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Research Interest:

1. The pathological role of adipocyte fatty acid binding protein (A-FABP) in the development of non-alcoholic fatty liver disease
2. The interplay between A-FABP and ER stress in the pathogenesis of diabetes related complications
3. Hormonal regulation of the fibroblast growth factor (FGF)21 gene and its effect on the treatment of diabetic-related complications

Selected Publication:

1. Chang JL, Li YM, Huang Y, Lam KS, ***Hoo RL***, Wong WT, Cheng KY, Wang YQ, Vanhoutte PM, Xu A 2010 Adiponectin prevents diabetic premature senescence of endothelial progenitor cells by suppressing the p38 MAP kinase/ p16 ^{INK4A} signaling pathway. ***Diabetes*** 59(11):2949-2959
2. ***Hoo RL***, Wong JY, Qiao CF, Xu A, Xu HX, Lam KS 2010 The effective fraction Rx from Radix Astragali alleviated glucose intolerance, insulin resistance and hypertriglyceridemia in db/db Type 2 diabetic mouse model via its anti-inflammation activity. ***Nutrition and Metabolism.*** 7(1):67
3. Xu A, Wang H, ***Hoo RL***, Sweeney G, Vanhoutte PMGR, Wang Y, Wu D, Chu W, Qin G, Lam KS 2009 Selective elevation of adiponectin production by the natural compounds derived from a medicinal herb alleviates insulin resistance and glucose intolerance in obese mice. ***Endocrinology*** 150 (2): 625-633
4. Zhou M, Xu A, Tam PK, Lam KS, Chan L, ***Hoo RL***, Liu J, Chow KH, Wang Y 2008 Mitochondrial dysfunction contributes to the increased vulnerabilities of adiponectin knockout mice to liver injury. ***Hepatology*** 48(4):1087-96.
5. ***Hoo RL***, Yeung CY, Lam KS, Xu A 2008 Inflammatory biomarkers associated with obesity and insulin resistance: a focus on lipocalin-2 and adipocyte fatty acid binding protein, ***Expert Rev. Endocrinol. Metab.*** 3: 29-41
6. ***Hoo RL***, Chow WS, Yau JM, Xu A, Tso AW, Tse HF, Fong CH, Tam S, Chan L and Lam KS 2007 Adiponectin mediates the suppressive effect of rosiglitazone on plasminogen activator inhibitor-1 production, ***Arterioscler Thromb Vasc Biol.*** 27: 2777-82
7. Xu A, Lam MC, Chan KW, Wang Y, Zhang J, ***Hoo RL***, Xu JY, Chen B, Chow WS, Tso AW, Lam KS.2005 Angiopoietin-like protein 4 decreases blood glucose and improves glucose tolerance but induces hyperlipidemia and hepatic steatosis in mice**.** ***Proc Natl***

Acad Sci U S A. 2005 102(17):6086-6091

8. Xu A, Chan KW, ***Hoo RL***, Wang Y, Tan KC, Zhang J, Chen B, Lam MC, Tse C, Cooper GJ, Lam KS 2005 Testosterone selectively reduces the high molecular weight form of adiponectin by inhibiting its secretion from adipocytes***.*** ***J Biol Chem***. 280(18):18073-18080