

Reviewer assessment

Author of thesis: Barbora Vrablíková

Title: Analysis of cancer drug combination using 3D mono- and co-cultures of colorectal cell lines

Type of thesis*: Master of Science

Evaluation criteria		Grades						
		A	B	C	D	E	F	Non-evaluable
1	Scope of thesis, chapters proportion	X						
2	Review quality (i.e. quality and accuracy, number of references used)	X						
3	Objectives achievement	X						
4	Accuracy and completeness of figures and tables legends (i.e. understandability, consistency, abbreviation explanation, correct using of units)	X						
5	Accuracy of references using (i.e. absence of references quoted in text and list of references, formal stylistic consistency)							
6	Accuracy of summary in Czech and English	X						
7	Graphic quality of text and figures		X					
8	Language and stylistic quality, using of valid/ standard terminology and nomenclature	X						
9	Choice of appropriate experimental methods	X						
10	Comprehensibility and conciseness of used methods description	X						
11	Quality of experimental data processing	X						
12	Results interpretation	X						
13	Discussion (results summary and its implementation in the context of current research/knowledge)	X						

Note1: if impossible to apply, use "non-evaluable"

Note2: mark with "X"

Note3: final grade is based only on evaluable (A-F) items

*- select "Bachelor" or "Master of Science"

Final Grade
(A-F)

A

Please, attach your comments and questions as well as reasons for your evaluation at the next page (pages)

Conclusion: thesis is recommended to defence

Olomouc , May 4, 2022



Signature: Professor Juan Bautista De Sanctis PhD

Comments on the thesis and questions

The thesis is well written, easy to follow and of importance in preclinical analysis of anticancer drugs. The objectives were clearly covered and the experimental design is well described. Only two minor details I encountered

- 1) The media used for transfection of HEK 293T/17 and for spheroid cultivation is missing. Please specify.
- 2) the legend of the figure should specify the statistical significance between the control and the treated cells comparing the monocultures with the cocultures.

I have three questions for the student

- 1.- What changes would you expect culturing monolayers and 3D co-cultures in hypoxic conditions.
- 2.- What changes in cell viability and morphology could occur if you decrease the serum concentration in the culture media from 10 % to 5 % ? Do you think that drug effects will increase in such conditions?