

Special Issue

Role of the Extracellular Vesicles in Obesity and Related Diseases

Message from the Guest Editors

Extracellular vesicles (EVs) have arisen as a complex and very specialized mechanism for cell-to-cell crosstalk at the local (autocrine and paracrine signal) and distant level (endocrine system of communication). Nowadays, the role of EVs on cell communication relevant to the development of metabolic diseases is still poorly known. There is increasing evidence regarding the implication of circulating EVs in obesity-associated metabolic deregulation. Indeed, EVs shed by an hyperplasic adipose tissue have been demonstrated to be involved in adipocyte/macrophage crosstalk, and also to impact insulin signalling and gene expression in muscle and liver, contributing to the development of metabolic disturbances related to obesity. In addition, the synthesis and release of microRNAs loaded in EVs by adipocytes and activated macrophages found in obese fat depots make them attractive candidate biomarkers for obesity and associated diseases.

We invite researchers to contribute articles focusing on every aspect regarding the role and function of EVs shed by adipose tissue in healthy and pathological conditions including the onset and progression of obesity and its comorbidities.

Guest Editors

Dr. María Pardo Pérez

Instituto de Investigación Sanitaria de Santiago (IDIS)/Servizo Galego de Saúde (SERGAS)

Dr. Francisco Jose Ortega

Institut d'Investigació Biomèdica de Girona (IdIBGi)/ CIBEROBN and Instituto de Salud Carlos III (ISCIII)

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4052 Basel, Switzerland
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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