

Special Issue

Ticks, *Borrelia burgdorferi* and Lyme Disease

Message from the Guest Editor

Lyme disease/Lyme borreliosis (LD) is a bacterial disease transmitted to humans by ticks, caused by a *B. burgdorferi* s.l. complex composed of several spirochete genospecies: *Borrelia burgdorferi sensu stricto*, *Borrelia afzelii*, *Borrelia garinii*, *Borrelia valaisiana*, *Borrelia lusitaniae*, *Borrelia spielmanii* and *Borrelia bissetti*. *B. burgdorferi* s.l. infection leads to a mixed, multi-system dysfunction, which may affect skin (erythema migrans (EM)), acrodermatitis chronica atropicans (ACA)), nervous system (neuroborreliosis (NB)), joints (Lyme arthritis (LA)), heart (Lyme carditis) or even eyes. The pathogenesis, different clinical presentations, diagnostic difficulties and treatment in endemic regions are still crucial issues in Lyme borreliosis endemic areas. This Special Issue will focus on research areas including but not limited to the following:

- Epidemiological aspects of Lyme borreliosis.
- Pathogenesis and diagnostics of Lyme borreliosis in humans.
- Infection in ticks with *Borrelia burgdorferi*.
- Approach to prevention and treatment of Lyme diseases.
- Development of novel therapeutic strategies against Lyme diseases and tick-borne co-infections.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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