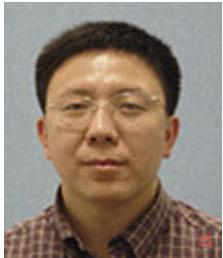


A: PERSONAL PROFILE



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B: ACADEMIC QUALIFICATIONS

Bachelor of Clinical Medicine (1989, *Anhui Medical University, China*),
Master of Sciences & Doctor of philosophy (2000, *University of Auckland, New Zealand*)

C: PROFESSIONAL APPOINTMENTS

1. **Chair Professor**, Department of Medicine & Department of Pharmacology, HKU (May 01, 2018-present)
2. **Professor**, Department of Medicine & Department of Pharmacology, HKU (05/2010 to April 2018);
3. **Director**, State Key Laboratory of Pharmaceutical Biotechnology, the University of Hong Kong (06/2013-)
4. **Director**, HKU antibody and immunoassay services (07/2012-)
5. **Associate professor (tenured) and Assistant Professor**, Department of Medicine, HKU (08/2005-04/2010)
6. **Research Assistant Professor**, Department of Medicine, HKU (08/2002-07/2005)
7. **Research Fellow**, School of Biological Sciences, University of Auckland & *Senior Research Scientist*, Protomix Biotechnology Corporation, New Zealand (01/2001-08/ 2002).
8. **Postdoctoral fellow**, Department of Molecular Medicine, The University of Auckland (10/1999-12/2000)

D: AWARDS

1. Faculty Research Output award, 2016
2. Croucher Senior Fellowship Award, 2015
3. Outstanding Young Researcher, University of Hong Kong, 2006
4. Best doctoral Thesis, University of Auckland, 2000

E: RESEARCH HIGHLIGHT

My research is dedicated to delineate the molecular basis that links obesity with diabetes and cardiovascular disease, with particular focuses on adipokines released from fat and liver tissues. Our team is one of the world leading groups in the field of adiponectin, a major fat-derived insulin-sensitizing adipokine with anti-diabetic, anti-atherosclerotic and anti-inflammatory properties. Our research work contributed substantially to the understanding of the molecular structure, signaling pathways and physiological functions of adiponectin. Several key findings reported from our laboratory, including the posttranslational modification in regulating oligomerization and secretion of adiponectin, the sexual dimorphism of adiponectin, and the protective role of adiponectin against obesity-related fatty liver and vascular dysfunction, have been widely accepted and extensively cited in this field.

My laboratory also identified and characterized several other novel adipokines and hepatokines, including adipocyte fatty acid binding protein (A-FABP), FGF21, Angptl4 and lipocalin-2. In particular, we have discovered the secreted form of A-FABP, and have demonstrated its association with obesity-related metabolic syndrome, diabetes and atherosclerosis in humans. The discovery of these new biomarkers by our group uncovers novel molecular links between obesity and its metabolic and cardiovascular complications, and provides new targets for therapeutic intervention and early diagnosis of diabetes and cardiovascular disease.

F: PUBLICATION LISTS

Total number: 285 (251 original papers, 34 invited reviews and book chapters)

