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

Project:	Epistatic control of development of infectious disease
Mentor (Advisor):	Assoc. Prof. Marie Lipoldova, PhD.
Department:	Institute of Immunology/Institute of Molecular Genetics, AS
	CR
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Project Narrative: (max.	Epistasis plays an essential role in development of most
500 characters including	diseases, but most interacting genes are unknown. We
spaces):	developed mouse model with a strong epistatic effect on
	susceptibility to leishmaniasis. Leishmania-susceptible
	B10.O20 mice carry 4% and 96% genes, respectively, of
	resistant strains O20 and C57BL/10. To define functional basis
	of this epistatic control we will map the O20 genes causing
	B10.O20 susceptibility and measure gene and pathway
	expression patterns in control and infected mice.
Requirements for student	M.Sc. degree or equivalent in genetics, molecular or cellular
applicants: (specify your	biology, parasitology, biomedicine, strong interest in basic
requirements such as degrees	research and experimental work, good English
or period after degree was	
granted)	