

Publications with more independent citations than their rank

(h-index = 36; h-index = 32¹; w-index = 10)

1. Csermely, P., Schnaider, T., Söti, Cs., Prohászka, Z. and Nardai, G. (1998) The 90 kDa molecular chaperone family: structure, function and clinical applications. A comprehensive review. *Pharmacology and Therapeutics*, 79, 129-168 – 426 citations
 2. Csermely, P., Szamel, M., Resch, K. and Somogyi, J. (1988) Zinc can increase the activity of protein kinase C and contributes to its binding to plasma membranes in T lymphocytes. *J. Biol. Chem.* 263, 6487-6490 – 163 citations
 3. Sreedhar, A.S. and Csermely, P. (2004) Heat shock proteins in the regulation of apoptosis. A comprehensive review. *Pharmacology and Therapeutics* 101, 227-257 – 149 citations
 4. Csermely, P. and Kahn, C.R. (1991) The 90 kDa heat shock protein (hsp-90) possesses an ATP-binding site and autophosphorylating activity. *J. Biol. Chem.* 266, 4943-4950 – 131 citations
 5. Csermely, P., Ágoston, V. and Pongor, S. (2005) The efficiency of multi-target drugs: the network approach might help drug design. *Trends Pharmacol. Sci.* 26, 178-182 – 121 citations
 6. Söti, C., Nagy, E., Giricz, Z., Vigh, L., Csermely, P. and Ferdinandy, P. (2005) Heat shock proteins as emerging therapeutic targets. *Br. J. Pharmacol.* 146, 769-780 – 119 citations
 7. Söti, Cs., Rácz, A. and Csermely, P. (2002) A nucleotide-dependent molecular switch controls ATP binding at the C-terminal domain of Hsp90: N-terminal nucleotide binding unmasks a C-terminal binding pocket. *J. Biol. Chem.* 277, 7066-7075 – 119 citations
 8. Tompa P. and Csermely P. (2004) The role of structural disorder in RNA- and protein chaperone function. *FASEB J.* 18, 1169-1175 – 118 citations
 9. Sreedhar, A.S., Kalmar, E., Csermely, P. and Shen, Y. F. (2004) Hsp90 isoforms: functions, expression and clinical importance. *FEBS Lett.* 562, 11-15 – 113 citations
 10. Csermely, P., Kajtár, J., Hollósi, M., Jalsovszky, G., Holly, S., Kahn, C.R., Gergely, P. Jr., Söti, Cs., Mihály, K. and Somogyi, J. (1993) ATP induces a conformational change of the 90 kDa heat shock protein (hsp-90). *J. Biol. Chem.* 268, 1901-1907 – 108 citations
- (Publications with more than 10-times the independent citations than their rank; w-index = 10)**
11. Kahn, C.R., White, M.F., Shoelson, S.E., Backer, J.M., Araki, E., Cheatham, B., Siddle, K., Sun, X., Wilden, P.A., Yamada, K., Csermely, P., Folli, F., Goldstein, B.J., Huertas, P., Rothenberg, P.L. and Saad, M.J.A. (1993) The insulin receptor and its substrate: molecular determinants of early events in insulin action. *Recent Progress in Hormone Res.* 48, 291-339 – 88 citations
 12. Söti, Cs. and Csermely, P. (2003) Ageing and molecular chaperones. *Exp. Gerontol.* 38, 1037-1040 – 73 citations
 13. Sreedhar, A.S., Söti, Cs. and Csermely, P. (2004) Inhibition of Hsp90: a new strategy for inhibiting protein kinases. *Biochim. Biophys. Acta (Proteomics)*, 1697, 233-242 – 69 citations
 14. Csermely, P., Miyata, Y., Schnaider, T. and Yahara, I. (1995) Autophosphorylation of grp94 (endoplasmic). *J. Biol. Chem.* 270, 6381-6388 – 68 citations
 15. Henics, T., Nagy, E., Oh, H-J., Csermely, P., von Gabain, A. and Subject, J.R. (1999) Mammalian Hsp70 and Hsp110 proteins bind to RNA motifs involved in mRNA stability. *J. Biol. Chem.*, 274:17318-17324 – 65 citations
 16. Söti Cs. and Csermely, P. (2000) Molecular chaperones and the aging process. *Biogerontology*, 1, 225-233 – 64 citations
 17. Pál, C., Papp, B., Lercher, M.J., Csermely, P., Oliver, S.G. and Hurst, L.D. (2006) Chance and necessity in the evolution of minimal metabolic networks. *Nature* 440, 667-670. IF: 29.3 – 55 citations
 18. Söti, Cs. and Csermely, P. (2002) Chaperones and aging: their role in neurodegeneration and other civilizational diseases. *Neurochem. International.* 41, 383-389 – 55 citations
 19. Csermely, P., Schnaider, T. and Szántó, I. (1995) Signalling and transport through the nuclear membrane. *Biochim. Biophys. Acta*, 1241, 425-452 – 55 citations
 20. Prohászka, Z., Németh, K., Csermely, P., Hudecz, F., Mező, G. and Füst, G. (1997) Defensins purified from human granulocytes bind C1q and activate the classical complement pathway like the transmembrane glycoprotein gp41 of HIV-1. *Molecular Immunology* 34, 809-816 – 53 citations
 21. Varga, S., Csermely, P. and Martonosi, A. (1985) The binding of vanadium(V)oligoanions to the Ca-ATPase of sarcoplasmic reticulum. *Eur. J. Biochem.* 148, 119-126 – 53 citations

¹The h-index is considering the input of the co-authors by removing all those papers, which are not belonging to the co-authors h-index dataset. These papers are marked with italics letters and their minimal citation to be included to the h-index is given.

