

List of Research Outputs

WOS Publications 2007:

1. ATHEA, Yoni - VIOLLET, Benoit - MATEO, Philippe - ROUSSEAU, Delphine - **NOVOTOVÁ, Marta** - GARNIER, Anne - VAULONT, Sophie - WILDING, James R. - GRYNBERG, Alain - VEKSLER, Vladimir - HOERTER, Jacqueline - VENTURA-CLAPIER, Renee. AMP-activated protein kinase alpha 2 deficiency affects cardiac cardiolipin homeostasis and mitochondrial function. In DIABETES, 2007, vol. 56, iss. 3, p. 786-794. ISSN 0012- (7.955 – IF2006)
2. BELEVYCH, Andriy E. - **KUBALOVÁ, Zuzana** - TEREPTYEV, D. - HAMLIN, Robert L. - CARNES, Cynthia A. - GYORKE, S. Enhanced ryanodine receptor-mediated calcium leak determines reduced sarcoplasmic reticulum calcium content in chronic canine heart failure. In Biophysical Journal, 2007, vol. 93, no., p. 4083-4092. ISSN 0006-3495 (4.757 – IF2006)
3. **BREZOVÁ, Anna** - HEIZMANN, C W - **UHRÍK, Branislav**. Immunocytochemical localization of S100A1 in mitochondria on cryosections of the rat heart. In General physiology and biophysics, 2007, vol. 26, issue 2, p.143-149. (0.771 – IF2006)
4. BRTKO, Július - ROCK, E. - NEZBEDOVÁ, P. - **KRIŽANOVÁ, Oľga** - DVORČÁKOVÁ, M. - MINET - QUINARD, R - FARGES, M. C. - RIBALTA, J. - WINKLOHOFER - ROOB, B.M. - VASSON, M.P. - MACEJOVÁ, Dana. Age-related change in the retinoid X receptor beta gene expression in peripheral blood mononuclear cells of healthy volunteers: Effect of 13-cis retinoic acid supplementation. In Mechanisms of Ageing and Development, 2007, vol. 128, issue 11 - 12, p.594-600. ISSN 0047-6374. (3.846 – IF2006)
5. HERICHOVÁ, Iveta - MRAVEC, Boris - STEBELOVÁ, Katarína - **KRIŽANOVÁ, Oľga** - **JURKOVIČOVÁ, Dana** - KVETŇANSKÝ, Richard - ZEMAN, Michal. Rhythmic clock gene expression in heart, kidney and some brain nuclei involved in blood pressure control in hypertensive TGR(mREN-2)27 rats. In Molecular and Cellular Biochemistry, 2007, vol. 296, iss. 1 - 2, p. 25-34. ISSN 0300-8177. (1.862 – IF2006)
6. **HUDECOVÁ, Soňa** - KUBOVČÁKOVÁ, Lucia - KVETŇANSKÝ, Richard - KOPÁČEK, Juraj - PASTOREKOVÁ, Silvia - NOVÁKOVÁ, Martina - KNEZL, Vladimír - **TARABOVÁ, Bohumila** - **LACINOVÁ, Ľubica** - **SULOVÁ, Zdena** - **BREIER, Albert** - **JURKOVIČOVÁ, Dana** - **KRIŽANOVÁ, Oľga**. Modulation of expression of Na⁺/Ca²⁺ exchanger in heart of rat and mouse under stress. In Acta Physiologica, 2007, vol. 190, no. 2, p. 127-136. ISSN 1748-1708. (2.230 – IF2006)
7. JAVORSKÝ, Martin - TKÁČ, Ivan - GAŠPERÍKOVÁ, Daniela - UKROPEC, Jozef - **SEDLÁKOVÁ, Barbora** - RIEČANSKÝ, Igor - ŠEBŮKOVÁ, Elena - **KRIŽANOVÁ, Oľga** - DOBRIKOVÁ, Martina - KLIMEŠ, Iwar. Lipoprotein lipase HindIII polymorphism influences HDL-cholesterol levels in statin-treated patients with coronary artery disease. In Wiener klinische Wochenschrift : the middle european journal of medicine, 2007, vol. 119, iss. 15-16, p. 476-482. ISSN 0043-5325 (0.804 – IF2006)
8. **JURKOVIČOVÁ, Dana** - KOPÁČEK, Juraj - ŠTEFÁNIK, Peter - KUBOVČÁKOVÁ, Lucia - **ZAHRADNÍKOVÁ, Alexandra, ml.** - **ZAHRADNÍKOVÁ, Alexandra** - PASTOREKOVÁ, Silvia - **KRIŽANOVÁ, Oľga**. Hypoxia modulates gene expression of IP3 receptors in rodent cerebellum. In Pflugers Archiv-European Journal of Physiology, 2007, vol. 454, no. 3, p. 415-425. ISSN 0031-6768. (4.807 - IF2006).

9. **JURKOVIČOVÁ, Dana - SEDLÁKOVÁ, Barbora - RIEČANSKÝ, I. - GONCALVESOVA, E. - PENESOVÁ, Adela - KVETŇANSKÝ, Richard - KRIŽANOVÁ, Oľga.** Cardiovascular diseases and molecular variants of the renin-angiotensin system components in Slovak population. In *General physiology and biophysics*, 2007, vol. 26, iss. 1, p. 27-32. ISSN 0231-5882 (0.771 – IF2006)
10. KAPLÁN, Peter - **JURKOVIČOVÁ, Dana - BABUŠÍKOVÁ, Eva - HUDECOVÁ, Soňa - RACAY, P. - SIROVA, Marta - LEHOTSKÝ, Ján - DRGOVA, A. - KRIŽANOVÁ, Oľga.** Effect of aging on the expression of intracellular Ca²⁺ transport proteins in a rat heart. In *Molecular and Cellular Biochemistry*, 2007, vol. 301, issue 1 - 2, p. 219-226. ISSN 0300-8177 (1.862 – IF2006)
11. KOSZELA - PIOTROWSKA, Izabela - CHROMA, Katarzyna - BEDNARCZYK, Piotr - DOLOWY, Krzysztof - SZEWCZYK, Adam - KUNZ, Wolfram S - **MÁLEKOVÁ, Ľubica - KOMÍNKOVÁ, Viera - ONDRIAŠ, Karol.** Stilbene derivatives inhibit the activity of the inner mitochondrial membrane chloride channels. In *Cellular and Molecular Biology Letters*, 2007, vol. 12, issue 4, p. 493-508 (1.238 - IF2006)
12. **KRIŽANOVÁ, Oľga - MYSLIVEČEK, Jaromír - TILLINGER, A. - JURKOVIČOVÁ, Dana - KUBOVČÁKOVÁ, Lucia.** Adrenergic and calcium modulation of the heart in stress: From molecular biology to function. In *Stress : the international journal on the biologie of stress*, 2007, vol. 10, iss. 2, p. 173-184. ISSN 1025-3890 (3.200 – IF2006)
13. **KUREJOVA, Martina - PAVLOVIČOVÁ, Michaela - LACINOVÁ, Ľubica.** Monovalent currents through the T-type Ca(v)3.1 channels and their block by Mg²⁺. In *General physiology and biophysics*, 2007, vol. 26, issue 3, p. 234-239. ISSN 0231-5882. (0.771 - IF2006)
14. **KUREJOVÁ, Martina - LACINOVÁ, Ľubica - PAVLOVIČOVÁ, Michaela - ESCHBACH, M. - KLUGBAUER, Norbert.** The effect of the outermost basic residues in the S4 segments of the Ca(V)3.1 T-type calcium channel on channel gating. In *Pflugers Archiv-European Journal of Physiology*, 2007, vol. 455, issue 3, p. 527-539. ISSN 0031-6768 (4.807 – IF2006)
15. **KUREJOVA, Martina - UHRÍK, Branislav - SULOVÁ, Zdena - SEDLÁKOVÁ, Barbora - KRIŽANOVÁ, Oľga - LACINOVÁ, Ľubica.** Changes in ultrastructure and endogenous ionic channels activity during culture of HEK 293 cell line. In *European Journal of Pharmacology*, 2007, vol. 567, iss. 1-2, p. 10-18. ISSN 0014-2999 (2.522 – IF2006)
16. **MÁLEKOVÁ, Ľubica - KOMÍNKOVÁ, Viera - FERKO, Miroslav - ŠTEFÁNIK, Peter - KRIŽANOVÁ, Oľga - ZIEGELHÖFFER, Attila - SZEWCZYK, Adam - ONDRIAŠ, Karol.** Bongkrekic acid and atractyloside inhibits chloride channels from mitochondrial membranes of rat heart. In *Biochemica et Biophysica Acta*, 2007, vol. 1767, s. 31- 44, (4.237 – IF2006)
17. **MÁLEKOVÁ, Ľubica - TOMÁŠKOVÁ, Jana - NOVÁKOVÁ, Martina - ŠTEFÁNIK, Peter - KOPÁČEK, Juraj - LAKATOŠ, B. - PASTOREKOVÁ, Silvia - KRIŽANOVÁ, Oľga - BREIER, Albert - ONDRIAŠ, Karol.** Inhibitory effect of DIDS, NPPB, and phloretin on intracellular chloride channels. In *Pflugers Archiv-European Journal of Physiology*, 2007, vol. 455, no. 2, p. 349-357. ISSN 0031-6768. (4.807 - IF2006).
18. **NOVAK, Pavel – GABURJAKOVA, Marta – ZAHRADNIK, Ivan.** BLM Analyzer: a software tool for experiments on planar lipid bilayers. In *BioTechniques Vol. 42*, 2007, no. 3, p. 335-341, ISSN 0736-6205 (2.460 - IF2006)
19. NOVÁKOVÁ, M. - BRUDEROVÁ, V. - **SULOVÁ, Zdena - KOPÁČEK, Juraj - LACINOVÁ, Ľubica - KVETŇANSKÝ, Richard - VASKU, A. - KAPLÁN, Peter - KRIŽANOVÁ, Oľga - JURKOVIČOVÁ, Dana.** Modulation of expression of the sigma receptors in the heart of rat and mouse in normal and pathological conditions. In

