

Téma diplomové práce	<b>Transport blokátorů iontových kanálů přes hematoencefalickou bariéru in vitro</b>
Jméno studenta, studentky	<b>Hana Leblochová</b>
Jméno vedoucího diplomové práce	<b>doc. RNDr. Veronika Opletalová, Ph.D.</b>

## I. Posudek vedoucího diplomové práce

Hana Leblochová vypracovala svoji diplomovou práci v rámci programu Erasmus na University of Vienna pod vedením o. Prof. Mag. Pharm. Dipl. Ing. Dr. Christiana R. Noe. Jeho hodnocení je uvedeno v příloze.

Navrhovaná klasifikace **výborně**

V Hradci Králové dne 25. 5. 2010

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Podpis vedoucího diplomové práce

o.Prof. Mag. pharm. Dipl.Ing. Dr. Christian R. Noe  
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Evaluation letter: Diploma thesis Hana Leblochova

Vienna, 24<sup>th</sup> of March 2010

Hana Leblochova worked in our blood-brain barrier research group from October 2009 to the end of January 2010 in order to achieve her master's thesis entitled „TRANSPORT OF ION CHANNEL BLOCKERS ACROSS THE BLOOD-BRAIN BARRIER *IN VITRO*“.

Within her work she has applied the following methods and techniques:

- cell culture work with blood-brain barrier cell line ECV304
- Drug transport studies with established Transwell *in vitro* models
- Sample preparation for RP-HPLC
- Development and adaption of HPLC methods for ion channel blockers
- Drug quantification by RP-HPLC and fluorimetry
- Calculation of permeability coefficients and data analysis

Hana Leblochova has been very ambitious to learn and understand the methods applied. During her stay she gathered a lot of practical experience, learned how to present data and do literature research. Due to her excellent work she was able to establish novel HPLC methods with pre-column derivatisation of some substances.

In the course of her research she has produced valuable data which could be the basis of a subsequent comprehensive research project. Additionally, she found out that the transport of the antiepileptic drug Phenobarbital can be influenced by the co-administration of peripheral Ca-channel blockers as Verapamil and Diltiazem.

Hana Leblochova is reliable, hard-working, ambitious to learn and understand, and an excellent teamworker. Additionally, she is highly interested and proved her abilities by extensive literature research to write a high-quality diploma thesis. We all enjoyed working together with her.

I wish her good luck and best success for her path of life and her occupational future.

Sincerely,

Yours



o.Prof. Mag. pharm. Dipl.Ing. Dr. Christian R. Noe