

Supervisor doctoral student assessment

Candidate: Patrícia Dias, MSc.

Supervisor: Prof. Přemysl Mladěnka, PharmDr., Ph.D.

I know Miss Dias since spring 2019, when she came to Hradec Králové for the first time. As she was recommended to me by two my close colleagues from University of Porto, Prof. Conceicao and Prof. Remiao, I had no doubts that she would be a very good candidate for a doctoral studies. Moreover, my expectations were not only fulfilled but also overcome as she was one of the best doctoral students which we have ever had in our laboratories. To characterize her in few words, I will use the following keywords: hard-working, reliable, precise, team-worker and kind. Since begin of her PhD studies in October 2019 in the studying program Pharmacy, studying field Pharmacology and Toxicology, she was involved in different project carried out in our research group, but she concentrated mostly on the area of vascular system where her investigation involved both mechanistic studies with isolated vessels, *in vivo* experiments with rats and most recently also patch-clamp method.

Currently, she is the author or co-author of 4 IF papers, where she is three times the first author (or to be more precise, 2 times as the first author and 1 as the shared first author). It should be also emphasized that two papers were published in very top journals (Chemosphere with IF 8.8 and Critical Reviews in Toxicology with IF 5.9). As she was offered an interesting postdoc position, she needed to defend her thesis by the end of this year, several papers are not yet accepted. At the moment, there are other 4 papers, where she is the first author in three cases, which were submitted or are very closely before submission to quality IF journals.

During her study, she passed very successfully all necessary exams including the state exam from Pharmacology. She also presented her research at 5 conferences (four times as an oral presentation and once as a poster communication). She was also awarded by a grant from the Charles University grant agency entitled ARTERIAL BLOOD PRESSURE DECREASING EFFECTS OF SMALL PHENOLIC METABOLITES OF FLAVONOIDS: MECHANISTIC EX VIVO AND IN VIVO STUDY, which brought her and

our team 770 thousand CZK. She participated on the solution of the ongoing grant of the Czech Health Research Council (CARDIOVASCULAR EFFECTS OF FLAVONOID METABOLITES AND THE IMPACT OF METABOLIC RISK FACTORS) and recently finished European project OPEN ACCESS EDUCATIONAL MATERIALS ON NATURALLY OCCURRING MOLECULES - SOURCES, BIOLOGICAL ACTIVITY AND USE. She also carried out mentorship for several foreign and Czech doctoral and Master students, and for preparation of one rigorous thesis.

She spent a very quality research fellowship in the laboratory of Assoc. Prof. Przemysław Radwański at the Dorothy M. Davis Heart and Lung Research Institute (Columbus, Ohio) from March to October, 2023.

As a conclusion, I would like to emphasize my very positive evaluation of the candidate. From my point of view, obtaining of the Ph.D. title for her is highly deserved. Her work is not only above-average concerning the number of quality publications, but also brought very novel findings which can be used by other researchers and hence the benefit for our research group and the faculty is undisputable.

V Hradci Králové, December 13, 2023

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Prof. Přemysl Mladěnka, Pharm.D., Ph.D.