MSCA PF HOSTING OFFER 2026 – ELTE, COMPLEMENT RG

Name of the host institution	ELTE Eötvös Loránd University
Faculty	Faculty of Science
Name of the supervisor	Mihály Józsi
Organisational Unit / Research Group	Department of Immunology, Complement Research Group
Research Team	Mihály Józsi, professor, group leader Erika Bacsa, M.Sc., PhD student Dániel Bencze, M.Sc., PhD student Hammad Hani Hashim, M.Sc., PhD student Dr. Dorottya Kövesdi, Ph.D., senior research fellow Dr. Alexandra Matola, Ph.D., research fellow Martina Sajgó, M.Sc., PhD student Dr. Dávid Szakács, Ph.D., research fellow Dr. Barbara Uzonyi, Ph.D., assistant professor
Project experiences (EU / international)	H2020 FET-OPEN, grant ID: 899163, SciFiMed, Screening of inFlammation to enable personalized Medicine (2021-2025)
Research Interests	• role of the complement system in health and disease • complement dysregulation and patholigical roles of anti-complement autoantibodies • function of factor H family proteins • the role of innate immunity in the defense against pathogenic microbes Our research concerns the complement system of innate immunity, particularly the function and regulation of the alternative complement pathway, the structure and function of factor H and factor H-related proteins. Complement is involved in the pathomechanism of several diseases. Dysregulation of the alternative pathway, polymorphisms and mutations in factor H or anti-factor H autoantibodies play a role in various diseases, including age-related macular degeneration (a leading cause of blindness in the Western world) and the kidney diseases atypical hemolytic uremic syndrome and dense deposit disease). Our main aim is to unveil the physiological roles of factor H and factor H-related proteins, in order to understand their role in diseases, which could then lead to tailored treatments in the future. Keywords: innate immunity, complement system, autoimmunity, complement-mediated diseases, factor H protein family, pentraxins, complement evasion of microbes
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