

Special Issue

Molecular Mechanisms of Male Infertility

Message from the Guest Editors

Male infertility is a complex, multi-factorial disorder, and the underlying causes often remain unknown.

This research areas of this special issue may include (but are not limited to) the following:

- Endogenous and exogenous physical, chemical, and biological sources modify the genome of spermatozoa;

- Sperm chromatin and implications for male infertility;

- Molecular and structural basis of the histone-to-protamine exchange;

- Post-translational modifications on P1 and P2 protamines;

- DNA damage and DNA repair mechanisms in male infertility;

- Extrinsic factors such as smoking, cannabis,

- Redox signaling pathways in spermatozoa, which, in turn, may affect its physiological functions;

- Methylation and hyper- and hypo-methylation of specific DNA regions.

- miRNAs as biomarkers to understand the molecular mechanisms underlying male infertility;

- Molecular mechanisms of obesity and male infertility;

- Proteome studies of spermatozoa from fertile and infertile men.

Guest Editors

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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