

Téma diplomové práce	The effect of acetylcholinesterase reactivators on the cholinesterases and cholinoreceptors
Jméno studenta, studentky	Lucie Brátová
Jméno oponenta	Mgr. Ondřej Soukup

II. Posudek oponenta

Diploma thesis (DT) of Lucie Brátová deals with the effect of oxime reactivators on the acetylcholinesterase and muscarinic receptors. The effect on the receptors was investigated in order to find other mechanism, not related to reactivation, that can contribute to the antidotal effect of the reactivator during the organophosphorus poisoning. The experimental part of DT was done at the Sahlgrenska Academy at Göteborg University in Sweden.

In the "Introduction" part of the DT is described very properly. Student describes autonomic nervous system, with closer attention to the cholinergic receptors, acetylcholinesterase and to all aspects related to the organophosphorus poisoning and its treatment.

The experimental part describes in-vitro and in-vivo technique used for the examination of cholinergic effect of the oxime reactivators

The whole DT is clearly written, with very few minor typographical errors. Used citations are recent. The author answer the questions which arised form the Aim of the work.

Comments:

1. The use of abbreviatitions is not uniform throughout the DT. List of abbreviations is available but I suggest to use the abbreviation at the abbreviated word ONLY for the first time of appearance in the text.
2. The format of graphs should be unifom in each part of Results

I have a 1 question for the author:

In the title of DT, cholinoreceptors are mentioned, but the work is done on muscarinic receptors only. Do you know any other cholinoreceptors and if we suppose a similar effect of oxime on them, how would it help in the organophosphorus poisoning?

Proposed work is fully corresponding with the rules for DT and therefore I am recommending it for the defence.

Předložená práce vyhovuje požadavkům kladeným na DP a proto ji doporučuji k obhajobě.

Navrhovaná klasifikace **Výborně-Excellent**

V Hradci Králové dne 30. 5. 2010

Podpis oponenta diplomové práce