- General physiology and biophysics : international journal, 2007, vol. 26, no.2, p. 110-117. ISSN 0231-5882. (0.771 - IF2006)
20. **POLÁKOVÁ, Helena** - KATRINCSAKOVA, B. - MINÁRIK, G. - FERÁKOVÁ, E. - **FICEK, Andrej** - BALDOVIC, M. - **KÁDAŠI, Ľudevít**. Detection of His1069Gln mutation in Wilson disease by bidirectional PCR amplification of specific alleles (BI-PASA) test. In General physiology and biophysics : an international journal, 2007, vol. 26, no. 2, p. 91-96. ISSN 0231-5882. (0.771 - IF2006)
 21. **TARABOVÁ, Bohumila** - **LACINOVÁ, Ľubica** - ENGEL, Jutta. Effects of phenylalkylamines and benzothiazepines on Ca(v)1.3-mediated Ca²⁺ currents in neonatal mouse inner hair cells. In European Journal of Pharmacology, 2007, vol. 573, iss. 1-3, p. 39-48. ISSN 0014-2999. (2.522 – IF2006)
 22. **TOMÁŠKOVÁ, Zuzana** - **GABURJÁKOVÁ, Jana** - **BREZOVÁ, Anna** - **GABURJÁKOVÁ, Marta**. Inhibition of anion channels derived from mitochondrial membranes of the rat heart by stilbene disulfonate-DIDS. In Journal of Bioenergetics and Biomembranes, 2007, vol. 39, iss. 4, p. 301-311. ISSN 0145-479X. (3.16- IF2006)
 23. **VALENT, Ivan** - **ZAHRADNÍKOVÁ, Alexandra** - **PAVELKOVÁ, Jana** - **ZAHRADNÍK, Ivan**. Spatial and temporal Ca²⁺, Mg²⁺, and ATP(2-) dynamics in cardiac dyads during calcium release. In Biochimica et Biophysica Acta : biomembranes, 2007, vol. 1768, p. 155-166. ISSN 0005-2736 (3.587 – IF2006)
 24. **ZAHRADNÍKOVÁ, Alexandra, ml.** - **POLÁKOVÁ, Eva** - **ZAHRADNÍK, Ivan** - **ZAHRADNÍKOVÁ, Alexandra**. Kinetics of calcium spikes in rat cardiac myocytes. In Journal of Physiology, 2007, vol. 578, iss. 3, p. 677-691. ISSN 0022-3751, (4.407 – IF2006)
 25. **ZAHRADNÍKOVÁ, Alexandra** - **MINAROVÍČ, Igor** - **ZAHRADNÍK, Ivan**. Competitive and cooperative effects of bay k8644 on the L-type calcium channel current inhibition by calcium channel antagonists. In Journal of Pharmacology and Experimental Therapeutics, 2007, vol. 322, iss. 2, p. 638-645. ISSN 0022-3565 (3.956 – IF2006)
 26. ZMETAKOVA, I. - FERÁK, Vladimír - MINÁRIK, G. - **FICEK, Andrej** - **POLÁKOVÁ, Helena** - FERÁKOVÁ, E. - **KÁDAŠI, Ľudevít**. Identification of the deletions in the UGT1A1 gene of the patients with Crigler-Najjar syndrome type I from Slovakia. In General physiology and biophysics : an international journal, 2007, vol. 26, no. 4, p. 306-310. ISSN 0231-5882. (0.771 - IF2006)
 27. ZURMANOVA, Jitka - DIFATO, Francesco - MALACOVA, Daniela - MEJSNAR, Jiri - STEFL, Bohumir - **ZAHRADNÍK, Ivan**. Creatine kinase binds more firmly to the M-band of rabbit skeletal muscle myofibrils in the presence of its substrates. In Molecular and Cellular Biochemistry, 2007, vol. 305, iss. 1-2, p. 55-61. ISSN 0300-8177 (1.862 - IF2006)

Chapters in monographs published in Slovakia 2008:

1. **ONDRIAS, Karol.** Trends in pharmacological research – contribution from studies of the membrane transport and cell signaling. In “Trends in pharmacological research”, Ed.: V. Bauer, Publ.: Institute of Experimental Pharmacology, SASc. Bratislava 2008, pp. 96-101

WOS Publications 2008:

