



Omics Strategies in Male Reproduction

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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