

Masaryk University	
Faculty	Faculty of Medicine
Procedure field	Surgery
Applicant	doc. MUDr. Břetislav Lipový, Ph.D.
Applicant's home unit, institution	Faculty of Medicine, Masaryk University
<u>Board members</u>	
Chair	prof. MUDr. Jiří Veselý, CSc. <i>Faculty of Medicine, Masaryk University</i>
Members	Ludwik K. Branski, MD, MMS <i>Shriners Hospital for Children Galveston TX, University of Texas Medical Branch</i> prof. MUDr. Ján Koller, Ph.D. <i>Klinika popálenín a rekonštrukčnej chirurgie LF UK a UN Bratislava</i> prof. MUDr. Ladislav Plánka, Ph.D. <i>Faculty of Medicine, Masaryk University</i> doc. MUDr. Robert Zajiček, Ph.D. <i>Klinika popáleninové medicíny 3. LF UK a FN Královské Vinohrady</i>

Evaluation of the applicant's scholarly/artistic qualifications

Assoc. prof. Břetislav Lipový, Ph.D. received first degree Attestation in General Surgery in 2010, Specialization certificate in Burn medicine in 2012. He finished his postgraduate doctoral studies at Masaryk University in Brno in 2014 (title of the doctoral thesis Prevalence of infectious complication in severely burned patients). He became an associate professor of Surgery in 2018 (habilitation thesis Toxic epidermal necrolysis. Current perspective on the problem and evaluation of the own concept effectiveness used in primary treatment failure). In 2019 he also started another Post-Doctoral Training in Central European Institute of Technology, Brno University of Technology, Czech Republic, Advanced Biomaterials. (Thesis: Antibacterial wound dressings). Until this date, he has published 128 peer-reviewed publications (71 as first author). From this number, 42 publications are in the Web of Science database (22 as first author). Břetislav Lipový has presented his research at multiple domestic and international congresses (over 300 presentations, with several invitation lectures). His H-index is 6 in WoS. Number of citations in WoS is 117 (100 without auto citations); 42 as the first author. Cumulative IF is above 120.

Břetislav Lipový is/was principal investigator/co-investigator or member of the team in several Ministry of Health of the Czech Republic grants No: AZV 15-31063A Cellular-signature profiling: leading to tailored treatment for Schizophrenic patients (team member), AZV 17-29874A Optimization of nanostructured dermal substitutes in animal model (co-investigator), AZV NV19-05-00214 Study of therapeutic application of antibacterial wound dressing for skin and soft tissue infections in epidemiologically relevant strains of *S. aureus* - methicillin resistant (co-investigator), AZV NU20-05-00166 New approaches to infected wound healing using hydrogels from Gum Karaya natural resin modified with innovative components targeted at multidrug resistant bacterial strains (team member), AZV NU22-05-00475 Treatment of Infections Caused by Multidrug-Resistant Bacterial Strains by Novel Antibacterial Preparations Based on Cathelicidin Antimicrobial Peptides (team member), AZV NU22-05-00110 Chronic wound infections – their poly-microbial basis, therapy failure and ways of treatment utilizing 3D bioprinting (team member), AZV NU22-05-00042 Development of nanobiotechnology methods for monitoring of therapeutic staphylococcal bacteriophages in clinical samples (team member), AZV NU22-08-00454 Cell-mediated multilayered 4th generation biomimetic scaffold for single-step total skin substitute: from laboratory to clinical application (principal investigator). He also collaborated as a co-investigator in the EVMA Research Grant 2019, category: Solutions to enhance patient safety and compliance in wound management. In vivo comparison of hyperstable form of FGF2 versus variable lipografting enhancement on improving fat graft survival. He was also principal investigator or co-investigator of several institutional projects (Optimization of antimicrobial activity of temporary biopolymer carriers of selected growth factors using inorganic selenium nanoparticles, Junior researcher 2017, Medical Faculty Masaryk University Brno, In vitro biocompatibility testing of temporary biopolymer hydrogel for biological active particles, Junior researcher 2018, Medical Faculty, Masaryk University, Start-up grant University Hospital Brno 2018 - Evaluation of antibacterial biopolymer hydrogel biological activity for growth factors in partial thickness skin defects on animal model, Start-up grant University Hospital Brno 2020 - Molecular genetic analysis of dynamic changes in the airway microbiome in patients with inhalation injury). Břetislav Lipový also actively collaborated on other external projects: Industrial Production of Stable Fibroblast Growth Factors for Regenerative Medicine and Related Research Areas (Project ID: 756471, Horizon 2020), A new bioactive hemostatic and wound dressing based on collagen and cellulose (TAČR, TH04020540), Effect of a combination of n-3 polyunsaturated fatty acids and nanoparticles on skin wound healing in a model organism AF-IGA2019-TP006 (Mendel University).

