

## Special Issue

# Exploring the Molecular Mechanisms of the Microbiome in Reproductive Health and Reproductive Immunity

### Message from the Guest Editor

Human reproduction research is expanding and providing important data on the interactions between the microbiome and not only the female but also the male reproductive system. The reproductive microbiome has a major impact on male and female reproductive function and health. The effects of the microbiome on the physiological parameters of human reproduction are essential to fertilization and a successful outcome in a pregnancy. Vaginal bacteria can also affect pregnancy outcomes by affecting cell signaling or immune activation. Less attention has been paid to the male reproductive microbiome. However, male reproductive microorganisms, such as semen microorganisms, have an impact on host fertility and health. Microorganisms may not only play a role in sperm dysfunction but also affect female reproductive health through sexual transmission. The pathogenesis and immune mechanisms of HIV and sexually transmitted diseases (STDs) are also included in our focus.

This Special Issue of IJMS offers the opportunity for scientists to publish their research on the microbiome and immune system and other biomolecular data related to human reproduction.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 June 2025)



## International Journal of Molecular Sciences

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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