Google Scholar: H-index 79; total citation, ~24,600

Year 2018

1. Pan X, Shao Y, Wu F, Wang Y, Xiong R, Zheng J, Tian H, Wang B, Wang Y, Zhang Y, Han Z, Qu A, Xu H, Lu A, Yang T, Li X, **Xu A**, Du J, Lin Z. FGF21 Prevents Angiotensin II-Induced Hypertension and Vascular Dysfunction by Activation of ACE2/Angiotensin-(1-7) Axis in Mice. **Cell Metab.** 2018 Jun 5;27(6):1323-1337. (**IF=20.565**)
2. Zhang F, Hu Z, Li G, Huo S, Ma F, Cui A, Xue Y, Han Y, Gong Q, Gao J, Bian H, Meng Z, Wu H, Long G, Tan Y, Zhang Y, Lin X, Gao X, **Xu A**, Li Y. Hepatic CREBZF couples insulin to lipogenesis by inhibiting insig activity and contributes to hepatic steatosis in diet-induced insulin-resistant mice. **Hepatology.** 2018 Apr 10. (**IF=14.079**)
3. Sun WY, Bai B, Luo C, Yang K, Li D, Wu D, Féleto M, Villeneuve N, Zhou Y, Yang J, **Xu A**, Vanhoutte PM, Wang Y. Lipocalin-2 derived from adipose tissue mediates aldosterone-induced renal injury. **JCI Insight.** 2018 Sep 6; 3(17). (**IF=13.251**)
4. Ji X, Zhou P, Zhong L, **Xu A**, Tsang ACO, Chan PKL. Smart Surgical Catheter for C-Reactive Protein Sensing Based on an Imperceptible Organic Transistor. **Adv Sci (Weinh).** 2018 May 2;5(6):1701053. (**IF=12.441**)
5. Li H, Wu G, Fang Q, Zhang M, Hui X, Sheng B, Wu L, Bao Y, Li P, **Xu A***, Jia W. Fibroblast growth factor 21 increases insulin sensitivity through specific expansion of subcutaneous fat. **Nat Commun.** 2018 Jan 18;9(1):272. (**IF=12.353**)
6. Wang B, Li A, Li X, Ho PW, Wu D, Wang X, Liu Z, Wu KK, Yau SS, **Xu A***, Cheng KK. Activation of hypothalamic RIP-Cre neurons promotes beiging of WAT via sympathetic nervous system. **EMBO Rep.** 2018 Apr; 19(4). (**IF=8.749**)
7. Lee CH, Cheung CYY, Woo YC, Lui DTW, Yuen MMA, Fong CHY, Chow WS, **Xu A**, Lam KSL. Circulating Adipocyte Fatty Acid-Binding Protein Concentrations Predict Multiple Mortality Outcomes among Men and Women with Diabetes. **Clin Chem.** 2018 Jul 18. (**IF=8.636**)
8. Liu Z, Jin L, Yang JK, Wang B, Wu KK, Hallenborg P, **Xu A***, Cheng KK. The Dysfunctional MDM2-p53 Axis in Adipocytes Contributes to Ageing Related Metabolic Complications by Induction of Lipodystrophy. **Diabetes.** 2018 Aug 21. (**IF=7.273**)
9. Nie T, Zhao S, Mao L, Yang Y, Sun W, Lin X, Liu S, Li K, Sun Y, Li P, Zhou Z, Lin S, Hui X, **Xu A**, Ma CW, Xu Y, Wang C, Dunbar PR, Wu D. The natural compound, formononetin, extracted from Astragalus membranaceus increases adipocyte thermogenesis by modulating PPAR γ activity. **Br J Pharmacol.** 2018 May;175(9):1439-1450. (**IF=6.81**)
10. Duan L, Wei L, Tian Y, Zhang Z, Hu P, Wei Q, Liu S, Zhang J, Wang Y, Li D, Yang W, Zong R, Xian P, Han C, Bao X, Zhao F, Feng J, Liu W, Cao W, Zhou G, Zhu C, Yu F, Yang W, Meng Y, Wang J, Chen X, Wang Y, Shen B, Zhao B, Wan J, Zhang F, Zhao G, **Xu A**, Zhang X, Liu J, Zuo X, Wang K. Novel Susceptibility Loci for Moyamoya Disease Revealed by a Genome-Wide Association Study. **Stroke.** 2018 Jan;49(1):11-18. (**IF=6.239**)

