Emil Bečka, MSc.

Personal info:
Date of birth: 16.12.1997
Place of birth: Dolný Kubín, Slovakia
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Foreign languages: English

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Professional curriculum vitae:
Education

2017 - 2020	BSc, Medical Biology, Faculty of Natural Science, Comenius University in Bratislava, Slovakia (Bachelor thesis: Activation of neutrophils using bacterial and mitochondrial peptides)
2020 - 2022	MSc, Molecular biology, Faculty of Natural Science, Comenius University in Bratislava, Slovakia (Master thesis: Sterile inflammation as inductor of neutrophil extracellular traps)
2022 -	PhD, Institute of Molecular Biomedicine, Faculty of Medicine, Comenius University, Bratislava, Slovakia (Dissertation thesis: Neutrophil extracellular traps in sterile inflammation)

Employment

09/2019 – 04/2020	Laboratory assistant, Institute of Molecular Biomedicine, Faculty of Medicine, Comenius University in Bratislava
10/2020 – 06/2022	Laboratory assistant, Histology, Medicyt s. r. o., Bratislava, Slovakia
01/2022 – 04/2022	Molecular diagnostic, Covid-19 laboratory, rychlotest-covid s. r. o., Bratislava, Slovakia

Internship

10/2023 – 07/2024	Life Science Institute, University of Michigan, Ann Arbor, Michigan, USA

Grants as a principal investigator:
UK/27/2023
Title: Description of signal pathways in neutrophils during neutrophil extracellular traps formation
UK/1222/2025 LF UK
Title: The role of neutrophil receptors for formylated peptides in sterile injury

Conference

2023	98th Physiological days in Prague, Charles University in Prague, CZ
2023	European Phagocyte Workshop, Semmelweis University, Budapest, HU
2024	Neutrophils, Ludwig-Maximilians-Universität, Munich, DE
2025	100th Physiological days in Prague, Charles University in Prague, CZ
2025	European Phagocyte Workshop, CNIC, Madrid, ES
2025	20. Scientific Conference of PhD Students, Comenius University, Bratislava, SK

Publication record
Publication according to WoS: 3, SCI citations: 11, h-index: 2

Publications

Janko J, Bečka E, Kmeťová K, et al. Neutrophil extracellular traps formation and clearance is enhanced in fever and attenuated in hypothermia. Front Immunol. 2023; 14:1257422. Published 2023 Oct 2. doi:10.3389/fimmu.2023.1257422

Feješ A, Belvončíková P, Bečka E, et al. Myeloperoxidase, extracellular DNA and neutrophil extracellular trap formation in the animal models of metabolic dysfunction-associated steatotic liver disease. World J Gastroenterol. 2025; 31(27):106166. doi:10.3748/wjg.v31.i27.106166

Feješ A, Bečka E, Feješ Slivková I, et al. Sex-specific effects of peptidyl arginine deiminase 4 deficiency in the cafeteria diet-induced obesity-associated metabolic complications. *Front Endocrinol (Lausanne)*. 2026; 16:1694559. Published 2026 Jan 2. doi:10.3389/fendo.2025.1694559