## **Special Issue**

# The Role of Reproductive Microbiota in Animal Fertility and Reproductive Health

#### Message from the Guest Editors

Recent advances in microbiome research highlight the crucial role of reproductive microbiota in fertility, reproductive health, and breeding programs. These microbial communities influence sperm quality, embryo development, and overall reproductive success. Understanding host-microbiota interactions can enhance reproduction, prevent diseases, and aid conservation. Microbial balance in male and female reproductive systems is vital for reproductive health. Additionally, microbiota from other organs, such as the gut and mammary glands, may indirectly impact reproduction through complex interactions. Incorporating microbiota-based strategies into assisted reproductive technologies and conservation efforts presents new opportunities for improving reproductive outcomes in domestic and wild animals. This Special Issue aims to deepen our understanding of reproductive microbiota's role in fertility and breeding. We hope to inspire further research and foster innovative microbiota-based interventions to enhance reproductive success across animal populations.

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