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

Evaluation of the applicant's pedagogical experience

Břetislav Lipový has been teaching at Masaryk University, Faculty of Medicine, Brno: Lectures (Surgery VLCH9X33p, Degree programme: General medicine Czech and English students 2008-2018), (Urgent care in surgery BZNC0522p, Degree programme: Paramedics 2014-present), Class exercises (Surgery VLCH9X33c, Degree programme: General medicine Czech and English students 2008-present) and Seminar (Individual work VSSP03X 2015-present) He was a teaching specialist (Treatment of extensive burns, Selected surgical reconstructive procedures) in the Optimed project. He was tutor in the Burn Trauma Patient Care Course, Defense Institute for Medical

Operation (NATO) in 2015. He is team member of the HR Award working group. He was Tutor of ERASMUS final projects in Masaryk University, Faculty of Medicine in 2015 (topic: Risk factors for development of bloodstream infections in severe burn patients, student: Garcia Martínez and Maria Cristina, Universitat de Girona), in 2016 (topic: Differences in microbiological results in patients with critical and non-critical burn trauma: population based study, student: Maria Battle Figueras, Universitat de Girona). In 2017 his PhD student (Jakub Holoubek MD) obtained „Brno Ph.D. Talent award“. He was also opponent in several Bachelor theses or Master thesis in the Masaryk University. He was tutor of several students in the Student scientific conference Masaryk University, Faculty of Medicine (7 students, 2 of them awarded with 2nd place in surgery section). He is a supervisor of 6 postgraduate students, in one student as consultant (2 successfully completed), and opponent of a number habilitation theses at Masaryk University Brno, Charles University in Prague or Comenius University Bratislava. He is a member of the State examination board - Surgery from 2020 until now. He is also the author of 1 textbook, 10 textbook texts and teaching aids, 4 popular science texts and activities and 9 compilations and educational texts.

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

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

Assoc. Prof. Břetislav Lipový is a leading expert in the therapy of patients with burns not only in the Czech Republic, but also abroad. He is very active and progressive in the field of intensive medicine and surgical therapy of these patients, diagnosis and therapy of infectious complications, regenerative medicine improving the burn patients quality of life and translation processes. It is fully established in the world burn society and actively cooperates with a wide range of experts abroad. He is Deputy Chief physician in the Department of Burns and Plastic Surgery, Masaryk University, Faculty of Medicine and University Hospital Brno. He was elected as a member of the executive committee Czech Society of Burn Medicine. He is Editorial Board member in the Acta chirurgiae plasticae journal and repeated reviewer in prestigious medical journals with IF (Burns, Folia Microbiologica, Cell and Tissue Banking, British Journal of Dermatology, others). He was also the organizer of a number of medical conferences (XVI. Annual Conference of the Czech Society of Burn Medicine in 2010, XX. Annual Conference of the Czech Society of Burn Medicine in 2015, Czech-Slovak congress: Interdisciplinary approaches in Wound Healing, 2019, 2nd Czech-Slovak congress: Interdisciplinary approaches in Wound Healing in 2021) or the guarantor of sections at conferences (Medicine for Practice congress / Thermal trauma in 2022). He is member of several professional societies (Bioimplantology Association, Czech Society of Intensive Care Medicine, Czech Society of Burn Medicine, European Burn Association national representant, International Society of Burn Injuries and others).

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 Surgery.

In Brno on 12.10.2022

prof. MUDr. Jiří Veselý, CSc.

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