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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.
