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Place of birth: Dunajská Streda, Slovak republic; Nationality: Slovak;

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Professional curriculum vitae

Education

2007-2009 BSc., Biology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

2009-2011 MSc., Molecular Biology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

2011-2015 PhD, Normal and pathological physiology, Institute of Patophysiology, Faculty of Medicine, Comenius University, Bratislava, Slovakia

2012-2013 Visiting scientist at Division of Nephrology, RWTH University of Aachen, Germany

2018 Visiting scientist at INSERM UMRS 1155, Tenon Hospital, Paris, France

- Era-Edta Young Fellowship Winner

Employment

2014-2015 Scientist at the Center of molecular medicine, Slovak Academy of Sciences, Bratislava, Slovakia

09/2015- Scientist at the Institute of Molecular Biomedicine, Medical faculty, Comenius University in Bratislava, Bratislava, Slovakia

03/2017- Scientist at the Department of Clinical Medicine, University of Bergen, Bergen, Norway

Teaching

Faculty of Natural Sciences – Basics of theoretical and experimental medicine, Progress in molecular biology, currently tutoring 1 MSc student, 1 PhD student

Grants as principal investigator:

Comenius University grants

UK/430/2014

Using in vivo phage display to search for organ specific homing sequences in an animal model of renal fibrosis

UK/315/2015

The role of estradiol and estrogen receptors in colitis

UK/374/2016

Extracellular DNA and the kidneys: The concentration and the role in the pathophysiology of kidney diseases

Publications

Summary to 05.09.2018

CC/IF publications: 26

SCI citations: 157

Hirsch index: 8

5 most important publications

Bábíčková J, Klinkhammer BM, Buhl EM, Djudjaj S, Hoss M, Heymann F, Tacke F, Floege J, Becker, Boor P: Ultrastructural and functional alterations of peritubular capillaries in progressiverenal disease. *Kidney Int*, 91(1):70-85, 2017

Bábíčková J, Tothova L, Boor P, Celec P: In vivo phage display - A discovery tool in molecular biomedicine. *Biotechnology Advances*, 31 (8): 1247-1259, 2013

Ehling J, **Bábíčková J**, Gremse F, Klinkhammer BM, Baetke S, Knuechel R, Kiessling F, Floege J, Lammers T, Boor P: Quantitative Micro-Computed Tomography Imaging of Vascular Dysfunction in Progressive Kidney Diseases. *J Am Soc Nephrol*, 27(2): 520-532, 2015

Buhl EM, Djudjaj S, **Bábíčková J**, Klinkhammer BM, Folestad E, Borkham-Kamphorst E, Weiskirchen R, Hudkins K, Alpers CE, Eriksson U, Floege J, Boor P: The role of PDGF-D in healthy and fibrotic kidney. *Kidney Int*, 89 (4): 848-61, 2016

Bábíčková J, Tóthová Ľ, Lengyelová E, Bartoňová A, Hodosy J, Gardlík R, Celec P: Sex Differences in Experimentally Induced Colitis in Mice: a Role for Estrogens. *Inflammation*, 38(5):1996-2006, 2015

Publication list

Celec P, Vlková B, Lauková L, **Bábíčková J**, Boor P: Extracellular DNA – role in pathophysiology and as a biomarker in kidney diseases. *Expert Rev Mol Med*, 20:e1, 2018

Bábíčková J, Klinkhammer BM, Buhl EM, Djudjaj S, Hoss M, Heymann F, Tacke F, Floege J, Becker, Boor P: Ultrastructural and functional alterations of peritubular capillaries in progressiverenal disease. *Kidney Int*, 91(1):70-85, 2017

Bábíčková J, Čonka J, Janovičová L, Boriš M, Konečná B, Gardlík R: Extracellular DNA as a Prognostic and Therapeutic Target in Mouse Colitis under DNase I Treatment. *Folia Biol (Praha)*, 64(1):10-15, 2018

Gyurászová M, Kovalčíková A, Bábíčková J, Hodosy J, Tóthová L: Cell free nucleic acids in urine as potential biomarkers of kidney disease; *Journal of Applied Biomedicine*, 16(3): 157-164, 2018

Borbélyová V, Domonkos E, **Bábíčková J**, Tothova L, Kačmárová M, Uličná O, Ostatníková D, Hodosy J, Celec P: Does long-term androgen deficiency lead to metabolic syndrome in aged rats? *Experimental Gerontology*, 98: 38-46, 2017

Lauková L, Konečná B, **Bábíčková J**, Wagnerová A, Melišková V, Celec P, Vlková B: Exogeneous deoxyribonuclease has a protective effect in a mouse model of sepsis. *Biomed Pharmacother*, 93:8-16, 2017

Vokálová, Lauková L, Čonka J, Melišková V, Borbélyová V, **Bábíčková J**, Tóthová L, Hodosy J, Vlková B, Celec P: Deoxyribonuclease partially ameliorates thioacetamide-induced hepatorenal injury. *Am J Physiol Gastrointest Liver Physiol*, 312(5):G457-G463, 2017

