

Special Issue

Molecular Mechanisms of Sperm Activation

Message from the Guest Editor

This Special Issue will focus on the different aspects of sperm activation: initiation and activation of sperm motility, guidance of sperm swimming (including sperm chemotaxis), capacitation and hyperactivation, and induction of the acrosome reaction. It intends to create a platform for up-to-date high-quality publications on sperm activation during fertilization. Studies on the regulation mechanisms of sperm flagellar motility, the role of ion channels such as CatSper in sperm activation, the identification of molecules mediating sperm activation, etc., are welcome. We also welcome articles on applied research based on sperm activation, concerning, for example, livestock breeding, aquaculture technology, and male infertility. We hope that this Special Issue will provide a broad view of spermatology, from basic biology in marine invertebrates to reproductive medicine, fostering new research in reproductive biology areas.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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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