

Special Issue

Trace Elements and Male Fertility

Message from the Guest Editors

Male fertility depends on many factors, such as genetics, personal habits, nutrition, and environmental conditions. Among these factors, an adequate intake of certain trace elements is necessary for normal spermatogenesis and essential for male reproductive efficiency. A deficiency of these elements causes sperm morphological and functional alterations, and hence, an impairment of sperm motility and maturation with worsening of semen quality.

Even if the involvement of trace elements in male fertility is widely recognized, further research is necessary to understand the precise molecular mechanisms underlying their role at all stages of sperm maturation, also in the view of novel pharmacological therapies. This Special Issue of IJMS intends to contribute to this field, collecting recent findings and review articles on:

- biochemistry and molecular biology of enzyme containing trace elements as cofactor and their relationships with male fertility;
- studies on the pathways related to trace elements and male fertility;
- physiological aspects of trace elements involvement in male fertility,
- novel clinical studies on trace elements and male fertility.

Guest Editors

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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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