabetes Center, School of Medicine, National and Kapodistrian University of Athens, Laiko General Hospital, Athens 157 72, Greece
2. Turku PET Centre, Turku, Finland

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

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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.

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 (UIBS), 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

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