

Special Issue

Genetic Research in Human Reproduction

Message from the Guest Editors

Fertility rates have been falling steadily for decades globally and in almost all countries and regions, and they are likely to continue falling in the future. Factors such as ovulation failure, spermatogenesis failure, parental age, obesity, infection, and genetic variation contribute to this complex problem. Studies on genes associated with infertility in rodent models have expanded the scope of translational genetics, but the molecular basis of human infertility remains to be fully elucidated. Despite extensive research, no genes have been identified for genetic testing for infertility, so new diagnostic techniques need to be developed. Genetic association studies have been performed to identify the genes causing infertility, and increasing the sample size is critical in identifying strong associations. Although the interpretation of high-throughput sequencing data poses challenges, whole-exome and whole-genome sequencing offer potential solutions.

The purpose of this Special Issue is to provide a comprehensive overview of the recent genetic research in the field of human reproduction, highlighting the complexities and possible solutions in this rapidly evolving field.

Guest Editors

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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?

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