

PhD theses

2009

- Gusareva Elena** Impact of genetic and environmental factors on development of atopy and allergic diseases in Czech and Russian populations (Supervisor: Marie Lipoldová; 3. LF UK Praha)
- Ivánek Robert** DNA microarrays and bioinformatics in biomedical research (Supervisors: Jiří Forejt, Stanislav Kmoch; PŘF UK Praha)
- Krejčířiková Veronika** Structural studies of mouse galectin-4 (Supervisor: Jiří Brynda; PŘF UK Praha)
- Mihola Ondřej** Positional cloning of Hst1 gene (Hybrid sterility 1) and molecular analysis of candidate genes (Supervisors: Zdeněk Trachtulec, Jiří Forejt; PŘF UK Praha)
- Růžičková Jana** Eye evolution and development: an insight from jellyfish and mouse (Supervisor: Zbyněk Kozmik; PŘF UK Praha)

2010

- Huranová Martina** Assembly and recycling of functional splicing complexes *in vivo* (Supervisor: David Staněk; PŘF UK Praha)
- Krejčík Zdeněk** Taurine-nitrogen utilized by bacteria: a diverse set of phenomena (Supervisor: Václav Pačes; VŠCHT, Praha)
- Mader Pavel** Structure, function and inhibition of human carbonic anhydrases (Supervisor: Jiří Brynda; 1. LF UK Praha)
- Manning Jasper** Epigenetic agents induce MHC class I surface expression on tumor cells and reexpress an aberrantly silent marker of myeloid neoplasms (Supervisor: Milan Reiniš; 1. LF UK Praha)
- Nováková Zora** Cytokine expression in chemically-induced senescence (Supervisor: Zdeněk Hodný; PŘF UK Praha)

Sedlák David Panels of steroid receptor reporter cell lines for compound profiling and development of selective ligands for oestrogen receptor α and β
(Supervisor: Petr Bartůňek; PŘF UK Praha)

Vopálenský Pavel Evolution of photoreceptors
(Supervisor: Zbyněk Kozmik; PŘF UK Praha)

2011

Brauer Rena Key role for matrix metalloproteinases-19 and -28 in maintenance of intestinal homeostasis
(Supervisor: Radislav Sedláček; lékařská fakulta, Universita v Kielu)

Dráber Peter Mechanisms of signal transduction by leUKocyte surface receptors and transmembrane adaptor proteins
(Supervisor: Tomáš Brdička; PŘF UK Praha)

Dupačová Naoko The role of Wnt signaling in embryonic development
(Supervisor: Zbyněk Kozmik; PŘF UK Praha)

Dzijak Rastislav Nuclear dynamics and interactions of myosin 1c
(Supervisor: Pavel Hozák; PŘF UK Praha)

Grekov Igor Experimental murine leishmaniasis and its application for drug discovery and study of pathogen-host interactions
(Supervisor: M. Lipoldová; 3. LF UK Praha)

Hnilicová Jarmila Regulation of splicing in the context of the cell nucleus
(Supervisor: David Staněk; PŘF UK Praha)

Hořejší Barbora Tubulin isotypes in cancerogenesis
(Supervisor: Pavel Dráber; PŘF UK Praha)

Klíma Martin Molecular and functional characterization of the death receptor 6
(Supervisor: Ladislav Anděra; PŘF UK Praha)

Kobets Tetyana Methods for *Leishmania* parasites detection and quantification as a tool for study of pathogen-vector-host interactions
(Supervisor: Marie Lipoldová; 3. LF UK Praha)

Matoušková Magda Mechanisms of endogenous retrovirus control in the host cell
(Supervisor: Jiří Hejnar; PŘF UK Praha)

