

個人簡歷 CURRICULUM VITAE

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Academic Qualifications

2000 Doctor of Philosophy PhD in Clinical Biochemistry, Imperial College London, UK

1994 Master of Science in Molecular Biology and Genetics, University of Paris XI - Orsay, France

1991 Certificates of French Language (Elementary and Middle levels), University of Paris VI - La Sorbonne, France

1987 Bachelor of Medical Sciences, Guangzhou Medical College, China

Educational Background

1997 – 2000 Imperial College, University of London, UK

1992 – 1994 University of Paris XI - Orsay, Paris, France

1990 – 1991 University of Paris VI - La Sorbonne, Paris, France

1982 – 1987 Guangzhou Medical College, Guangdong, Guangzhou China

Professional / Working Experience

2022 – Present Assistant Professor (Research), Faculty of Medicine, Macau University of Science and Technology

2022 – Present Honorary Associate Professor, Department of Surgery, University of Hong Kong

2021 – 2022 Professor, Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, P.R. China

2014 – 2022 Associate Director, Shenzhen Institute of Research and Innovation, The University of Hong Kong

2014 – 2020 Researcher, Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, P.R. China

2005 – 2021 Honorary Assistant Professor, Department of Surgery, University of Hong Kong

2011 – 2013 Research Assistant Professor, Department of Chemistry, University of Hong Kong

2005 – 2010 Research Assistant Professor, Department of Surgery, University of Hong Kong

2004 – 2005 Postdoctoral Fellow, HKU-Pasteur Research Centre Limited

2000 – 2004 Postdoctoral Fellow, Department of Surgery, University of Hong Kong, Hong Kong

Research interests and Grant records

My research interests primarily in the area of immunology & developmental biology. Specifically, the birth defect in neonatal infant, target to the Biliary Atresia. The research grants obtained including National Natural Science Foundation of China; Food and Health Bureau, Hong Kong; General Research Fund (GRF), Hong Kong; Seed Funding Programme for Basic Research, HKU and Competitive Earmarked Research Grants (CERG), Hong Kong

Publications

1. Pueyo M, *Chen Y, D'Angelo G, Michel J. (1998). Regulation of vascular endothelial growth factor expression by cAMP in rat aortic smooth muscle cells. *Experimental Cell Research* 238: 354-8 (*Equal contribution)
2. Anning P, Chen Y, Lamb N, Mumby S, Quinlan G, Evans T, Gutteridge J. (1999). Iron overload upregulates haem oxygenase 1 in the lung more rapidly than in other tissues. *FEBS letters* 447: 111-4
3. Blease K, Chen Y, Hellewell PG, Burke-Gaffney A. (1999). Lipoteichoic acid inhibits lipopolysaccharide-induced adhesion molecule expression and IL-8 release in human lung microvascular endothelial cells. *J Immunol*. 1999 Dec 1;163(11):6139-47.
4. Quinlan G, Chen Y, Evans T, Gutteridge J. (2001). Iron signalling regulated directly and through oxygen: implications for sepsis and the acute respiratory distress syndrome. *Clinical Science* 100: 169-82
5. Chen Y, Lui VCH, Sham MH, Tam PKH. (2002). Distribution of carbon monoxide-producing neurons in human colon and in Hirschsprung's disease patients. *Human Pathology* 33: 1030-6
6. Upton R, *Chen Y, Mumby S, Gutteridge J, Anning P, Nicholson A, Evans T, Quinlan G. (2003). Variable tissue expression of transferrin receptors: relevance to acute respiratory distress syndrome. *European Respiratory Journal* 22: 335 (*Equal contribution)
7. Chen Y, Lui VC, Rooijen NV, Tam PK. (2004). Depletion of intestinal resident macrophages prevents ischaemia reperfusion injury in gut. *Gut* 53: 1772-80
8. Mumby S, Upton R, Chen Y, Stanford S, Quinlan G, Nicholson A, Gutteridge J, Lamb N, Evans T. (2004). Lung heme oxygenase-1 is elevated in acute respiratory distress syndrome. *Critical Care Medicine* 32: 1130
9. Chan VSF, Chau SY, Tian L, Chen Y, Kwong SKY, Quackenbush J, Dallman M, Lamb J, Tam PKH. (2006). Sonic hedgehog promotes CD4(+) T lymphocyte proliferation and modulates the expression of a subset of CD28-targeted genes. *International Immunology* 18: 1627-36
10. Chen Y, Li XS, Tian LN, Lui VCH, Dallman MJ, Lamb JR, Tam PKH. (2007). Inhibition of sonic hedgehog signaling reduces chronic rejection and prolongs allograft survival in a rat orthotopic small bowel transplantation model. *Transplantation* 83: 1351-7
11. Chen Y, Liu Y, Yuan ZW, Tian LN, Dallman MJ, Thompson PW, Tam PKH, Lamb JR. (2007). Rosiglitazone suppresses cyclosporin-induced chronic transplant dysfunction and prolongs survival of rat cardiac allografts. *Transplantation* 83: 1602-10
12. Li X, Chen Y, Tian L, Lui VC, Tam PK. (2007). Increased iNOS-expressing macrophage in long-term surviving rat small-bowel grafts. *Am J Surg* 194: 248-54
13. Liu Y, *Chen Y, Lamb JR, Tam PK. (2007). Triptolide, a component of Chinese herbal medicine, modulates the functional phenotype of dendritic cells. *Transplantation* 84: 1517-26 (*Equal contribution)
14. Chen Y, Kam C, Liu F, Liu Y, Lui V, Lamb J, Tam P. (2008). LPS-induced up-regulation of TGF-beta receptor 1 is associated with TNF-alpha expression in human monocyte-derived macrophages. *J Leukoc Biol* 83: 1165-73

