

## Special Issue

# Genetic and Epigenetic Regulation of Placental Development and Disease

### Message from the Guest Editors

Precise regulation of placental gene expression at each stage of pregnancy is crucial for the successful establishment and maintenance of pregnancy.

Dysregulation of these gene regulatory mechanisms during pregnancy has been implicated in most pregnancy complications, which have enormous impacts on the life-long health of mothers and babies. However, the molecular underpinnings of placental developmental defects leading to such pregnancy complications are still poorly understood.

The goal of this Special Issue is to publish high-quality manuscripts with special emphasis on the genetic and epigenetic regulation of normal placental development and placental developmental defects leading to different pregnancy complications. We welcome reviews, new methods, short communications, and original articles covering all aspects of trophoblast development and differentiation and pregnancy diseases using culture models, clinical studies, and animal models. Priorities for publication will be given to studies related to the impact of DNA methylation, histone post-translational modifications, non-coding RNA (long non-coding RNA and microRNA), and epigenetic biomarkers for pregnancy diseases.

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### Guest Editors

Prof. Dr. Nihar R Nayak

Prof. Dr. Gary Sutkin

Dr. Sunil Jaiman

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### Deadline for manuscript submissions

closed (15 January 2022)

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## Genes

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
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