Borbélyová V Domonkos E, **Bábíčková J**, Tóthová L, Bosý M, Hodosy J, Celec P: No effect of testosterone on behavior in aged Wistar rats. *Aging*, 8(11):2848-2861, 2016

Wagnerová A, **Bábíčková J**, Lipták R, Celec P, Gardlík R: Beneficial effects of live and death Salmonella-based vector strain on the course of colitis in mice. *Lett Appl Microbiol*, 63(5):340-346, 2016

Wagnerová A, **Bábíčková J**, Lipták R, Celec P, Vlková B, Gardlík R: Sex differences in the effect of Resveratrol on DSS-Induced Colitis in Mice. *Gastroenterol Res Pract*, Epub 2017

Buhl EM, Djudjaj S, **Bábíčková J**, Klinkhammer BM, Folestad E, Borkham-Kamphorst E, Weiskirchen R, Hudkins K, Alpers CE, Eriksson U, Floege J, Boor P: The role of PDGF-D in healthy and fibrotic kidney. *Kidney Int*, 89 (4): 848-61, 2016

Janšáková K, **Bábíčková J**, Havrlentova M, Hodosy J, Kraic J, Celec P, Tothova L: The effects of anthocyanin-rich wheat diet on the oxidative status and behavior of rats. *Croat Med J*, 57 (2): 119-29, 2016

Ehling J, **Bábíčková J**, Gremse F, Klinkhammer BM, Baetke S, Knuechel R, Kiessling F, Floege J, Lammers T, Boor P: Quantitative Micro-Computed Tomography Imaging of Vascular Dysfunction in Progressive Kidney Diseases. *J Am Soc Nephrol*, 27(2): 520-532, 2015

Boor P, **Bábíčková J**, Steegh F, Hautvast P, Martin IV, Djudjaj S, Nakagawa T, Ehling J, Gremse F, Bucher E, Eriksson U, van Roeyen CR, Eitner F, Lammers T, Floege J, Peutz-Kootstra CJ, Ostendorf T: Role of Platelet-Derived Growth Factor-CC in Capillary Rarefaction in Renal Fibrosis. *Am J Pathol*, doi: 10.1016/j.ajpath.2015.04.022.

Bábíčková J, Tóthová L, Lengyelová E, Bartoňová A, Hodosy J, Gardlík R, Celec P: Sex Differences in Experimentally Induced Colitis in Mice: a Role for Estrogens. *Inflammation*, 38(5):1996-2006, 2015

Bábíčková J, Gardlik R: Pathological and therapeutic interactions between bacteriophages, microbes and the host in inflammatory bowel disease. *World J Gastroenterol*, 21 (40): 11321-30, 2015

Filova B, Malinova M, **Bábíčková J**, Tothova L, Ostatnikova D, Celec P, Hodosy J: Effects of testosterone and estradiol on anxiety and depressive-like behavior via a non-genomic pathway. *Neuroscience Bulletin*, 31(3):288-96, 2015

Filová B, Domonkos, Borbélyová V, **Bábíčkova J**, Tóthová L, Ostatníková D, Celec P, Hodosy J. Does the non-genomic effect of testosterone on social anxiety require the presence of a classical steroid receptor? **Acta Neurobiol Exp (Wars)**, 75(4): 457-61, 2015

Bábíčkova J, Borbélyová V, Tóthová L, Kubišová K, Janega P, Hodosy J, Celec P: The renal effects of prenatal testosterone in rats. *Journal of Urology*, 193(5):1700-8, 2015

Tothova L, **Bábíčkova J**, Borbelyova V, Filova B, Sebekova K, Hodosy J: Chronic renal insufficiency does not induce behavioral and cognitive alteration in rats. *Physiology and Behavior*, 138: 133-140, 2015

Janšáková K, **Bábíčkova J**, Filová B, Lengyelová E, Havrlentová M, Kraic J, Celec P, Tóthová L: Anthocyanin – Rich Diet in Chemically Induced Colitis in Mice. *Folia Biol (Praha)*, 61(3): 104-109, 2015

Bábíčkova J, Tothova L, Boor P, Celec P: In vivo phage display - A discovery tool in molecular biomedicine. *Biotechnology Advances*, 31 (8): 1247-1259, 2013

Tothova L, Hodosy J, Mettenburg K, Fabryova H, Wagnerova A, **Bábíčkova J**, Okuliarova M, Zeman M, Celec P: No harmful effect of different Coca-cola beverages after 6 months of intake on rat testes. *Food and Chemical Toxicology*, 31 (62): 343-348, 2013

Tothova L, **Bábíčkova J**, Celec P: Phage Survival: the biodegradability of M13 phage display library in vitro. *Biotechnology and Applied Biochemistry*, 59: (6) 490-494, 2012

Tothova L, **Bábíčkova J**, Celec P: The effects of antioxidative additives on electroporation efficacy. *Gene Therapy and Molecular Biology*, 14: 42-48, 2012

Tothova L, Celec P, **Bábíčkova J**, Gajdosova J, Al-Alami H, Kamodyova N, Drahovska H, Liptakova A, Turna J, **Hodosy J**: Phage therapy of Cronobacter-induced urinary tract infection in mice. *Medical Science Monitor*, 17 (7): 173-178, 2011