

## Diploma theses

### 2009

<b>Ballek Ondřej</b>	Rack1 as a candidate protein involved in the regulation of translocation of Lck to lipid rafts (Supervisor: Dominik Filipp; PŘF UK Praha)
<b>Černohorská Markéta</b>	The role of JAK/STAT signalling pathway in cellular senescence (Supervisor: Zdeněk Hodný; PŘF UK Praha)
<b>Dušková Pavlína</b>	The role of DNA damage in chemically induced senescence (Supervisor: Zdeněk Hodný; PŘF UK Praha)
<b>Dzúr-Gejdošová Mária</b>	Regulation of gene expression on the model of mouse consomic strains (Supervisor: Jiří Forejt; PŘF UK Praha)
<b>Flachs Petr</b>	Construction of three congenic strains and their phenotypisation (Supervisor: Zdeněk Trachtulec; PŘF UK Praha)
<b>Hejhal Tomáš</b>	Epigenetic regulation of immunactive gene expression in tumour cells (Supervisor: Milan Reiniš; PŘF UK Praha)
<b>Kopová Ivana</b>	The role of sumoylation in premature chemically induced cellular senescence (Supervisor: Zdeněk Hodný; PŘF UK Praha)
<b>Kotáb Jan</b>	Integration preferences of avian sarcoma and leUKosis viruses (Supervisor: Jiří Hejnar; PŘF UK Praha)
<b>Kovářová Denisa</b>	RNAi and reversion of Rous sarcoma virus-induced tumorigenesis (Supervisors: Jiří Hejnar, Kateřina Trejbalová; PŘF UK Praha)
<b>Machyna Martin</b>	Dual role of CD9 protein in mast cell activation (Supervisor: Petr Dráber; PŘF UK Praha)
<b>Mayer Alexandra</b>	Pathophysiological role of matrix metalloproteinase 19 in development of liver fibrosis (Supervisor: Radislav Sedláček; PŘF UK Praha)
<b>Nevažil Leonard</b>	TRAIL-induced apoptosis in populations of colon cancer cell lines under various cultivation conditions (Supervisor: Ladislav Anděra; PŘF UK Praha)

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<b>Plesníková Michaela</b>	The separation, characterization and cultivation of limbal stem cells (Supervisor: Vladimír Holáň; PŘF UK Praha)
<b>Sarnová Lenka</b>	Transgenic RNAi in mouse oocytes (Supervisor: Petr Svoboda; PŘF UK Praha)
<b>Slávik Branislav</b>	Targeting of genes of interest via avian retroviral receptor Tvc (Supervisor: Radislav Sedláček; PŘF UK Praha)
<b>Svoboda Ondřej</b>	Cloning, expression and characterization of recombinant growth factors (Supervisor: Petr Bartůňek; PŘF UK Praha)
<b>Svobodová Eliška</b>	Immunomodulation properties of mesenchymal stem cells (Supervisor: Magdalena Krulová; PŘF UK Praha)

## 2010

<b>Auxt Miroslav</b>	<i>De novo</i> DNA methyltransferases in the silencing of retroviral vectors (Supervisors: Jiří Hejnar, Filip Šenigl; PŘF UK Praha)
<b>Dušková Eva</b>	Regulation of alternative splicing (Supervisor: David Staněk; PŘF UK Praha)
<b>Faltýsková Helena</b>	Experimental models of the stem cell transfers for therapeutic purposes (Supervisor: Magdalena Krulová; Farmaceutická fakulta UK, Hradec Králové)
<b>Chudíčková Milada</b>	Recombinant congenic strains – model for biomedical research (Supervisor: Marie Lipoldová; fakulta biomedicínského inženýrství, VŠCHT Praha)
<b>John Václav</b>	Genes for hybrid sterility in mice: mapping of epistatic interactions (Supervisor: Jiří Forejt; PŘF UK Praha)
<b>Kašpárek Petr</b>	Generation of a transgenic mouse model to study biological role of KLK5 in epidermis (Supervisor: Radislav Sedláček; PŘF UK Praha)
<b>Marášek Pavel</b>	Function of paxillin complexes in cell nucleus (Supervisor: Pavel Hozák, VŠCHT Praha)

