

Special Issue

Physiology of Gametes and Fertilization

Message from the Guest Editors

In spite of all knowledge we have gained from research into mammalian fertilization and the physiological changes that the male gamete must undergo to be able to fertilize the egg, the actual sperm interaction with the egg, including binding and fusion, is still covered in a veil of mystery.

Sperm-egg membrane interaction and fusion is mediated by many molecular components. There are numerous molecules located on sperm and oocyte membranes that are part of key protein networks that differ in their protein composition.

This special issue is dedicated to the physiology of gametes and fertilization and aims to introduce the reader to new and original research targeting the molecular mechanisms involved in reproduction.

In order to understand the entirety of the fusion process involving the binding and fusion of mammalian gametes, new mechanisms that sperm and egg undergo during maturation as well as interactions between sperm and egg membrane proteins need further research.

Guest Editors

Dr. Katerina Komrskova

Dr. Pavla Postlerova

Dr. Michaela Frolikova

Deadline for manuscript submissions

closed (30 June 2021)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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