

## Publication list

### Year 2015

1. Hui X, Gu P, Zhang J, Nie T, Pan Y, Wu D, Feng T, Zhong C, Wang Y, Lam KSL, **Xu A\***. Adiponectin Enhances Cold-Induced Browning of Subcutaneous Adipose Tissue via Promoting M2 Macrophage Proliferation. *Cell Metab.* 2015 Aug 4; 22(2):279-290. (**IF=17.565**)
2. Dong Z, Su L, Esmaili S, Iseli TJ, Ramezani-Moghadam M, Hu L, **Xu A**, George J, Wang J. Adiponectin attenuates liver fibrosis by inducing nitric oxide production of hepatic stellate cells. *J Mol Med.* 2015 Jul 9. [Epub ahead of print] (**IF=4.739**)
3. So WY, Cheng Q, **Xu A**, Lam KSL, Leung PS. Loss of fibroblast growth factor 21 action induces insulin resistance, pancreatic islet hyperplasia and dysfunction in mice. *Cell Death Dis.* 2015 Mar 26;6:e1707. (**IF=5.014**)
4. Liu Y, Wu G, Han L, Zhao K, Qu Y, **Xu A**, Huang Q. Association of the FABP2 Ala54Thr polymorphism with type 2 diabetes, obesity, and metabolic syndrome: A population-based case-control study and a systematic meta-analysis. *Genet Mol Res.* 2015 Feb 6; 14(1): 1155-1168.
5. Tang EHC, Cai Y, Wong CK, Rocha VZ, Sukhova GK, Shimizu K, Xuan G, Vanhoutte PM, Libby P, **Xu A**. Activation of prostaglandin E2-EP4 signaling reduces chemokine production in adipose tissue. *J Lipid Res.* 2015 Feb 1; 56(2):358-368. (**IF=4.95**)
6. Yau SY, Li A, **Xu A\***, So KF. Fat cell-secreted adiponectin mediates physical exercise-induced hippocampal neurogenesis: An alternative anti-depressive treatment? *Neural Regen Res.* 2015 Jan 1; 10(1):7-9.
7. Lee CH, Hui EYL, Woo YC, Yeung CY, Chow WS, Yuen MMA, Fong CHY, **Xu A\***, Lam KSL. Circulating fibroblast growth factor 21 levels predict progressive kidney disease in subjects with type 2 diabetes and normoalbuminuria. *J Clin Endocrinol Metab.* 2015 Apr 1; 100(4):1368-1375. (**IF=6.92**)
8. Liu Y, Palanivel R, Rai E, Park M, Gabor TV, Scheid MP, **Xu A**, Sweeney G. Adiponectin stimulates autophagy and reduces oxidative stress to enhance insulin sensitivity during high-fat diet feeding in Mice. *Diabetes.* 2015 Jan 1;64(1):36-48. (**IF=8.25**)
9. Lin Z, Pan X, Wu F, Ye D, Zhang Y, Wang Y, Jin L, Lian Q, Huang Y, Ding H, Triggle C, Wang K, Li X\*, **Xu A\***. Fibroblast Growth Factor 21 Prevents Atherosclerosis by Suppression of Hepatic Sterol Regulatory Element-Binding