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11. Guo Y, Xu C, Wc Man A, Bai B, Luo C, Huang Y, **Xu A**, Vanhoutte PM, Wang Y. Endothelial SIRT1 prevents age-induced impairment of vasodilator responses by enhancing the expression and activity of soluble guanylyl cyclase in smooth muscle cells. **Cardiovasc Res.** 2018 Aug 27. **(IF=5.878)**
12. Ying F, Cai Y, Wong HK, Chen XY, Huang IB, Vanhoutte PM, Xia Z, **Xu A**, Tang EHC. EP4 emerges as a novel regulator of bile acid synthesis and its activation protects against hypercholesterolemia. **Biochim Biophys Acta.** 2018 Sep;1863(9):1029-1040. **(IF=5.34)**
13. Gao C, Chen X, **Xu A**, Cheng K, Shen J. Adaptor Protein APPL2 Affects Adult Antidepressant Behaviors and Hippocampal Neurogenesis via Regulating the Sensitivity of Glucocorticoid Receptor. **Mol Neurobiol.** 2018 Jul;55(7):5537-5547. **(IF=5.076)**
14. Gao C, Du Q, Li W, Deng R, Wang Q, **Xu A**, Shen J. Baicalin Modulates APPL2/Glucocorticoid Receptor Signaling Cascade, Promotes Neurogenesis, and Attenuates Emotional and Olfactory Dysfunctions in Chronic Corticosterone-Induced Depression. **Mol Neurobiol.** 2018 Apr 19. **(IF=5.076)**
15. Wang Y, Mak JCW, Lee MYK, **Xu A**, Ip MSM. Low-Frequency Intermittent Hypoxia Promotes Subcutaneous Adipogenic Differentiation. **Oxid Med Cell Longev.** 2018 Mar 12; 2018:4501757. **(IF=4.593)**
16. Huang J, Xiao Y, Zheng P, Zhou W, Wang Y, Huang G, **Xu A**, Zhou Z. Distinct neutrophil counts and functions in patients with newly diagnosed type 1 diabetes, latent autoimmune diabetes in adults, and type 2 diabetes. **Diabetes Metab Res Rev.** 2018 Aug 19:e3064. **(IF=3.904)**
17. Liu JJ, Liu S, Choo RWM, Wee SL, **Xu A**, Lim SC. Sex modulates the association of fibroblast growth factor 21 with end-stage renal disease in Asian people with Type 2 diabetes: a 6.3-year prospective cohort study. **Diabet Med.** 2018 Jul; 35(7):880-886. **(IF=3.132)**
18. Zhang C, Li T, Chiu KY, Wen C, **Xu A**, Yan CH. FABP4 as a biomarker for knee osteoarthritis. **Biomark Med.** 2018 Feb; 12(2):107-118. **(IF=2.346)**
19. Baretella O, **Xu A**, Vanhoutte PM. No Protective Effect of Constitutive Activation of AMPK in Endothelial Cells on Vascular Function in Aged Obese Mice but Augmented α 1-Adrenergic Contractions in Renal Arteries Reversible by Weight Loss. **J Vasc Res.** 2018 Jul 11; 55(4):189-202. **(IF=2.029)**

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20. Huang Z, Zhong L, Lee JTH, Zhang J, Wu D, Geng L, Wang Y, Wong CM, Xu A. The FGF21-CCL11 Axis Mediates Beiging of White Adipose Tissues by Coupling Sympathetic Nervous System to Type 2 Immunity. **Cell Metabolism,** 2017, 26: 493-508. **(IF=20.164)**
21. Shu L, Hoo RL, Wu X, Pan Y, Lee IP, Cheong LY, Bornstein SR, Rong X, Guo J, **Xu A***.. A-FABP mediates adaptive thermogenesis by promoting intracellular activation of thyroid hormones in brown adipocytes. **Nat Communications.** 2017 Jan 27;8:14147. doi: 10.1038/ncomms14147. **(IF=12.124) (Times Cited: 1)**
22. Hui X, Zhang M, Gu P, Li K, Gao Y, Wu D, Wang Y, **Xu A***. Adipocyte SIRT1 controls systemic insulin sensitivity by modulating macrophages in adipose tissue. **EMBO Rep.** 2017 Apr;18(4):645-657. **(IF=8.568) (Times Cited:2)**
23. Yang JK, Wang YY, Liu C, Shi TT, Lu J, Cao X, Yang FY, Feng JP, Chen C, Ji LN, **Xu A***. Urine Proteome Specific for Eye Damage Can Predict Kidney Damage in Patients With Type 2 Diabetes: A Case-Control and a 5.3-Year Prospective Cohort Study. **Diabetes Care.** 2017, Feb;40(2):253-260. **(IF=11.857) (Times Cited:1)**
24. Jiang X, Zhou Y, Wu KK, Chen Z, **Xu A***, Cheng KK. APPL1 prevents pancreatic beta cell death and inflammation by dampening NF κ B activation in a mouse model of type 1 diabetes. **Diabetologia.** 2017 Mar;60(3):464-474. **(IF=6.08)**

