Bacterial Pangenomics: Methods and Protocols (Methods in Molecular Biology)

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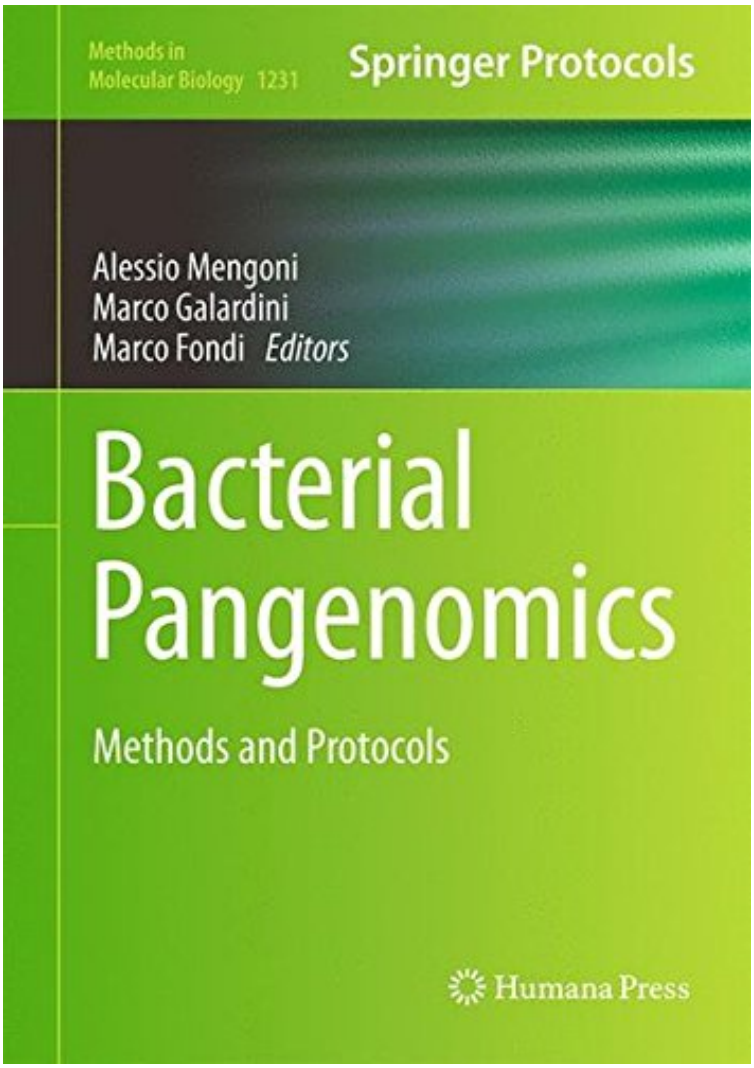

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Bacterial genomics is a mature research interdisciplinary field, which is approached by ecologists, geneticists,

bacteriologists, molecular biologists and evolutionary biologists working in medical, industrial and basic science. Thanks to the large diffusion of bacterial genome analysis, Bacterial Pangenomics: Methods and Protocols is able to provide the most recent methodologies about the study of bacterial pangenomes by covering the three major areas: the experimental methods for approaching bacterial pangenomics, the bio informatic pipelines for analysis and annotation of sequence data and finally the methods for inferring functional and evolutionary features from the pangenome. Written in the 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 protocols and notes on troubleshooting and avoiding known pitfalls.Authoritative and easily accessible, Bacterial Pangenomics: Methods and Protocols will serve as a field guide for both qualified bacterial genomics investigators who want to update their technical knowledge, for less experienced researchers who want to start working with bacterial genomics and pangenomics, as well as serving as a manual and supplemental textbook for graduate students of genomics and bioinformatics.

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