

Masaryk University	
Faculty	Faculty of Medicine
Procedure field	Surgery
Applicant	MUDr. Michal Fedorko, Ph.D.
Applicant's home unit, institution	Faculty of Medicine, Masaryk University
Habilitation thesis	Possibilities of diagnosis and prognosis of renal cell carcinoma using novel biomarkers
<u>Board members</u>	
Chair	prof. MUDr. Zdeněk Kala, CSc. <i>Faculty of Medicine, Masaryk University</i>
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	prof. MUDr. Vladimír Študent, Ph.D. <i>Urologická klinika LF UP a FN Olomouc</i>

Evaluation of the applicant's scholarly/artistic qualifications

In 2004, dr. Fedorko graduated from the Faculty of Medicine, Pavol Jozef Šafárik University, Košice, Slovakia. After graduation, he started working at the Department of Urology, Hospital Kyjov. In 2009 he completed his specialization training in Urology and in 2010, he passed the European Board of Urology examination and was conferred the title FEBU. Since 2011, he has been working at Department of Urology, University Hospital Brno and Faculty of Medicine, Masaryk University Brno. He has been named the department head in 2020. Since his early academic career, the scientific work of dr. Fedorko has been focused on the basic research of renal cell carcinoma, particularly the search for possible biomarkers for diagnosis and follow-up of the disease. The results of the research conducted in close collaboration with the Central European Institute of Technology and Department of Biology, Masaryk University Brno, significantly contributed to the improvement of knowledge in the field of non-coding RNAs and their involvement in the pathogenesis of renal cancer. In 2017, dr. Fedorko defended the doctoral thesis „Non-invasive biomarkers of renal cancer as a possible tool for screening and early detection“. He is the member of Ondřej Slabý Research Group at CEITEC, MU Brno and a co-investigator of one project of the Czech Health Research Council of the Ministry of Health of the Czech Republic. To date, dr. Fedorko is the author of 31 full-text peer-reviewed scholarly journal articles (23 as the first or corresponding author), of which 13 are in a journal with IF (in 8 of these, dr. Fedorko is the first or corresponding author). The total number of citations (according to WoS, without self-citations) is 312. His H-index is 9. The sum of publications and citations exceeds the recommended habilitation standards of Faculty of Medicine, MU Brno. Dr. Fedorko is an active member of the Czech Urological Society and European Association of Urology, the member of Expert Advisory Body of Evaluators, Government Office of the Czech Republic, the associate member of Examination Committee, European Board of Urology (EBU) and the member of Examination Committee for Specialization Exams in Urology, Ministry of Health of the Czech Republic. He has been a regular active participant in annual meetings of the Czech and Slovak Urological Societies and participates in educational activities of the Czech Urological Society. The main clinical interest of dr. Fedorko is oncology. He is the chairman of Indication Committee for Urological Malignancies, University Hospital Brno and the member of Consultation Group for Oncological Care, University Hospital Brno and Multidisciplinary committee for Urological Tumors, Masaryk Memorial Cancer Institute, Brno.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Surgery.

Evaluation of the applicant's pedagogical experience

Since 2013, as an assistant professor, dr. Fedorko has participated in regular teaching of pregraduate students within the master's degree programme in general medicine at the Faculty of Medicine, Masaryk University in Brno, both in Czech and English language. He is the author of the textbook „Selected chapters in adult urology“, four book chapters and one educational text. Regarding doctoral studies, dr. Fedorko is a supervisor of one doctoral students and a consultant of another one. He is the member of state examination board in surgery, Faculty of Medicine, MU Brno and doctoral board in urology, Faculty of Medicine and Dentistry, Palacký University Olomouc. Dr. Fedorko regularly participates in organization of postgradual and continuous medical education seminars and courses for residents and qualified urologists within the region. He lectures at the National Centre for Nursing and Non-medical Health Professions.

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

Habilitation thesis evaluation

The applicant submitted a habilitation thesis entitled „Possibilities of diagnosis and prognosis of renal cell carcinoma using novel biomarkers“. The habilitation thesis is conceived as a collection of 10 previously published scholarly works in domestic and international literature. In 8 of them, dr. Fedorko is the first or corresponding author, including 6 papers published in journals with IF (the first or corresponding author in 4 of them). The habilitation thesis summarizes the role of short and long non-coding RNAs as possible novel biomarkers of renal cancer in early detection, diagnosis, prognosis and treatment response. It was reviewed by three respected experts in the field of urology and oncology. All reviewers agreed that the habilitation thesis was topical, fulfilled its objectives, presented new knowledge in the field of urology and urooncology and demonstrated applicant's scientific potential. There were no critical comments. Based on the reviews, the presented habilitation thesis meets the standard requirements for habilitation theses in the field of Surgery at the Faculty of Medicine, Masaryk University Brno.

Conclusion: The applicant's habilitation thesis **meet** the requirements expected of habilitation theses in the field of Surgery.

Secret vote results

Voting took place: electronically

Number of board members		5
Number of votes cast		5
of which	in favour	5
	against	0

Board decision

Based on the outcome of the secret vote and following an evaluation of the applicant's scholarly or artistic qualifications, pedagogical experience and habilitation thesis, the board hereby submits a proposal to the Scientific Board of the Faculty of Medicine of Masaryk University to **appoint the applicant associate professor** of Surgery.

In Brno on 05.09.2022

prof. MUDr. Zdeněk Kala, CSc.

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