

Most cited papers by IMG authors ((co)first or (co)corresponding) since 2000

xxxxx - by groups no more at IMG

xxxxx - by authors presently IMG group leaders but published before their coming to IMG (affiliation to another Czech institution)

names in italics – co-first authors

red numbers below the references – citations according to WOS

Zavadil, J; *Cermak, L*; Soto-Nieves, N; Bottinger, EP. Integration of TGF-beta/Smad and Jagged1/Notch signalling in epithelial-to-mesenchymal transition. **EMBO J.** **2004**;23:1155-1165: **396**

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: **355**

Sinkkonen, L; Hugenschmidt, T; Berninger, P; Gaidatzis, D; Mohn, F; Artus-Revel, C; 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: **300**

Philimonenko, VV; Zhao, J; Iben, S; *Dingova, H*; *Kysela, K*; *Kahle, M*; Zentgraf, H; Hofmann, WA; de Lanerolle, P; *Hozak, P*; Grummt, I. Nuclear actin and myosin I are required for RNA polymerase I transcription. **Nat Cell Biol.** **2004**;6:1165-1172: **205** (affiliation to IEM AS CR)

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: **163**

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: **156**

Strnad, H; Lapidus, A; *Paces, J*; *Ulbrich, P*; *Vlcek, C*; *Paces, V*; Haselkorn, R. Complete Genome Sequence of the Photosynthetic Purple Nonsulfur Bacterium *Rhodobacter capsulatus* SB 1003. **J Bacteriol.** **2010**;192:3545-3546: **153**

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: **140**

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: **140**

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: **136**

Horejsi, V; Zhang, WG; Schraven, B. Transmembrane adaptor proteins: Organizers of immunoreceptor signalling. **Nat Rev Immunol**. 2004;4:603-616: **132 REVIEW**

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: **119**

Neuzil, J; Stantic, M; Zabalova, R; Chladova, 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: **116 REVIEW**

Horejsi, V. The roles of membrane microdomains (rafts) in T cell activation. **Immunol Rev**. 2003;191:148-164: **112 REVIEW**

Ma, J; Flemr, M; Stein, P; Berninger, P; Malik, R; Zavolan, M; Svoboda, P; Schultz, RM. MicroRNA activity is suppressed in mouse oocytes. **Curr Biol**. 2010;20:265-270: **112**

Kovarova, M; Tolar, P; Araudchandran, R; Draberova, L; Rivera, J; Draber, P. 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: **111**

Machon, O; Backman, M; Machonova, O; Kozmik, Z; Vacik, 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: **111**

Zavada, J; Zavadova, Z; Pastorek, J; Biesova, Z; Jezek, 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: **108**

Krasny, L; Gourse, RL. An alternative strategy for bacterial ribosome synthesis: Bacillus subtilis rRNA transcription regulativ. **EMBO J**. 2004;23:4473-4483: **106**