

1. Record Nr.	UNINA9910784253903321
Titolo	Molecular biology of spirochetes [[electronic resource] /] / edited by Felipe C. Cabello, Dagmar Hulinska, and Henry P. Godfrey
Pubbl/distr/stampa	Amsterdam ; ; Washington, D.C., : IOS Press, c2006
ISBN	1-280-70480-2 9786610704804 1-4294-5525-X 1-60750-202-X 600-00-0490-7 1-4337-0122-7
Descrizione fisica	1 online resource (416 p.)
Collana	NATO science series. Series I, Life and behavioural sciences, , 1566-7693 ; ; v. 373
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Disciplina	579.3/2
Soggetti	Spirochetes Molecular microbiology Bacterial genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Proceedings of the NATO Advanced Research Workshop on Molecular Biology of Spirochetes, Prague, Czech Republic"--T.p. verso.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title page; Preface; Contents; Introductory Overview; Dissemination and Persistence are Pathogenic Events Common to All of the Major Human Spirochetal Infections; Molecular Genetics of Spirochetes; Transposon Mutagenesis of Infectious Borrelia burgdorferi B31: A Pilot Study; The Isolation and Characterization of Isogenic Mutants in Infectious Borrelia burgdorferi; Motility Gene Regulation and Chemotaxis in Borrelia burgdorferi; Targeted and Random Mutagenesis in Leptospira biflexa: Application for the Functional Analysis of Iron Transporters Antibiotic Resistance in Borrelia burgdorferi: Applications for Genetic Manipulation and Implications for EvolutionDevelopment of Treponeme Genetic Systems; Genomics and Diversity; Comparative Genomics of Borrelia burgdorferi; Treponema Genomics; Comparative Analysis of

Pathogenic *Leptospira* Genomes; *Leptospira interrogans*: Genomics and "Immunomics"; Genotypic Variation and *Borrelia burgdorferi* Pathogenesis; Multilocus Sequence Analysis (MLSA) as an Alternative to Whole DNA/DNA Hybridization (WDDH) in *Borrelia burgdorferi sensu lato* Taxonomy
Diversity and Variability of Protein-Encoding Genes of *Borrelia burgdorferi sensu lato* and Implications for Pathogenesis and Diagnosis of Lyme Borreliosis in Europe Are *Borrelia recurrentis* and *Borrelia duttonii* the Same Spirochaete?; Genotyping of *Borrelia burgdorferi sensu lato* in Russia; Ecological and Genetic Diversity Within the Leptospiraceae Family: Implications for Epidemiology; Characterization of *Borrelia burgdorferi sensu lato* from Czech Patients and Ticks by Culture and PCR-Sequence Analysis
Infection of Ixodid Ticks, Mosquitoes and Patients with *Borrelia*, *Bartonella*, *Rickettsia*, *Anaplasma*, *Ehrlichia* and *Babesia* in Western Siberia, Russia
Gene Expression; Genetic Studies of the *Borrelia burgdorferi* bmp Gene Family; Porins of *Borrelia*; Use of Green Fluorescent Protein Transcriptional Reporters to Study Differential Gene Expression by *Borrelia burgdorferi*; Regulation of Expression of the Integrin Ligand P66 in *Borrelia burgdorferi*; The Telomere Resolvase ResT and Evolution of the *Borrelia* Genomes; Hairpin Telomeres of Linear Bacterial Chromosomes and Plasmids: How to Make Them Interactions of Spirochetes and Hosts
Blood-Induced Transcriptional Changes in *Borrelia burgdorferi*; Roles of Leptospiral Outer Membrane Proteins in Pathogenesis and Immunity; Genetic Analysis of Attachment of *Borrelia burgdorferi* to Host Cells and Extracellular Matrix; *Borrelia burgdorferi* and *Ixodes scapularis*: Exploring the Pathogen-Vector Interface; The Lyme Disease Spirochete Erp Protein Family: Structure, Function and Regulation of Expression; Lyme Disease Spirochetes Evade Innate Immunity by Acquisition of Complement Regulators, Factor H, and FHL-1
Outer Surface Lipoproteins of *Borrelia burgdorferi*: Role in Virulence, Persistence of the Pathogen, and in Protection Against Lyme Disease

Sommario/riassunto

Diseases produced by spirochetes, including Lyme borreliosis, syphilis and leptospirosis, are on the rise worldwide. This volume focuses on a series of state-of-the-art presentations of the research taking place in the laboratories of the contributors, and serves as an introduction to those individuals entering in the field of spirochete research.