15. Liu FQ, Liu Y, Lui VC, Lamb JR, Tam PK, Chen Y. (2008). Hypoxia modulates lipopolysaccharide induced TNF-alpha expression in murine macrophages. *Exp Cell Res* 314: 1327-36
16. Liu Y, *Chen Y, Liu FQ, Lamb JR, Tam PK. (2008). Combined treatment with triptolide and rapamycin prolongs graft survival in a mouse model of cardiac transplantation. *Transpl Int* 21: 483-94 (*Equal contribution)
17. Lui VCH, Cheng WWC, Leon TYY, Lau DKC, Garcia-Bareclo MM, Miao XP, Kam MKM, So MT, Chen Y, Wall NA, Sham MH, Tam PKH. (2008). Perturbation of hoxb5 signaling in vagal neural crests down-regulates Ret leading to intestinal hypoganglionosis in mice. *Gastroenterology* 134: 1104-15
18. Sun Z, Liu F, Chen Y, Tam P, Yang D. (2008). A highly specific BODIPY-based fluorescent probe for the detection of hypochlorous acid. *Org. Lett* 10: 2171-4
19. Garcia-Barcelo M, Tang C, Ngan E, Lui V, Chen Y, So M, Leon T, Miao X, Shum C, Liu F. (2009). Genome-wide association study identifies NRG1 as a susceptibility locus for Hirschsprung's disease. *Proceedings of the National Academy of Sciences* 106: 2694
20. Sun Z, Wang H, Liu F, Chen Y, Tam P, Yang D. (2009). BODIPY-Based Fluorescent Probe for Peroxynitrite Detection and Imaging in Living Cells. *Org. Lett* 11: 1887-90
21. Garcia-Barcelo MM, Yeung MY, Miao XP, Tang CS, Chen G, So MT, Ngan ES, Lui VC, Chen Y, Liu XL, Hui KJ, Li L, Guo WH, Sun XB, Tou JF, Chan KW, Wu XZ, Song YQ, Chan D, Cheung K, Chung PH, Wong KK, Sham PC, Cherny SS, Tam PK. (2010). Genome-wide association study identifies a susceptibility locus for biliary atresia on 10q24.2. *Hum Mol Genet* 19 (14): 2917-2925
22. Liu X, Lee PY, Ho CM, Lui VC, Chen Y, Che CM, Tam PK, Wong KK. (2010). Silver nanoparticles mediate differential responses in keratinocytes and fibroblasts during skin wound healing. *ChemMedChem* 5: 468-75
23. Miao X, Leon TY, Ngan ES, So MT, Yuan ZW, Lui VC, Chen Y, Wong KK, Tam PK, Garcia-Barcelo M. (2010). Reduced RET expression in gut tissue of individuals carrying risk alleles of Hirschsprung's disease. *Hum Mol Genet* 19: 1461-7
24. Qi H, Siu SO, Chen Y, Han Y, Chu IK, Tong Y, Lau AS, Rong J. (2010). Senkyunolides reduce hydrogen peroxide-induced oxidative damage in human liver HepG2 cells via induction of heme oxygenase-1. *Chem Biol Interact* 183: 380-9
25. Yang D, Sun ZN, Peng T, Wang HL, Shen JG, Chen Y, Tam PK. (2010). Synthetic fluorescent probes for imaging of peroxynitrite and hypochlorous acid in living cells. *Methods Mol Biol* 591: 93-103
26. Hao W, Wong OY, Liu X, Lee P, Chen Y, Wong KK. (2010) ω -3 fatty acids suppress inflammatory cytokine production by macrophages and hepatocytes. *J Pediatr Surg*;45(12):2412-8.
27. Tsang JYS, Li DX, Ho D, Peng J, Xu A, Lamb J, Chen Y*, and Tam PKH. (2011) Novel immunomodulatory effects of adiponectin on dendritic cell functions, *Int Immunopharmacol.* 11(5):604-9. (*Corresponding author)
