

Mathematical model of Lyme disease caused by the bacterium *Borrelia burgdorferi*

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Session: 21. Mathematical models for biological invasion

Lyme disease is one of the most serious threats of the 21st century. The problem is that after infecting the body, the bacteria of *Borrelia burgdorferi* can mutate and become resistant to antibodies. The subject of the paper is some modification of Marchuk model taking into consideration the above mentioned fact.