

Diploma theses

2009

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

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

2010

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

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

2011

Antošová Barbora	Characterization of mice with constitutively active Wnt/beta-catenin signaling pathway in lens (Supervisor: Zbyněk Kozmik; PŘF UK Praha)
Buryova Halka	Characterization of the role of SPINK6 in the epidermis using transgenic models (Supervisor: Radislav Sedláček; PŘF UK Praha)
Dobeš Jan	The study on the physiological importance of enteric alpha-defensin expression in the thymus (Supervisor: Dominik Filipp; PŘF UK Praha)
Eitler Jiří	Involvement of asthma-associated protein ORMDL3 in mast cell signalling (Supervisor: Petr Dráber; PŘF UK Praha)

Gurská Daniela	The functional analysis of invertebrate promoters in heterologous systems (Supervisor: Zbyněk Kozmik; PŘF UK Praha)
Hájková Zuzana	The effect of mast cell activation on microtubule organization (Supervisor: Pavel Dráber; PŘF UK Praha) – Cena děkana za nejlepší diplomovou práci
Hauserová Viola	Spliceosome assembly (Supervisor: David Staněk; PŘF UK Praha)
Novák Jakub	Analysis of regulation of cytoplasmic poly(A) polymerase complexes (Supervisor: David Staněk; PŘF UK Praha)
Oltová Jana	Mapping of regulatory elements within 5' region of the Disp3 locus (Supervisor: Petr Bartůněk; PŘF UK Praha)
Písačková Jana	Monoclonal antibodies and characterization of their antigen-binding properties (Supervisor: Pavlína Řezáčová; PŘF UK Praha)
Šimandlová Jitka	Characterization of antirecombinase activity of human FBH1 helicase (Supervisor: Pavel Janščák; PŘF UK Praha)
Vágnerová Lenka	The use of CAM assay for characterization and study of cancer cell invasive properties (Supervisor: Michal Dvořák; PŘF UK Praha)
2012	
Hanusová Zdenka	Physiological role of SIGIRR in early embryonic development (Supervisor: Dominik Filipp; PŘF UK Praha)
Hradilová Naďa	Role of endocytosis and endosomal acidification in TRAIL-induced apoptosis (Supervisor: Ladislav Anděra; PŘF UK Praha)
Icha Jaroslav	The role of acetylation in the RNA recognition motif of SRSF5 (Supervisor: David Staněk; PŘF UK Praha)
Knopf Corinna	Genetic analysis of genomic recombination rate (Supervisor: Jiří Forejt; Veterinärmedizinische Universität Wien)
Moravec Martin	Analysis of pluripotent gene expression program in early embryos and embryonic stem cells (Supervisor: Petr Svoboda; PŘF UK Praha)

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- Pavlíková Michaela** The role of selected cell populations and molecules in inflammatory reaction and rejection of skin allograft
(Supervisor: Magdaléna Krulová; PŘF UK Praha)
- Peřinová Lucie** Modulation of properties of mesenchymal stem cells and their use for regulation of transplantation immunity
(Supervisor: Magdaléna Krulová; PŘF UK Praha)
- Žlabová Anna** Characterisation of the cell line TRAMP-C2, murine model of prostate cancer
(Supervisor: Milan Reiniš; PŘF UK Praha)

2013

- Dalibor Miklík** Functional genome analysis using the retroviral integration sites permissive for provirus expression in human cells
(Supervisor: Jiří Hejnar and Filip Šenigl, Faculty of Science, Charles University in Prague)
- Daniel Matějů** Functional analysis of hPrp8 mutations linked to retinitis pigmentosa
(Supervisor: Zuzana Cvačková, Faculty of Science, Charles University in Prague?)
- Martin Peterka** Characterization of TRAIL-induced, receptor-specific signalling in cancer cells
(Supervisor: Ladislav Anděra, Faculty of Science, Charles University in Prague)
- Terezie Imrichová** The response of metastatic prostate cancer cell lines to genotoxic stress
(Supervisor: Zdeněk Hodný, Faculty of Science, Charles University in Prague?)
- Klára Kotlabová** The role of Src-family kinases in the immunological synapse of antigen presenting cells
(Supervisor: Tomáš Brdička, Faculty of Science, Charles University in Prague)

2014

- Martina Benešová** Human endogenous retrovirus ERVWE1: transcriptional activation and modifications of promoter DNA methylation
(Supervisor: Kateřina Trejbalová, Faculty of Science, Charles University in Prague)
- Jan Valečka** Identification of a new mechanism of Lck regulation via its C-terminal sequence
(Supervisor: Dominik Filipp, Faculty of Science, Charles University in Prague)
- Matouš Vobořil** Aire-expressing cells in immune peripheral tissues
(Supervisor: Dominik Filipp, Faculty of Science, Charles University in Prague)
- Michaela Dvořáková** Molecular aspects of Cannabinoid receptor 1 signalling
(Supervisor: Jaroslav Blahoš, Faculty of Science, Charles University in Prague)
- Adriana Roithová** Transport of U2 snRNA to Cajal bodies
(Supervisor: David Staněk, Faculty of Science, Charles University in Prague)
- Oľga Babošová** Characterization of novel synthetic inhibitors and activators of the Wnt signalling pathway
(Supervisor: Vladimír Kořínek, Georg-August-Universität, Gottingen)
- Gita Nováková** Characterization of the role of senescence in the induction and regulation of cancer cell death
(Supervisor: Ladislav Anděra, Faculty of Science, Charles University in Prague)
- František Pešina** Comparison of the induction and regulation of autophagy in proliferating and senescent cancer cells
(Supervisor: Ladislav Anděra, Faculty of Science, Charles University in Prague)
- Veronika Machalová** The role of 5-azacytidine in therapy of myelodysplastic syndrome
(Supervisor: Zdeněk Hodný, Faculty of Science, Charles University in Prague)
- Jan Valášek** A potential role of DAXX in cell cycle arrest and cellular senescence
(Supervisor: Hana Hanzlíková, Faculty of Science, Charles University in Prague)

2015

- David Příklad** Study of replication and pathogenesis of retroviruses with extended host range
(Supervisor: Vladimír Pečenka, Faculty of Science, Charles University in Prague)
- Klára Klimešová** Mapping of SART3 interactions with spliceosomal snRNPs
(Supervisor: David Staněk, Faculty of Science, Charles University in Prague)
- Martina Slávková** Reporter expression system for study of silencing of provirus integrate inside transcriptionally active gene
(Supervisors: Jiří Hejnar, Filip Šenigl, Faculty of Science, Charles University in Prague)
- Jan Bartůněk** The methods of biomedical research in mapping genes that modify immunological parameters and in analysis of gene expression
(Supervisor: M. Lipoldová, The Czech Technical University)
- Karin Heyduková** The methods of biomedical research in analysis of influence of genetic background on functions of macrophages infected with parasite *Leishmania major*
(Supervisor: M. Lipoldová, The Czech Technical University)
- Tereza Pokorná** Methods of the genetic engineering for genetic and functional analysis of genes that modify response to parasite *Leishmania major*
(Supervisor: M. Lipoldová, The Czech Technical University)
- Michaela Vaškovičová** The Use of RNA Affinity Tags in RNA Biology
- Radek Jankele** TAL Effectors: Tools for DNA Targeting
- Eliška Linhartová** Mapping of genes modifying the subspecies-specific roles of the meiotic gene, *Prdm9*
- Lenka Kašíková** Charakterizace kandidátních genů hybridní sterility *Hstx1* a *Hstx2*
(Supervisors: Petr Jansa, Faculty of Science, Charles University in Prague)