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Nejcitovanější práce autorů ÚMG (prvních nebo korespondenčních) od založení ústavu v roce 1962

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s počtem citací 100 a vyšším k datu 23. 10. 2020)

1. Jackson, SP; **Bartek, J.** The DNA-damage response in human biology and disease. **Nature** **2009**; 461(7267): 1071-8: **2755 REVIEW**
2. Zavadil, J; **Cermak, L;** Soto-Nieves, N; Bottinger, EP. Integration of TGF-beta/Smad and Jagged1/Notch signalling in epithelial-to-mesenchymal transitiv. **EMBO J.** **2004**; 23:1155-1165: **535**
3. **Bubenik, J;** Baresova, M; **Viklicky, V;** Jakoubkova J; **Sainerova H;** Donner, J. Established cell line of urinary-bladder carcinoma (T-24) containing tumor-specific antigen. **Int J Cancer.** **1973**; 11:765-773: **531**
4. **Pavlicek, A;** Hrda, S; Flegr, J. FreeTree-freeware program for construction of phylogenetic trees on the basis of distance data and bootstrap jackknife analysis of the tree robustness. Application in the RAPD analysis of genus Frenkelia. **Folia Biol.** **1999**; 45:97-99: **393**
5. **Brdicka, T;** Pavlistová, D; Leo, A; Bruyns, E; **Korínek, V;** Angelisová, P; Scherer, J; Shevchenko, A; Hilgert, I; Cerný, J; Drbal, K; Kuramitsu, Y; Kornacker, B; **Horejsí, V;** Schraven, B. Phosphoprotein associated with glycosphingolipid-enriched microdomains (PAG), a novel ubiquitously expressed transmembrane adaptor protein, binds the protein tyrosine kinase csk and is involved in regulation of T cell activation. **J Exp Med.** **2000**; 191:1591-604: **374**
6. Sinkkonen, L; Hugenschmidt, T; Berninger, P; Gaidatzis, D; Mohn, F; Artus-Revel, CG; Zavolan, M; **Svoboda, P***; Filipowicz, W. MicroRNAs control de novo DNA methylation through regulation of transcriptional repressors in mouse embryonic stem cells. **Nat Struct Mol Biol.** **2008**; 15:259-267: **346**
7. **Cinek, T;** **Horejsí, V.** The nature of large noncovalent complexes containing glycosyl-phosphatidylinositol-anchored membrane-glycoproteins and protein tyrosine kinases. **J Immunol.** **1992**; 149:2262-2270: **291**
8. **Mihola, O;** Trachulec, Z; Vlcek, C; Schimenti, JC; Forejt, J. A mouse speciation gene encodes a meiotic histone H3 methyltransferase. **Science.** **2009**; 323:373-375: **272**
9. **Bazil, V;** **Horejsí, V;** Baudys, M; **Kristofova, H;** Strominger, JL; Kostka, V; **Hilgert, I.** Biochemical-characterization of a soluble form of the 53-kDa monocyte surface-antigen. **Eur J Immunol.** **1986**; 16:1583-1589: **252**

10. Horejsi, V; Drbal, K; Cebecauer, M; Cerny, J; Brdicka, T; Angelisova, P; Stockinger, H. GPI-microdomains: a role in signalling via immunoreceptors. **Immunol Today.** 1999; 20:356-361: **252 REVIEW**
11. Cigler, P; Kozisek, M; Rezacova, P; Brynda, J; Otwinowski, Z; Pokorna, J; Plesek, J; Gruner, B; Doleckova-Maresova, I; Masa, M; Sedlacek, J; Bodem, J; Krausslich, HG; Kral, V; Konvalinka, J. From nonpeptide toward noncarbon protease inhibitors: Metallacarboranes as specific and potent inhibitors of HIV protease. **Proc Natl Acad Sci USA.** 2005; 102:15394-15399: **230**
12. Krausová, M; Kořínek, V; Wnt signaling in adult intestinal stem cells and cancer. **Cell Signal** 2014; 26(3): 570-579: **217 REVIEW**
13. Blazkova, J; Trejbalova, K; Gondois-Rey, F; Halfon, P; Philibert, P; Guiguen, A; Verdin, E; Olive, D; Van Lint, C; Hejnar, J; Hirsch I. CpG Methylation Controls Reactivation of HIV from Latency. **PLoS Pathogens.** 2009; 5:e1000554. **210**
14. Forejt, J; Ivanyi, P. Genetic studies on male-sterility of hybrids between laboratory and wild mice (*Mus-musculus* L). **Genet Res.** 1974; 24:189-206: **183**
15. Svoboda, J; Hilgert, I; Simkovic, D; Chyle, P. Demonstration of absence of infectious Rous virus in rat tumour XC, whose structurally intact cells produce Rous sarcoma when transferred to chicks. **Folia Biol.** 1963; 9:77-81: **181**
16. Brdicka, T; Imrich, M; Angelisova, P; Brdickova, N; Horvath, O; Spicka, J; Hilgert, I; Luskova, P; Draber, P; Novak, P; Engels, N; Wienands, J; Simeoni, L; Osterreicher, J; Aguado, E; Malissen, M; Schraven, B; Horejsi, V. Non-T cell activation linker (NTAL): A transmembrane adaptor protein involved in immunoreceptor signaling. **J Exp Med.** 2002; 196:1617-1626: **165**
17. Angelisova, P; Hilgert, I; Horejsi, V. Association of 4 antigens of the tetraspans family (CD37, CD53, TAPA-1, and R2/C33) with MHC class-II glycoproteins. **Immunogenetics.** 1994; 39:249-256: **164**
18. Kosar, M; Bartkova, J; Hubackova, S; Hodny, Z; Lukas, J; Bartek J. Senescence-associated heterochromatin foci are dispensable for cellular senescence, occur in a cell type- and insult-dependent manner and follow expression of p16(ink4a). **Cell Cycle** 2011; 10(3): 457-68: **163**
19. Machon, O; Van den Bout, CJ; Backman, M; Kemler, R; Krauss, S. Role of beta-catenin in the developing cortical and hippocampal neuroepithelium. **Neuroscience.** 2003; 122:129-143: **158**
20. Horejsi, V; Vlcek, C. Novel structurally distinct family of leucocyte surface glycoproteins including CD9, CD37, CD53 and CD63. **FEBS Lett.** 1991; 288:1-4. **156 REVIEW**
21. Holan, V; Hasek, M; Bubenik, J; Chutna, J. Antigen-mediated macrophage adherence inhibition. **Cell Immunol.** 1974; 13:107-116: **152**

