

## **Most cited papers in Physiological Research according to WOS/SCOPUS**

---

**867/1017** Szkudelski T. The mechanism of alloxan and streptozotocin action in B cells of the rat pancreas. *Physiol Res.* 2001;50(6):537-46. Review.

**186/190** Kalousová M, Skrha J, Zima T. Advanced glycation end-products and advanced oxidation protein products in patients with diabetes mellitus. *Physiol Res.* 2002;51(6):597-604.

**171/173** Jakus V, Rietbrock N. Advanced glycation end-products and the progress of diabetic vascular complications. *Physiol Res.* 2004;53(2):131-42. Review.

**158/163** Housa D, Housová J, Vernerová Z, Haluzík M. Adipocytokines and cancer. *Physiol Res.* 2006;55(3):233-44. Review.

**154/168** Haluzík M, Parížková J, Haluzík MM. Adiponectin and its role in the obesity-induced insulin resistance and related complications. *Physiol Res.* 2004;53(2):123-9. Review.

**147/156** Stríz I, Trebichavský I. Calprotectin - a pleiotropic molecule in acute and chronic inflammation. *Physiol Res.* 2004;53(3):245-53. Review.

**138/150** Vokurka M, Krijt J, Sulc K, Necas E. Hepcidin mRNA levels in mouse liver respond to inhibition of erythropoiesis. *Physiol Res.* 2006;55(6):667-74.

**127/138** Duracková Z. Some current insights into oxidative stress. *Physiol Res.* 2010;59(4):459-69. Review.

**138/141** Bacáková L, Filová E, Rypáček F, Svorcík V, Starý V. Cell adhesion on artificial materials for tissue engineering. *Physiol Res.* 2004;53 Suppl 1:S35-45. Review.

**120/123** Maruna P, Nedelníková K, Gürlich R. Physiology and genetics of procalcitonin. *Physiol Res.* 2000;49 Suppl 1:S57-61. Review.

**108/107** Zdychová J, Komers R. Emerging role of Akt kinase/protein kinase B signaling in pathophysiology of diabetes and its complications. *Physiol Res.* 2005;54(1):1-16. Review.

**102/112** Hansen MB. Neurohumoral control of gastrointestinal motility. *Physiol Res.* 2003;52(1):1-30. Review.

**105/93** Ognjanović BI, Marković SD, Pavlović SZ, Zikić RV, Stajin AS, Saicić ZS. Effect of chronic cadmium exposure on antioxidant defense system in some tissues of rats: protective effect of selenium. *Physiol Res.* 2008;57(3):403-11.

**99/103** Nedvídková J, Smitka K, Kopský V, Hainer V. Adiponectin, an adipocyte-derived protein. *Physiol Res.* 2005;54(2):133-40. Review.

**95/100** Stefková J, Poledne R, Hubáček JA. ATP-binding cassette (ABC) transporters in human metabolism and diseases. *Physiol Res.* 2004;53(3):235-43. Review.

**92/99** Komers R, Vrána A. Thiazolidinediones--tools for the research of metabolic syndrome X. *Physiol Res.* 1998;47(4):215-25. Review.

**91/94** Chlupác J, Filová E, Bacáková L. Blood vessel replacement: 50 years of development and tissue engineering paradigms in vascular surgery. *Physiol Res.* 2009;58 Suppl 2:S119-39. Review.

**86/81** Kolár F, Ostádal B. Molecular mechanisms of cardiac protection by adaptation to chronic hypoxia. *Physiol Res.* 2004;53 Suppl 1:S3-13. Review.

**81/90** Matz RL, Schott C, Stoclet JC, Andriantsitohaina R. Age-related endothelial dysfunction with respect to nitric oxide, endothelium-derived hyperpolarizing factor and cyclooxygenase products. *Physiol Res.* 2000;49(1):11-8. Review.

**78/79** Pytliak M, Vargová V, Mechírová V, Felšöci M. Serotonin receptors – from molecular biology to clinical applications. *Physiol Res.* 2011;60(1):15-25. Review.