

Special Issue

Bile Acids and Bile Acid Modifications in Health and Disease

Message from the Guest Editor

The human gut microbiota produces a diverse array of metabolites, which are crucial for maintaining health and regulating metabolic pathways. Among these, bile acids are of particular interest due to their pivotal roles in regulating glucose and lipid metabolism, as well as energy expenditure. Recent advancements have revealed numerous previously unrecognized bile acids modifications, such as sulfation, epimerization, isomerization, or acylation, that exert important signaling functions affecting both gut microbiota and host health. This Special Issue provides a unique opportunity to contribute to an expanding field of research with significant potential for uncovering novel therapeutic targets and intervention strategies for metabolic disorders, including obesity, type 2 diabetes, and cardiovascular disease. By enhancing our understanding of how novel bile acids modulate metabolism, we aim to lay the groundwork for future studies and clinical applications.

Guest Editor

Dr. Francisco J. Osuna-Prieto

1. Institut d'Investigació Sanitària Pere Virgili (IISPV), Hospital Universitari Joan XXIII de Tarragona, 43005 Tarragona, Spain
2. CIBER de Diabetes y Enfermedades Metabólicas Asociadas (CIBERDEM)-Instituto de Salud Carlos III (ISCIII), 28029 Madrid, Spain

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Tel: +41 61 683 77 34
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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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