22. Kozmík, Z; Holland, ND; Kalousová, A; Paces, J; Schubert, M; Holland, LZ. Characterization of an amphioxus paired box gene, AmphiPax2/5/8: developmental expression patterns in optic support cells, nephridium, thyroid-like structures and pharyngeal gill slits, but not in the midbrain-hindbrain boundary region. **Development.** **1999;** 126:1295-304: **150**
23. Machon, O; Backman, M; Machonova, O; Kozmík, Z; Vacík, T; Andersen, L; Krauss, S. A dynamic gradient of Wnt signaling controls initiation of neurogenesis in the mammalian cortex and cellular specification in the hippocampus. **Dev Biol.** **2007;** 311:223-237: **148**
24. Stefanova, I; Hilgert, I; Kristofová, H; Brown, R; Low, MG; Horejsi, V. Characterization of a broadly expressed human-leukocyte surface-antigen MEM-43 anchored in membrane through phosphatidylinositol. **Mol Immunol.** **1989;** 26:153-161: **147**
25. Horejsi, V; Zhang, WG; Schraven, B. Transmembrane adaptor proteins: Organizers of immunoreceptor signalling. **Nat Rev Immunol.** **2004;** 4:603-616: **145 REVIEW**
26. Forejt, J. Hybrid sterility in the mouse. **Trends Genet.** **1996;** 12:412-417: **143 REVIEW**
27. Hubáčková, S; Krejčíková, K; Bartek, J; Hodný, Z. IL1- and TGFβ-Nox4 signaling, oxidative stress and DNA damage response are shared features of replicative, oncogene-induced, and drug-induced paracrine 'Bystander senescence'. **Aging (Albany NY)** **2012;** 4(12): 932-51: **143**
28. Neuzil, J; Stantic, M; Zobalová, R; Chladová, J; Wang, XF; Prochazka, L; Dong, LF; Andera, L; Ralph, SJ. Tumour-initiating cells vs. cancer 'stem' cells and CD133: What's in the name? **Biochem Biophys Res Commun.** **2007;** 355:855-859: **140 REVIEW**
29. Demant, P; Čapková, J; Hinzová, E; Voráčová, B. Role of histocompatibility-2-linked ss-slp region in control of mouse complement. **Proc Natl Acad Sci USA.** **1973;** 70:863-864: **139**
30. Kovářová, M; Tolar, P; Araudchandran, R; Dráberová, L; Rivera, J; Dráber, Pe. Structure-function analysis of Lyn kinase association with lipid rafts and initiation of early signaling events after Fc epsilon receptor I aggregation. **Mol Cell Biol.** **2001;** 21: 8318-8328. **137**
31. Neuzil, J; Wang, XF; Dong, LF; Low, P; Ralph, SJ. Molecular mechanism of 'mitocan'-induced apoptosis in cancer cells epitomizes the multiple roles of reactive oxygen species and Bcl-2 family proteins. **FEBS Lett.** **2006;** 580:5125-5129. **132**
32. Fidlerová, H; Senger, G; Kost, M; Sanseau, P; Sheer, D. 2 simple procedures for releasing chromatin from routinely fixed cells for fluorescence in-situ hybridization. **Cytogenet Cell Genet.** **1994;** 65: 203-205: **131**
33. Zavadová, J; Zavadová, Z; Pastorek, J; Biesová, Z; Ježek, J; Velek, J. Human tumour-associated cell adhesion protein MN/CA IX: identification of M75 epitope and of the region mediating cell adhesion. **Br J Cancer.** **2000;** 82:1808-1813: **131**

