

Special Issue

Sex and Gender Medicine— Physiology: A New Horizon in Human Physiology

Message from the Guest Editor

The scientific literature has extensively documented how factors such as hormonal profiles, immune responses, enzymatic activity, and gene regulation can differ significantly between sexes. This Special Issue aims to examine the molecular, cellular, systemic mechanisms and more effective prevention and treatment strategies underlying the physiological differences observed between the sexes across, for example, the cardiovascular, respiratory, endocrine, immune, neurophysiological, gastrointestinal, and musculoskeletal systems. The topics to be explored include the following:

- The fundamental role of sexual hormones in the development and regulation of various biological systems;

- Sex-specific differences in gene regulation;

- Comparative neurophysiology;

- The impact of sex on responses to oxidative stress and inflammatory processes;

- The examination of the pathophysiology of chronic diseases through a sex and gender lens.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

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