Special Issue

The Vaginal Microbiome in Health and Disease

Message from the Guest Editors

Vaginal microbe-related research explores the complex ecosystem of microorganisms residing in the vaginal tract and their impact on women's health. This field has gained significant attention due to the vital role the vaginal microbiota plays in protecting against infections, maintaining vaginal health, and its potential links to various gynecological and obstetric outcomes. The predominant bacteria in a healthy vaginal microbiome are Lactobacillus species, which produce lactic acid to maintain a low pH, creating an inhospitable environment for pathogenic bacteria. Disruptions in this balance, known as dysbiosis, can lead to conditions such as bacterial vaginosis, which is associated with increased risks of sexually transmitted infections, pelvic inflammatory disease, and adverse pregnancy outcomes like preterm birth. This Special Issue will focus on the latest research on the impact of vaginal flora on gynecological and obstetric conditions, exploring their pathogenesis and potential therapeutic approaches.

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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