



Lyme Disease: Companion Diagnostics and Precision Medicine

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Deadline for manuscript
submissions:

10 September 2021

Message from the Guest Editor

The latest report from the Centers for Disease Control and Prevention (CDC) states that 476,000 people are diagnosed with Lyme disease each year in the USA alone, and other studies show that as many as two-thirds of individuals infected with *B. burgdorferi* will fail conventional 40-year-old antibiotic therapy. Recent reports have highlighted the diversity and complexity of Lyme disease and related tick-borne coinfections, including *B. burgdorferi* and *relapsing fever Borrelia* species, *Babesia*, *Anaplasma*, *Ehrlichia*, *Bartonella*, *Rickettsia*, and *Powassan* virus. Consequently, improved companion diagnostic tests and novel treatment approaches for Lyme disease and related tick-borne coinfections are urgently needed to combat the pandemic. In particular, the principles of precision medicine using accurate diagnostic testing and effective “designer drug” treatment need to be applied to tick-borne diseases. This Special Issue of *Diagnostics* examines the use of Big Data registries, companion diagnostics, and precision medicine that will revolutionize the diagnosis and treatment of Lyme disease and related tick-borne coinfections in the coming years.





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