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25. Mao L, Nie B, Nie T, Hui X, Gao X, Lin X, Liu X, Xu Y, Tang X, Yuan R, Li K, Li P, Ding K, Wang Y, **Xu A**, Fei J, Han W, Liu P, Madsen L, Kristiansen K, Zhou Z, Ding S, Wu D. Visualization and Quantification of Browning Using a Ucp1-2A-Luciferase Knock-in Mouse Model. **Diabetes**. 2017 Feb;66(2):407-417. **(IF=8.684)**
26. Chen J, Li J, Yiu JHC, Lam JKW, Wong CM, Dorweiler B, **Xu A,*** Woo CW. TRIF-dependent Toll-like receptor signaling suppresses Scd1 transcription in hepatocytes and prevents diet-induced hepatic steatosis. **Science Signal.** 2017 Aug 8;10(491). **(IF=6.496)**
27. Cheang WS, Wong WT, Zhao L, Xu J, Wang L, Lau CW, Chen ZY, Ma RC, **Xu A**, Wang N, Tian XY, Huang Y. PPAR δ Is Required for Exercise to Attenuate Endoplasmic Reticulum Stress and Endothelial Dysfunction in Diabetic Mice. **Diabetes**. 2017 Feb;66(2):519-528. doi: 10.2337/db15-1657. **(IF=8.684) (Times Cited: 4)**
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29. Nie B, Nie T, Hui X, Gu P, Mao L, Li K, Yuan R, Zheng J, Wang H, Li K, Tang S, Zhang Y, Xu T, **Xu A***, Wu D, Ding S. Brown Adipogenic Reprogramming Induced by a Small Molecule. **Cell Rep.** 2017 Jan 17;18(3):624-635. **(IF=8.282) (Times cited: 1)**
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32. Wang XQ, Lo CM, Chen L, Ngan ES, **Xu A**, Poon RY. CDK1-PDK1-PI3K/Akt signaling pathway regulates embryonic and induced pluripotency. **Cell Death Differ.** 2017 Jan;24(1):38-48. doi: 10.1038/cdd.2016.84. **(IF=8.339) (Times cited: 3)**
33. Woo YC, Lee CH, Fong CH, **Xu A**, Tso AW, Cheung BM, Lam KS. Serum fibroblast growth factor 21 is a superior biomarker to other adipokines in predicting incident diabetes. **Clin Endocrinol (Oxf)**. 2017 Jan;86(1):37-43. doi: 10.1111/cen.13229. **(IF=5.455) (Times cited: 8)**
34. von Loeffelholz C, Bornstein SR, Lau G, **Xu A**, Schulz-Menger J, Exner L, Haufe S, Jordan J, Engeli S, Birkenfeld AL. ANGPTL8 (Betatrophin) is Expressed in Visceral Adipose Tissue and Relates to Human Hepatic Steatosis in Two Independent Clinical Collectives. **Horm Metab Res.** 2017 Mar 28. doi: 10.1055/s-0043-102950. [Epub ahead of print] **(IF=2.268)**
35. Chen DL, Brown R, Liess C, Poljak A, **Xu A**, Zhang J, Trenell M, Jenkins A, Chisholm D, Samocha-Bonet D, Macefield VG, Greenfield JR. Muscle Sympathetic Nerve Activity Is Associated with Liver Insulin Sensitivity in Obese Non-Diabetic Men. **Front Physiol.** 2017 Feb 28;8:101. doi: 10.3389/fphys.2017.00101. **(IF=4.134)**
36. Jo E, Li S, Liang Q, Zhang X, Wang H, Herbert TP, Jenkins TA, **Xu A**, Ye JM.. Chronic activation of PPAR α with fenofibrate reduces autophagic proteins in the liver of mice independent of FGF21. **PLoS One**. 2017 Apr 19;12(4):e0173676. **(IF=2.806) (Times cited:**