- Protein-2 and Induction of Adiponectin in Mice. *Circulation*. 2015 Mar 26; 131(21):1861-71. (**IF=13.19**)
10. Xu C, Cai Y, Fan P, Bai B, Chen J, Deng HB, Che CM, **Xu A**, Vanhoutte PM, Wang Y. Calorie Restriction Prevents Metabolic Aging Caused by Abnormal SIRT1 Function in Adipose Tissues. *Diabetes*. 2015 May;64(5):1576-90. (**IF=8.25**)
11. Ong KL, Januszewski AS, O'Connell R, Jenkins AJ, **Xu A**, Sullivan DR, Barter PJ, Hung WT, Scott RS, Taskinen MR, Keech AC, Rye KA. The relationship of fibroblast growth factor 21 with cardiovascular outcome events in the Fenofibrate Intervention and Event Lowering in Diabetes study. *Diabetologia*. 2015 Mar;58(3):464-73. (**IF=7.03**)
12. Zhao Y, Flavahan S, Leung SW, **Xu A**, Vanhoutte PM, Flavahan NA. Elevated pressure causes endothelial dysfunction in mouse carotid arteries by increasing local angiotensin signaling. *Am J Physiol Heart Circ Physiol*. 2015 Feb 15;308(4):H358-63. (**IF=4.30**)
13. Liu Y, Sen S, Wannaiampikul S, Palanivel R, Hoo RL, Isserlin R, Bader GD, Tungtrongchitr R, Deshaies Y, **Xu A**, Sweeney G. Metabolomic profiling in liver of adiponectin knockout mice uncovers lysophospholipid metabolism as an important target of adiponectin action. *Biochem J*. 2015 Jun 19;469(1):71-82. (**IF=2.12**)
14. Chan SM, Zeng XY, Sun RQ, Jo E, Zhou X, Wang H, Li S, **Xu A**, Watt MJ, Ye JM. Fenofibrate insulates diacylglycerol in lipid droplet/ER and preserves insulin signaling transduction in the liver of high fat fed mice. *Biochim Biophys Acta*. 2015 Apr 21;1852(7):1511-1519. [Epub ahead of print] (**IF=3.83**)
15. Nie T, Hui X, Gao X, Nie B, Mao L, Tang X, Yuan R, Li K, Li P, **Xu A**, Liu P, Ding S, Han W, Cooper GJ, Wu D. Conversion of non-adipogenic fibroblasts into adipocytes by a defined hormone mixture. *Biochem J*. 2015 May 1;467(3):487-94. (**IF=2.12**)
16. Cai Y, Manio MM, Leung GPH, **Xu A**, Tang EHC, Vanhoutte PM. Thyroid hormone affects both endothelial and vascular smooth muscle cells in rat arteries. *Eur J Pharmacol*. 2015 Jan 15;747:18-28. (**IF=2.95**)
17. Ramezani-Moghadam M, Wang J, Ho V, Iseli TJ, Alzahrani B, **Xu A**, Van der Poorten D, Qiao L, George J, Hebbard L. Adiponectin reduces hepatic stellate cell migration by promoting tissue inhibitor of metalloproteinase-1 (TIMP-1) secretion. *J Biol Chem*. 2015 Feb 27;290(9):5533-42. (**IF=4.77**)
18. Peng J, Tsang JY, Ho DH, Zhang R, Xiao H, Li D, Zhu J, Wang F, Bian Z, Lui VC, **Xu A**, Tam PK, Lamb JR, Xia H, Chen Y. Modulatory effects of adiponectin on

- the polarization of tumor-associated macrophages. *Int J Cancer*. 2015 Feb 18. doi: 10.1002/ijc.29485. [Epub ahead of print] (**IF=5.00**)
19. Kim AY, Park YJ, Pan X, Shin KC, Kwak SH, Bassas AF, Sallam RM, Park KS, Alfadda AA, **Xu A**, Kim JB. Obesity-induced DNA hypermethylation of the adiponectin gene mediates insulin resistance. *Nat Commun*. 2015 Jul 3;6:7585. (**IF=11.470**)
20. Zhou M, Bao Y, Li H, Pan Y, Shu L, Xia Z, Wu D, Lam KSL, Vanhoutte PMV, **Xu A**, Jia W, Hoo RLC. Deficiency of Adipocyte Fatty Acid Binding Protein Alleviates Myocardial Ischemic Reperfusion Injury and Diabetes-induced Cardiac Dysfunction. *Clin. Sci.* 2015 Jul 3;129(7):547-59. (**IF=5.650**)

