

Special Issue

Molecular Genetics of Reproduction and Early Development

Message from the Guest Editors

Animal reproduction and development is the process by which animals produce offspring. This includes multiple cellular events such as folliculogenesis and oogenesis in females and spermatogenesis in males, fertilization, early embryo development, implantation, etc.

Understanding the molecular genetics of animal reproduction and development is an important contribution to the field. In this Special Issue, we focus on the study of the genetic mechanisms that regulate the processes of gametogenesis, fertilization, and embryonic and fetal development, which involves investigating the genes, proteins, and regulatory elements involved in these processes. Additionally, molecular clarification of the negative effects of the external environment (such as environmental contaminants) and microenvironment (such as aging and obesity) is also considered. The new insights in this field will lead to significant advances in our understanding of these complex processes and open up new avenues for improving reproductive health and preventing developmental disorders.

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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