

Masaryk University

Faculty

Faculty of Medicine

Procedure field

Anatomy, Histology and Embryology

Applicant

doc. MVDr. Aleš Hampl, CSc.

Applicant's home unit, institution

Faculty of Medicine, Masaryk University

Board members

Chair

prof. MUDr. Karel Smetana, DrSc.
Institute of Anatomy First Faculty of Medicine, Charles University

Members

Majlinda Lako, PhD, Prof of Stem Cell Sciences
Newcastle University Bioscience Institute Central Parkway

prof. MUDr. Jaroslav Mokřý, Ph.D.
Department of Histology and Embryology, Faculty of Medicine in Hradec Králové, Charles University

prof. RNDr. Šárka Pospíšilová, Ph.D.
Faculty of Medicine, Masaryk University

prof. MUDr. Mgr. Zbyněk Tonar, Ph.D.
Ústav histologie a embryologie LF UK v Plzni

Evaluation of the applicant's scholarly/artistic qualifications

Assoc. prof. Aleš Hampl, D.V.M. received his CSc. degree in 1991 in the field of "Veterinary Morphology and Physiology" at the Institute of Animal Physiology and Genetics, Czech Academy of Sciences, Liběchov.

Since 1991 till 1994 he continued in his research career path first as postdoctoral fellow and then as postdoctoral associate at The Jackson Laboratory, Bar Harbor, Maine, USA. He worked under the supervision of Dr. John Eppig, where he gained expertise in reproductive biology and genetics.

In 1995 Dr. Hampl was appointed Junior Researcher in the Institute of Animal Physiology and Genetics, Czech Academy of Sciences, Liběchov, and since 1996 he also served as Assistant Professor at the Department of Molecular Embryology at the Mendel University.

In 2002 he was appointed Principal Investigator in the Institute of Experimental Medicine, Czech Academy of Sciences, where he served as Head of the Department of Molecular Embryology since 2005 till 2011.

In 2005 Dr. Hampl was promoted Associate Professor in Animal genetics at Mendel University, Brno with the thesis: "Molecular interactions of cell cycle regulators in reproductive organs and cells of embryonal origin".

Since 2005 till 2010 Dr. Hampl has been employed as Associate Professor at the Department of Biology at the Faculty of Medicine, Masaryk University, Brno.

Beginning 2010, he is in the position of the head of the Department of Histology and Embryology at the Faculty of Medicine, Masaryk University.

Since 2011 till 2018 Dr. Hampl also served as Vice-Dean for research at the Faculty of Medicine, Masaryk University, Brno.

Beginning 2011, he also holds position of Principal Investigator at the International Clinical Center, St Anne's University Hospital Brno and Faculty of Medicine, Masaryk University, Brno.

The research interests of Dr. Hampl include mainly biology of stem and progenitor cells, with most recently being focused on their application in biomedicine and clinical medicine. Dr. Hampl is currently particularly active in interconnecting biology of stem cells with material science and advanced technologies such as microfluidics and 3D bioprinting, thus aiming at designing methodologies and scenarios for future tissue engineering and regenerative medicine.

Dr. Hampl has authored and co-authored 143 publications listed in Web of Science database with a Hirsch index of 35. The total WoS citation record is 5423 without self-citations. He is also the author of one Czech national patent.

Dr. Hampl in his career has worked on a total of 26 R&D grant projects, in which he served as Principal (Main) Investigator (13 projects), Co-Principal Investigator (12 projects), and Investigator (Team member) (1 project). The funding bodies included: Czech Science Foundation; Czech Health Research Council; Ministry of Education, Youth and sports of the Czech Republic, FP6 EU and others.

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

Dr. Aleš Hampl has been continuously teaching undergraduate (General Medicine, Dentistry programs) and postgraduate students in Czech and also in English at the Faculty of Medicine of Masaryk University since 2005.

Dr. Hampl has initiated and then successfully led through accreditation process (September 2019) new master degree program "Embryologist", to which he now serves as guarantor.

He is the author/co-author of 3 textbooks and 9 chapters/teaching texts in pedagogical textbooks.

