

UNIVERZITA KARLOVA V PRAZE
FARMACEUTICKÁ FAKULTA V HRADCI KRÁLOVÉ
Katedra farmaceutické chemie a kontroly léčiv

Studijní program: Farmacie

Posudek oponenta diplomové práce

Oponent/ka: **Doc. PharmDr. Miroslav Miletín, Ph.D.**

Rok obhajoby: 2015

Autor/ka práce: **Lioudakis Emmanouil**

Název práce:

Current trends in the development of steroidal hormone modulators

Rozsah práce: počet stran: 63, počet grafů: 0, počet obrázků: 3,

počet tabulek: 0, počet citací: 113

Práce je: rešeršní

- a) Cíl práce je: zcela splněn
- b) Jazyková a grafická úroveň: velmi dobrá
- c) Zpracování teoretické části: velmi dobré
- d) Popis metod: - rešeršní práce, nelze hodnotit
- e) Prezentace výsledků: - rešeršní práce, nelze hodnotit
- f) Diskuse, závěry: dobré
- g) Teoretický či praktický přínos práce: velmi dobrý

Případné poznámky k hodnocení:

Emmanouil Lioudakis performed literature search for recent trends in the development of drugs studied or already marketed as real or potential steroidal hormone modulators. The thesis consists of standard chapters. After short Introduction and outline of the Aim of study he has classified the drugs according to physiological function and type of receptors influenced. Separate drug groups are encompassed describing first the receptors types and consequently listing the corresponding drugs, of both agonists and antagonist or even mixed action. perhaps too amny abbreviatinons are used which makes the texts in some points les undestandable. At the end of Thesis very short Conclusions are placed. However, the Refence part is very comprehensive and well formally elaborated. Generally, the thesis is elaborated on a very good level even if with some formal shortcommings. The topic is highly actual and very interesting. The thesis corresponds in its extend and content to the task as well as to the convention in this type of qualification work.

Dotazy a připomínky:

I have following questions and comments:

Generally there are some (but few) language inaccuracies throughout the thesis, which do not require comments from author. Some examples:

p. 12, line 3, ...among instead of between estrogens,
some missing words,

p. 20, last paragraph missing n-letter,
p. 26, last line - once abundant risk,
p. 33, second paragraph,
etc.

p. 14: There is a double bond non-correctly drawn in the formula of clomiphene.
Generally to the topic of page 14: Can you show the formulas of isomers of the discussed drugs with assigning their agonistic and/or antagonistic activity?

p. 15 to 20: Some of the drugs described here seems not to be well classified according their structure. E.g. acolbifene is also more of benzopyrane than raloxifene-like structure. The benzopyranes are more similar to the tamoxifen than to the raloxifen considering their bond angles. The division in the Thesis follows some literature or it was designed by the author?

p. 24 to 26: Both steroid and azole aromatase inhibitors are irreversible?

p. 27, Androgens: By far not all physiological functions of androgens are listed, even not the main ones.

p. 45: Could you shortly summarize advantages and disadvantages of the steroidal aldosteron antagonists?

p. 46: There is no 2-methylchromenoyl substituent in the BR-4628 formula unlike of the text. What is correct?

Show the stereochemistry of the fadrozole, LC1699 in your Thesis defence presentation.

p.53. Mifepristone: Can the drug be used in pregnancy, provided the patient is monitored?

Despite of the above notes and comments the thesis fully complies with requirements for such type of work and I recommend it to defence.

Celkové hodnocení: velmi dobře, k obhajobě: doporučuji

V Hradci Králové dne 28.5. 2015

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podpis oponentky / oponenta