



# Borrelia: Molecular Biology, Host Interaction and Pathogenesis

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**Borrelia: Molecular Biology, Host Interaction and Pathogenesis** From Caister Academic Press

The genus *Borrelia*, in the spirochete phylum, is not closely related to any other bacteria and has a highly unusual genome composed of a linear chromosome and multiple circular and linear plasmids that appear to be in a constant state of rearrangement, recombination, and deletion. The determination of the genome sequence of *Borrelia* strains has facilitated tremendous advances in understanding this genus at the molecular and cellular level, as well as the pathogenesis of Lyme disease and relapsing fever. In recent years, there has been an explosion of new insights into the molecular biology, genetics, physiology, and ecology of *Borrelia* and its tick/vertebrate life cycle. This research is of particular importance as the incidence of Lyme borreliosis continues to increase. Written by renowned scientists who have made seminal contributions to the field, this book is a comprehensive guide to the pathogenic *Borrelia*, providing researchers, advanced students, clinicians, and other professionals with an encyclopedic overview of the molecular biology of this important genus and the pathogenesis of diseases. Leading authorities have made contributions on topics such as *Borrelia* genomics, DNA replication, gene regulation, transcriptomics, proteomics, metabolism and physiology, cellular structure, motility and chemotaxis, genetic manipulation, evolutionary genetics, ecology, tick interactions, Lyme disease and relapsing fever pathogenesis, animal models, host response, detection, and vaccines. The volume is essential for anyone involved in *Borrelia* research and is strongly recommended for microbiologists, immunologists, and physicians involved in spirochete research, Lyme borreliosis, or relapsing fever. The book is a recommended reference volume for all microbiology libraries.

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### **Review**

...everything you need to know about these Spirochetes...this book is a fantastic source of information.... I truly enjoyed reading this book and would recommend it. --Olivier A E Sparagano, 2010, Parasites & Vectors 3:52

...an encyclopaedic account...contributed by experts....a fabulous resource for those in the field and full of surprises and insights for the outsider. --Charles Penn, 2010, Microbiology Today

... a comprehensive and multifaceted book....a deep view of the world of *Borrelia*....it is outstanding by virtue of its enormous information content ....The work is a must for the scientific library. --Reinhard Wallich, 2010, Biospektrum 16:715

...a clear-headed compendium of scientific knowledge....written by leading investigators....a landmark resource in the field of borreliac....a paragon for writing about a genus. --Paul G. Auwaerter, 2011, CID 52:965

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