



Molecular Regulation of Spermatozoa

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Infertility is a common problem affecting many couples worldwide. A dynamic interplay between spermatozoa and a constantly changing environment is necessary to activate the underlying molecular events and signaling pathways which lead to the regulation of sperm functions. In fact, various signaling molecules, such as hormones, immune regulatory molecules, neurotransmitters, ions, proteins, growth factors, and free radicals are involved in the regulation of sperm functions, mainly through post-translational modifications of proteins. Therefore, the deregulation of those interactions can be behind male factor infertility.

For this Special Issue of "Biomedicines", we invite you to contribute either an original research article or a review article on the topic "Molecular Regulation of Spermatozoa." The scope includes in vitro and in vivo research on molecular mechanisms and signaling pathways that regulate spermatozoa function in physiological conditions, as well as under different special conditions, such as those causing male infertility or subfertility.

Dr. Najafi, Atefeh
Guest Editor





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Message from the Editor-in-Chief

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