

Table of Contents

- Genome Sequence Analysis
- Annotation of genomes
- From sequence to consequence: in silico hypothesis generation and testing
- The atlas visualisation of genome-wide information
- Construction Of Dna Microarrays
- Microarray design for bacterial genomes
- Glass slides microarrays for bacterial genomes
- Comparative Nucleic Acid Analysis
- Representational display analysis of Cdna and genome comparisons
- Application of DNA microarrays for comparative and evolutionary genomics
- Gene expression during host-pathogen interactions: approaches to bacterial mRNA extraction and labelling for microarray analysis
- High throughput in vivo screens: signature-tagged mutagenesis
- Further strategies for signature-tagged mutagenesis and the application of oligonucleotide microarrays for the quantitation of DNA-tagged strains
- Proteome Analysis
- Advances in bacterial proteome analysis
- Discovery of protein-protein interaction using two-hybrid systems
- Section V Applications Of Microbial Genomics
- Cloning the metagenome: Culture-independent access to the diversity and functions of the uncultivated microbial world
- Reverse vaccinology: from genome to vaccine
- Microbial genomics for antibiotic target discovery
- Case Studies - Bacteria
- Helicobacter pylori functional genomics
- Streptomyces coelicolor A3(2): from genome sequence to function
- Functional analysis of the Bacillus subtilis genome
- Section VII Case Studies - Parasites
- Plasmodium falciparum DNA microarrays and interpretation of data
- Functional analysis of the Plasmodium falciparum genome using transfection