1. FISHER, V. - GABAUER, I. - TILLINGER, A. - NOVÁKOVÁ, M. - PECHÁŇ, Ivan - **KRIŽANOVÁ, Oľga** - KVETŇANSKÝ, Richard - MYSLIVEČEK, Jaromír. Heart adrenoceptors gene expression and binding sites in human failing heart. In ANNALS NEW YORK ACADEMY OF SCIENCES, 2008, vol. 1148, p. 400-408. (1.731 - IF2007)
2. JOUBERT, Frederic - WILDING, James R - FORTIN, Dominique - DOMERGUE-DUPONT, Valerie - **NOVOTOVÁ, Marta** - VENTURA-CLAPIER, Renee - VEKSLER, Vladimír. Local energetic regulation of sarcoplasmic and myosin ATPase is differently impaired in rats with heart failure. In Journal of Physiology, 2008, vol. 586, iss. 21, p. 5181-5192. ISSN 0022-3751, (4.580 - IF2007).
3. **GABURJÁKOVÁ, Marta** - **GABURJÁKOVÁ, Jana.** Effect of luminal Ca(2+) on the stability of coupled gating between ryanodine receptors from the rat heart. In Acta Physiologica, 2008, vol. 193, issue 3, p.219-227. ISSN 1748-1708, (1.602 - IF2007)
4. **JURKOVIČOVÁ, Dana** - **SEDLÁKOVÁ, Barbora** - **LACINOVÁ, Ľubica** - KOPÁČEK, Juraj - **SULOVA, Zdena** - SEDLÁK, Ján - **KRIŽANOVÁ, Oľga.** Hypoxia differently modulates gene expression of inositol 1, 4, 5 - trisphosphate receptors in mouse kidney and HEK 293 cell line. In Stress, Neurotransmitters and hormones: Neuroendocrine and genetic mechanisms Book of Series: Annals of the New York Academy of Sciences, 2008, vol. 1148, p. 421- 427. ISSN 0077-8923. (1.731 - IF2007).
5. KOLESÁR, P. - MINÁRIK, G. - BALDOVIC, M. - **FICEK, Andrej** - KOVACS, L. - **KÁDAŠI, Ľudevít.** Mutation analysis of the CFTR gene in Slovak cystic fibrosis patients by DHPLC and subsequent sequencing: identification of four novel mutations. In General physiology and biophysics : an international journal, 2008, vol. 27, no. 4, p. 299-305. ISSN 0231-5882. (1.286 - IF2007)
6. **KRIŽANOVÁ, Oľga** - HOLOTŇÁKOVÁ, Terézia - **JURKOVIČOVÁ, Dana** - **POLÁKOVÁ, Eva** - **ZAHRADNÍKOVÁ, Alexandra** - **LACINOVÁ, Ľubica** - KVETŇANSKÝ, Richard - MYSLIVEČEK, Jaromír - PASTOREKOVÁ, Silvia. Type 1 and 2 IP3 receptors respond differently to catecholamines and stress. In Annals of the New York Academy of Sciences, 2008, vol. 1148, p. 331-337. ISSN 0077-8923. (1.731 - IF2007)
7. KRSKOVA-TYBITANCLOVA, Katarína - MACEJOVÁ, Dana - BRTKO, Július - BACULÍKOVÁ, Martina - **KRIŽANOVÁ, Oľga** - ZÓRAD, Štefan. Short term 13-cis-retinoic acid treatment at therapeutic doses elevates, expression of leptin, glut 4, ppar gamma and AP2 in rat adipose tissue. In Journal of Physiology and Pharmacology, 2008, vol. 59, iss 4., p. 731-743. ISSN 0867-5910. (4.466 - IF2007).
8. **LACINOVÁ, Ľubica** - MOOSMANG, Sven - LANGWIESER, Nikole - HOFMANN, Franz - KLEPPISCH, Thomas. Ca(v)1.2 calcium channels modulate the spiking pattern of hippocampal pyramidal cells. In Life Sciences, 2008, vol. 82, issue 1 - 2, p. 41-49. ISSN 0024-3205. (2.257 - IF2007).
9. LEHOCKÝ, I. - BALDOVIČ, M. - **KÁDAŠI, Ľudevít** - MESTSPALU, E. A database of mitochondrial DNA hypervariable regions I and II sequences of individuals from

- Slovakia. In Forensic science international. Genetics, 2008, vol. 2, p. 413-421. ISSN 1872-4973. (2.015 – IF2007)
10. LUKACOVA, N. – DAVIDOVA, A. – KOLESAR, D. – KOLESAROVA, M. – SCHREIBEROVA, A. – LACKOVA, M. – **KRIŽANOVÁ, Oľga** – MARSALA, M. – MARSALA, J.: The effect of N-nitro-L-arginine and aminoguanidine treatment on changes in constitutive and inducible nitric oxide synthases in the spinal cord after sciatic nerve transection. In: Int J Molec Med, Vol., 2008, vol 21, p. 413-421 (1.847 – IF2007)
 11. KVETŇANSKÝ, Richard - **KRIŽANOVÁ, Oľga** - TILLINGER, A. - SABBAN, E. L. - THOMAS, Steven A. - KUBOVČÁKOVÁ, Lucia. Regulation of Gene Expression of Catecholamine Biosynthetic Enzymes in Dopamine-beta-Hydroxylase- and CRH-Knockout Mice Exposed to Stress. In Annals of the New York Academy of Sciences, 2008, vol. 1148, p. 257-268. ISSN 0077-8923. (1.731 - IF2007).
 12. **ONDRIAŠ, Karol** - STAŠKO, Andrej - ČAČANYIOVÁ, Soňa - **SULOVÁ, Zdena** - **KRIŽANOVÁ, Oľga** - KRISTEK, František - **MÁLEKOVÁ, Lubica** - KNEZL, Vladimír - **BREIER, Albert**. H₂S and HS⁻ donor NaHS releases nitric oxide from nitrosothiols, metal nitrosyl complex, brain homogenate and murine L1210 leukaemia cells. In Pflugers Archiv-European Journal of Physiology, 2008, vol. 457, no. 2, p. 271-279. ISSN 0031-6768. (3.842 - IF2007)
 13. **ONDRIAŠ, Karol** - **MÁLEKOVÁ, Ľubica** - **KRIŽANOVÁ, Oľga**. Potassium-chloride promiscuous channels in mitochondrial membranes. In General physiology and biophysics, 2008, vol.27, issue 1, p. 38-44. ISSN 0231-5882. (1.286 - IF2007).
 14. **ONDRIAŠ, Karol** - **ŠIROVÁ, Marta** - KUBOVČÁKOVÁ, Lucia - **KRIŽANOVÁ, Oľga**. Uranyl acetate modulates gene expression and protein levels of the type 2, but not type 1 inositol 1,4,5-trisphosphate receptors in mouse kidney. In General physiology and biophysics, 2008, vol. 27, issue 3, p. 187-193. ISSN 0231-5882. (1.286 - IF2007)
 15. PATTERSON-BUCKENDAHL, P. E. - POHORECKÝ, L. - KUBOVČÁKOVÁ, Lucia - **KRIŽANOVÁ, Oľga** - MARTIN, R.B. - MARTINEZ, A. - KVETŇANSKÝ, Richard. Ethanol and stress activate catecholamine synthesis in the adrenal: Effects on bone. In Annals of the New York Academy of Sciences, 2008, vol. 1148, p. 542-551. ISSN 0077-8923, (1.731 - IF2007).
 16. **POLÁKOVÁ, Eva** - **ZAHRADNÍKOVÁ, Alexandra, ml.** - **PAVELKOVÁ, Jana** - **ZAHRADNÍK, Ivan** - **ZAHRADNÍKOVÁ, Alexandra**. Local calcium release activation by DHPR calcium channel openings in rat cardiac myocytes. In Journal of Physiology, 2008, vol. 586, iss. 16, p. 3839-3854. ISSN 0022-3751. (4.580 - IF2007).
 17. **SULOVÁ, Zdena** - MACEJOVÁ, Dana - **ŠEREŠ, Mário** - SEDLÁK, Ján - BRTKO, Július - **BREIER, Albert**. Combined treatment of P-gp-positive L1210/VCR cells by verapamil and all-trans retinoic acid. induces down-regulation of P-glycoprotein expression and transport activity. In Toxicology in vitro, 2008, vol. 22, iss. 1, p. 96-105. ISSN 0887-2333. (2.193 - IF2007)
 18. **ŠEREŠ, Mário** - **POLÁKOVÁ, Eva** - **KRIŽANOVÁ, Oľga** - **HUDECOVÁ, Soňa** - KLYMENKO, S.V. - **BREIER, Albert** - **SULOVÁ, Zdena**. Overexpression of P-glycoprotein in L1210/VCR cells is associated with changes in several endoplasmic reticulum proteins that may be partially responsible for the lack of thapsigargin sensitivity. In General physiology and biophysics, 2008, vol. 27, issue 3, p. 211-221. ISSN 0231-5882. (1.286 - IF2007)
 19. **ŠPÁNIKOVÁ, Anna** - ŠIMONČÍKOVÁ, Petra - RAVINGEROVÁ, Táňa - PECHÁŇOVÁ, Oľga - BARANČÍK, Miroslav. The effect of chronic nitric oxide synthases inhibition on regulatory proteins in rat hearts. In Molecular and Cellular Biochemistry, 2008, vol. 312, iss. 1-2, p. 113-120. ISSN 0300-8177, (1.707 - IF2007).

