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Hormones and Metabolic Syndrome: Importance of Hormones in the Epidemiology, Physiopathology and Treatment of Metabolic Disorders

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Message from the Guest Editors

Metabolic disorders (MetDis) are a group of pathologies (central obesity, insulin resistance, dyslipidemia, hypertension, etc.) that cause alterations in normal metabolic processes. They are currently highly prevalent in the world. Scientific evidence has demonstrated sexual differences in the epidemiology, pathophysiology and clinical expression of metabolic syndrome and therefore in the treatment of MetDis. In addition, size and physiology of adipocytes, distribution of body fat, hormonal regulation of body weight and adiposity, regulation of blood pressure, glucose and lipid homeostasis and insulin sensitivity have been associated with sex differences.

This Special Issue will focus on original and review articles describing sex differences in MetDis, including the epidemiological and clinical data of MetDis, in silico studies for molecular targets involved in MetDis therapeutics, in vitro and in vivo studies focused on molecular/cellular mechanisms associated with MetDis, studies of natural products, synthetic compounds and repositioning of drugs for MetDis based on the multitarget strategy for treating MetDis.



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Special Issue



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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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