

Special Issue

Mammalian Gametogenesis, Fertilization and Early Embryogenesis

Message from the Guest Editor

Mammals produce their offspring through sexual reproduction. Thus, mammalian reproduction is vital for animal evolution, species existence, population growth, and animal health. This life course includes gametogenesis, fertilization, embryogenesis, and post-delivery care. Mammalian gametogenesis is a highly orchestrated process that generates genetically and epigenetically unique gametes. Mammalian fertilization is the union of a sperm and an egg in a species-specific manner that forms a single-cell embryo called a zygote. The zygote, remarkably, reprograms the gamete-specific genome and epigenome to begin embryogenesis for creating a new organism. The emergence of new technology and tools has recently significantly promoted our understanding of mammalian reproduction at the molecular, cellular, genetic, epigenetic, and genomic levels. For this Special Issue, we invite scientists and clinicians to contribute original research articles, clinical studies, reviews, and perspectives that underscore novel findings in the areas of spermatogenesis, oogenesis, sperm–egg interaction, and zygotic activation.

Guest Editor

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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