20. TEREPTYEV, D. - **KUBALOVA, Zuzana** - VALLE, G. - NORI, A. - VEDAMOORTHYRAO, S. - TEREPTYEVA, R. - VIATCHENKO-KARPINSKI, S. - BERS, D. M. - WILLIAMS, S. C. - VOLPE, P. - GYORKE, S. Modulation of SR Ca release by luminal Ca and calsequestrin in cardiac myocytes: Effects of CASQ2 mutations linked to sudden cardiac death. In BIOPHYSICAL JOURNAL, 2008, vol. 95, issue 4, p. 2037-2048. ISSN 0006-3495. (4.627 – IF2007)
21. TILLINGER, A. - MYSLIVEČEK, Jaromír - NOVÁKOVÁ, Martina - **KRIŽANOVÁ, Oľga** - KVETŇANSKÝ, Richard. Gene Expression of Adrenoceptors in the Hearts of Cold-Acclimated Rats Exposed to a Novel Stressor. In Annals of the New York Academy of Sciences, 2008, vol. 1148, p. 393-399. ISSN 0077-8923, (1.731 - IF2007).
22. **TOMÁŠKOVÁ, Zuzana** - **GABURJÁKOVÁ, Marta**. The cardiac ryanodine receptor: Looking for anomalies in permeation properties. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, 2008, vol. 1778, issue 11, p.2564-2572. (3.640 - IF2007)
23. **TYLKOVÁ, Lucia** - **NOVOTOVÁ, Marta** - **ZAHRADNÍK, Ivan** - KISS, Alexander.: Evaluation of changes atrial myocytes - A morphometric approach. In: Analytical and Quantitative Cytology and Histology, 2008, Vol. 30, p. 53-59 (2.940 – IF2007)
24. **ZAHRADNÍK, Ivan** - **MINAROVÍČ, Igor** - **ZAHRADNÍKOVÁ, Alexandra**. Inhibition of the cardiac L-type calcium channel current by antidepressant drugs. In Journal of Pharmacology and Experimental Therapeutics, 2008, vol. 324, iss. 3, p. 977-984. ISSN 0022-3565. (4.003 - IF2007)
25. ZEMAN, Michal - PETRÁK, Juraj - STEBELOVÁ, Katarína - NAGY, Gyoergy - **KRIŽANOVÁ, Oľga** - HERICHOVÁ, Iveta - KVETŇANSKÝ, Richard. Endocrine Rhythms and Expression of Selected Genes in the Brain, Stellate Ganglia, and Adrenals of Hypertensive TGR Rats. In Annals of the New York Academy of Sciences, 2008, vol. 1148, p. 308-316. ISSN 0077-8923. (1.731 - IF2007)

Scientific publications in other journals 2008:

1. POLÁK, E. - **FICEK, Andrej** - BALDOVIČ, M. - FERÁKOVÁ, E. - ŠOLTYSOVÁ, A. - STRNOVÁ, J. - URGE, O. - KOVÁCS, László - **KÁDAŠI, Ľudevít**. Komplexná mutačná analýza génu PAH u slovenských pacientov postihnutých fenylketonúriou. In Česko-slovenská pediatrie, 2008, roč. 61/10, č., s. 528-534. ISSN 0069-2328.

Chapters in monographs published abroad 2009:

1. LUKÁČOVÁ, Nadežda - SCHREIBEROVÁ, Andrea - LACKOVÁ, Monika - DÁVIDOVÁ, Alexandra - KOLESÁR, Dalibor - GÁLIK, Ján - **KRIŽANOVÁ, Oľga** - RADOŇAK, J. - MARŠALA, Jozef - MARŠALA, Martin. Nitric oxide as a neuromodulator of retrograde and/or anterograde. In LUKÁČOVÁ, Nadežda et al. NO-cGMP Signaling in the Spinal Cord and Brain Stem Circuitry 2009. - Trivandrum (Kerala, India) : Transworld Research Network, 2009. ISBN 978-81- 7895-416-5, p. 115-138.
2. **PARULEK, Július** - ŠRÁMEK, Miloš - **ZAHRADNÍK, Ivan**. GeomCell, Design of Cell Geometry. In: "Recent Advances in the 3D Physiological Human", Magnenat-Thalmann, Nadia; Zhang, Jian J.; Feng, David D. (Eds.) VIII, © Springer-Verlag London Limited, 2009 ISBN: 978-1-84882-564-2. p. 21 – 36
3. **PARULEK, Július** - ŠRÁMEK, Miloš - ČERVENANSKÝ, Michal - **NOVOTOVÁ, Marta** - **ZAHRADNÍK, Ivan**. A Cell Architecture Modeling System Based on Quantitative Ultrastructural Characteristics. In Systems Biology. - Pittsburgh : Humana Press, 2009. ISBN 978-1-934115-64-0, p.289-312.

WOS Publications 2009

1. DÁVIDOVÁ, Alexandra - SCHREIBEROVÁ, Andrea - KOLESÁR, Dalibor -CAPKOVÁ, Ľudmila - **KRIŽANOVÁ, Oľga** - LUKÁČOVÁ, Nadežda. Spinal Cord Transection Significantly Influences nNOS-IR in Neuronal Circuitry that Underlies the Tail-Flick Reflex Activity. In Cellular and Molecular Neurobiology. ISSN 0272-4340, 2009, vol. 29, no. 6-7, p. 879-886. (2.550 - IF2008).
2. **DRIGEL'OVÁ, Mária** - **TARABOVÁ, Bohumila** - DUBURS, G. - **LACINOVÁ, Ľubica**. Dihydropyridine analogue cerebrocrast blocks both T-type and L-type calcium currents. In Canadian Journal of Physiology and Pharmacology. ISSN 0008-4212, 2009, vol. 87, p. 915-922. (1.763 - IF2008).
3. FIALOVÁ, K. - **KRIŽANOVÁ, Oľga** - JARKOVSKY, E. - NOVÁKOVÁ, Mária. Apparent desensitization of the effects of sigma receptor ligand haloperidol in isolated rat and Guinea pig hearts after chronic treatment. In Canadian Journal of Physiology and Pharmacology, 2009, vol. 87, p. 1-9. ISSN 0008-4212. (1.763 - IF2008)
4. **GIBALOVÁ, Lenka** – SEDLÁK, Ján – LABUDOVOVÁ, Martina – **BARANČÍK, Miroslav** – REHÁKOVÁ, Alena - **BREIER, Albert** – **SULOVÁ, Zdena**. Multidrug resistant P-glycoprotein positive L1210/VCR cells are also cross-resistant to cisplatin via mechanism distinct with P-glycoprotein drug efflux activity. In General Physiology and Biophysics. ISSN 0231-5882, 2009, vol. 28, issue 1, p.391-403. (0.697 - IF2008)
5. KLYMENKO, Sergiy, V. - ILYENKO, Irina, N. - GOLARNIK, Natalya, A. - MAZNICHENKO, Oksana, L. - **BREIER, Albert** - BAZYKA, Dimitry, A. Membrane transport and apoptosis-related proteins in radiation-associated acute myeloid leukemia following the Chernobyl accident. In General Physiology and Biophysics. ISSN 0231-5882, 2009, vol. 28, issue 1, p.63-69. (0.697 - IF2008).
6. KOPÁČEK, Juraj - **ONDRIAŠ, Karol** - **SEDLÁKOVÁ, Barbora** - TOMÁŠKOVÁ, Jana - **ZAHRADNIKOVA, Lucia** - SEDLÁK, Jan - **SULOVÁ, Zdena** - **ZAHRADNÍKOVÁ, Alexandra** - PASTOREK, Jaromír - **KRIŽANOVÁ, Oľga**. Type 2 IP(3) receptors are involved in uranyl acetate induced apoptosis in HEK 293 cells. In Toxicology. ISSN 0300-483X, 2009, vol. 262, iss. 1, p. 73-79. (2.836 -IF2008)
7. MACEJOVÁ, Dana - **KRIŽANOVÁ, Oľga** - BRTKO, Július. Different mRNA expression profiling of nuclear retinoid, thyroid, estrogen and PPARgamma receptors, their coregulators and selected genes in rat liver and spleen in response to short-term in vivo

