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Autor: Van Helden, Jacques / Toussaint, Ariane / Thieffry, Denis

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Network-based representations have become pervasive in most fields in biology. Bacterial Molecular Networks: Methods and Protocols provides authoritative descriptions of various experimental and computational methods enabling the characterization and analysis of molecular interaction networks, with a focus on bacteria. Divided into three convenient sections, this volume provides extensive coverage of various experimental and in silico approaches aiming at the characterization of network components, addresses the presentation of computational approaches to analyze the topology of molecular networks, and further introduces a variety of methods and tools enabling scientists to generate qualitative or quantitative dynamical models of molecular processes in bacteria. 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 protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and accessible, Bacterial Molecular Networks: Methods and Protocols is intended primarily for post-graduate students and researchers working in the field of experimental and computational microbiology and provides a combination of up-to-date reviews along with detailed protocols written by the developers of bioinformatics resources, such as databases and software tools