

Prokaryotic Genomics

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Prokaryotic Genomics provides molecular microbiologists in particular and researchers working with bacteria in general with the most important established recipes needed for their work. The volume covers both revisited classical methods and new tools for global analysis such as genomics or proteomics. It is written for those in need of a bench manual to complete their experiments and for those wanting to understand the modern tools used in microbiology.

Features:

- specific, step-by-step protocols for prokaryotic genomics and proteomics
- genome mapping and DNA fingerprinting of bacteria
- bacterial genetics, including methods to identify exchange and transfer genes
- expression measures, genetic footprinting and microbial two-hybrid assay
- protein purification with inteins
- protocols are accompanied by helpful notes and lab tricks
- alternative methods are provided and discussed
- tips for data interpretation and useful websites
- guide to protocols

Of interest to:

- researchers working in microbiology, molecular and cell biology, biotechnology, biochemistry
- biotechnology companies
- graduate and postgraduate students