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## Role of Gametes' Genetics and Epigenetics in Reproduction

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Deadline for manuscript  
submissions:  
**closed (20 March 2022)**

### Message from the Guest Editors

We would like to invite you to participate in this Special Issue, “Role of Gametes’ Genetics and Epigenetics in Reproduction”.

The great advances in assisted reproduction techniques (ART) have improved both reproduction in farm animals such as pigs and cattle and also helped infertile human couples to conceive newborns. According to the latest European Society of Human Reproduction and Embryology (ESHRE) data, human ART are still far from being absolutely effective, showing an effectiveness of around 25–30% of initiated cycles. In animals, subfertile individuals still impair production, causing economic losses. Thus, there is a need to understand the causes of these impairments, in order to deliver more effective treatments.

As both gametes are responsible for providing not only genetic but also epigenetic markers to the embryo, their contribution is broader than initially thought. Therefore, new research in genetic and epigenetic biomarkers for individuals with higher fertility rates will be essential for leading the way to new personalized treatments.

We invite you to participate in this Special Issue.



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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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.

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