The most important publications in the field of pedagogical activities include in particular:

1. Guide to general histology and microscopic anatomy
2. Klinická pankreatologie 2 (Clinical Pancreatology 2)
3. Histologický atlas LF MU (Histological Atlas - Faculty of Medicine MU)

These books are unique works intended for students of medicine and professionals involved with teaching of histology and in the care of patients suffering from problems with the pancreas including malignant disease of this organ.

In addition to the teaching of pre-graduate students of Masaryk as well as Mendel Universities, he served as a supervisor of 20 bachelor and 14 master degree students. Under his guidance as supervisor, a total of 10 doctoral students successfully completed their studies and received PhD title.

Currently, Dr. Hampl serves as the member of several doctoral studies boards, including: Biomedical Sciences (Faculty of Medicine MU); Animal Physiology, Immunology, and Developmental Biology (Faculty of Science, MU), Medical Biology (Faculty of Medicine, Palacký University); Animal Genetics (Mendel University); Biology and Pathology of Cell (1st Faculty of Medicine, Charles University).

Dr. Hampl has also led two consortial projects oriented on education in the field of tissue engineering that were funded by Ministry of Education, Youth and sports of the Czech Republic, named "Partnership for education and research in the field of visualisation of tissues and organs – OrganoNET" and "Centre for analysis and modelling of tissues and organs – HistoPARK".

Dr. Hampl also contributes to high quality university education by his activities through National Accreditation Body of the Ministry of Education, Youth and sports of the Czech Republic.

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

Dr. Hampl is a renowned expert in stem cells and their application in biomedicine. He was the first in the Czech Republic, with prof. Dvořák, to derive lines of stem cells from human blastocysts (in 2003), served as a member of the Standards Committee of the International Society for SC Research, was involved in a worldwide activity "International SC Forum" focusing on the characterization of human pluripotent SC, and contributed to two multicentre studies published in Nature Biotechnology journal.

He is also a national representative of the Czech Republic in the "Human Pluripotent Stem Cell Registry" and a member of the Management group of "The European Consortium for Communicating Gene and Cell Therapy Information" funded by H2020.

Dr. Hampl has extensive experience in participating in large projects with an international dimension, such as COST and FP7 REGPOT (ICRC-ERA-HumanBridge), and also in leading large research teams such as the Centre of Cellular and Biomolecular Engineering (>100 staff) at the St. Anne's University Hospital, funded by the European Regional Development Fund.

Since 2020, Dr. Hampl has been responsible, science-wise, for devising a new extensive infrastructure of MUNI named BiopharmaHub, with its PreclinCentre prepared as a facility devoted to preclinical research on in vivo and ex vivo humanized models.

Dr. Hampl is actively involved in grant evaluation process at various levels in the Czech Republic and also outside of the country. Most importantly, he served as the member and chair of the "Cells and Molecular Biology Committee" of the Czech Science Foundation, as the member and chair of "Medical Physiology and Neurosciences, Diagnostics and Therapy, Translational Research" Panel (305) of the Czech Science Foundation, and as the member "Biomedical Technologies" Panel (P08) of the Czech Health Research Council.

Since 2010, Dr. Hampl serves at the member of the Scientific Council of the Faculty of Medicine, Masaryk University. He is currently also the external member of the Institutional Board of the Institute of Animal Physiology and Genetics, Czech Academy of Sciences, Liběchov.

Throughout his career, Dr. Hampl was active in organizing conferences and chairing the meeting sessions, that were numerous.

The contribution of Dr. Hampl to research and development was repeatedly recognized by various bodies. Mainly Dr. Hampl received: 1) Award by the Faculty of Medicine, Masaryk University for the best scientific achievement of the year 2010; 2) Award by the Faculty of Medicine, Masaryk University for the best scientific achievement of the year 2012; 3) Award by Minister of Health for Excellency in Biomedical Research funded by the Czech Health Research Council; 4) MUNI Scientist Award by Vice-rector of Masaryk University for significant results in research; 5) Award by the Association of Reproductive Embryologists for long-term serving the clinical embryology community; 6) Award by the Rector of Masaryk University for outstanding achievements in research; 7) Medal by the Czechoslovak Society for Biology; and 8) Award by the Czech Health Research Council for the best project in its 10-year history.

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.

Evaluation Board Decision on the
Nomination for Appointment to Professor

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 20.11.2024

prof. MUDr. Karel Smetana, DrSc.

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