

Téma diplomové práce	Modulation of glutamate uptake from cultured astroglial cells: Role of P2 receptors
Jméno studenta, studentky	Lenka Honzová
Jméno oponenta	Doc. MUDr. Radomír Hrdina, CSc.

II. Posudek oponenta

The submitted diploma thesis (DT) of Ms Lenka Honzová was carried out at the University of Porto (Department of Pharmacology) under supervision of Prof. Gloria Queiroz and of internal supervision of Ass. Prof. Josef Herink. The work was supported of the EU Programme Socrates/Erasmus. The DT is of experimental type and is focused on topical theme - a role of various purinergic P2Y subtypes on neurotransmission of glutamate, namely its uptake by glial cells cultured from the rat brain. The importance of topic results from the fact that glutamate plays a significant role in synaptic plasticity and excitotoxicity.

The DT is written on 43 pages, 22 of them are devoted to introduction and literature search, it is illustrated by 4 tables and 5 figures. The list of references contains 57 recent publications. DT is written in good English with a minimum spelling errors, e.g., p. 10, line 7: crucial instead of crucial; p. 15, par. 3: Huntingdon disease instead of Huntington, p. 30, line 4: instead conjunction whereas incorrect whether is used.

Other formal errors:

p. 21, line 6: abbr. IP3 is not explained

p. 39 - references: are not uniformly cited, e.g., full versus abbreviated titles of journals (see ref. 1 and ref. 2, etc.)

Subject comments:

p. 23 : what strain of rats was used in experiments?

p. 29, Table 2: an effect of UDP on glutamate uptake is not shown

In spite of the above comments I appreciate a high quality of DT and I suggest its submission for defence.

Navrhovaná klasifikace **excellent**

V Hradci Králové dne May 23, 2008

Podpis oponenta diplomové práce