



# Computing for Comparative Microbial Genomics: Bioinformatics for Microbiologists (Computational Biology)

*David Wayne Ussery, Trudy M. Wassenaar, Stefano Borini*

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## **Computing for Comparative Microbial Genomics: Bioinformatics for Microbiologists (Computational Biology)** David Wayne Ussery, Trudy M. Wassenaar, Stefano Borini

**Overview and Goals** This book describes how to visualize and compare bacterial genomes. Sequencing technologies are becoming so inexpensive that soon going for a cup of coffee will be more expensive than sequencing a bacterial genome. Thus, there is a very real and pressing need for high-throughput computational methods to compare hundreds and thousands of bacterial genomes. It is a long road from molecular biology to systems biology, and in a sense this text can be thought of as a path bridging these fields. The goal of this book is to provide a coherent set of tools and a methodological framework for starting with raw DNA sequences and producing fully annotated genome sequences, and then using these to build up and test models about groups of interacting organisms within an environment or ecological niche.

**Organization and Features** The text is divided into four main parts: Introduction, Comparative Genomics, Transcriptomics and Proteomics, and Naturally Microbial Communities. The first five chapters are introductions of various sorts. Each of these chapters represents an introduction to a specific scientific field, to bring all readers up to the same basic level before proceeding on to the methods of comparing genomes. First, a brief overview of molecular biology and of the concept of sequences as biological information are given.

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