

## Special Issue

# Lyme Disease: Companion Diagnostics and Precision Medicine

### 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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### Guest Editor

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### Deadline for manuscript submissions

closed (31 January 2022)



## Diagnostics

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You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

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