50 most cited papers by IMG authors
(first or corresponding) since the establishment of the Institute of Experimental Biology and Genetics in 1962

(Times cited in red)

1. 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: **450**
2. 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: **284**
3. Cinek, T; Horejsi, V. The nature of large noncovalent complexes containing glycosyl-phosphatidylinositol-anchored membrane-glycoproteins and protein tyrosine kinases. **J Immunol. 1992**;149:2262-2270: **272**
4. 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: **253**
5. Bazil, V; Horejsi, 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: **234**
6. 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: **228**
7. 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: **184**
8. 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: **178**
9. 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: **170**
10. Holan, V; Hasek, M; Bubenik, J; Chutna, J. Antigen-mediated macrophage adherence inhibition. **Cell Immunol. 1974**;13:107-116: **151**

11. 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: **145**
12. Horejsi V, Vlcek C. Novel structurally distinct family of leucocyte surface glycoproteins including CD9, CD37, CD53 and CD63. **Review. FEBS Lett. 1991**;288:1-4. **144**
13. Stefanova, I; Hilgert, I; Kristofova, 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: **142**
14. Demant, P; Capkova, J; Hinzova, E; Voracova, B. Role of histocompatibility-2-linked ss-slp region in control of mouse complement. **Proc Natl Acad Sci USA. 1973**;70:863-864: **137**
15. 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: **131**
16. 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: **129**
17. Draberova L, Draber P. 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: **121**
18. Fidlerova, 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: **118**
19. Horejsi, V; Smolek, P; Kocourek, J. Studies on lectins. 35. Water-soluble O-glycosyl polyacrylamide derivatives for specific precipitation of lectins. **Biochim Biophys Acta. 1978**;538:293-298: **116**
20. 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: **113**
21. 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: **112**
22. Bazil, V; Strominger, JL. Metalloprotease and serine-protease are involved in cleavage of CD43, CD44, and CD16 from stimulated human granulocytes - induction of cleavage of l-selectin via CD16. **J Immunol. 1994**;152:1314-1322: **112**
23. 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: **112**

24. Viklicky V, Draber P, Hasek J, Bartek J. Production and characterization of a monoclonal antitubulin antibody. **Cell Biol. Int. Rep. 1982**;6:725-31: **110**
25. Kozmik Z, Holland ND, Kalousova 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: **110**
26. **Demant, P**. H-2 gene complex and its role in alloimmune reactions. Transplant Rev. 1973;15:162-200: **106**
27. **Horejsi, V**; Zhang, WG; Schraven, B. Transmembrane adaptor proteins: Organizers of immunoreceptor signalling. **Nat Rev Immunol. 2004**;4:603-616: **105**
28. 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**
29. Forejt, J; Gregorova, S. Genetic-analysis of genomic imprinting - an imprintor-1 gene controls inactivation of the paternal copy of the mouse tme locus. **Cell. 1992**;70:443-450: **103**
30. Hala, K; Vilhelmova, M; Hartmanova, J. Probable crossing-over in b-blood group system of chickens. **Immunogenetics 1976**;3:97-103: **102**
31. 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: **101**
32. Cigler, P; Kozisek, M; Rezacova, P; Brynda, J; Otwinowski, Z; Pokorna, J; Plesek, J; Gruner, B; Doleckova-Maresova, L; 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: **100**
33. **Horejsi, V**. The roles of membrane microdomains (rafts) in T cell activation. **Immunol Rev. 2003**;191:148-164: **100**
34. 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: **98**
35. Lachmann, PJ; Grennan, D; Martin, A; Demant P. Identification of Ss protein as murine C4. **Nature. 1975**;258:242-243: **98**
36. **Forejt, J**. Hybrid sterility in the mouse. **Trends Genet. 1996**;12:412-417: **97**
37. Ivanyi, P; Starka, L; Hampl, R; Mickova, M. Genetic association between H-2 gene and testosterone metabolism in mice. **Nature New Biol. 1972**;238: 280-281: **97**

38. 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: **96**

39. Bohuslav, J Cinek, T; Horejsi, V. Large, detergent-resistant complexes containing murine antigens Thy-1 and Ly-6 and protein tyrosine kinase p56(Lck*) **Eur J Immunol. 1993**;23:825-831: **94**

40. Stefanova, I; Horejsi, V. Association of the CD59 and CD55 cell-surface glycoproteins with other membrane molecules. **J Immunol. 1991**;147:1587-1592: **91**

41. Bubenik J, Perlmann P, Indrova M, Simova J, Jandlova T, Neuwirt J. Growth inhibition of MC-induced mouse sarcoma by TCGF (IL-2)-containing preparations. **Cancer Immunol Immunother. 1983**;14:205-206: **89**

42. Hala, K; Hasek, M; Hlozanek, I; Hort, J; Knizetova F; Mervartova H. Syngeneic lines of chickens. 2. Inbreeding and selection within M W and I lines and crosses between C M and W lines. **Folia Biol. 1966**;12:407-422: **89**

43. Lemonnier, F; Neauportsautes, C; Kourilsky, FM; Demant, P. Relationships between private and public H-2 specificities on cell-surface. **Immunogenetics. 1975**;2:517-529: **88**

44. 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: **85**

45. Cerny, J; Stockinger, H; Horejsi, V. Noncovalent associations of T lymphocyte surface proteins. **Eur J Immunol. 1996**;26:2335-2343: **85**

46. Forejt, J; Gregorova, S. Meiotic studies of translocations causing male-sterility in mouse. 1. Autosomal reciprocal translocations. **Cytogenet Cell Genet. 1977**;19:159-179: **85**

47. Mihola O, Trachtulec Z, Vlcek C, Schimenti JC, Forejt J. A mouse speciation gene encodes a meiotic histone H3 methyltransferase. **Science 2009**;323:373-375: **82**

48. Dostalova, Z; Calvete, JJ; Sanz, L; Topferpetersen, E. Quantitation of boar spermadhesins in accessory sex gland fluids and on the surface of epididymal, ejaculated and capacitated spermatozoa. **Biochim Biophys Acta-Gen Subj. 1994**;1200:48-54: **81**

49. Bazil, V; Strominger, JL. CD43, the major sialoglycoprotein of human-leukocytes, is proteolytically cleaved from the surface of stimulated lymphocytes and granulocytes. **Proc Natl Acad Sci USA. 1993**;90:3792-3796: **81**

50. Volna, P; Lebduska, P; Draberova, L; Simova, S; Heneberg, P; Boubelik, M; Bugajev, V; Malissen, B; Wilson, BS; Horejsi, V; Malissen, M; Draber, P. Negative regulation of mast cell signaling and function by the adaptor LAB/NTAL. **J Exp Med. 2004**;200:1001-1013: **77**