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37. Ong KL, O'Connell R, Jenkins AJ, **Xu A**, Sullivan DR, Barter PJ, Scott RS, Taskinen MR, Waldman B, Colman PG, Best JD, Simes JR, Rye KA, Keech AC; FIELD study investigators. Baseline Circulating FGF21 Concentrations and Increase after Fenofibrate Treatment Predict More Rapid Glycemic Progression in Type 2 Diabetes: Results from the FIELD Study. **Clinical Chemistry**. 2017 Jul;63(7):1261-1270. **(IF=8.008)**
38. Lee CH, Woo YC, Chow WS, Cheung CYY, Fong CHY, Yuen MMA, **Xu A**, Tse HF, Lam KSL. Role of Circulating Fibroblast Growth Factor 21 Measurement in Primary Prevention of Coronary Heart Disease Among Chinese Patients With Type 2 Diabetes Mellitus. **J Am Heart Assoc.** 2017 Jun 6;6(6). **(IF=5.117)**
39. Cheung AKL, Kwok HY, Huang Y, Chen M, Mo Y, Wu X, Lam KS, Kong HK, Lau TCK, Zhou J, Li J, Cheng L, Shang H, Zhou B, Wu H, **Xu A**, Yuen KY, Chen Z. Gut-homing Δ42PD1+Vδ2 T cells promote innate mucosal damage via TLR4 during acute HIV type 1 infection. **Nature Microbiology**. 2017 Oct;2(10):1389-1402
40. Baretella O, Chung SK, **Xu A**, Vanhoutte PM. Paradoxical lack of increase in endothelin-1 levels in obese mice - possible role of endothelin-B receptors. **Acta Pharmacol Sin.** 2017 Dec; 38(12):1699-1700. **(IF=3.562)**
41. Yang K, Deng HB, Man AWC, Song E, Zhang J, Luo C, Cheung BMY, Yuen KY, Jensen PS, Irmukhamedov A, Elie AGIM, Vanhoutte PM, **Xu A**, De Mey JGR, Wang Y. Measuring non-polyaminated lipocalin-2 for cardiometabolic risk assessment. **ESC Heart Fail.** 2017 Nov; 4(4):563-575. **(IF=1.14)**
42. Zhu C, Zhang W, Liu J, Mu B, Zhang F, Lai N, Zhou J, **Xu A**, Li Y. Marine collagen peptides reduce endothelial cell injury in diabetic rats by inhibiting apoptosis and the expression of coupling factor 6 and microparticles. **Mol Med Rep.** 2017 Oct; 16(4):3947-3957. **(IF=1.922)**
43. Zhang K, Guo Y, Ge Z, Zhang Z, Da Y, Li W, Zhang Z, Xue Z, Li Y, Ren Y, Jia L, Chan KH, Yang F, Yan J, Yao Z, **Xu A**, Zhang R. Adiponectin Suppresses T Helper 17 Cell Differentiation and Limits Autoimmune CNS Inflammation via the SIRT1/PPAR γ /ROR γ t Pathway. **Mol Neurobiol.** 2017 Sep; 54(7):4908-4920. **(IF=5.076)**
44. Wu CX, **Xu A**, Zhang CC, Olson P, Chen L, Lee TK, Cheung TT, Lo CM, Wang XQ. Notch Inhibitor PF-03084014 Inhibits Hepatocellular Carcinoma Growth and Metastasis via Suppression of Cancer Stemness due to Reduced Activation of Notch1-Stat3. **Mol Cancer Ther.** 2017 Aug; 16(8):1531-1543. **(IF=5.365)**
45. Zhang J, Li H, Zhou H, Fang L, Xu J, Yan H, Chen S, Song Q, Zhang Y, **Xu A**, Fang Q, Ye Y, Jia W. Lowered fasting chenodeoxycholic acid correlated with the decrease of fibroblast growth factor 19 in Chinese subjects with impaired fasting glucose. **Sci Rep.** 2017 Jul 20; 7(1):6042. **(IF=4.122)**
46. Zhu C, Zhang W, Mu B, Zhang F, Lai N, Zhou J, **Xu A**, Liu J, Li Y. Effects of marine collagen peptides on glucose metabolism and insulin resistance in type 2 diabetic rats. **J Food Sci Technol.** 2017 Jul; 54(8):2260-2269. **(IF=1.797)**
47. Cao G, Wang Q, Huang W, Tong J, Ye D, He Y, Liu Z, Tang X, Cheng H, Wen Q, Li D, Chau HT, Wen Y, Zhong H, Meng Z, Liu H, Wu Z, Zhao L, Flavell RA, Zhou H, **Xu A**, Yang H, Yin Z. Long-term consumption of caffeine-free high sucrose cola beverages aggravates the pathogenesis of EAE in mice. **Cell Discov.** 2017 Jun 20; 3: 17020. **(IF=4.462)**
48. Song E, Jahng JW, Chong LP, Sung HK, Han M, Luo C, Wu D, Boo S, Hinz B, Cooper MA, Robertson AA, Berger T, Mak TW, George I, Schulze PC, Wang Y, **Xu A**, Sweeney G. Lipocalin-2 induces NLRP3 inflammasome activation via HMGB1 induced TLR4 signaling in heart tissue of mice under pressure overload challenge. **Am J Transl Res.** 2017 Jun 15; 9(6):2723-2735. **(IF=3.061)**

