

Contact Information:

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Laboratory of Transgenic models of diseases
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Work Experience

- 2019 (Feb-Jul) **Research Associate**, Brakebusch Group, BRIC, University of Copenhagen
Methods: Western Blot, qPCR, cell cultures, primary keratinocyte culture, molecular cloning, IF
- 2008 – present **Research Associate**, Laboratory of Transgenic models of diseases, Institute of Molecular Genetics, Prague
Methods: Western Blot, qPCR, FACS, cell cultures, mouse models, molecular cloning, lentivirus production, IHC
- 2006 – 2008 **Research Associate**, Laboratories of Molecular and Cell Biology, Department of Pneumology and Thoracic Surgery, Third Faculty of Medicine, Charles University in Prague, and Hospital Bulovka, Prague
Methods: Western Blot, qPCR, cell cultures

Education

- 2009 – now **PhD studies in Molecular and Cell biology, Genetics and Virology**,
Faculty of Natural Sciences - Charles University in Prague
Institute of Molecular Genetics, Prague (2015-2020 interrupted due to maternity leave)
- 2004 – 2006 **Master studies in Biochemistry and Biotechnology**
Faculty of Chemical and Food Technology - Slovak University of Technology in Bratislava, Slovak Republic (Diploma, 1.0 “with distinction”)
- 2001 – 2004 **Bachelor studies in Food Technology and Biotechnology**
Faculty of Chemical and Food Technology - Slovak University of Technology in Bratislava, Slovak Republic (Diploma, 1.0 “with distinction”)

Teaching Experience

- 2007-2008 Seminars for medical doctors (2 p.a.), topic: Apoptosis

Publications:

Publications that form basis for disertation thesis:

Müller M, Wetzel S, Köhn-Gaone J, Chalupsky K, Lüllmann-Rauch R, Barikbin R, Bergmann J, Wöhner B, **Zbodakova O**, Leuschner I, Martin G, Tiegs G, Rose-John S, Sedlacek R, Tirnitz-Parker JE, Saftig P, Schmidt-Arras D: A disintegrin and metalloprotease 10 (ADAM10) is a central regulator of murine liver tissue homeostasis. *Oncotarget*. 2016, 7(14):17431-41.

Buryova H, Chalupsky K, **Zbodakova O**, Kanchev I, Jirouskova M, Gregor M, Sedlacek R: Liver protective effect of ursodeoxycholic acid includes regulation of ADAM17 activity. *BMC Gastroenterol*. 2013, 13:155.

Chalupský K, Kanchev I, **Žbodáková O**, Buryová H, Jiroušková M, Kořínek V, Gregor M, Sedláček R: ADAM10/17-dependent release of soluble c-Met correlates with hepatocellular damage. *Folia Biol (Praha)*. 2013, 59(2):76-86.

Jirouskova M and **Zbodakova O**, Gregor M, Chalupsky K, Sarnova L, Hajduch M, Ehrmann J, Jirkovska M, Sedlacek R: Hepatoprotective effect of MMP-19 deficiency in a mouse model of chronic liver fibrosis. *PLoS One*. 2012, 7(10).

Other publications:

Horn M and **Zbodakova O**, Kasperek P, Srp J, Haneckova R, Hradilek M, Mares M, Sedlacek R: Profiling system for skin kallikrein proteolysis applied in gene-deficient mouse models. *Biol Chem*. 2018, 399(9):1085-1089.

Magnen M, Elsässer BM, **Zbodakova O**, Kasperek P, Gueugnon F, Petit-Courty A, Sedlacek R, Goettig P, Courty Y: Kallikrein-related peptidase 5 and seasonal influenza viruses, limitations of the experimental models for activating proteases. *Biol Chem*. 2018, 399(9):1053-1064.

Zbodakova O, Chalupsky K, Tureckova J, Sedlacek R: Metalloproteinases in liver fibrosis: current insights. *Metalloproteinases in medicine* 2017, 4:25-35

Kasperek P, Ileninova Z, **Zbodakova O**, Kanchev I, Benada O, Chalupsky K, Brattsand M, Beck IM, Sedlacek R: KLK5 and KLK7 Ablation Fully Rescues Lethality of Netherton Syndrome-Like Phenotype. *PLoS Genet*. 2017, 13(1).

Brauer R, Tureckova J, Kanchev I, Khoylou M, Skarda J, Prochazka J, Spoutil F, Beck IM, **Zbodakova O**, Kasperek P, Korinek V, Chalupsky K, Karhu T, Herzig KH, Hajduch M, Gregor M, Sedlacek R: MMP-19 deficiency causes aggravation of colitis due to defects in innate immune cell function. *Mucosal Immunol*. 2016, 9(4):974-85.

Kasperek P, Krausova M, Haneckova R, Kriz V, **Zbodakova O**, Korinek V, Sedlacek R: Efficient gene targeting of the Rosa26 locus in mouse zygotes using TALE nucleases. *FEBS Lett*. 2014, 588(21):3982-8.

MSc. Diploma thesis: **Zbodakova O**: Sensitization of tumor cells by new MRP inhibitors. (*in Slovak language*) Slovak University of Technology in Bratislava, 2006

Conference Contributions:

O. Zbodakova, K. Chalupsky, L. Sarnova, M. Jirouskova, M. Gregor and R. Sedlacek: „Hepatocyte-derived ADAM10 and ADAM17 modulate liver regeneration on several levels”, IPS 2019, Mariánské Lázně, Czech Republic – **poster presentation and flash talk**

Zbodakova O, Kasperek P, Ileninova Z, Sedlacek R: „Skin barrier defects and hair abnormalities caused *Sink5* deficiency develops through independent mechanisms”, GRC Barrier Function of mammalian skin, 2017, Waterville Valley, USA – **poster presentation**

Zbodakova O, Gregor M, Jirouskova M, Chalupsky K, Sarnova L, Hajduch M, Ehrmann J, Jirkovska M, Sedlacek R: “Hepatoprotective effect of MMP-19 deficiency in a mouse model of chronic liver fibrosis”, GRC Matrix Metalloproteinases, 2013, Luca (Barga), Italy – **poster presentation**

Zbodakova O, Krepela E, Prochazka J, Cermak J, Benková K: “Expression of DNA fragmentation factor subunits in lung cancer cells and tissues”, XXI. Biochemický sjezd CSBMB a SSBMB, 2008, Ceske Budejovice, Czech Republic – **poster presentation**