

Special Issue

Omics Strategies in Male Reproduction

Message from the Guest Editors

Male infertility has become a social and civilization disease, and started to be a serious challenge for public health. Due to limited predictive value of standard semen analysis in assessing the ability of the sperm to fertilize the oocyte, highly specialized scientific and diagnostic tools are needed to look for new non-invasive seminal biomarkers of male infertility, both in natural and assisted reproduction. Molecular research in sperm biology and male infertility is a very dynamic field of science. Omics-based studies using high-throughput technologies offer great potential for understanding the regulatory mechanisms that drive gene and protein expression during sperm development, detecting gene-environment or host-pathogen interactions underlying normal and pathological spermatogenesis. The idea of the Special Issue is to advance the research on male infertility and the molecular background of spermatogenesis. Both original manuscripts and reviews discussing the genome, transcriptome, epigenome, proteome and metabolome data related to male factor fertility/infertility in humans and animal models are very welcome.

Guest Editors

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Deadline for manuscript submissions

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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.

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