



Prof. MUDr. et Mgr. Milan Raška, Ph.D.

Head of the Department of Immunology

Vice-Dean for International Relations

Milan Raska has completed his Ph.D. at the age of 35 years from Palacky University, Olomouc, Czech Republic. He spent his postdoctoral fellowship at the University of Alabama at Birmingham, Birmingham, AL, USA at the laboratories of prof. Mesteccky and prof. Novak. Dr. Raska is currently a Professor of Immunology at Faculty of Medicine and Dentistry, Palacky University, Olomouc, Czech Republic. He has published more than 80 papers in peer-reviewed journals. His research is focused on novel approaches in design of recombinant protein-based and DNA vaccines, on liposome-based delivery systems and on mechanisms involved in the etiopathogenesis of autoimmune disease immunoglobulin A nephropathy.

Dr. Raska has a broad background in immunology and molecular biology, with specific training and expertise in molecular cloning, recombinant protein preparation and characterization, recombinant protein and DNA plasmid utilization in vaccine design and testing. His research includes reverse vaccinology-based design of experimental vaccines preventing selected fungal, bacterial, and viral infections, characterization of antigen specific cell-mediated and humoral immune responses, and involvement of glycosylation in the immune responses intensity and quality. Beside of experimental immunization he is focused on etiopathogenesis of abnormalities observed in glycan moiety of IgA in IgA nephropathy. As PI or co-Investigator on several university- and Czech or European Grant Agencies-funded grants, he developed technologies for DNA cloning, stable transgenic mammalian cell line preparation, recombinant protein expression, purification, and characterization on Department of Immunology at Palacky university Olomouc. He established strong and effective collaboration with domestic (Czech Republic) and abroad (USA, UK, Slovak Republic, France, German) research laboratories focused on particulate nanoliposomal vaccines preparation and testing their physical, biochemical and biological and immunological properties. He successfully coordinated 18 research projects (e.g. staffing, research conduction, budget), 9 of them were collaborative with research laboratories either from Czech Republic, USA, UK, France, Spain, and German, and produced several peer-reviewed publications from each project.

Dr Raska was awarded by Dean's Award for Excellent publication in 2013 and 2014, for the best collaboration with Industry, Technology Agency of the Czech Republic and American Chamber of Commerce in the Czech Republic 2014, for the best project in the field of public health, Technology Agency of Czech Republic, 2015.