

**UNIVERZITA KARLOVA V PRAZE**  
**FARMACEUTICKÁ FAKULTA V HRADCI KRÁLOVÉ**  
Katedra biologických a lékařských věd  
Studijní program: farmacie

**Posudek vedoucího / školitele diplomové práce**

Autor práce: **Lukáš Dušek**

Vedoucí / školitel práce: Ing. Lucie Křivčíková

Konzultant: Dr. Vid Mlakar

Rok zadání: 2012

Rok obhajoby: 2014

Název práce:

**Identification of DNA sequence binding C/EBP and C/EBP $\beta$  proteins involved in RANKL expression**

---

**Slovní hodnocení, výrazné rysy autora práce:**

Práce byla provedena na katedře klinické biochemie farmaceutické fakulty univerzity v Ljublaně v rámci projektu Erasmus. Protože jsem jako vedoucí práce pouze kontrolovala formální stránky diplomové práce, pro objektivní zhodnocení byl požádán vedoucí práce v Ljublaně Asist. Vid Mlakar, B. Sc. microbial., Ph.D. Toto hodnocení je součástí tohoto posudku níže. Po formální stránce byl Lukáš Dušek velmi samostatný, na případné připomínky reagoval zodpovědně. Tato práce byla oceněna na XII. ročníku národní studentské vědecké konferenci 2013 komisí zástupců fakult prvním místem a komisí firmy Zentiva druhým místem v sekci biologické vědy.

**Celkové hodnocení: výborně, k obhajobě: doporučuji.**

V Hradci Králové dne 29. 5. 2014

.....  
Podpis vedoucí práce

**UNIVERSITY OF LJUBLJANA**  
**FACULTY OF PHARMACY**  
Department of Clinical Biochemistry  
Mentor evaluation of diploma thesis

Student: Lukaš Dušek

Mentor to the thesis: Asist. Vid Mlakar, B. Sc. microbial., Ph.D.

Title of thesis

**Identification of DNA sequence binding C/EBP and C/EBP $\beta$  proteins involved in RANKL expression**

---

The topic of the thesis was chosen from the list of topics of department

Work with literature was excellent

Language skills excellent

Student invention excellent

Student worked independently

Problems and issues were solved independently

Work in the lab was excellent

Results interpretation correct with no corrections

Processing of thesis was correct with no corrections

Graphical processing for the thesis excellent

Mentor comments to thesis and student approach:

Lukaš Dušek stayed on Faculty of Pharmacy (University of Ljubljana) for 6 month during the first semester of 2012/2013 school year. Lukaš came as an exchange student through ERASMUS exchange program in order to do practical laboratory work before preparation of his graduation thesis. During the stay Lukaš presented himself as a dedicated and motivated student with high desire to learn new knowledge and to obtain practical experience in laboratory. During his stay he made significant and well above average contribution to understanding of RANKL expression regulation. Although the subject was assigned to him without possibility to choose, Lukaš very quickly: identified himself with the project, understood the concepts and methodologies of molecular biology and produced his own solutions and ideas to solve timely problems as well as generate ideas for the future. By the end of his exchange he obtained throughout understanding and hands on experience of molecular cloning, site specific mutagenesis, sequencing, work with cell lines (bacterial, mammalian), transfection of cells and enzyme activity testing assays. Because of his divers and meticulous work it was of no surprise that he received the Zentiva Pharmaceutical Company 1<sup>st</sup> prize for student's scientific contribution and 2<sup>nd</sup> prize for student's industrial contribution. Important aspect of his professional upbringing was also the ability to communicate orally and in writing in English which he handled very well. On a personal note, Lukaš was very well accepted at the Department of Clinical Biochemistry due to his desire to excel that did not obscure his friendly, helpful and outgoing personality. Even though we did not have any demands or restrictions on working hour or schedule he showed great enthusiasm for work and self-organised himself in very efficient way. Due to the above stated reasons I fully support his graduation and recommend Lukaš to anyone looking for excellent worker and college.

**Evaluation of diploma thesis: excellent, to defence: recommended**

In Ljubljana, 15.5.2014