22. Csermely, P., Martonosi, A., Levy, G.C. and Ejchart, A.J. (1985) 51-V-NMR analysis of the binding of vanadium oligoanions to sarcoplasmic reticulum. *Biochem. J.* 230, 807-815 – 50 citations
 23. Meyerovitch, J., Backer, J.M., Csermely, P., Shoelson, S.E. and Kahn, C.R. (1992) *Insulin differentially regulates protein phosphotyrosine phosphatase activity in rat hepatoma cells. Biochemistry* 31, 10338-10344 – 48 citations (87 is the minimum for considering to \hbar)
 24. Csermely, P. (2001) Chaperone-overload as a possible contributor to “civilization diseases”: atherosclerosis, cancer, diabetes. *Trends in Genetics*, 17, 701-704 – 47 citations
 25. Papp, E., Nardai, G., Söti, Cs. and Csermely, P. (2003) Molecular chaperones, stress proteins and redox homeostasis. *Biofactors* 17, 249-257 – 47 citations
 26. Soti, C., Pal, C., Papp, B. and Csermely, P. (2005) Chaperones as regulatory elements of cellular networks. *Curr. Op. Cell Biol.* 17, 210-215 – 46 citations
 27. Saad, M.J.A., Folli, F., Araki, E., Hashimoto, N., Csermely, P. and Kahn, C.R. (1994) *Regulation of insulin receptor, IRS-1 and phosphatidylinositol-3-kinase in 3T3-F442A adipocytes. Effects of differentiation, insulin and dexamethasone. Mol. Endocrinol.* 8, 545-557 – 46 citations (87 is the minimum for considering to \hbar)
 28. Hargitai, J., Lewis, H., Boros, I., Rácz, T., Fiser, A., Kurucz, I., Benjamin, I., Péntzes, Z., Vígh, L., Csermely, P. and Latchman, D.S. (2003) *Bimoclomol, a heat shock protein co-inducer acts by the prolonged activation of heat shock factor-1 (HSF-1). Biochem. Biophys. Res. Commun.* 307, 689-695 – 44 citations (64 is the minimum for considering to \hbar)
 29. Söti, C., Sreedhar, A.S. and Csermely, P. (2003) Apoptosis, necrosis and cellular senescence: chaperone occupancy as a potential switch. *Aging Cell* 2, 39-45 – 44 citations
 30. Csermely, P. (2006) *Weak links: Stabilizers of Complex Systems from Proteins to Social Networks*, Springer Verlag, pp. 392 – 43 citations
 31. Nardai, G., Csermely, P. and Söti, Cs. (2002) Chaperone function and chaperone overload in the aged. *Exp. Gerontol.* 37, 1255-1260 – 42 citations
 32. Sreedhar, A.S., Mihály, K., Pató, B., Schnaider, T., Steták, A., Kis-Petik, K., Fidy, J., Simonics, T., Maráz, A. and Csermely, P. (2003) Hsp90 inhibition accelerates cell lysis: anti-Hsp90 ribozyme reveals a complex mechanism of Hsp90 inhibitors involving both superoxide- and Hsp90-dependent events. *J. Biol. Chem.* 278, 35231-35240 – 39 citations
 33. *Stress of life from molecules to man.* (szerk.: P. Csermely) *Annals of the New York Academy of Sciences*, 1998, vol. 851 – 38 citations
 34. Csermely, P., Schnaider, T., Cheatham, B., Olson, M.O.J. and Kahn, C.R. (1993) *Insulin induces the phosphorylation of nucleolin: a possible mechanism of insulin-induced RNA-efflux from nuclei. J. Biol. Chem.* 268, 9747-9752 – 36 citations (87 is the minimum for considering to \hbar)
 35. Söti, Cs. and Csermely, P. (1998) Molecular chaperones in the etiology and therapy of cancer. *Pathology Oncology Res.* 4, 316-321 – 36 citations
 36. Csermely, P., Katopis, C. H., Wallace, B. A. and Martonosi, A. (1987) The E1 -> E2 transition of Ca-transporting ATPase in sarcoplasmic reticulum occurs without major changes in secondary structure. A circular dichroism study. *Biochem. J.* 241, 663-669 – 36 citations
- (Publications with more independent citations than their rank; h-index = 36)**
37. Chatterjee, S., Goldstein, B.J., Csermely, P. and Shoelson, S.E. (1992) Design and synthesis of potent substrates and inhibitors of PTPases. In: *Peptides: chemistry and biology* (eds.: J.E. Rivier and J.A. Smith) ESCOM Science Publishers, Leiden, Netherlands, pp. 553-555 – 35 citations
 38. Csermely, P., Sándor, P., Radics, L. and Somogyi, J. (1989) Zinc forms complexes with higher kinetical stability than calcium, 5F-BAPTA as a good example. *Biochem. Biophys. Res. Commun.* 165, 838-844 – 33 citations
 39. Török, Zs., Tsvetkova, N.M., Balogh, G., Horváth, I., Nagy, E., Péntzes, Z., Hargitai, J., Bensaude, O., Csermely, P., Crowe, J.H., Maresca, B. és Vígh, L. (2003) Heat shock protein co-inducers with no effect on protein denaturation specifically modulate the membrane lipid phase. *Proc. Natl. Acad. Sci. USA* 100, 3131-3136, IF: 10,7 – 30 citations