



## Microbiome in Urological Diseases

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### Message from the Guest Editor

The human microbiome project has investigated bacterial communities in various human organs. The urinary bladder was neglected in the human microbiome due to the old dogma that urine is sterile, but technological advancement verified the existence of urinary microbiota in recent studies.

Many studies have highlighted the beneficial role of microbiota in protecting against infection and boosting immune response. Although it is largely unclear how the urinary microbiome is related to urinary diseases, it has become a viral topic to investigate as studies discover the link between the two. There are still many unknowns regarding how urinary microbiomes are related to urologic diseases such as urological cancers, UTI, LUTS (lower urinary tract symptoms), OAB (overactive bladder), urinary incontinence, and IC/BPS (interstitial cystitis/bladder pain syndrome). Therefore, this Special Issue aims to help to identify the relationship between the urinary microbiome and urologic diseases.





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