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<b>Pitule Pavel</b>	Comparative genomic prediction of novel transmembrane adaptor proteins and their expression analysis (Supervisor: Karel Drbal; PŘF UK Praha)
<b>Přistoupilová Anna</b>	Development of real-time PCR assay for detection of <i>Amphibocystidium ranae</i> as a model approach for studying rhinosporidiosis (Supervisor: Jan Pačes; 1. LF UK Praha)
<b>Šíma Matyáš</b>	Genetic influence on <i>Trypanosoma brucei brucei</i> infection in mice (Supervisor: Marie Lipoldová; PŘF UK Praha)
<b>Šimíček Michal</b>	FcεRI and Kit signal to actin cytoskeleton via different pathways (Supervisor: Petr Dráber; PŘF UK Praha)
<b>Šulcová Jitka</b>	Analysis of candidate transmembrane adaptor proteins (Supervisor: Karel Drbal; PŘF UK Praha)
<b>Těšina Petr</b>	Structure and function of hPrp31 mutant in <i>Retinitis pigmentosa</i> (Supervisor: David Staněk; PŘF UK Praha)
<b>Vavrochová Tereza</b>	Expression and function of molecules of innate immune system in embryonic phagocytes. (Supervisor: Dominik Filipp; PŘF UK Praha)
<b>Vonková Ivana</b>	Biochemical and functional characterization of a novel transmembrane adaptor protein Nvl (Supervisor: Tomáš Brdička; PŘF UK Praha)

## 2011

<b>Antošová Barbora</b>	Characterization of mice with constitutively active Wnt/beta-catenin signaling pathway in lens (Supervisor: Zbyněk Kozmik; PŘF UK Praha)
<b>Buryova Halka</b>	Characterization of the role of SPINK6 in the epidermis using transgenic models (Supervisor: Radislav Sedláček; PŘF UK Praha)
<b>Dobeš Jan</b>	The study on the physiological importance of enteric alpha-defensin expression in the thymus (Supervisor: Dominik Filipp; PŘF UK Praha)
<b>Eitler Jiří</b>	Involvement of asthma-associated protein ORMDL3 in mast cell signalling (Supervisor: Petr Dráber; PŘF UK Praha)
<b>Gurská Daniela</b>	The functional analysis of invertebrate promoters in heterologous systems (Supervisor: Zbyněk Kozmik; PŘF UK Praha)
<b>Hájková Zuzana</b>	The effect of mast cell activation on microtubule organization (Supervisor: Pavel Dráber; PŘF UK Praha) – Cena děkana za nejlepší diplomovou práci
<b>Hauserová Viola</b>	Spliceosome assembly (Supervisor: David Staněk; PŘF UK Praha)

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<b>Novák Jakub</b>	Analysis of regulation of cytoplasmic poly(A) polymerase complexes (Supervisor: David Staněk; PŘF UK Praha)
<b>Oltová Jana</b>	Mapping of regulatory elements within 5' region of the Disp3 locus (Supervisor: Petr Bartůněk; PŘF UK Praha)
<b>Písačková Jana</b>	Monoclonal antibodies and characterization of their antigen-binding properties (Supervisor: Pavlína Řezáčová; PŘF UK Praha)
<b>Šimandlová Jitka</b>	Characterization of antirecombinase activity of human FBH1 helicase (Supervisor: Pavel Janščák; PŘF UK Praha)
<b>Vágnerová Lenka</b>	The use of CAM assay for characterization and study of cancer cell invasive properties (Supervisor: Michal Dvořák; PŘF UK Praha)

## 2012

<b>Hanusová Zdenka</b>	Physiological role of SIGIRR in early embryonic development (Supervisor: Dominik Filipp; PŘF UK Praha)
<b>Hradilová Naďa</b>	Role of endocytosis and endosomal acidification in TRAIL-induced apoptosis (Supervisor: Ladislav Anděra; PŘF UK Praha)
<b>Icha Jaroslav</b>	The role of acetylation in the RNA recognition motif of SRSF5 (Supervisor: David Staněk; PŘF UK Praha)
<b>Knopf Corinna</b>	Genetic analysis of genomic recombination rate (Supervisor: Jiří Forejt; Veterinärmedizinische Universität Wien)
<b>Moravec Martin</b>	Analysis of pluripotent gene expression program in early embryos and embryonic stem cells (Supervisor: Petr Svoboda; PŘF UK Praha)
<b>Pavlíková Michaela</b>	The role of selected cell populations and molecules in inflammatory reaction and rejection of skin allograft (Supervisor: Magdaléna Krulová; PŘF UK Praha)
<b>Peřinová Lucie</b>	Modulation of properties of mesenchymal stem cells and their use for regulation of transplantation immunity (Supervisor: Magdaléna Krulová; PŘF UK Praha)
<b>Žlabová Anna</b>	Characterisation of the cell line TRAMP-C2, murine model of prostate cancer (Supervisor: Milan Reiniš; PŘF UK Praha)