28. Chen Y, Li DX, Tsang JYS, Niu N, Peng J, Zhu J, Hui K, Xu A, Lui VCH, Lamb JR and Tam PKH. (2011) PPAR- γ signaling and IL-5 inhibition together prevents chronic rejection of MHC class II mismatched cardiac grafts. *J Heart Lung Transplant.* 30(6):698-706.
29. Tsang JY, Ratnasothy K, Li DX, Chen Y, Bucy RP, Lau KF, Smyth L, Lombardi G, Lechler R, Tam PK (2011) The potency of allospecific Tregs cells appears to correlate with T cell receptor functional avidity. *Am J Transplant.* 2011 Aug;11(8):1610-20
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31. Peng J, Li DX, Chan CYK, Lamb JR, Chen Y*, Tam KH and El-Nezami H. Effects of water uptake on melamine renal stone formation in mice. *Nephrol Dial Transplant*. 2012 Jun;27(6):2225-31. (*Corresponding author)
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35. Peng J, Tsang JYS, Li DX, Niu N, Ho DHH, Lau KF, Lui VCH, Lamb JR Chen Y* and Tam PKH Inhibition of TGF- β signaling in combination with TLR7 ligation re-programs a tumoricidal phenotype in tumor-associated macrophages. *Cancer Lett*. (2013) May 1;331(2):239-49 (*Corresponding author)
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40. Zhang RZ, Yu JK, Peng J, Wang FH, Liu HY, Lui VCh, Nicholls JM, Tam PKh, Lamb JR, Chen Y*, Xia HM. Role of CD56-expressing immature biliary epithelial cells in biliary atresia. *World J Gastroenterol*. 2016 Feb 28;22(8):2545-57. doi: 10.3748/wjg.v22.i8.2545 (*Corresponding author)
41. Chan YK, Brar MS, Kirjavainen PK, Chen Y, Peng J, Li DX, Leung FCC, El-Nezami H. High fat diet induced atherosclerosis is accompanied with low colonic bacterial diversity and altered abundances that correlates with plaque size, plasma A-FABP and cholesterol: a pilot study of high fat diet and its intervention with *Lactobacillus rhamnosus* GG (LGG) or telmisartan in ApoE^{-/-} mice *BMC Microbiol*. 2016 Nov 8;16(1):264. doi: 10.1186/s12866-016-0883-4.
42. Chan YK, El-Nezami H, Chen Y, Kinnunen K, Kirjavainen PV. Probiotic mixture VSL#3 reduce high fat diet induced vascular inflammation and atherosclerosis in ApoE(-/-) mice. *AMB Express*. 2016 Dec;6(1):61. doi: 10.1186/s13568-016-0229-5. Epub 2016 Aug 30.
43. Zhang R, Lin Z, Lui VC, Wong KK, Tam PK, Lee P, Lok CN, Lamb JR, Chen Y*, Xia H. Silver nanoparticle treatment ameliorates biliary atresia syndrome in rhesus rotavirus inoculated mice. *Nanomedicine*. 2016 Nov 25. pii: S1549-9634(16)30205-2. doi: 10.1016/j.nano.2016.11.013. [Epub ahead of print] (*Co-corresponding author)
44. Zhang RZ, Zeng XH, Lin ZF, Ming Fu, Tong YL, Lui VC, Tam PK, Lamb JR, Xia HM, Chen Y. Downregulation of Hes1 expression in experimental biliary atresia and its effects on bile duct structure. *World J Gastroenterol*. 2018 Aug 7;24(29):3260-3272. doi: 10.3748/wjg.v24.i29.3260.
45. Fu M, Lin ZF, Lin HT, Tong YL, Wang HZ, Chen HJ, Chen Y, Zhang RZ. A Silver Nanoparticle Method for Ameliorating Biliary Atresia Syndrome in Mice. *J Vis Exp*. 2018 Oct 13;(140):58158. doi: 10.3791/58158.

