



Stanovisko hodnotící komise k návrhu na jmenování profesorem

Masarykova univerzita

Fakulta

Obor řízení

Uchazeč

Pracoviště uchazeče

Složení komise

Předseda

Členové

Přírodovědecká fakulta

Mikrobiologie

Ivo Sedláček

Přírodovědecká fakulta, Masarykova univerzita

prof. RNDr. Jiří Doškař, CSc.

Přírodovědecká fakulta, Masarykova univerzita

prof. RNDr. Zdeněk Hubálek, DrSc.

Přírodovědecká fakulta, Masarykova univerzita

prof. MUDr. Milan Kolář, Ph.D.

LF UP Olomouc

prof. MVDr. Alois Čížek, CSc.

VFU Brno

prof. Dr. Erko Stackebrandt

Leibniz Institut DSMZ

Hodnocení vědecké / umělecké kvalifikace uchazeče

Dr. Ivo Sedláček graduated from General Biology in the field Microbiology at the Faculty of Science, Masaryk University in 1983. At the same faculty he successfully defended the rigorous (RNDr. 1984) and doctoral (CSc.1994) dissertation theses, and in 2009 he has been habilitated (appointed to associate professor) at the Faculty of Medicine, Masaryk University in the field of Medical microbiology.

From 1983 to 1987 he was employed at the Research Institute of Pure Chemicals, Lachema Brno as a research worker, where he participated in the development of diagnostic tests for the identification of bacteria.

Since 1988 he works at the Czech Collection of Microorganisms (CCM) at the Faculty of Science, Masaryk University, where he acts as a head since 1992. It is necessary to say that under his leadership, the CCM became a globally respected collection focused not only on the maintenance of microorganisms, but also performing a vast research that enables refining the classification of new isolates which is important mainly for the characterization of new pathogens.

In his research he focuses on the molecular taxonomy of microorganisms, where he uses and develops biotyping and genotyping methods and polyphasic identification. He also deals with the optimization of techniques for long-term cryopreservation of microbial cultures. As first author, corresponding author or co-author of 138 publications (96 with IF; h-index 19, 1058 quotations - without self-citations). He is also author of one chapter in a scholarly book.

Dr. Sedláček described 49 new bacterial species and subspecies of different taxa from clinical material and environment. In recent years, he has focused on micro-organisms from Antarctica, where he conducts comprehensive research on psychrophilic bacteria, bacteriophages and fungi.

Dr. Ivo Sedláček participated as principal investigator or co-principal investigator in 22 grant projects, one Research project, one Research Centre and three projects Operational Programme Education for Competitiveness. Above mentioned projects were focused on the application of bacteria in biomedicine, development of probiotics and new methods for identification and characterization of microorganisms from various environment including both human and veterinary pathogens. He was a supervisor of a project of international importance where a database of bacterial type strains ribotype profiles was constructed. Dr. Sedláček was also the principal investigator of six projects covered by the Ministry of Education, Youth and Sports that were focused on innovation of modern methods of chemotaxonomy and molecular biology in teaching courses.

Dr. Sedláček attended several study visits in different European research institutions or universities, e.g. in 1989 in DSMZ, Germany and Public Health Institute, U.K. (WFCC Curator's Training Scheme), in 1991 in Statens Serum Institut, Denmark (FEMS Fellowship), in 1993 and 1995 another long-term stay in Statens Serum Institut (EU program Go West Fellowship), in 2006 in Comenius University, Slovakia and in 2008 a stay in University of Vienna, Austria (both university exchange stay).

Conclusion: The applicant's scholarly capabilities *meet* the requirements expected of applicants participating in a professor appointment procedure in the field of Microbiology.

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

Hodnocení pedagogické způsobilosti uchazeče



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Since 1994 Dr. Sedláček has been teaching lectures and practical exercises in the subjects of Taxonomy of Microorganisms, Taxonomy of Prokaryotes and Medical Microbiology for the students of Masaryk University in the study programmes Microbiology, General biology, and Medical genetics and molecular diagnostics.

He supervised 1 bachelor's and 13 Master's thesis and 6 Ph.D. candidates, 5 of which already successfully defended their dissertations. All these postgraduate students received good positions as microbiologists in research or academic laboratories..

Since 1996 Dr. Sedláček is a member of state examination boards for bachelor's and master's study in the field Microbiology, and since 2009 he is a chairman in doctoral committees of Ph.D. degree programmes in the same field.

Dr. Sedláček is an author of the textbook Taxonomy of prokaryotes (pp. 220, MU Brno 2007, in Czech). He also prepared a set of education materials (e-learning materials) for the courses Taxonomy of prokaryotes (lecture and practice) and with his colleague P. Švec education materials for the course The taxonomy of pathogenic bacteria.

He is also regularly involved in popularization activities. He presented his scientific work and new trends with novel approaches for identification of microorganisms in several radio programs and popular science texts and lectured on methods of long-term preservation at microbiological workshops.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Microbiology.

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

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

Based on the above presented data, the committee concludes that Dr. Sedláček is one of the leading experts in microbiology, especially in application and development of new approaches in bacterial taxonomy and in the field of long-term maintenance of microorganisms.

Dr. Sedláček was a committee member of many national and international conferences and workshops focused on modern trends in identification of bacteria and maintenance of microorganisms. In last years he is very enthusiastic about microbiome research of Antarctic environment.

He is a member of editorial board of several journals and a member of scientific societies. For two electoral terms he was the chairman of General biology branch in Czech and Slovak Society for Microbiology and since 2013 he is member of the main board of this society.

In the field of classification and identification of bacteria Dr. Sedláček has close collaboration with many leading national (e.g. Czech Academy of Science, Public Health Institute) as well as international institutions (e.g. Veterinary University of Vienna, DSMZ Leibniz Institut in Branschweig, LMG Ghent University, and CCUG University of Goteborg)

Dr. Sedláček was awarded Annual award from managing director of Department of Experimental Biology for scientific experiences as well as fruitful management of Czech Collection of Microorganisms. He also received an award Golden Staphylococcus from National Reference Laboratory for Staphylococci, Public Health Institute, Prague in appreciation for long-term cooperation in the field of staphylococcal taxonomy.

Conclusion: The applicant **is** a respected and recognized scholarly figure in his field. The applicant **has** made a significant contribution to the development of his field. The applicant **constitutes** a leading figure in his field of scholarship or research.

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.



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Výsledek tajného hlasování komise

Hlasování se uskutečnilo: prezenčně
 elektronicky

Počet členů komise		5
Počet odevzdaných hlasů		4
z toho	kladných	4
	záporných	0

Návrh komise

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

jmenovat uchazeče profesorem v oboru Mikrobiologie na zastavení řízení.

V Brně dne 3.9.2018

jméno a