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Mammalian Gametogenesis, Fertilization and Early Embryogenesis

Guest Editor:

Prof. Dr. Guo-Zhang Zhu

Department of Biological
Sciences, Marshall University,
Huntington, WV 25701, USA

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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Guo-Zhang Zhu

Guest Editor



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Special Issue



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Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in
Biomedicine (IRB Barcelona), The
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and Technology, 08028
Barcelona, Spain

Message from the Editor-in-Chief

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Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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