

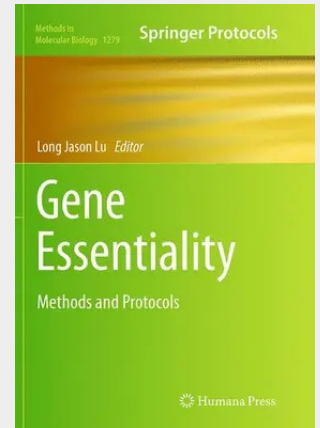
Gene Essentiality

Methods and Protocols

This volume opens by covering two main types of approaches widely used to determine essential genes: single-gene knockouts and transposon mutagenesis, in both prokaryotes and *Candida albicans*. Given the significant advancement in the computational predictions of microbial essential genes, the second half of the book examines four main types of approaches: comparative genomics, supervised machine learning, constraint-based methods, and corrections of transposon mutagenesis data, as well as databases and servers that are often used in studying gene essentiality. Written in the highly successful *Methods in Molecular Biology* series format, chapters include an introduction to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Authoritative and up-to-date, *Gene Essentiality: Methods and Protocols* will aid researchers who wish to further our knowledge in this vital field of study.

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