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21. Yau SY, Li A, Hoo RL, Ching YP, Christie BR, Lee TM, **Xu A\***, So KF. Physical exercise-induced hippocampal neurogenesis and antidepressant effects are mediated by the adipocyte hormone adiponectin. *Proc Natl Acad Sci U S A*. 2014 Nov 4;111(44):15810-5. (**IF=9.8**)
22. Wong CM, Wang Y, Lee JTH, Huang Z, Wu D, **Xu A\***, Lam KSL. Adropin is a brain membrane-bound protein regulating physical activity via the NB-3/notch signaling pathway in mice. *J Biol Chem*. 2014 Sep 12;289(37):25976-86. (**IF=7.9**)
23. Ng KTP, **Xu A**, Cheng Q, Guo DY, Lim ZXH, Sun CKW, Fung JHS, Poon RTP, Fan ST, Lo CM, Man K. Clinical relevance and therapeutic potential of angiopoietin-like protein 4 in hepatocellular carcinoma. *Mol Cancer*. 2014 Aug 22;13(1): 196. (**IF=5.70**)
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- after gastric bypass compared to sleeve gastrectomy in patients with type 2 diabetes. *PLoS One*. 2014 May 6;9(5):e96489. (**IF=3.68**)
27. Li JP, Chen Y, Ng CHC, Fung ML, **Xu A**, Cheng B, Tsao SW, Leung WK. Differential expression of Toll-like receptor 4 in healthy and diseased human gingiva. *J Periodontal Res*. 2014 Dec 1;49(6):845-54. (**IF=2.26**)
28. Palanivel R, Ganguly R, Turdi S, **Xu A**, Sweeney G. Adiponectin stimulates Rho-mediated actin cytoskeleton remodeling and glucose uptake via APPL1 in primary cardiomyocytes. *Metabolism*. 2014 Oct 1;63(10):1363-73. (**IF=3.67**)
29. Yau SY, Li A, Zhang ED, Christie BR, **Xu A**, Lee TMC, So KF. Sustained running in rats administered corticosterone prevents the development of depressive behaviors and enhances hippocampal neurogenesis and synaptic plasticity without increasing neurotrophic factor levels. *Cell Transplant*. 2014;23(4-5):481-92. (**IF=3.50**)
30. Ye D, Wang Y, Li H, Jia W, Man K, Lo CM, Wang Y, Lam KSL\*, **Xu A\***. Fibroblast growth factor 21 protects against acetaminophen-induced hepatotoxicity by potentiating peroxisome proliferator-activated receptor coactivator protein-1 $\alpha$ -mediated antioxidant capacity in mice. *Hepatology*. 2014 Sep;60(3):977-89. (**IF=10.74, selected for commentary @ Fibroblast growth factor 21: a new liver safeguard. [Hepatology. 2014]**)
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33. Graessler J, Bornstein TD, Goel D, Bhalla VP, Lohmann T, Wolf T, Koch M, Qin Y, Licinio J, Wong ML, Chavakis T, **Xu A**, Shevchenko A, Schuhmann K, Schwarz PEH, Schulte KM, Patel A, Bornstein SR. Lipidomic profiling before and after Roux-en-Y gastric bypass in obese patients with diabetes. *Pharmacogenomics J*. 2014 Jun;14(3):201-7. (**IF=4.93**)
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- apoptosis via the activation of AMPK/Sirt1/PGC-1a signaling. *Oncotarget*. 2014 Jul;5(13):4732-45. (**IF=6.82**)
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39. Cheng Q, Ng KT, **Xu A**, Li CX, Liu XB, Guo DY, Poon RT, Fan ST, Lo CM, Man K. The roles of lipocalin-2 in small-for-size fatty liver graft injury. *Ann Surg*. 2014 Dec;260(6):1062-72. (**IF=7.65**)
40. Liu L, Liu J, Tian XY, Wong WT, Lau CW, **Xu A**, Xu G, Ng CF, Yao X, Gao Y, Huang Y. Uncoupling protein-2 mediates DPP-4 inhibitor-induced restoration of endothelial function in hypertension through reducing oxidative stress. *Antioxid Redox Signal*. 2014 Oct 10;21(11):1571-81. (**IF=7.67**)
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44. Lin Z, Wu F, Lin S, Pan X, Jin L, Lu T, Shi L, Wang Y, **Xu A\***, Li X\*. Adiponectin protects against acetaminophen-induced mitochondrial dysfunction and acute liver injury by promoting autophagy in mice. *J Hepatol*, 2014 Oct;61(4):825-31 (**IF=10.4**)

