# Special Issue

# Novel Insights into the Biology of Spermatozoa

# Message from the Guest Editors

Male infertility affects 7% of the global population. It is mandatory for the scientific community to identify new sperm biomarkers/pharmacological targets through a deep characterization of the molecular pathways involved in sperm functions (spermatogenesis. epididymal maturation, capacitation, hyperactivation, etc.) that are necessary for reaching and fertilizing the oocyte, as well as sperm dysfunctions (DNA fragmentation, oxidative stress, chromatin alterations, etc.) that compromise such processes. Thanks to the currently available high-throughput technologies coupled with bioinformatic analysis, genetic and epigenetic sperm modifications, proteins and their posttranslational modifications, and the metabolism and its products, the signaling pathways governing sperm functions can be deeply investigated. In addition, studying the relationship between spermatozoa and the genital tract microenvironment and its possible role in couple infertility also appears promising. Articles aimed at a multidisciplinary investigation of the different molecular aspects of sperm biology, through both in vivo and in vitro studies, are welcome.

#### **Guest Editors**

Dr. Elisabetta Baldi

Dr. Sara Marchiani

Dr. Lara Tamburrino

# Deadline for manuscript submissions

closed (31 October 2022)



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# Message from the Editor-in-Chief

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## **Editor-in-Chief**

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