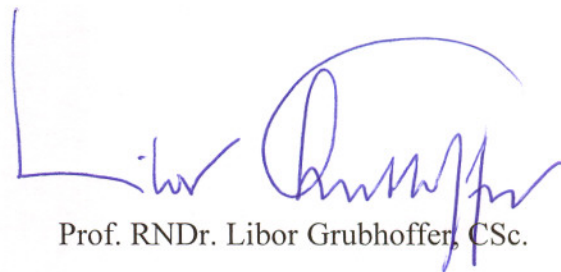


Supervisor's statement to the bachelor thesis of Mr. Martin Strnad

Mr. **Martin Strnad** worked out the bachelor thesis entitled '**Interaction of *Borrelia burgdorferi* spirochetes with the salivary glands of *Ixodes ricinus* and with tick cells *in vitro* observed by immunofluorescence microscopy**' within his study of cross-border curriculum of Biological Chemistry, a joint study field at the Johannes Kepler University in Linz and the University of South Bohemia in České Budějovice. I appreciated very much Martin's decision to approach the topic which falls into area of cellular biology, and gave him an opportunity to acquire demanding techniques of immunofluorescence imaging of borrelia spirochetes interacting/getting in touch with cells of the tick salivary glands as well as with cells of the tick cell lineages. Martin became very excited for his project, and took his research work really seriously with required responsibility. Over last summer when he had spent most time working on the bachelor project Martin became familiar with methods of tick cells as well as borrelia spirochetes cultivation *in vitro*; tick dissection and salivary glands preparations; immunostaining of cell samples and tissue preparations. Martin divided his project into two parts. Within the first one, he studied the effect of incubation of *B. burgdorferi* spirochetes with anti-OspA and anti-OspC antibodies on adherence to the tick cells. In the other part Martin focused on the ability of borrelia spirochetes to invade tick salivary glands with emphasis to treatment of tick salivary glands preparations with Triton X-100 and proteinase K to make them properly permeable. Martin was working hard on his project, and clearly proved that he is gifted for science and research work. Martin submitted the bachelor thesis of high quality regarding both the formal point of view as well as the content. He was able to collect appropriate data from available scientific literature resources, and discuss his own data with those of already published.

In conclusion, I would like clearly support Mr. Martin Strnad's bachelor thesis to its defence.

On the hilltop of Klet', June 12, 2010



Prof. RNDr. Libor Grubhoffer, CSc.