49. Jo E, Li S, Liang Q, Zhang X, Wang H, Herbert TP, Jenkins TA, **Xu A**, Ye JM. Chronic activation of PPAR α with fenofibrate reduces autophagic proteins in the liver of mice independent of FGF21. **PLoS One**. 2017 Apr 19; 12(4):e0173676. (**IF=2.766**)
50. Baretella O, Chung SK, **Xu A**, Vanhoutte PM. Endothelial overexpression of endothelin-1 modulates aortic, carotid, iliac and renal arterial responses in obese mice. **Acta Pharmacol Sin**. 2017 Apr; 38(4):498-512. (**IF=3.562**)
51. Cheng M, Liu X, Yang M, Han L, **Xu A**, Huang Q. Computational analyses of type 2 diabetes-associated loci identified by genome-wide association studies. **J Diabetes**. 2017 Apr; 9(4):362-377. (**IF=3.213**)
52. Chan JS, Li A, Ng SM, Ho RT, **Xu A**, Yao TJ, Wang XM, So KF, Chan CL. Adiponectin Potentially Contributes to the Antidepressive Effects of Baduanjin Qigong Exercise in Women With Chronic Fatigue Syndrome-Like Illness. **Cell Transplant**. 2017 Mar 13; 26(3):493-501. (**IF=2.885**)
53. Ye D, Yang K, Zang S, Lin Z, Chau HT, Wang Y, Zhang J, Shi J, **Xu A***, Lin S, Wang Y. Corrigendum to "Lipocalin-2 mediates non-alcoholic steatohepatitis by promoting neutrophil-macrophage crosstalk via the induction of CXCR2". **J Hepatol**. 2017 Mar; 66(3):669. (**IF=14.911**)
54. Hua Y, Liang C, Zhu J, Miao C, Yu Y, **Xu A**, Zhang J, Li P, Li S, Bao M, Yang J, Qin C, Wang Z. Expression of lactate dehydrogenase C correlates with poor prognosis in renal cell carcinoma. **Tumour Biol**. 2017 Mar; 39(3):1010428317695968. (**IF=3.65**)

