Special Issue

Molecular Mechanisms of Embryogenesis in Mammal

Message from the Guest Editor

Development, a fascinating process that is exclusive to multicellular organisms, transforms a single cell—the fertilized oocyte—into a three-dimensional organism capable of reproduction.

In its early stage, development progresses through the formation of the embryo (embryogenesis), a period that spans from the fusion of the two gametes to the formation of primordia, which are embryonic structures that create adult organs.

This Special Issue of Genes will cover each and every process involved in mammalian embryogenesis: fertilization, blastula formation, gastrulation, and the organogenesis of different organs until the fetus emerges. Additionally, this Special Issue will also address the genetic and epigenetic mechanisms governing these processes, as well as their evolutionary significance. Understanding embryonic development is crucial not only for basic research but also for studying the origins of hereditary malformations, congenital diseases, and potential therapeutic interventions.

Guest Editor

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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?

Editor-in-Chief

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