

Masaryk University	
Faculty	Faculty of Medicine
Procedure field	Anatomy, Histology and Embryology
Applicant	doc. MUDr. Marek Joukal, Ph.D.
Applicant's home unit, institution	Faculty of Medicine, Masaryk University
Board members	
Chair	prof. RNDr. Ondřej Slabý, Ph.D. <i>Faculty of Medicine, Masaryk University</i>
Members	Professor Cecilia Brassett <i>University of Cambridge</i> prof. MUDr. Karel Smetana, DrSc. <i>Anatomický ústav 1. LF UK Praha</i> prof. MUDr. David Kachlík, Ph.D. <i>2. lékařská fakulta, Univerzita Karlova</i> prof. MUDr. Mgr. Zbyněk Tonar, Ph.D. <i>Ústav histologie a embryologie LF UK v Plzni</i>

Evaluation of the applicant's scholarly/artistic qualifications

Doc. MUDr. Marek Joukal, Ph.D. is the author or co-author of 39 articles published in high impact journals and 4 times in peer-reviewed journals. He is listed 14 times as the first or corresponding author (4 times in Q1 journals). His excellent research career is supported by 469 citations in WoS and H-index 13. Marek Joukal is the applicant of 1 international MOBILITY grant supported by the Czech Ministry of Education and German DAAD, co-applicant of one grant supported by the Czech Science Foundation, and co-applicant of one grant supported by the Czech Health Research Council. In 2017, Marek Joukal was awarded the prestigious Proschek-Fulbright Scholarship and spent 6 months at the University of Minnesota in Professor Honda's lab focusing on an ex vivo skin-nerve model for testing potential therapeutics for neuropathic pain. Apart from the research in the field of neuroscience, dr. Joukal also conducts research in the field of Forensic medicine and pathology as well as Clinical Anatomy. From the aforementioned, it is clear that Marek Joukal is a very reputable researcher with a great impact on science in the fields of Anatomy, Neuroscience, and Forensic Science.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Anatomy, Histology and Embryology.

Evaluation of the applicant's pedagogical experience

Doc. MUDr. Marek Joukal, Ph.D. started his teaching activity in 2009 as a student assistant at the Department of Anatomy, Faculty of Medicine, Masaryk University. After his graduation (M.D.) in 2013 he continued as an assistant, and after completing his Ph.D. (2016) as an assistant professor, and after his habilitation in 2021 as Associate Professor. Since 2019, he has been a course guarantor of the subject of Anatomy for General Medicine, Dentistry, and Bachelor studies. He regularly delivers Anatomy lectures, seminars, and dissection courses for General Medicine students and Dentistry students both in Czech and English. Moreover, he guarantees and teaches the subject Selected Chapters of Childhood Anatomy. Marek Joukal's excellent teaching skills led to innovations in the Anatomy curriculum and was awarded the "Award in Tuition Innovation" by the Rector of Masaryk University in 2021. In addition, his teaching activity is supported by 4 comprehensive textbooks (Anatomy for Physiotherapists I and II, Anatomy of childhood, Basic of Dissection Techniques) and two chapters in textbooks. He is the supervisor of five doctoral students, with two students having already graduated (MUDr. Peter Solár, Ph.D. – viva defence in 2022, MUDr. Zuzana Musilová, Ph.D. – viva defence in 2024). Marek Joukal is the main applicant of two ERASMUS+ projects ScaLPEL and ScaLPEL 2.0 that are focused on the practical education of surgeons in European countries. He is also a co-applicant of the ERASMUS+ project LEANbody in Medical Education focused on the development of the anatomy curriculum in collaboration with the University of Pécs, University of Zagreb, Karolinska Institutet, and the University of Cambridge.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Anatomy, Histology and Embryology.

Evaluation of the applicant as a respected and recognized scholarly or artistic figure in a given field

Doc. MUDr. Marek Joukal, Ph.D. has a wide range of research activities. He is a leading expert in the field of neuroscience with a specialisation on nerve barriers; he is also a respected anatomist conducting research in clinical anatomy and forensic science. Marek Joukal is chair of the committee of Cell and Tissue Morphology and a member of the doctoral board of Biomedical Sciences. He is a board member of the Czech Anatomical Society, and a board member of the Czech Society of Histo- and Cytochemistry. He is a reviewer and guest editor of many respected neuroscientific, anatomical, and forensic science journals e.g., Fluids and Barriers of the CNS, Frontiers in Cellular Neuroscience, Forensic, Science, Medicine and Pathology, and Clinical Anatomy. Marek Joukal collaborates with multiple institutions, e.g. University of Minnesota, University of Cambridge, University of Zagreb and University of Pécs, on scientific or pedagogical projects. He is also very active in the popularisation of anatomy in public, he organises activities in the Night of Museums or Open House, he is active in the popularisation of

the Anatomy Bequest Program. He is the guarantor of the Junior Academy of Faculty of Medicine which is designed for talented high school students in science and medicine who want to participate in scientific projects and develop their professional knowledge and skills. Marek Joukal organises multiple practical courses and workshops focused on clinical anatomy for surgeons.

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

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 role as a respected and recognized scholarly or artistic figure, the board hereby submits a proposal to the Scientific Board of the Faculty of Medicine of Masaryk University to **appoint the applicant professor** of Anatomy, Histology and Embryology.

In Brno on 29.11.2024

prof. RNDr. Ondřej Slabý, Ph.D.