

Prof. MUDr. Břetislav Lipový, PhD, MBA, LLM, FICS

Born on 19th March, 1982 in Český Těšín, Czech Republic

Education and degrees:

2001-2007 University Faculty of Medicine, Masaryk University Brno, Czech Republic^[1]
2007-2014 Post-Doctoral Training Faculty of Medicine, Masaryk University Brno, Czech Republic (PhD). Thesis: Prevalence of infectious complication in severely burned patients
2018 Habilitation (Surgery) Faculty of Medicine, Masaryk University Brno, Czech Republic. Thesis: Toxic epidermal necrolysis. Current perspective on the problem and evaluation of the own concept effectiveness used in primary treatment failure
2018 Master of Business Administration, European School of Business and Management, Prague, Czech Republic (MBA). Thesis: Quality care management system in patients with toxic epidermal necrolysis.
2019 Post-Doctoral Training Central European Institute of Technology, Brno University of Technology, Czech Republic, Advanced Biomaterials. Thesis: Antibacterial wound dressings.
2021 FICS (Fellow of the International College of Surgeons), Czech section
2022 LLM in Medical Law, Bioethics and GDPR in Healthcare, Academy of Health Care Management, Prague, Czech Republic (LLM). Thesis: Ethical and legislative aspects for allogeneic facial transplantation in the Czech Republic.
2023 Professor appointment (Surgery) Faculty of Medicine, Masaryk University Brno, Czech Republic.

Professional profile:

2007 - Department of Burns and Plastic Surgery, University Hospital Brno, Czech Republic
2018 - Department of Burns and Plastic Surgery, University Hospital Brno, Czech Republic (chief physician - Burn intensive care unit)
2024 – Department of Burns Medicine, University Hospital Kralovske Vinohrady, Prague, Czech Republic

Professional Qualifications

2010 – Atestation 1st degree - General Surgery
2011 – ECHO certificate (Czech Society of Intensive Care Medicine)
2012 – Atestation 2nd degree – Burn Medicine
2015 – Pediatric bronchoscopy certificate
2018 - Medical Faculty Masaryk University Brno, Czech Republic (associate professor)
2023 - Medical Faculty Masaryk University Brno, Czech Republic (professor)
2024 – 3rd Medical Faculty Charles University Prague, Czech Republic (professor)

Clinical trials experiences

2007 – Indication of Veloderm® in cover partial thickness burns - consultant
2008-2009 – Xe-derma® in cover partial thickness burns – co-investigator
2010 – Mepilex AG in adult and pediatric burns
2013 – Principal investigator Birken clinical trial
2014 – Principal investigator Nexobrid™ in adult patients
2014 – Principal investigator Nexobrid™ in pediatric patients
2019 – Principal investigator The RE-ENERGIZE Study: A RandomizEd trial of ENtERAl Glutamine to minimIZE thermal injury (study terminated)
2019 – Principal investigator Reducing microbial burden in acute wounds using non-thermal plasma.

Selected Scientific Grants:

2015 AZV 15-31063A Cellular-signature profiling: leading to tailored treatment for Schizophrenic patients (**team member**)
2017 AZV 17-29874A Optimization of nanostructured dermal substitutes in animal model (**co-applicant**)
2019 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-applicant**)

2020 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**)

2020 EWMA Research Grant 2019 in the 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 (**co-applicant**)

2022 AZV NU22-05-00475 Treatment of Infections Caused by Multidrug-Resistant Bacterial Strains by Novel Antibacterial Preparations Based on Cathelicidin Antimicrobial Peptides (**team member**)

2022 AZV NU22-05-00110 Chronic wound infections – their poly-microbial basis, therapy failure and ways of treatment utilizing 3D bioprinting (**team member**)

2022 AZV NU22-05-00042 Development of nanobiotechnology methods for monitoring of therapeutic staphylococcal bacteriophages in clinical samples (**team member**)

2022 AZV NU22-08-00454 Cell-mediated multilayered 4th generation biomimetic scaffold for single-step total skin substitute: from laboratory to clinical application (**applicant**)

2023 TAČR TREND FW09020073 Submicrofibrous oxidized cellulose accelerating the blood stop (**team member**)

2023 ČRA 282114/2023-ČRA (Czech Development Agency, Challenge: Improving health care in selected hospitals in Lviv, Ukraine); Czech Health Institute, (Strengthening of capacities in Lviv and the National Rehabilitation Center Unbroken) (**co-applicant**)

2023 TAČR TREND FW10010402 Development and evaluation of hemostatic m-doc dressings for vascular procedures (**team member**)

2024 OPTAK (Operational Program Technology and Applications for Competitiveness) MPO Application Program, Challenge I – with effective cooperation. Hemostatic lyophilized foams based on m-doc (**team member**)

2024 Interreg ATCZ00083 ACCURE (Austrian-Czech Union of Regenerative Skin Medicine) (**team member**)

Publication activity:

Based on Scopus, WOS, he is author or co-author of 123 scientific publications (incl. journals with impact factor – Burns, Plast Reconstr Surg., Front. Bioeng. Biotechnol., Microsurgery, etc.; more than 380 papers presented at conferences; 12 teaching texts and materials; sum of times cited without self-citations: **180** (Web of Science); H-index (Web of Science) = **10**.

Humanitarian activities:

Due to my clinical experience, I also participated in a humanitarian mission in Ethiopia (Alert Trauma Hospital, Addis Ababa and Burn Center Yekatit Hospital, Addis Ababa) in 2019. As part of the MEDEVAC program (Czech Government program) I will travel to Najaf (Iraq) in April 2023, where it is being formed long-term cooperation. I have also been with the same program to Ukraine more than 8 times in the past two years as part of a reconstruction program for war-wounded patients. In 2025 I plan to cooperate with the Senegal Government to establish 1st Burn centre.

Professional memberships:

Member of a number of national and multinational professional societies (Czech Medical Chamber, Society for Bioimplantology, Czech Society of Intensive Medicine, Society for Wound Treatment, Czech Society of Burn Medicine, European Burns Association - representative for the Czech Republic, International Society for Burn Injuries, International College of Surgeons).

2024 Member of the Research Committee European Burns Association

2024 Member of the Research Committee International Society for Burn Injuries