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G: RESEARCH GRANTS AWARDED

Funding source and grant number	Title of grants awarded	Amount (HK\$) and duration (excluding overheads)
*RGC Collaborative Research Fund (C7037-17W)	Conversion of white into brown adipocytes as a therapeutic strategy for obesity-related metabolic and vascular complications	7,439,996 HKD 06/2018 to 06/2021
*RGC Collaborative Research Fund (C7055-14G)	A Multi-disciplinary Approach to Investigate Vascular Dysfunction in Obesity and Diabetes: From Molecular Mechanism to Therapeutic Intervention	8,780,850 HKD 06/2015 to 06/2018
*Human Frontier Scientific Program (RGP0024/2017)	Mechanobiology of Obesity	2,623,500 (337,500 USD) (From 12/2017 to 12/2020)
*Croucher Senior Research Fellowships in Natural Sciences, Technology and Medicine	Vascular Dysfunction in Obesity and Diabetes: From Molecular Mechanism to Therapeutic Intervention	960,000 From 11/2016 to 11/2017
*Qatar National Research Fund (NPRP-6-428-3-133)	The protective effect of FGF21 against vascular diseases in obesity and diabetes	334,632.52 USD =2,619,133 HKD From 11/2013 to 11/2017
*National Key project of China 2016	The genetic and immunological basis of type 1 diabetes	1,300,000 RMB From 01/2017 to 12/2021
*Health and Medical Research Fund (13143731)	Activation of uncoupling protein-1 as a potential therapeutic strategy for obesity-induced endothelial dysfunction and atherosclerosis	1,159,010 From 06/2016 to 05/2018
*Health and Medical Research Fund (03144516)	FGF21 as a potential mediator for the anti-depressant effects of physical exercise	1,197,608 From 06/2016 to 05/2018

*Health and Medical Research Fund (03143966)	Deciphering the molecular mechanism of Protein Arginine Methyltransferase (PRMT) 1 in the regulation of hepatic glucose and lipid metabolism	919,296 From 06/2016 to 05/2018
*Health and Medical Research Fund (02132836)	FGF21 resistance as a potential mediator of systemic insulin resistance and type 2 diabetes	999,736 From 04/2015 to 09/2017
*Collaborative Research Fund (C4024-16W)	A multi-disciplinary study on the beneficial effects of PPARD in physical exercise against diabetic vascular complications: cellular crosstalk and energy metabolism	1,000,000 From 06/2017 to 05/2020
*General research fund (17125317)	UCP1 Independent Mechanisms Mediate the Crosstalk between Brown and White Adipose Tissue to Dissipate Energy	1,215,840 01/01/2018—31/12/2020
*General Research Fund (17166016)	Fibroblast growth factor-21 as an Autocrine Regulator of Browning and Adaptive Thermogenesis in Subcutaneous Adipose Tissue	1,247,772 HKD (01/2017-12/2019)
*General Research Fund (17128115)	Neutrophil serine proteases as a potential mediator of insulitis in autoimmune diabetes	1,092,383 HKD 01/2016 to 12/2018
*General Research Fund (HKU17124714)	Interplay between Adiponectin and Alternatively-activated Macrophages in Cold-induced Remodeling and Adaptive Thermogenesis of White Adipose Tissues	957,794 HKD 01/2015 to 12/2017
RGC collaborative research fund (HKU4/CRF/10)	A multiple disciplinary approach to investigate vascular dysfunction in obesity and diabetes: From molecular mechanism to therapeutic intervention	7,280,000 HKD 06/2011 to 06/2014
RGC collaborative research fund (HKU 2/07C)	Vascular dysfunction in obesity and diabetes: from risk prediction to therapeutic intervention	5,500,000 (From 06, 2008 to 06, 2011)
General Research Fund (HKU 784111M)	The Liver-derived Hormone FGF21 as a Novel Regulator of Vascular Function: Molecular Basis and Physiological Implications	1,437,500 HKD 01/2012 to 12/2014
General Research Fund (783010)	APPL2 as a Negative Regulator of Insulin Sensitivity and Glucose Uptake in Skeletal Muscle: A Novel Pathway Leading to Insulin Resistance?	1,380,000 01/2011 to 12/2013
General research fund (HKU 781309M)	Characterization of Novel Adaptor Proteins Involved in Regulating Insulin Sensitivity and Glucose Homeostasis: from Molecular Mechanism to Physiological Implication	1,780,000 (From 01, 2010 to 12, 2012)

