

Seznam publikací ústavu v roce 2013:

Laboratoř inženýrství vazebných proteinů

Kuchař, M. - Vaňková, L. - Petroková, H. - Černý, J. - Osička, R. - Pelák, O. - Šípová, H. - Schneider, B. - Homola, J. - Šebo, P. - Kalina, T. - Malý, P.: Human interleukin-23 receptor antagonists derived from an albumin-binding domain scaffold inhibit IL-23-dependent ex vivo expansion of IL-17-producing T-cells. *Proteins: structure, function and bioinformatics*. In press, doi: 10.1002/prot.24472

Laboratoř biomolekulárního rozpoznávání

Schneider, B. - Černý, J. - Čech, P. - Svozil, D. - Gelly, J. CH. & de Brevern, A. G.: Bioinformatic analysis of the protein/DNA interface. *Nucleic Acids Research*. 2013. doi: 10.1093/nar/gkt1273

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Mikulecký, J. - Černý, J. - Biedermannová, L. - Petroková, H. - Kuchař, M. - Vondrášek, J. - Malý, P. - Šebo, P. - Schneider, B.: Increasing affinity of interferon- γ receptor 1 to interferon- γ by computer-aided design. *BioMed Research International*. 2013; 12 pages. doi: 10.1155/2013/752514

Nunvář, J. - Lichá, I. - Schneider, B.: Evolution of REP diversity: a comparative study. *BMC Genomics* 14:385m (2013). doi: 10.1186/1471-2164-14-385.

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Laboratoř strukturní biologie

Laboratoř reprodukční biologie

Zatecka, E. - Ded L. - Elzeinova, F. - Kubatova, A. - Dorosh, A. - Margaryan, H. - Dostalova, P. - Peknicova, J. Effect of tetrabrombisphenol A on induction of apoptosis in the testes and changes in expression of selected testicular genes in CD1 mice. *Reproductive Toxicology*. 2013; 35:32-39. doi:10.1016/j.reprotox.2012.05.095.

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Zatecka, E. - Ded, L. - Elzeinova, F. - Kubatova, A. - Dorosh, A. - Margaryan, H. - Dostalova, P. - Korenkova V. - Hoskova, K. - Peknicova, J.: Effect of zearalenone on reproductive parameters and expression of selected testicular genes in mice, *Reproductive Toxicology*. In press.

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Zigo, M. – **Jonáková, V.** – Sulc, M. - **Maňásková-Postlerová, P.**: Characterization of sperm surface protein patterns of ejaculated and capacitated boar sperm, with the detection of ZP binding candidates. *Int J Biol Macromol*. 2013; 61C:322-328. doi: 0.1016/j.ijbiomac.2013.07.014. [Epub ahead of print] PMID: 23916641

Dvorakova-Hortova K. - Sidlova A. - **Ded, L.** - Hladovcova, D. - Vieweg, M. - Weidner, W. - Klaus Steger, K. – Stopka, P. - Paradowska-Dogan, A.: *Toxoplasma gondii* decreases reproductive fitness in mice. *PLoS One, in press*.

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Laboratoř imunopatologie a imunoterapie

Adamcova, M. - **Ruzickova, S.** - Simko, F.: Multiplexed immunoassays for simultaneous quantification of cardiovascular biomarkers in the model of Hg-nitro-L-arginine methylester (L-Name) hypertensive rat. *Journal of Physiology and Pharmacology*. 2013; 64(2): 211-217.

Laboratoř molekulární terapie

Moreno-Sanchez, R. - Hernandez-Esquivel, L. - Rivero-Segura, N.A. - Marin-Hernandez, A. - **Neuzil, J.** - Ralph, S.J. - Rodriguez-Enriquez, S.: Reactive oxygen species are generated by the respiratory complex II: evidence for lack of contribution of the reverse electron flow in complex I. *FEBS Journal*. 2013; 280(3): 927-938. doi: 10.1111/febs.12086.

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Stapelberg, M. - **Zobalova, R.** - Nguyen, M.N. - Walker, T. - Stantic, M. - Goodwin, J. - Pasdar, E.A. - Thai, T. - **Prokopova, K.** - Yan, B. - Hall, S. - de Pennington, N. - Thomas, S.R. - Grant, G. - Stursa, J. - **Bajzikova, M.** - Meedeniya, A.C. - **Truksa, J.** - Ralph, S.J. - Ansorge, O. - Dong, L.F. - **Neuzil, J.:** Indoleamine-2,3-dioxygenase elevated in tumor-initiating cells is suppressed by mitocans. *Free Radical Biology & Medicine*. 2014; 67(1): 41-50. doi: 10.1016/j.freeradbiomed.2013.10.003, E-pub 2013 Oct 18

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Laboratoř nádorové rezistence

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Laboratoř genové exprese

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Laboratoř molekulární patogenetiky

Bohuslavova, R. - Skvorova, L. - Sedmera D. - Semenza G.L. - **Pavlinkova, G.:** Increased susceptibility of HIF-1 α heterozygous-null mice to cardiovascular malformations associated with maternal diabetes. *Journal of Molecular and Cellular Cardiology*. 2013; 60:129-141. doi: 10.1016/j.yjmcc.2013.04.015.

Laboratoř struktury a funkce biomolekul (skupina ustavena v červenci 2013)

Wiedermannova, J. - Sudzinová, P. - Koval', T. - Rabatinová, A. - Sanderova, H. - Ramaniuk, O. - Rittich, S. - **Dohnálek, J.** - Fu, Z. - Halada, P. - Lewis, P. - Krasny, L.: Characterization of HeID, an interacting partner of RNA polymerase from *Bacillus subtilis*. *Nucleic Acids Research*. Accepted. doi:10.1093/nar/gku113

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