- administration of 13-cis retinoic acid. In *Toxicology Letters*. ISSN 0378-4274, 2009, vol. 184, iss. 2, p.114-120. (3.249 - IF2008).
8. **MALEKOVA, Lubica - KRIŽANOVÁ, Oľga - ONDRIAŠ, Karol.** H₂S and HS(-) donor NaHS inhibits intracellular chloride channels. In *General physiology and biophysics*. ISSN 0231-5882, 2009, vol. 28, issue 2, p. 190-194. (0.697 - IF2008).
 9. **MIKUŠOVÁ, Andrea - KRÁLOVÁ, Eva - TYLKOVÁ, Lucia - NOVOTOVÁ, Marta - STANKOVIČOVÁ, T.** Myocardial remodelling induced by repeated low doses of isoproterenol. In *Canadian Journal of Physiology and Pharmacology*. ISSN 0008-4212, 2009, vol. 87, issue 8, p. 641-651. (1.763 - IF2008).
 10. **NAHÁLKA, Jozef - MISLOVIČOVÁ, Danica - KAVCOVÁ, Helena.** Targeting lectin activity into inclusion bodies for the characterisation of glycoproteins. In *Molecular BioSystems*. ISSN 1742-206X, 2009, vol. 5, iss. 8, p. 819-821. (4.236 - IF2008).
 11. **NEGISHI, Mayumi - SHIMOMURA, Kenju - PROKS, Peter - MORI, Masatomo - SHIMOMURA, Yohnosuke.** Mechanism of disopyramide-induced hypoglycaemia in a patient with Type 2 diabetes. In *Diabetic Medicine*. Vol. 26 (2009), iss. 1, p. 76-78, ISSN 0742-3071, (3.172 – IF2008).
 12. **PALFFY, Roland - GARDLIK, Roman - BEHULIAK, Michal - KÁDAŠI, Ľudevít - TURNA, Ján - CELEC, Peter.** On the physiology and pathophysiology of antimicrobial peptides. In *Molecular Medicine*. ISSN 1076-1551, 2009, vol. 15, p. 51-59. (3.411 - IF2008)
 13. **PAVLIKOVA, Martina - TATARKOVA, Zuzana - SIVONOVA, Monika - KAPLAN, Peter - KRIŽANOVÁ, Oľga - LEHOTSKY, Ján.** Alterations Induced by Ischemic Preconditioning on Secretory Pathways Ca²⁺-ATPase (SPCA) Gene Expression and Oxidative Damage After Global Cerebral Ischemia/Reperfusion in Rats. In *Cellular and molecular neurobiology*. ISSN 0272-4340, 2009, vol. 29, iss. 6-7, p. 909-916. (2.550 - IF2008).
 14. **SEDLÁKOVÁ, Barbora - ČAČÁNYIOVÁ, Soňa - ONDRIAŠ, Karol - KRISTEK, František - KRIŽANOVÁ, Oľga.** Effect of 7-nitroindazole on the expression of intracellular calcium in the kidney of spontaneously hypertensive rats. In *General Physiology and Biophysics*. ISSN 0231-5882, 2009, vol. 28, p. 225-232. (0.697 - IF2008).
 15. **STAŠKO, Andrej - BREZOVÁ, Vlasta - ZALIBERA, Michal - BISKUPIČ, Stanislav - ONDRIAŠ, Karol.** Electron transfer: A primary step in the reactions of sodium hydrosulphide, an H₂S/HS- donor. In *Free Radical Research : official journal of the Society for Free Radical Research -European Region*. ISSN 1071-5762, 2009, vol. 46, iss. 6, p. 581-593. (2.826 - IF2008).
 16. **SULOVÁ, Zdena - GIBALOVÁ, Lenka - VAJCNEROVÁ, Z - POLÁKOVÁ, Eva - UHRÍK, Branislav - TYLKOVÁ, Lucia - KOVÁROVÁ, Annamaria - SEDLÁK, Ján - BREIER, Albert.** Vincristine-Induced Overexpression of P-Glycoprotein in L1210 Cells Is Associated with Remodeling of Cell Surface Saccharides. In *Journal of Proteome Research*. ISSN 1535-3893, 2009, vol. 8, no. 2, p. 513-520. (5.684 -IF2008).
 17. **SULOVÁ, Zdenka - ŠEREŠ, Mário – BARANČÍK, Miroslav – GIBALOVÁ, Lenka – UHRÍK, Branislav – POLEKOVÁ, Lenka – BREIER, Albert.** Does any relationship exist between P-glycoprotein-mediated multidrug resistance and intracellular calcium homeostasis. *General Physiology and Biophysics*. 2009 vol. 28, Focus Issue, p. 89-95. (0.697 - IF2008)
 18. **TAKAHASHI, Masaki - SHIMOMURA, Kenju - PROKS, Peter – CRAIG, Timothy J.- NEGISHI, Mayumi - AKUZAWA, Masako – HAYASHI, Rikuro - SHIMOMURA, Yohnosuke - KOBAYASHI, Isao.** A proposal of combined evaluation of waist

- circumference and BMI for the diagnosis of metabolic syndrome. In *Endocrine Journal*. Vol. 56 (2009), Iss. 9, p.1079-1082, ISSN 0918-8959, (1.600 – IF2008).
19. **TARABOVÁ, Bohumila** - NOVÁKOVÁ, Mária - **LACINOVÁ, Ľubica**. Haloperidol moderately inhibits cardiovascular L-type calcium current. In *General Physiology and Biophysics*. ISSN 0231-5882, 2009, vol. 28, p. 249-259. (0.697 - IF2008).
 20. **TOMÁŠKOVÁ, Zuzana** - ČAČÁNYIOVÁ, Soňa - **BENČO, Andrej** - KRISTEK, František - DUGOVIČOVÁ, Lea - HRBÁČ, Jan - **ONDRIAŠ, Karol**. Lipids modulate H(2)S/HS(-) induced NO release from S-nitrosoglutathione. In *Biochemical and Biophysical Research Communications*, 2009, vol. 390, no. 4, p. 1241-1244. ISSN 0006-291X. (2.648 - IF2008).
 21. **TYLKOVÁ, Lucia** Architectural and functional remodeling of cardiac and skeletal muscle cells in mice lacking specific isoenzymes of creatine kinase. In *General Physiology and Biophysics*. ISSN 0231-5882, 2009, vol. 28, p. 219-224. (0.697 - IF2008)
 22. **ZAŤKOVÁ, Andrea** - MERK, Sylvia - WENDEHACK, Melanie - BILBAN, Matrin - MUZIK, Eva Maria - MURADYAN, Artur - HAFERLACH, Claudia - HAFERLACH, Torsten - WIMMER, Katharina - FONATSCH, Christa - ULLMANN, Reinhard. AML/MDS with 11q/MLL Amplification Show Characteristic Gene Expression Signature and Interplay of DNA Copy Number Changes. In *Genes Chromosomes and Cancer*. ISSN 1045-2257, 2009, vol. 48, iss 6, p. 510-520. (3.925 - IF2008).

Scientific publications in other journals 2009

1. ZMETAKOVA, Iveta - CIERNA, Iveta - SZEKYOVA, Dagmar - MINARIK, Gabriel - **FICEK, Andrej** - **POLÁKOVÁ, Helena** - FERAČ, Vladimír -FERAKOVA, Elena - **KÁDAŠI, Ľudevít** - KOVACS, László. Genetická diagnostika dedičných nekonjugovaných hyperbilirubinémii na Slovensku. In *Československá pediatrie*. ISSN 0069-2328, 2009, vol. 64, issue 5, p. 223-229.
2. BALÁKOVÁ, Dana - MINÁRIK, Gabriel - KOLEDOVÁ, Zuzana - **KÁDAŠI, Ľudevít**. Mutačná analýza génov zodpovedných za nesyndrómovú hluchotu u slovenských pacientov. In *Lekársky obzor*. ISSN 0457-4214, 2009, vol. 57, p. 192-197.
3. BARTEKOVÁ, Monika - **BREIER, Albert** - RAVINGEROVÁ, Táňa - STYK, Ján. Možnosti zvýšenia odolnosti myokardu voči ischemicko-reperfúznemu poškodeniu: Úloha kardioprotektívnych proteínov vyplavených po ischemii pečene potkana. In *Zdravotnícke štúdie*. ISSN 1337-723X, 2009, ročník II, č. 1, p. 3-7.

