

**Supervisors opinion to the dissertation of Mgr. Aleksandra Kapuscik
“Cytotoxic secondary metabolites of freshwater cyanobacteria“**

**University of South Bohemia, České Budějovice
Faculty of Biology**

Aleksandra came to our laboratory with deep experience in organic chemistry and purification processes but little in the field of isolation and characterization of secondary metabolites from algae and cyanobacteria. She quickly learned the scope, involved in the work of our group and became a very beneficial her member. With time she quickly adopted all the new techniques and knowledge and use it for her topic of work. Since her entrance into our laboratory, Alexandra has personified the fine character, strong diligence in working and learning. All these positive personal qualities allow her to obtain all necessary exams during her PhD study on time with excellent results. In the past PhD years, she also has kindly taken part in many undergraduate courses, such as Schola Ludus projects as junior lecturer. I have been deeply impressed by her versatility and capability to organize work time and her sense of participation in laboratory activities. Her dedication and efforts during her stay have been excellent in all respects, demonstrating her great interest and good ability for team work.

I particularly have to stress that during her PhD studies she carried out a lot of work belonging to a research project BIOPHARM. As a part of her internship in Fachhochschule IMC Krems, she worked on anti-inflammatory cyanobacterial peptides, developing and applying several new screening methods.

In her PhD thesis Aleksandra clearly demonstrated the ability of independent scientific work and manage a wide range of techniques starting from microalgal biology, light and fluorescence microscopy, bioassay screening on various cell lines, but she also worked with other sophisticated instrumental analytical techniques such as UV-VIS spectrometry, high performance liquid chromatography (HPLC), preparative HPLC and ion trap mass spectrometry (IT-MS).

Not only as her supervisor but also as the head of the Algal Biotechnology Laboratory of the Department of Phototrophic Microorganisms, Institute of Microbiology in Třeboň, I can consider Aleksandra as one of the best PhD students in our laboratory.

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