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Effects and Modulatory Mechanisms of Dietary Flavonoids in Obesity

Guest Editors:

Dr. Katarzyna Kowalska

Department of Biotechnology
and Food Microbiology, Faculty
of Food Science and Nutrition,
Poznan University of Life
Sciences, 60-624 Poznan, Poland

Dr. Anna Olejnik

Department of Biotechnology
and Food Microbiology, Faculty
of Food Science and Nutrition,
Poznan University of Life
Sciences, 60-624 Poznan, Poland

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Message from the Guest Editors

The epidemic of obesity and accompanying metabolic complications is growing fast worldwide. Obesity is associated with adipose tissue hypertrophy, which refers to the increase in cellular lipid content, and hyperplasia, which depends on differentiation from preadipocytes. Hyperplasia takes place through adipogenesis and involves a cascade of transcriptional factors and cell cycle proteins, leading to the development of mature adipocytes. This process can be divided into three main phases: growth arrest, clonal expansion, and terminal differentiation. The inhibition of adipogenesis occurs when any of these stages are interrupted, which may serve as a potential therapeutic strategy against obesity. Dietary flavonoids have become the subject of increasing scientific interest due to their effects on adipogenesis. Flavonoids have been shown to regulate several pathways and affect a number of molecular targets during specific stages of adipocyte development.

The Special Issue will publish original research articles and reviews related to the effects of dietary flavonoids on adipocyte development, the mechanisms of action, and discussing their implications for human health.



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Special Issue



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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

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Nutrients Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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