WOS Publications 2010:

1. BARTEKOVÁ, Monika - ČARNICKÁ, Slávka - PANCZA, Dezider - ONDREJČÁKOVÁ, Mária - **BREIER, Albert** - RAVINGEROVÁ, Táňa. Acute treatment with polyphenol quercetin improves postischemic recovery of isolated perfused rat hearts after global ischemia. In *Canadian Journal of Physiology and Pharmacology*, 2010, vol. 88, issue 4, s. 465-471. ISSN 0008-4212. (1.341 - IF2009).
2. BAUEROVÁ-HLINKOVÁ, Vladena - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - BECK, K - BORKO, L. - LAI, F.A. - **ZAHRADNÍKOVÁ, Alexandra** - ŠEVČÍK, Jozef. Bioinformatic mapping and production of recombinant N-terminal domains of human cardiac ryanodine receptor 2. In *Protein Expression and Purification*, 2010, vol. 71, no. 1, p. 33-41. ISSN 1046-5928. (1.563 - IF2009).
3. **BERTO VÁ, Anna** - ČAČÁNYIOVÁ, Soňa - KRISTEK, František - **KRIŽANOVÁ, Oľga** - **TOMÁŠKOVÁ, Zuzana** - **ONDRIAŠ, Karol**. The hypothesis of the main role of H₂S in coupled sulphide-nitroso signalling pathway. In *General Physiology and Biophysics*, 2010, vol. 29, iss. 4, p. 402-410. ISSN 0231-5882. (0.741 - IF2009).
4. **DOČOLOMANSKÝ, Peter** - **BOHÁČOVÁ, Viera** - **BARANČÍK, Miroslav** - **BREIER, Albert**. Why the xanthine derivatives are used to study of P-glycoprotein-mediated multidrug resistance in L1210/VCR line cells. In *General Physiology and Biophysics*, 2010, vol. 29, iss. 3, p. 215-221. ISSN 0231-5882. (0.741 - IF2009).
5. **GABURJÁKOVÁ, Jana** - **GABURJÁKOVÁ, Marta**. Identification of Changes in the Functional Profile of the Cardiac Ryanodine Receptor Caused by the Coupled Gating Phenomenon. In *Journal of Membrane Biology*, 2010, vol. 234, iss. 3, p. 159-169. ISSN 0022-2631. (2.189 - IF2009).
6. HOLOTŇÁKOVÁ, Terézia - **TYLKOVÁ, Lucia** - TAKÁČOVÁ, Martina - KOPÁČEK, Juraj - PETRÍK, Juraj - PASTOREKOVÁ, Silvia - PASTOREK, Jaromír. Role of the HBx oncoprotein in carbonic anhydrase 9 induction. In *Journal of Medical Virology*, 2010, vol. 82, no. 1, p. 32-40. ISSN 0146-6615. (2.470 - IF2009).
7. **HUDECOVÁ, Soňa** - **SEDLÁKOVÁ, Barbora** - KVETŇANSKÝ, Richard - **ONDRIAŠ, Karol** - **KRIŽANOVÁ, Oľga**. Modulation of the sodium-calcium exchanger in the rat kidney by different sequential stressors. In *Stress*, 2010, vol. 13, iss. 1, p.15-21. ISSN 1025-3890. (3.205 - IF2009).
8. IMAMURA, Makoto - SHIMOMURA, Kenju - WATANABE, Ayako - NEGISHI, Mayumi - AKUZAWA, Masako - TAKAHASHI, M. - **PROKS, Peter** - SHIMOMURA, Yohnosuke. Sepsis and gas-forming splenic abscess by *Clostridium septicum* in a patient with type 2 diabetes. In *Journal of diabetes and its complications*, 2010, vol. 24, no. 2, p. 142-144. ISSN 1056-8727. (2.110 - IF2009).
9. **JEDINÁK, Andrej** - VALACHOVÁ, M. - MALIAR, T. - ŠTURDÍK, Ernest. Antiprotease activity of selected Slovak medicinal plants. In *Pharmazie : an international journal of pharmaceutical sciences*, 2010, Vol. 64, p. 137-140. ISSN 0031-7144. (0.812 - IF2009).
10. **JURKOVIČOVÁ, Dana** - **LENČEŠOVÁ, Ľubomíra** - **KRIŽANOVÁ, Oľga**. Expressional changes of ryanodine 1 and 2 receptors in PC12 cells after induction of apoptosis. In *General Physiology and Biophysics*, 2010, vol. 29, iss. 4, p. 414-418. ISSN 0231-5882. (0.741 - IF2009).
11. **KARMAŽÍNOVÁ, Mária** - **LACINOVÁ, Ľubica**. Removal of the outermost arginine in IVS4 segment of the Cav3.1 channel affects amplitude but not voltage dependence of gating current. In *General Physiology and Biophysics*, 2010, vol. 29, iss. 4, p. 419-423. ISSN 0231-5882. (0.741 - IF2009).

12. **KARMAŽÍNOVÁ, Mária** - BEYL, Stanislav - STARY, A. - SUWATTANASOPHON, Ch. - KLUGBAUER, Norbert - HERING, S. - **LACINOVÁ, Ľubica**. Cysteines in the loop between IS5 and the pore helix of Cav3.1 are essential for channel gating. In Pflugers Archiv-European Journal of Physiology, 2010, vol. 460, no. 6, p. 1015-1028. ISSN 0031-6768. (3.695 - IF2009)
13. **KARMAŽÍNOVÁ, Mária** - **LACINOVÁ, Ľubica**. Measurement of cellular excitability by whole cell patch clamp technique. In Physiological Research, 2010, vol. 59, p. 1-7. ISSN 0862-8408. (1.430 - IF2009).
14. **KOMÍNKOVÁ, Viera** - **MÁLEKOVÁ, Ľubica** - **TOMÁŠKOVÁ, Zuzana** - SLEZÁK, Peter - SZEWCZYK, A. - **ONDRIAŠ, Karol**. Modulation of intracellular chloride channels by ATP and Mg²⁺. In Biochimica et Biophysica Acta : bioenergetics, 2010, vol. 1797, no. 6-7, p. 1300-1312. ISSN 0005-2728. (3.688 - IF2009).
15. LAUKOVÁ, Marcela - VARGOVIČ, Peter - **KRIŽANOVÁ, Oľga** - KVETŇANSKÝ, Richard. Repeated Stress Down-Regulates beta(2)- and alpha (2C)-Adrenergic Receptors and Up-Regulates Gene Expression of IL-6 in the Rat Spleen. In Cellular and Molecular Neurobiology, 2010, vol. 30, p. 1077-1087. ISSN 0272-4340. (2.107 - IF2009)
16. **LENČEŠOVÁ, Ľubomíra** - **ŠÍROVÁ, Marta** - CSÁDEROVÁ, Lucia - LAUKOVÁ, Marcela - **SULOVÁ, Zdena** - KVETŇANSKÝ, Richard - **KRIŽANOVÁ, Oľga**. Changes and role of adrenoceptors in PC12 cell after phenylephrine administration and apoptosis induction. In Neurochemistry International, 2010, vol. 57, p. 884-892. ISSN 0197-0186. (3.541 - IF2009).
17. MÉZEŠOVÁ, Lucia - BARTEKOVÁ, Monika - JAVORKOVÁ, Veronika - VLKOVIČOVÁ, Jana - **BREIER, Albert** - VRBJAR, Norbert. Effect of quercetin on kinetic properties of renal Na, K-ATPase in normotensive and hypertensive rats. In Journal of Physiology and Pharmacology : formerly Acta Physiologica Polonica, 2010, vol. 61, no. 5, p. 593-598. ISSN 0867-5910. (1.489 - IF2009)
18. NEGISHI, Mayumi - SHIMOMURA, Kenju - **PROKS, Peter** - AKUZAWA, Masako - TAKAHASHI, M. - MORI, Masatomo - SHIMOMURA, Yohnosuke - KOBAYASHI, Isao. An Obese Patient with Slowly Progressive Type 1 Diabetes Diagnosed by Ketoacidosis. In Internal Medicine, 2010, vol. 49, no. 5, p. 393-395. ISSN 0918-2918. (1.040 - IF2009)
19. NOVÁKOVÁ, Mária - **SEDLÁKOVÁ, Barbora** - **ŠÍROVÁ, Marta** - FIALOVÁ, K. - **KRIŽANOVÁ, Oľga**. Haloperidol increases expression of the inositol 1,4,5-trisphosphate receptors in rat cardiac atria, but not in ventricles. In General Physiology and Biophysics, 2010, vol. 29, p. 381-389. ISSN 0231-5882. (0.741 - IF2009).
20. PÁLFFY, Roland - BEHULIAK, Michal - GARDLIK, Roman - JANI, P. - **KÁDAŠI, Ľudevít** - TURŇA, Ján - CELEC, Peter. Oral in vivo Bactofection in Dextran Sulfate Sodium Treated Female Wistar Rats. In Folia Biologica - Krakow, 2010, vol. 58, no. 3-4, p. 171-176.. ISSN 0015-5497. (0.547 - IF2009)
21. PIQUEREAU, Jérôme - **NOVOTOVÁ, Marta** - FORTIN, Dominique - GARNIER, A. - VENTURA-CLAPIER, Renée - VEKSLER, A. - JOUBERT, F. Postnatal development of mouse heart: formation of energetic microdomains. In Journal of Physiology : A publication of the Physiological Society, 2010, vol. 588, iss. 13, p. 2443-2454. ISSN 0022-3751. (4.764 - IF2009).
22. **RADVÁNSKÝ, Ján** - **KÁDAŠI, Ľudevít**. The Expanding World of Myotonic Dystrophies: How Can They Be Detected?. In Genetic Testing, 2010, vol. 14, no. 6, p. 733-741. ISSN 1090-6576. (1.170 - IF2009).
23. **RADVÁNSKÝ, Ján** - RESKO, Peter - SUROVÝ, Milan - MINARIK, Gabriel - **FICEK, Andrej** - **KÁDAŠI, Ľudevít**. High-resolution melting analysis for genotyping of the