General Research Fund 2008 (HKU 779608M)	Protective roles of AMP-activated protein kinase against vascular disease in diabetes: Molecular mechanisms and therapeutic intervention	1,107,306 From 01, 2009 to 12, 2011
General Research Fund 2007 (HKU 779707M)	APPL1 as a novel modulator of endothelial nitric oxide production and endothelium-dependent vasodilation	1,258, 228 From 01, 2008 to 06, 2010
General Research Fund 2006(HKU7645/06M)	Hypoxia inducible factor 1α as a mediator of obesity-induced chronic inflammation, aberrant production of adipokines, and insulin resistance	843,500 From 01, 2007 to 12, 2009
General Research Fund 2005 (HK7609/05M)	Angiopoitein-like protein 4 (ANGPTL4) as a novel therapeutic target for the treatment of insulin resistance and hyperglycemia	1, 458,040 12/2005 to 11/2008
General Research Fund 2004 (HK 7486/04M)	Characterization of the receptor and postreceptor events that underlie the anti-atherogenic and anti-diabetic actions of adiponectin	1,414,530 From 01, 2005 to 06, 2007
NSFC/RGC joint research scheme 2008 (NHKU 735_08)	Adipocyte fatty acid binding protein as a novel diagnostic marker and therapeutic target to combat vascular complications of diabetes: mechanisms and clinical implications	716,000 From 01, 2009 to 06, 2011
NSFC/RGC joint research scheme 2005 (N_HKU_727_05)	The use of adiponectin as a biomarker to identify novel anti-diabetic and anti-atherogenic agents from Chinese herbs	784,000 From 01, 2006 to 06, 2008
Guangdong-Hong Kong Technology Cooperation Funding Scheme (GHP/027/05)	Development of a Suspension Antibody Array-based Multiplex Immunoassay for Early Diagnosis and Therapeutic Monitoring of Diabetes and Cardiovascular Diseases	3,299,000 From 04, 2006 to 08, 2008
Germany/HK Joint Research Scheme (G_HK708/13)	Adipocyte fatty acid binding protein as a mediator of obesity-related medical complications	85,800 HKD 01/2014 to 12/2015
National “973” basic research on diabetes matching fund (2006CB503908)	2型糖尿病发生发展的分子机制研究 (Molecular basis of type 2 diabetes).	500,000 From 04, 2007 to 03, 2012
Innovation &Technology Fund (ITS/048/03)	Adiponectin as a novel diagnostic marker and therapeutic target for the treatment of diabetes, steatohepatitis and other metabolic disorders	2,538,960 From 07/2003 to 01 2006
Hong Kong Jockey Club Institute of Chinese Medicine Limited (HKJICM HKU-005)	An in vivo evaluation platform for assessing the anti-diabetic potential of Traditional Chinese Medicines(<i>as a project collaborator, PI: Prof. K Lam</i>)	4,857,815 From 03/2006 to 02/2009

H: PATENTS AND INVENTIONS

A: Patent Awarded as a primary inventor (6)

1. **Lipocalin-2 antibodies for methods of treatments.** US patent number: 8,481,032B2
2. **Methods and Compositions for Use of Neutrophil Elastase and Proteinase 3 as Diagnostic Biomarkers.** US PATENT Number 9,625,460
3. **Lipocalin-2 as a prognostic and diagnostic marker for heart and stroke risks,** US patent number: 8,030,097 B2
4. **Phosphoprotein target for insulin and insulin antagonists.** (US patent number: US 6,884,575)
5. **Adiponectin and uses thereof. (US patent Number: 7,365,170)**
6. **Lipocalin-2 as a diagnostic marker and therapeutic target.** US patent No: 7,645,616.

B: Patent in application as an inventor (4)

1. ***Non-polyaminated LCN2 as a biomarker for diagnosis and treatment of cardiometabolic disease,*** US patent Application number: PCT/CN2016/103792
2. **FALP proteins.** (International Application No: PCT/NZ03/00039, US 20050074756)
3. ***. Peptides with Anti-Obesity Activity and Other Related Uses, US patent application No:*** 20070275872
4. **Method for Decreasing Blood Glucose and Improving Glucose Tolerance Using Angiopoietin-like Protein 4.** US Patent Application Number: 20080095782, US patent application 20090274709