

## **ABSTRACT**

The aim of this work is to point out the interconnectedness of human life with parasitic organisms, especially with the Castor bean tick (*Ixodes ricinus*). This tick forms an integral part of our rich invertebrate fauna and has become an increasingly frequent interest of media in the last few decades.

This thesis attempts to bring closer the relationship between tick and man from different perspectives, and to reveal essence as well as pitfalls of tick life. For many people, this arthropod represents an insurmountable resource of aversion and fear. Hence, an integral part of the thesis is the introduction of prevention methods and treatment of parasitic diseases transmitted by the tick, as well as monitoring of new trends in the therapy and development of vaccines. Also, the text offers a proposal how to bring the tick closer to the pupils in teaching Biology.

## **KEYWORDS**

The Castor bean tick, parasite-host relationship, life cycle, encephalitis, borreliosis, collection methods