- myotonic dystrophy type 1 associated Alu insertion/deletion polymorphism. In *Analytical Biochemistry*, 2010, vol. 398, no.1, p.126-128. ISSN 0003-2697. (3.287 - IF2009)
24. **SULOVÁ, Zdena** - DITTE, Peter - **KURUCOVÁ, Tatiana** - **POLÁKOVÁ, Eva** - **ROGOZÁNOVÁ, Kristína** - **GIBALOVÁ, Lenka** - **ŠEREŠ, Mário** - **ŠKVARKOVÁ, Lucia** - SEDLÁK, Ján - PASTOREK, Jaromír - **BREIER, Albert**. The presence of P-glycoprotein in L1210 cells directly induces down-regulation of cell surface saccharide targets of Concanavalin A. In *Anticancer Research*, 2010, vol. 30, no. 9, p. 3661-3668. ISSN 0250-7005. (1.428 - IF2009)
 25. **ŠEREŠ, Mário** - DITTE, Peter - **BREIER, Albert** - **SULOVÁ, Zdena**. Effect of thapsigargin on P-glycoprotein-Negative and P-glycoprotein-Positive L1210 Mouse Leukaemia Cells. In *General Physiology and Biophysics*, 2010, vol. 29, iss. 4, p. 396-401. ISSN 0231-5882. (0.741 - IF2009).
 26. **ŠPÁNIKOVÁ, Anna** - IVANOVÁ, Monika - MATEJÍKOVÁ, Jana - RAVINGEROVÁ, Táňa - **BARANČÍK, Miroslav**. Influence of ischemia/reperfusion and modulation of PI3K/Akt kinase pathway on matrix metalloproteinase-2 in rat hearts. In *General Physiology and Biophysics : an international journal*, 2010, vol. 29, no. 1, p. 31-40. ISSN 0231-5882. (0.741 - IF2009).
 27. **TOMÁŠKOVÁ, Zuzana** - **ONDRIAŠ, Karol**. Mitochondrial chloride channels - What are they for?. In *FEBS Letters*, 2010, vol. 584, no. 10, p. 2085-2092. ISSN 0014-5793. (3.541 - IF2009).
 28. VANDAEL, David Henry - MARCANTONI, Andrea - MAHAPATRA, Satyajit - **CARO, Anton** - RUTH, Peter - ZUCCOTTI, Annalisa - KNIPPER, Marlies - CARBONE, Emilio. Ca(v)1.3 and BK channels for timing and regulating cell firing. In *Molecular Neurobiology*, 2010, vol. 42, no. 3, p. 185-198. ISSN 0893-7648. (4.735 - IF2009).
 29. **ZAHRADNÍKOVÁ, Alexandra** - **GABURJÁKOVÁ, Marta** - BRIDGE, J.H.B. - **ZAHRADNÍK, Ivan**. Challenging quantal calcium signaling in cardiac myocytes. In *Journal of General Physiology*, 2010, vol. 136, p. 581-583. ISSN 0022-1295. (4.260 - IF2009).
 30. **ZAHRADNÍKOVÁ, Alexandra** - **VALENT, Ivan** - **ZAHRADNÍK, Ivan**. Frequency and release flux of calcium sparks in rat cardiac myocytes: a relation to RYR gating. In *Journal of General Physiology*, 2010, vol. 136, iss. 1, p. 101-116. ISSN 0022-1295. (4.260 - IF2009).

Chapters in monographs published abroad 2011:

1. BAUEROVÁ-HLINKOVÁ, Vladena - BAUER, Jacob - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - BECK, K. - BORKO, Ľubomír - **FALTINOVÁ, Andrea** - **ZAHRADNÍKOVÁ, Alexandra** - ŠEVČÍK, Jozef. Bioinformatics Domain Structure Prediction and Homology Modeling of Human Ryanodine Receptor 2. Editor Mahmood A. Mahdavi. In Bioinformatics-Trends and Methodologies. - Rijeka : InTech, 2011, p. 325-352. ISBN 978-953-307-282-1.

Chapters in monographs published in Slovakia 2011:

1. **LACINOVÁ, Ľubica**. O diskusii biologické a/versus kultúrne. In Rodové štúdiá. Súčasné diskusie, problémy a perspektívy. - Bratislava : Univerzita Komenského, 2011, s. 81-97. ISBN 978-80-223-2934-7.

WOS Publications 2011:

1. BARANČÍK, Miroslav - **BREIER, Albert**. alpha(2) integrin as regulator of metastatic potential. In Acta Pharmacologica Sinica : official journal of the Chinese Pharmacological Society and Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 2011, vol. 32, iss. 3, p. 279. ISSN 1671-4083(print), 1745-7254(online). (1.909 - IF2010)
2. **CARO, Anton** - **TARABOVÁ, Bohumila** - ROJO RUIZ, Jonathan - **LACINOVÁ, Ľubica**. Nimodipine inhibits action potential firing in cultured hippocampal neurons predominantly due to block of voltage-dependent potassium channels. In General Physiology and Biophysics, 2011, vol. 30, sp. iss. 1, s44-S53. ISSN 0231-5882. (1.146 - IF2010)
3. **GRMAN, Marián** - **MIŠÁK, Anton** - ČAČÁNYIOVÁ, Soňa - KRISTEK, František - **TOMÁŠKOVÁ, Zuzana** - **BERTO VÁ, Anna** - **ONDRIAŠ, Karol**. The aqueous garlic, onion and leek extracts release nitric oxide from S-nitrosoglutathione and prolong relaxation of aortic rings. In General Physiology and Biophysics, 2011, vol. 30, p. 396-402. ISSN 0231-5882. (1.146 - IF2010)
4. GUCEV, Zoran - SLAVESKA, N. - LABAN, N. - TASIC, V. - DANILOVSKI, D. - POP-JORDANOVA, N. - **ZATKOVÁ, Andrea**. Early-onset ocular ochronosis in a girl with alkaptonuria (AKU) and a novel mutation in homogentisate 1,2-dioxygenase (HGD). In Prilozi, 2011, vol. 32, no. 1, p. 305-311.
5. **HUDECOVÁ, Soňa** - **LENČEŠOVÁ, Ľubomíra** - CSÁDEROVÁ, Lucia - **ŠÍROVÁ, Marta** - CHOLUJOVÁ, Dana - **CAGALA, Martin** - KOPÁČEK, Juraj - DOBROTA, D. - PASTOREKOVÁ, Silvia - **KRIŽANOVÁ, Oľga**. Chemically mimicked hypoxia modulates gene expression and protein levels of the sodium calcium exchanger in HEK 293 cell line via HIF-1 alpha. In General Physiology and Biophysics, 2011, vol. 30, p. 196 - 206. ISSN 0231-5882. (1.146 - IF2010)
6. **KARMAŽÍNOVÁ, Mária** - BAUMGART, J.P. - PEREZ-REYES, Edward - **LACINOVÁ, Ľubica**. The voltage dependence of gating currents of the neuronal Cav3.3 channel is determined by the gating brake 6 in the I-II loop. In Pflugers Archiv-European Journal of Physiology, 2011, vol. 461, no. 4, p.461-468. ISSN 0031-6768. (3.354 - IF2010).
7. **LACINOVÁ, Ľubica**. T-type calcium channel blockers-new and notable. In General Physiology and Biophysics, 2011, vol. 30, p. 403-409. ISSN 0231-5882. (1.146 - IF2010)

