

Special Issue

Factors Affecting In Vitro Assessment of Sperm Quality

Message from the Guest Editors

The study of the different in vitro sperm parameters is essential to evaluate sperm quality, to predict the fertilizing potential of semen samples and to detect male infertility. These aspects are important in the development of Assisted Reproduction Technologies (IVF, ICSI) in human, the application of artificial insemination in livestock species, the conservation of animal biodiversity and in the study of factors with possible effect on male fertility. The combination of different procedures of sperm evaluation, mainly flow cytometry and computer-assisted sperm analysis (CASA), as well as obtaining new knowledge about sperm parameters, could improve this predictive ability. Flow cytometry and CASA systems allow to objectively assess a high number of cells and parameters in a short period of time. This special issue will focus on the most used and advanced in vitro methodologies to evaluate sperm quality for its application in the preservation of seminal doses and the prediction of semen and male fertility in different animal groups, such as mammals, birds, fishes or insects.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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