



Trace Elements and Male Fertility

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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