

## 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.

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### Guest Editor

Dr. Panagiotis Christopoulos

2nd Department of Obstetrics and Gynecology, Medical School,  
National and Kapodistrian University of Athens, 115 28 Athens, Greece

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### Deadline for manuscript submissions

closed (20 June 2025)



## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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Department of Physiology, Institute of Nutrition and Food Technology  
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