45. Chatzigeorgiou A, Seijkens T, Zarzycka B, Engel D, Poggi M, van den Berg S, van dag Berg S, Soehnlein O, Winkels H, Beckers L, Lievens D, Driessen A, Kusters P, Biessen E, Garcia-Martin R, Klotzsche-von Ameln A, Gijbels M, Noelle R, Boon L, Hackeng T, Schulte K, **Xu A**, Vriend G, Nabuurs S, Chung K, van Dijk KW, Rensen PCN, Gerdes N, de Winther M, Block NL, Schally AV, Weber C, Bornstein SR, Nicolaes G, Chavakis T, Lutgens E. Blocking CD40-TRAF6 signaling is a therapeutic target in obesity-associated insulin resistance. *PNAS*. 2014 Feb 18;111(7):2686-91. (**IF=9.737**)
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49. Shen K, Leung SWS, Ji L, Huang Y, Hou M, **Xu A**, Wang Z, Vanhoutte PM. Notoginsenoside Ft1 activates both glucocorticoid and estrogen receptors to induce endothelium-dependent, nitric oxide-mediated relaxations in rat mesenteric arteries. *Biochem Pharmacol*. 2014 Mar 1;88(1):66-74. (**IF=4.576**)
50. Dadson K, Chasiotis H, Wannaiampikul S, Tungtrongchitr R, **Xu A**, Sweeney G. Adiponectin Mediated APPL1-AMPK Signaling Induces Cell Migration, MMP Activation, and Collagen Remodeling in Cardiac Fibroblasts. *J Cell Biochem*. 2014 Apr;115(4):785-93. (**IF= 3.062**)
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- Cardiovascular Events in Men in a Population-Based Cohort. *Arterioscler Thromb Vasc Biol.* 2014 Sep 4;34:2457-64. (**IF= 7.2**)
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58. Cheng KKY, Lam KSL, Wang Y, Wu D, Zhang M, Wang B, Li X, Hoo RLC, Huang Z, Sweeney G, **Xu A\***. Traf6-mediated ubiquitination of appl1 enhances hepatic actions of insulin by promoting the membrane translocation of akt. *Biochem J.* 2013 Oct 15 455(2):207-16. (**IF=2.12**)
59. Cao M, Mao Z, Kam C, Xiao N, Cao X, Shen C, Cheng KKY, **Xu A**, Lee KM, Jiang L, Xia J. PICK1 and ICA69 Control Insulin Granule Trafficking and Their Deficiencies Lead to Impaired Glucose Tolerance. *PLoS Biol.* 2013 Apr 23;11(4):e1001541 (**IF=11.45**)
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61. Chow WS, **Xu A**, Woo YC, Tso AWK, Cheung SCW, Fong CHY, Tse HF, Chau MT, Cheung BMY, Lam KSL. Serum fibroblast growth factor-21 levels are associated with carotid atherosclerosis independent of established cardiovascular risk factors. *Arterioscler Thromb Vasc Biol.* 2013 Oct;33(10):2454-9. (**IF=5.53**)
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63. Liang CF, Liu JTC, Wang Y, **Xu A**, Vanhoutte PM. Toll-Like Receptor 4 Mutation Protects Obese Mice Against Endothelial Dysfunction by Decreasing NADPH Oxidase Isoforms 1 and 4. *Arterioscler Thromb Vasc Biol.* 2013 Apr;33(4):777-84. (**IF=6.368**)
64. Zhang AJX, To KKW, Li C, Lau CCY, Poon VKM, Chan CCS, Zheng BJ, Hung IFN, Lam KSL, **Xu A**, Yuen KY. Leptin Mediates the Pathogenesis of Severe 2009 Pandemic Influenza A(H1N1) Infection Associated With Cytokine Dysregulation in Mice With Diet-Induced Obesity. *J Infect Dis.* 2013 Apr 15;207(8):1270-80. (**IF=6.410**)
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81. Cheng KKY, Lam KSL, Wu D, Wang Y, Sweeney G, Hoo RLC, Zhang J, **Xu A\***. APPL1 potentiates insulin secretion in pancreatic beta-cells by increasing Akt-dependent expression of SNARE proteins in mice. *PNAS*, 2012 Jun 5; 109(23):8919-24. (**IF=9.77**, direct submission, selected for commentary@ Dual functions of adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (APPL1) in insulin signaling and insulin secretion. [Proc Natl Acad Sci U S A. 2012])
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