

Supervisor doctoral student assessment

Candidate: Thomas Migkos, MSc.

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

I met Thomas Migkos during teaching Pharmacology at our faculty for the first time in his third year of Master studies. Already at that time, I noticed his huge interest in pharmacology which resulted in his acceptance for diploma thesis in our group. He successfully defended his thesis entitled “The effects of flavonoids on vascular smooth muscles” under my supervision in 2014. After graduation in the same year, he needed to undergo military service in his homeland Greece. In 2015, he started his PGS studies under my supervision and co-supervision of Dr. Pourová in the studying program Pharmacy, studying field Pharmacology and Toxicology. His investigations were a direct continuation of his Master thesis.

Thomas Migkos is a very skillful student, deeply considering different aspects of his research and self-dependently bringing novel investigation ideas. He fitted well in our team due to his friendly and sociable nature. The only complains on him were always related to time aspects, which is likely based on his homeland’s customs.

He successfully passed all exams and used the time of his doctoral studies for both research at our faculty as well as for two foreign fellowships at two prestigious workplaces – The university of Strasbourg (5 months, 2018) and The university of Sydney (4 months, 2019/2020). The first fellowship extended his knowledge in the area of vascular pharmacology and helped him to finish his first paper which he published in *Planta Medica* and is also the base of his dissertation thesis. During the second fellowship he learned and standardized novel experiments in relation to calcium intracellular signalling. The paper in collaboration with his supervisor Prof. Des Richardson is still under preparation. After coming back from the second fellowship and a short period in the Czech Republic, he returned back to Greece in 2020. Due to several reasons including COVID, he finished his dissertation at the latest term in autumn 2023.

During his studies, he was also awarded by a grant from the Grant agency of the Charles university with the name FLAVONOID METABOLITES, THEIR INTERACTION WITH TRANSITION METALS AND PHARMACOKINETICS. The results obtained within this grant were evaluated by the grant agency as exceptionally good. A poster entitled "Antihypertensive effects of quercetin metabolites" where he was a co-author was awarded by a prize at 11th World Congress on Polyphenols Applications congress in Vienna (June 2017). That poster received the only poster prize among 108 posters.

Currently, he is the author or co-author of 6 IF papers, where he is two times the first author. Two of the journals, where he published his papers, are top journal in the area of his dissertation (Journal of Vascular Pharmacology, Phytomedicine). In addition, he presented his results in 8 congress, 5 times in the form of a poster and 3 as oral presentations. He also helped Assoc. Prof. Pourová with supervision of experimental diploma theses.

As a conclusion, I would like to emphasize my positive evaluation of the candidate. His work brought novel findings, which are apparently of interest for other researches worldwide (without self-citations, his H-index is 5 and number of citation > 100). From my point of view, obtaining of the Ph.D. title is deserved in his case.

In Hradec Králové, December 13, 2023

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