

Special Issue

Advances in Spermatogenesis

Message from the Guest Editors

Spermatogenesis is a complex process that occurs in the testes and enables sperm production. This process begins from puberty and involves stem-cell proliferation; meiotic division, which results in haploid gametes; and spermiogenesis, through which highly polarized sperm is formed. The whole process is precisely regulated; genetic and epigenetic regulation are two fundamental mechanisms, and these work alongside many other factors such as steroid hormones, which play an essential role in spermatogenesis. Extensive studies have been carried out in order to understand spermatogenesis at the cellular and molecular level and promote advances in techniques such as single-cell multi-omics and organoid culture, which have opened new avenues for further deciphering the mechanisms of spermatogenesis. Fully understanding the regulatory mechanisms of spermatogenesis will not only aid in the identification of the genetic factors of male infertility, but also provide novel approaches for the treatment of the disease. The main aim of this Special Issue is to introduce novel findings regarding the regulation of spermatogenesis, particularly studies using state-of-the-art techniques.

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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