

Masarykova univerzita

Fakulta

Obor řízení

Uchazeč

Pracoviště uchazeče

Složení komise

Předseda

Členové

Přírodovědecká fakulta

Biochemie

doc. Mgr. Marek Petřivalský, Ph.D.

Univerzita Palackého v Olomouci

prof. RNDr. Zdeněk Glatz, CSc.

Přírodovědecká fakulta, Masarykova univerzita

Prof. Francisco J Corpas

Spanish National Research Council, Madrid, Spain

prof. RNDr. Jiří Fajkus, CSc.

Přírodovědecká fakulta, Masarykova univerzita

prof. RNDr. Bořivoj Klejdus, Ph.D.

Mendelova univerzita v Brně

prof. Ing. Ivan Mikšík, DrSc.

Fyziologický ústav AV ČR

Hodnocení vědecké / umělecké kvalifikace uchazeče

Marek Petřivalský, Ph.D. completed his Mgr. studies of Biochemistry at the Faculty of Science, Masaryk University, graduating in 1992 with the subject of his Thesis being "The study of proline accumulation in response to water deficit on the model system of leaf discs". He completed his PhD study of Ecology at the same institution in 1995, with the subject of the Thesis: "The influence of xenobiotics, immunoadjuvants and stress factors to the level of detoxification enzymes".

After finishing Citizen Civil Service, he began his career at the Department of Biochemistry, Faculty of Science, Palacký University, first as a Research Scientist and Teaching Assistant and finally as an Associate Professor with the habilitation Thesis "Reactive oxygen and nitrogen species in plant development and stress responses", the defence taking place at his home institution in 2013.

As may be seen from the subject of the habilitation Thesis, the affiliation with the Palacký University also initiated his new scientific orientation on plant biochemistry, especially on plant infections, in particular those relating to reactive oxygen species and nitric oxide in these processes. He assisted in forming a new research school in this progressive discipline which well-recognized in the Czech Republic as well as abroad. He has published over 60 papers, most of them in excellent journals and 3 book chapters covering this field (546 citations without auto-citations) besides having many oral and poster presentations at a number of international conferences, being almost in half cases the first author. He also organised an international conference taking place in Olomouc focusing on the topic of nitric oxide in plants, which was well attended with a positive assessment on the part of its participants. In addition to this, he participates in the organisation committee of the "NO club", a group of nitric oxide scientists from across Europe, recently spreading even further with a member from India, who gather biennially to discuss progress in the field.

He spent a 3 long term (3 – 6 months) stays - Laboratory of Plant Physiology, University, Rennes, France; Institute of Environmental Sciences, Complutense University, Madrid, Spain; and Institute of Biomedical Investigations, University of Barcelona, Spain; and a 5 short term (up to one months) stays - Department of Plant physiology, Autonomy University of Barcelona, Spain; Unit of Plant Physiology and Biochemistry, Department of Biochemistry, University of Jaen, Spain; Institute of Biological Sciences, University Mar del Plata, Argentina; Department of Biochemistry, University of Amherst Massachusetts, USA and School of Doctoral Studies, University of Barcelona, Spain; that represent the most recognised institutions in the field of plant biochemistry in the world. Many scientific collaborations developed on their basis.

He was/is also a principal investigator of many grant projects supported by the Czech Science Foundation, Ministry of Education, Youth and Sport and by the internal grant agency of Palacký University.

Závěr: Vědecká / umělecká kvalifikace uchazeče **odpovídá** požadavkům standardně kladeným na uchazeče v rámci řízení na jmenování profesorem v oboru Biochemie.

Hodnocení pedagogické způsobilosti uchazeče

Marek Petřivalský, Ph.D. is involved in all regular teaching activities at his home department – Lectures (Bioenergetics, Biotechnology, Molecular Gastronomy); Class exercises and laboratory courses (Practicals in Biochemistry, Experimental Methods in Biochemistry, Experimental Methods in Studies of Plant Defence Responses); and Seminars (Biochemical Information, Communication in Science and Research) for

Bachelor's, Master's, and Doctoral studies, many of which he introduced himself as well as providing corresponding textbooks. His pedagogical work has very positive ranking among the Palacký University's students. He is also involved in the University of the Third Age programme, Faculty of Science, Palacký University. Furthermore, he is a member of many state examination boards covering all types of studies.

He has supervised 20 (4 in progress) Bachelor's and 19 (4 in progress) Master's theses. Besides that, he was also a supervisor and co-supervisor of 4 PhD Thesis which were successfully defended, with 5 more PhD studies which are in progress and their defences are expected to take place in 2018 - 2019.

Závěr: Pedagogická způsobilost uchazeče **odpovídá** požadavkům standardně kladeným na uchazeče v rámci řízení na jmenování profesorem v oboru Biochemie.

Hodnocení uchazeče jako význačné a uznávané vědecké / umělecké osobnosti v daném oboru

Marek Petřivalský, Ph.D. has an international reputation within the field of plant Biochemistry to which he has contributed significantly and has succeeded in further broadening the good scientific reputation of the Department of Biochemistry, Faculty of Science, Palacký University in Olomouc. The subject, which was introduced to a large degree by himself, has a great impact both on basic and applied research, being beneficial especially for the domain of agriculture.

On the basis of all above mentioned facts, the committee is recommending Marek Petřivalský, Ph.D. for the Position of Professor

Závěr: Uchazeč je význačnou a uznávanou vědeckou osobností v daném oboru. Významně se **zasluhuje** o profilování a rozvoj tohoto oboru. **Představuje** jednu z vůdčích osobností vědecké školy nebo výzkumného týmu v oboru.

Výsledek tajného hlasování komise

Hlasování se uskutečnilo: elektronicky

Počet členů komise		5
Počet odevzdaných hlasů		5
z toho	kladných	5
	záporných	0

Návrh komise

Na základě výsledku tajného hlasování následujícího po zhodnocení vědecké / umělecké kvalifikace, pedagogické způsobilosti a profilu uchazeče jako význačné a uznávané vědecké osobnosti předkládá komise Vědecké radě Přírodovědecké fakulty Masarykovy univerzity návrh **jmenovat uchazeče profesorem** v oboru Biochemie.

V Brně dne 26.09.2019

prof. RNDr. Zdeněk Glatz, CSc