8. NEGISHI, Mayumi - SHIMOMURA, Kenju - **PROKS, Peter** - NAKAHARA, Rieko - MURAKAMI, M. - SHIMOMURA, Yohnosuke - KOBAYASHI, Isao. Development of postpartum Graves' disease and type 1 diabetes after delivery in a patient with gestational diabetes. In *Journal of Diabetes Investigation*, 2011, vol. 2, iss. 4, p. 328-330. ISSN 2040-1116.
9. **ONDRIAŠ, Karol** - **LENČEŠOVÁ, Ľubomíra** - **ŠÍROVÁ, Marta** - LABUDO VÁ, Martina - PASTOREKOVÁ, Silvia - KOPÁČEK, Juraj - **KRIŽANOVÁ, Oľga**. Apoptosis induced clustering of IP (3) R1 in nuclei of nondifferentiated PC12 cells. In *Journal of Cellular Physiology*, 2011, vol. 226, no. 12, p. 3147-3155. ISSN 0021-9541. (3.986 - IF2010).
10. PALFFY, Roland - GARDLIK, Roman - BEHULIAK, Michal - JANI, P. - BALAKOVA, Denisa - **KÁDAŠI, Ľudevít** - TURŇA, Ján - CELEC, Peter. Salmonella-mediated gene therapy in experimental colitis in mice. In *Experimental Biology and Medicine*, 2011, vol. 236, iss. 2, p. 177-183. ISSN 1535-3702. (2.954 - IF2010).
11. **RADVÁNSKÝ, Ján** - **FICEK, Andrej** - **KÁDAŠI, Ľudevít**. Upgrading molecular diagnostics of myotonic dystrophies: Multiplexing for simultaneous characterization of the DMPK and ZNF9 repeat motifs. In *Molecular and Cellular Probes*, 2011, vol. 25, p. 182-185. ISSN 0890-8508. (1.869 - IF2010)
12. **RADVÁNSKÝ, Ján** - **FICEK, Andrej** - MINÁRIK, G. - PÁLFFY, Roland - **KÁDAŠI, Ľudevít**. Effect of Unexpected Sequence Interruptions to Conventional PCR and Repeat Primed PCR in Myotonic Dystrophy Type 1 Testing. In *Diagnostic Molecular Pathology*, 2011, vol. 20, iss. 1, p. 48-51. ISSN 1052-9551 (2.129 - IF2010).
13. **RADVÁNSKÝ, Ján** - **FICEK, Andrej** - **KÁDAŠI, Ľudevít**. Repeat-Primed Polymerase Chain reaction in Myotonic Dystrophy type 2 testing. In *Genetic Testing and Molecular Biomarkers*, 2011, vol. 15, iss. 3, p. 133-136. ISSN 1945-0265. (0.879 - IF2010).
14. **RADVÁNSKÝ, Ján** - BAZSALOVICSOVÁ, Eva - HROMADOVÁ, Ivica - MINÁRIK, G. - **KÁDAŠI, Ľudevít**. Development of high-resolution meltin (HRM) analysis for population studies of *Fascioloides magna* (Trematoda: Fasciolidae), the giant liver fluke of ruminants. In *Parasitology Research*, 2011, vol. 108, no. 1, p. 201-209. ISSN 0932-0113. (1.812 - IF2010).
15. RESKO, Peter - **RADVÁNSKÝ, Ján** - ODNOGO VÁ, Z. - BALDOVIČ, M. - MINÁRIK, G. - **POLÁKOVÁ, Helena** - PÁLFFY, Roland - **KÁDAŠI, Ľudevít**. Mutation analysis of the PMP22 gene in Slovak patients with Charcot-Marie-Tooth Disease and hereditary neuropathy with liability to pressure palsies. In *General Physiology and Biophysics*, 2011, vol. 30, p. 379-388. ISSN 0231-5882. (1.146 - IF2010)
16. **ŠEREŠ, Mário** - CHOLUJOVÁ, Dana - **BUBENČÍKOVÁ, Táňa** - **BREIER, Albert** - **SULOVÁ, Zdena**. Tunicamycine depresses P-glycoprotein glycosylation without effect on its membrane localization and drug efflux activity in L1210 cells. In *International Journal of Molecular Science*, 2011, vol. 12, p. 7772-7784. ISSN 1422-0067. (2.279 - IF2010).
17. ŠOLTYSOVÁ, A. - MINÁRIK, G. - DZURENKOVÁ, A. - SUFLIARSKA, S. - **KÁDAŠI, Ľudevít** - TURŇA, Ján - MLADOSIEVIČOVÁ, B. APEX microarray panel for genotyping polymorphisms in cancer chemotherapy and estimation frequencies in a Slovak population. In *Pharmacogenomics*, 2011, vol. 12., iss. 4, p. 577-592. ISSN 1462-2416. (3.876 - IF2010)
18. TÓTHOVÁ TAROVÁ, E. - **POLÁKOVÁ, Helena** - KAYSEROVÁ, H. - CELEC, Peter - ZUZULOVÁ, M. - **KÁDAŠI, Ľudevít**. Study of the effect of DNA polymorphisms in the mannose-binding lectin gene (MBL2) on disease severity in Slovak cystic fibrosis patients. In *General Physiology and Biophysics*, 2011, vol. 30, p. 373-378. ISSN 0231-5882. (1.146 - IF2010)

19. **TOMÁŠKOVÁ, Zuzana - BERTO VÁ, Anna - ONDRIAŠ, Karol.** On the Involvement of H₂S in Nitroso Signaling and Other Mechanisms of H₂S Action. In *Current Pharmaceutical Biotechnology*, 2011, vol. 12, p. 1394-1405. ISSN 1389-2010. (3.455 - IF2010).
20. WEISS, Norbert - HAMEED, Shahid - FERNÁNDEZ-FERNÁNDEZ, José M. - FABLET, Katell - **KARMAŽÍNOVÁ, Mária** - POILLOT, Cathy - PROFT, Juliane - CHEN, Lina - BIDAUD, Isabelle - MONTEIL, Arnaud - HUC-BRANDT, Sylvaine - **LACINOVÁ, Ľubica** - LORY, Philippe - ZAMPONI, Gerald W. - DE WAARD, Michel. A Cav3.2/syntaxin-1A signaling complex controls T-type channel activity and low-threshold exocytosis. In *Journal of Biological Chemistry*, 2011, vol., no., p., as doi: 10.1074/jbc.M111.290882. ISSN 0021-9258. (5.328 - IF2010).
21. **ZAŤKOVÁ, Andrea** - SEDLÁČKOVÁ, T. - RADVÁNSKÝ, Ján - POLÁKOVÁ, Helena - **NÉMETHOVÁ, Martina** - AGUARON, Robert - DURSUN, Ismail - USHER, Jeannette L. - **KÁDAŠI, Ľudevít.** Identification of 11 Novel Homogentisate 1,2 Dioxygenase Variants in Alkaptonuri Patients and Establishment of a Novel LOVD-Based HGD Mutation Database. In *Journal of Inherited Metabolic Disease*, 2011, vol., no., p. as DOI: 10.1007/8904-2011-68. ISSN 0141-8955. (3.808 - IF2010).
22. **ZAŤKOVÁ, Andrea.** An update on molecular genetics of alkaptonuria (AKU). In *Journal of Inherited Metabolic Disease*, 2011, vol. 34, no. 6, p. 1127-1136. ISSN 0141-8955. (3.808 - IF2010).