Novotný Ivan	Formation of spliceosomal snRNPs in the cell nucleus (Supervisor: David Staněk; PŘF UK Praha)
Ormsby Tereza	Studies on immunoreceptor signaling molecules (Supervisor: Václav Hořejší; PŘF UK Praha)
Procházková Jana	The role of cytokines in development and differentiation of regulatory T cells (Supervisor: Vladimír Holáň; PŘF UK Praha)
Rohožková Jana	Molecular determination of plant/Potyvirus interaction. (Supervisor: Milan Navrátil; přírodovědecká fakulta, Univerzita Palackého, Olomouc)
Štěpánek Ondřej	Regulation of signal transduction by leUKocyte surface proteins (Supervisor: Tomáš Brdička; PŘF UK Praha)
 2012	
Fafílek Bohumil	Adjusting Wnt signalling – new regulatory mechanisms of the Wnt pathway (Supervisor: Vladimír Kořínek; PŘF UK Praha)
Flemr Matyáš	mRNA stability and microRNA activity in mouse oocytes. (Supervisor: Petr Svoboda; PŘF UK Praha)
Homolka David	Meiotic sex chromosome inactivation in mouse spermatogenesis (Supervisor Petr Jansa; PŘF UK Praha)
Hrdinka Matouš	The role of membrane microdomains and transmembrane adaptor proteins PRR7 and SCIMP in the regulation of immunoreceptor signaling (Supervisor: Karel Drbal; PŘF UK Praha)
Hroudová Miluše	Study of homeobox genes of the sweet water medusa <i>Craspedacusta sowerbyi</i> (Supervisor: Václav Pačes; VŠCHT Praha)
Hubáčková Soňa	DNA damage and signalling pathways in cellular senescence (Supervisor: Zdeněk Hodný; PŘF UK Praha)

Kumpošt Jiří	Metabotropic glutamate receptors and their associated proteins involved in signaling (Supervisor: Jaroslav Blahoš; PŘF UK Praha)
Moserová Irena	Molecular mechanisms of apoptosis induced by photodynamic activation in cancer cells (Supervisor: Jarmila Králová, PŘF UK Praha)
Moudrý Pavel	Posttranslational modifications in DNA damage response (Supervisor: Zdeněk Hodný; PŘF UK Praha)
Neuwirth Aleš	Defensins and autoimmunity: emerging α -defensin based models to study mechanisms underpinning autoimmune processes (Supervisor: Dominik Filipp; PŘF UK Praha)
Pajer Petr	From the search for new oncogenes to the effort of redefining the cancerogenesis phenomenon (Supervisor: Michal Dvořák, PŘF UK Praha)
Pokorná Kateřina	Pre-clinical model of acute promyelocytic leukemia: Study of the anti-leUKemic effect induced by ATRA and DNA vaccination (Supervisor: Vladimír Holáň; PŘF UK Praha)
Pospíchalová Vendula	Regulatory mechanisms of Wnt signalling (Supervisor: Vladimír Kořínek; PŘF UK Praha)
Tůmová Magda	Regulatory functions of the transmembrane adaptor protein NTAL in activation of mast cells (Supervisor: Petr Dráber; PŘF UK Praha)
Vinopal Stanislav	Functional characterization of selected microtubule regulatory proteins (Supervisor: Pavel Dráber; PŘF UK Praha)

2013

- Lukáš Jan** Molecular mechanisms of Wnt signalling in mammalian cells
(Supervisor: Vladimír Kořínek, Faculty of Science, Charles University in Prague)
- Bugajev Viktor** Identification and functional characterization of signalling microdomains important for mast cell activation
(Supervisor: Petr Dráber, Faculty of Science, Charles University in Prague)
- Horová Vladimíra** Mechanism, regulation and use of TRAIL-induced apoptosis in cancer cells
(Supervisor: Ladislav Anděra, Faculty of Science, Charles University in Prague)
- Nejepínská Jana** The effects of long double-stranded RNA expression in mammalian cells
(Supervisor: Petr Svoboda, Faculty of Science, Charles University in Prague)
- Kozmiková Iryna** Bmp signaling in the evolution of chordate axial patterning
(Supervisor: Zbyněk Kozmik, Faculty of Science, Charles University in Prague)
- Kosla Jan** Molecular mechanisms of fibroblastoid cell phenotype transitions: dedifferentiation of myofibroblasts and influencing of invasiveness and metastasis of sarcoma
(Supervisor: Michal Dvořák, Faculty of Science, Charles University in Prague)
- Čermák Vladimír** Regulation of transcription by proteins of the Early growth response and Myb families
(Supervisor: Michal Dvořák, Faculty of Science, Charles University in Prague)
- Yildirim Sukriye** Myosin-PIP2 interaction in the cell nucleus
(Supervisor: Pavel Hozák, Istanbul University)
- Venit Tomáš** Myosin 1c isoforms and their functions in the cell nucleus and in the cytoplasm
(Supervisor: Pavel Hozák, Faculty of Science, Charles University in Prague)

