

Offer of topics for Ph.D. study projects in Third Faculty of Medicine, Charles University in Prague

Project:	Effect of neural activity in the retina on pathogenesis of experimental autoimmune uveoretinitis
Mentor (Advisor):	PharmDr. Andrea Štofková, Ph.D.
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Project Narrative: (<i>max. 500 characters including spaces</i>):	The goal of this project is to investigate the impact of retinal neural activity on blood-retinal barrier (BRB) permeability and infiltration of pathogenic CD4+ T cells in murine experimental autoimmune uveoretinitis. Retinal neural activity will be modulated by different light intensity/wavelength. Analyses will be focused on identification of retinal neural circuits and neurotransmitters responsible for induction of proinflammatory phenotype in endothelial and periendothelial cells of the BRB.
Requirements for student applicants: (<i>specify your requirements such as degrees or period after degree was granted</i>)	Graduate of master's degree program (natural sciences or pharmacy), general medicine or veterinary medicine.