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Urinary Microbiome and Genitourinary System Disorders

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Message from the Guest Editors

The urine microbiome is a newly introduced concept that has attracted the attention of medical researchers. Until recently, the urine of healthy individuals was assumed to be sterile. However, improvements in bacterial detection methods have debunked this assumption. Recent studies have shown that the bladder contains microbiomes that are not detectable under standard conditions. Analysis by 16S rRNA sequencing and expanded quantitative urine culture provided evidence for the presence of live bacteria in urine which were not detectable by standard culture protocols. The development of metagenomic sequencing revealed a unique urinary microbiota that was not detectable by standard culture protocols.

A deeper understanding of the urinary microbiome can help us to develop more efficient methods for restoring the microbiota to a healthy composition, and for providing symptom relief. Modification of the urinary microbiome without antibiotics use could be a possible venue for future research.



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Special Issue



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Message from the Editor-in-Chief

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