2014

Balounová Jana	Toll like receptors and myeloid cells in development and disease (Supervisor: Dominik Filipp, Faculty of Science, Charles University in Prague)
Yahya Sohrabi	Leishmania tropica: immunopathology and genetic control (Supervisor: Marie Lipoldová, Third faculty of Medicine, Charles University in Prague)
Hozeifi Samira	Regulation of alternative splicing via chromatin modifications (Supervisor: David Staněk, Faculty of Science, Charles University in Prague)
Kozáková (Dušková) Eva	Role of promoter in the regulation of alternative splicing (Supervisor: David Staněk, Faculty of Science, Charles University in Prague)
Krausová Michaela	Molecular mechanisms and components controlling the Wnt signalling pathway output (Supervisor: Vladimír Kořínek, Faculty of Science, Charles University in Prague)
Janečková Lucie	Wnt signalling in intestinal homeostasis and tumorigenesis (supervisor: Vladimír Kořínek, Faculty of Science, Charles University in Prague)
Polakovičová Iva	Multiple regulatory roles of the transmembrane adaptor protein NTAL in gene transcription and mast cell physiology (Supervisor: Petr Dráber, Faculty of Science, Charles University in Prague)
Pachl Petr	Structural and inhibition study of 5'(3')-nucleotidases (Supervisor: Jiří Brynda, The Institute of Chemical Technology, Prague)
Košař Martin	Mechanisms of replicative, drug- and oncogene-induced cellular senescence (Supervisor: Jiří Bartek, First faculty of Medicine, Charles University in Prague)
Burdová Kamila	Molecular mechanisms underlying maintenance of genome stability (Supervisor: Pavel Janščák, Faculty of Science, Charles University in Prague)

- Pombinho António** High-throughput screening for the discovery of small molecules modulating cell fate
(Supervisor: Petr Bartůněk, Faculty of Science, Charles University in Prague)
- Kalendová Alžběta** Functions of actin and myosin 1c in the cell nucleus and in the cytoplasm
(Supervisor: Pavel Hozák, Faculty of Science, Charles University in Prague)
- Philimonenko Anatoly** Development of ultrastructural methods and their application in studies of the cell nucleus
(Supervisor: Pavel Hozák, Faculty of Science, Charles University in Prague)
- 2015**
- Dobeš Jan** The role of enteric alpha-defensin expression in the establishment of central and peripheral tolerance
(Supervisor: Dominik Filipp, Faculty of Science, Charles University in Prague)
- Stejskalová Eva** Formation of splicing machinery in the context of the cell nucleus
(Supervisor: David Staněk, Faculty of Science, Charles University in Prague)
- Marášek Pavel** Localization matters: function of paxillin and phospholipids in the cell nucleus
(Supervisor: Pavel Hozák, The Institute of Chemical Technology, Prague)
- Bruščíková Kateřina** Development of chemical regulators of microRNA and RNAi pathways
(Supervisor: Petr Svoboda, Faculty of Science, Charles University in Prague)
- Škerlová Jana** Understanding the interaction of antibodies and transcription factors with their ligands through structural biology
(Supervisor: Pavlína Řezáčová, Faculty of Science, Charles University in Prague)

- Drobek Aleš** Regulation of leukocyte signal transduction by adapter proteins with special focus on Csk anchoring proteins
(Supervisor: Tomáš Brdička, Faculty of Science, Charles University in Prague)
- Kyjacová Lenka** Mechanismus nádorové rezistence
(Supervisor: Zdeněk Hodný, Faculty of Science, Charles University in Prague)
- Svoboda Ondřej** Nové regulátory směřování do megakaryocytární a erythroidní linie
(Supervisor: Petr Bartůněk, Faculty of Science, Charles University in Prague)