

Supervisor evaluation of bachelor thesis of Markéta Absolonová

**IRAM4: Partial characterization of a molecule similar to  $\alpha_2$ -macroglobulin from a tick *Ixodes ricinus***

The aim of the theses was to identify molecule of  $\alpha_2$ -macroglobulin protein family of *Ixodes ricinus*, IRAM4.  $\alpha_2$ -macroglobulins are part of innate immunity of vertebrates as well as invertebrate animals.  $\alpha_2$ -macroglobulins are protease inhibitors involved into inactivation of proteases secreted by invading pathogens.

In a period of three or four months Markéta determined partial sequence of  $\alpha_2$ -M, profiled expression, prepared recombinant protein from the part of molecule and obtained polyclonal antibodies used for Western blot analysis.

In this short time Markéta has learned basic methods of molecular biology such as RNA isolation, PCR, cloning and protein expression, Western blotting etc. Markéta successfully accomplish the project and obtained results can contribute to complement our knowledge of  $\alpha_2$ -macroglobulin proteins.

I would like to highlight the formal and graphic design of presented thesis as well as individual composing of this thesis.

I believe that the presented work meets the bachelor thesis requirements.

České Budějovice, June 15<sup>th</sup>, 2011

  
Lenka Grunclová