

Fifteen Peer-Reviewed Publications (Selected from 42 peer-reviewed publications)

1. **Zang M**, Waelde CA, Xiang X, Rana A, Wen R, Luo Z. Microtubule integrity regulates Pak leading to Ras-independent activation of Raf-1. *Journal of Biological Chemistry*, 2001, 276: 25157-25165. [PMID: 11274179](#)
2. **Zang M**, Hayne C, Luo Z. Interaction between active Pak1 and Raf-1 is necessary for phosphorylation and activation of Raf-1. *Journal of Biological Chemistry*, 2002, 277: 4395-4405. [PMID: 11733498](#)
3. Xiang X, **Zang M**, Waelde CA, Wen R, Luo Z. Phosphorylation of S338SYY341 regulates specific interaction between Raf-1 and MEK1. *Journal of Biological Chemistry*, 2002, 277: 44996-45003. [PMID: 12244094](#)
4. **Zang M**, Dong M, Pinon DI, Ding X, Hadac EM, Miller LJ. Spatial approximation between a photolabile residue in position 13 of secretin and the amino-terminal tail of the secretin receptor. *Molecular Pharmacology*, 2003, 63: 993-1001. [PMID: 12695527](#)
5. **Zang M**, Zuccollo A, Hou X, Nagata D, Walsh K, Herscovitz H, Brecher P, Ruderman NB, Cohen RA. AMP-activated protein kinase is required for the lipid-lowering effect of metformin in insulin-resistant human HepG2 cells. *Journal of Biological Chemistry*, 2004, 279:47898-47905. [PMID: 15371448](#)
6. Zuccollo A, Shi C, Mastroianni R, Maitland KA, Weisbrod RM, **Zang M**, Xu S, Cayatte A, Corda S, Lavielle G, Verbeuren TJ, Cohen RA. The thromboxane A2 receptor antagonist, S18886, prevents enhanced atherogenesis caused by diabetes mellitus. *Circulation*, 2005, 112:3001-8. [PMID: 16260636](#)
7. **Zang M**, Xu S, Maitland-Toolan KA, Zuccollo A, Hou X, Jiang B, Wierzbicki M, Verbeuren TJ, Cohen RA. Polyphenols stimulate AMP-activated protein kinase, lower lipids, and inhibit accelerated atherosclerosis in diabetic LDL receptor-deficient mice. *Diabetes*, 2006, 55: 2180-2191. [PMID: 16873680](#)
8. **Zang M**, Gong J, Luo L, Zhou J, Xiang X, Huang W, Huang Q, Luo X, Olbrot M, Peng Y, Chen C, Luo Z. Characterization of S338 phosphorylation for Raf-1 activation. *Journal of Biological Chemistry*, 2008, 283: 31429-37. [PMCID: PMC2581588](#)
9. Hou X, Xu S, Maitland-Toolan KA, Sato K, Jiang B, Ido Y, Lan F, K. Walsh, Wierzbicki M, Verbeuren TJ, Cohen RA, **Zang M**. SIRT1 regulates hepatocyte lipid metabolism through activating AMP-Activated protein kinase. *Journal of Biological Chemistry*, 2008, 283: 20015-26. [PMCID: PMC2459285](#). (Highlighted at Faculty 1000).
10. Luo Z, **Zang M**, Wen G. AMPK as a metabolic tumor suppressor: control of metabolism and cell growth. *Future Oncology*, 2010, 6(3): 457-470. [PMCID: PMC2854547](#)
11. Wang J, Ma H, Tong C, Zhang H, Lawlis GB, Li Y, **Zang M**, Ren J, Nijland MJ, Ford SP, Nathanielsz PW, Li J. Overnutrition and maternal obesity in sheep pregnancy alter the JNK-IRS-1 signaling cascades and cardiac function in the fetal heart. *FASEB Journal*, 2010; 24:2066-2076. [PMCID: PMC2874473](#)
12. Ponugoti B, Xiao Z, Wu S, Chiang C, **Zang M**, Veenstra TD, Kemper J Kim. SIRT1 deacetylates and inhibits SREBP-1c activity in hepatic lipid metabolic regulation. *Journal of Biological Chemistry*, 2010; 285: 33959–33970. [PMCID: PMC2962496](#).
13. Xu S, Jiang B, Hou X, Shi C, Bachschmid M, **Zang M**, Verbeuren TJ, Cohen RA. High fat diet increases and the polyphenol, S17834, decreases acetylation of the SIRT1-dependent lysine-382 on p53 and apoptotic signaling in atherosclerotic lesion-prone aortic endothelium of normal mice. *J Cardiovasc Pharmacol*. 2011 Jun 3, Sep; 58(3):263-71. [PMID: 21654327](#).
14. Li Y, Xu S, Giles A, Nakamura K, Lee JW, Hou X, Donmez G, Li J, Luo Z, Walsh K, Guarente L, **Zang M**. Hepatic overexpression of SIRT1 in mice attenuates endoplasmic reticulum stress and insulin resistance in the liver. *FASEB Journal*, 2011, 25(5):1664-79. [PMID: 21321189](#).
15. Li Y, Xu S, Mihaylova M, Zheng B, Hou X, Jiang B, Park O, Luo Z, Lefai E, Shyy JY, Gao B, Wierzbicki M, Verbeuren TJ, Shaw RJ, Cohen RA, **Zang M**. AMPK phosphorylates and inhibits SREBP activity to attenuate hepatic steatosis and atherosclerosis in diet-induced

insulin resistant mice. ***Cell Metabolism*** (Impact Factor, 17.350), 2011, 13(4):376-88. [PMID: 21459323](#).

16. Li Y, Wong K, Walsh K, Gao B, **Zang M**. Retinoic acid receptor β stimulates hepatic induction of fibroblast growth factor 21 to promote fatty acid oxidation and control whole-body energy homeostasis in mice. ***Journal of Biological Chemistry***, 2013; in press. [PMID: 23430257](#)