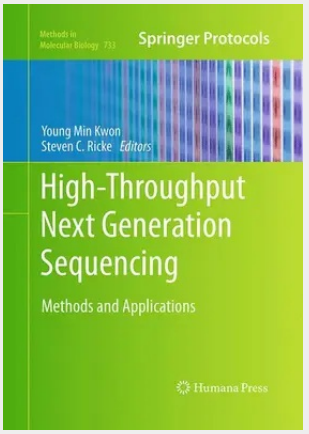
Kwon / Ricke

High-Throughput Next Generation Sequencing

Methods and Applications



Due to their novel concepts and extraordinary high-throughput sequencing capacity, the “next generation sequencing” methods allow scientists to grasp system-wide landscapes of the complex molecular events taking place in various biological systems, including microorganisms and microbial communities. These methods are now being recognized as essential tools for a more comprehensive and deeper understanding of the mechanisms underlying many biological processes. In *High-Throughput Next Generation Sequencing: Methods and Applications* , experts in the field explore the most recent advances in the applications of next generation sequencing technologies with an emphasis on microorganisms and their communities; however, the methods described in this book will also offer general applications relevant to the study of any living organisms. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls.

Comprehensive and cutting-edge, *High-Throughput Next Generation Sequencing: Methods and Applications* is an excellent collection of chapters to aid all scientists who wish to apply these innovative research tools to enhance their own pursuits in microbiology and also biology in general.

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