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

Project:	**Impact of high body iron stores on arterial endothelium**
Mentor (Advisor):	Doc. MUDr. Pavel Kraml, Ph.D.
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Project Narrative: *(max. 500 characters including spaces):*	A number of epidemiological studies clearly demonstrated that increased body iron stores represent an independent risk factor of cardiovascular diseases caused by atherosclerosis (CVD, ischemic stroke, peripheral vascular disease). The role of stored iron in the pathogenesis of atherosclerosis will be now studied on cultivated human coronary endothelial cells. After saturation of the cells e.g. with transferrin, the markers of oxidation stress (expression of NAD(P)H oxidase etc.) and parameters of endothelial dysfunction (e.g. cytoadhesive molecules) will be estimated.
Requirements for student applicants: *(specify your requirements such as degrees or period after degree was granted)*	MD