34. **Flemr, M; Malik, R; Franke, V; Nejepinska, J; Sedlacek, R; Vlahovicek, K; Svoboda, P.** A retrotransposon-driven dicer isoform directs endogenous small interfering RNA production in mouse oocytes. **Cell** **2013**; 155(4): 807-16: **131**
35. **Urbanek, P; Fetka, I; Meisler, MH; Busslinger, M.** Cooperation of Pax2 and Pax5 in midbrain and cerebellum development. **Proc Natl Acad Sci USA.** **1997**; 94:5703-5708: **130**
36. **Bazil, V; Baudys, M; Hilgert, I; Stefanova, I; Low, MG; Zbrozek, J; Horejsi, V.** Structural relationship between the soluble and membrane-bound forms of human monocyte surface glycoprotein-CD14. **Mol Immunol.** **1989**; 26:657-662: **129**
37. **Draberova, L; Draber, Pe.** Thy-1 glycoprotein and src-like protein-tyrosine kinase p53/p56Lyn are associated in large detergent-resistant complexes in rat basophilic leukemia cells. **Proc Natl Acad Sci USA.** **1993**; 90:3611-3615: **127**
38. **Viklicky, V; Draber, Pa; Hasek, J; Bartek, J.** Production and characterization of a monoclonal antitubulin antibody. **Cell Biol. Int. Rep.** **1982**; 6:725-31: **122**
39. **Horejsi, V.** The roles of membrane microdomains (rafts) in T cell activation. **Immunol Rev.** **2003**; 191:148-164: **120 REVIEW**
40. **Bubenik, J; Simova, J; Jandlova, T.** Immunotherapy of cancer using local administration of lymphoid cells transformed by IL-2 cDNA and constitutively producing IL-2. **Immunol Lett.** **1990**; 23:287-92: **119**
41. Kalab, P; **Peknicova, J; Geussova, G; Moos, J.** Regulation of protein tyrosine phosphorylation in boar sperm through a cAMP-dependent pathway. **Mol Reprod Dev.** **1998**; 51: 304-314: **115**
42. **Storchová, R; Gregorová, S; Buckiová, D; Kyselová, V; Divina, P; Forejt, J.** Genetic analysis of X-linked hybrid sterility in the house mouse. **Mamm Genome** **2004**; 15(7): 515-24: **114**
43. **Demand, P.** H-2 gene complex and its role in alloimmune reactions. **Transplant Rev.** **1973**; 15:162-200: **111 REVIEW**
44. **Forejt, J; Gregorova, S.** Genetic-analysis of genomic imprinting - an imprinted-1 gene controls inactivation of the paternal copy of the mouse tme locus. **Cell.** **1992**; 70:443-450: **107**
45. **Bubenik, J; Voitenok, NN; Kieler, J; Prassolov, VS; Chumakov, PM; Bubenikova, D; Simova, J; Jandlova, T.** Local-administration of cells containing an inserted IL-2 gene and producing IL-2 inhibits growth of human-tumors in nu nu mice. **Immunol Lett.** **1988**; 19:279-282: **105**
46. **Hala, K; Vilhelanova, M; Hartmanova, J.** Probable crossing-over in b-blood group system of chickens. **Immunogenetics.** **1976**; 3:97-103: **105**

47. **Rezacova, P; Pokorná, J; Brynda, J; Kozísek, M; Cígler, P; Lepsík, M; Fanfrlík, J; Rezáč, J; Grantz Sasková, K; Siegllová, I; Plesek, J; Sícha, V; Grüner, B; Oberwinkler, H; Sedláček, J; Kräusslich, HG; Hobza, P; Král, V; Konvalinka, J.** Design of HIV protease inhibitors based on inorganic polyhedral metallacarboranes. **J Med Chem** **2009**; 52(22): 7132-41: **105**
48. **Macůrek, L; Lindqvist, A; Voets, O; Kool, J; Vos, HR; Medema, RH.** Wip1 phosphatase is associated with chromatin and dephosphorylates gammaH2AX to promote checkpoint inhibition. **Oncogene** **2010**; 29(15): 2281-91: **104**
49. **Bazil, V; Horejsi, V.** Shedding of the CD44 adhesion molecule from leukocytes induced by anti-CD44 monoclonal-antibody simulating the effect of a natural receptor ligand. **J Immunol.** **1992**; 149:747-753: **103**
50. **Hasek, M; Knizetova, F; Mervartova, H.** Syngeneic lines of chickens. I. Inbreeding and selection by means of skin grafts and tests for erythrocyte antigens in C line chickens. **Folia Biol.** **1966**; 12:335-341: **102**
51. **Medema, RH; Macůrek, L.** Checkpoint control and cancer. **Oncogene** **2012**; 31(21): 2601-13: **102 REVIEW**
52. **Lipoldová, M; Demant, P.** Genetic susceptibility to infectious disease: lessons from mouse models of leishmaniasis. **Nat Rev Genet** **2006**; 7(4): 294-305: **100 REVIEW**