46. Zhang R, Lin Z, Fu M, Guan X, Yu J, Zhong W, Zeng J, Lui VCH, Tam PKH, Lamb JR, Xia H, Chen Y. The Role of Neonatal Gr-1⁺ Myeloid Cells in a Murine Model of Rhesus-Rotavirus-Induced Biliary Atresia. *Am J Pathol.* 2018 Nov;188(11):2617-2628. doi: 10.1016/j.ajpath.2018.07.024. Epub 2018 Sep 8
47. Zhang K, Lui VCH, Chen Y, Lok CN, Wong KKY. Delayed application of silver nanoparticles reveals the role of early inflammation in burn wound healing. *Sci Rep.* 2020 Apr 4;10(1):6338. doi: 10.1038/s41598-020-63464-z
48. Babu RO, Lui VCH, Chen Y*, Yiu RSW, Ye Y, Niu B, Wu Z, Zhang RZ, Yu MON, Chung PHU, Wong KKY, Xia HM, Zhang MQ, Wang B, Lendahl U, Paul Kwong Tam PKH. Beta-amyloid deposition around hepatic bile ducts is a novel pathobiological and diagnostic feature of biliary atresia. *J Hepatol* 2020 Jun 16; S0168-8278(20)30383-4. doi: 10.1016/j.jhep.2020.06.012. (*Co-first author)
49. Fu M, Tan LD, Lin ZF, Lui VCH, Tam PKH, Lamb JR, Zhang Z, Xia HM, Zhang RZ, Chen Y. Down-regulation of STAT3 enhanced chemokine expression and neutrophil recruitment in biliary atresia. *Clin Sci (Lond).* 2021 Apr 16;135(7):865-884. doi: 10.1042/CS20201366.
50. Tian Y, Huang JY, Fu M, He QM, Chen JL, Chen Y, Zhang RZ, Zhong W. A Neonatal BALB/c Mouse Model of Necrotizing Enterocolitis. *J Vis Exp.* 2021 Nov 30;(177). doi: 10.3791/63252.
51. Chang YY, Huan QC, Peng J, Bi WC, Zhai LX, Chen Y, Lamb JR, Shen XC, Bian ZX, Wu HQ, Cheng YX, Xiao HT. P2Y1R Ligation Suppresses Th17 Cell Differentiation and Alleviates Colonic Inflammation in an AMPK-Dependent Manner. *Front Immunol.* 2022 Feb 10;13:820524. doi: 10.3389/fimmu.2022.820524. eCollection 2022.
52. Zhang R, Su L, Fu M, Wang Z, Tan L, Chen H, Lin Z, Tong Y, Ma S, Ye R, Zhao Z, Wang Z, Chen W, Yu J, Zhong W, Zeng J, Liu F, Chai C, Guan X, Liu T, Liang J, Zhu Y, Gu X, Zhang Y, Lui VCH, Tam PKH, Lamb JR, Wen Z, Chen Y*, Xia H. CD177⁺ cells produce neutrophil extracellular traps to promote biliary atresia. (*Co-corresponding author). *J Hepatol* 2022 (In pressed)

Peer-reviewer

Molecular and Cellular Endocrinology (Recognized Reviewer), Asian Journal of Surgery, Cellular Physiology and Biochemistry, Clinical Sciences, Digestive Surgery, Gender Medicine, Gut, Journal of Pediatric Surgery, Molecular Medicine, Pediatric Surgery International, Thorax, Thrombosis research, Transplantation immunology. World Journal of Gastroenterology

Students' supervision

Supervisor of PhD and Msc students in the University of Hong Kong, South China University of Technology and Guangzhou Medical University. 4 PhD students and 3 Msc. Or Mphil students supervised

Patent

1. Sun ZN, Yang D, Chen Y, Liu FQ. US Non-Provisional Patent, "Reagents for Highly Specific Detection of Hypochlorous Acid Prior Related Application". Serial Number: 12/034,670. Filled February, 21 2008

2. 張銳忠，林澤鋒，陳巖，夏慧敏. 一種慢性肝硬化膽道閉鎖動物模型的構建方法[P]. 專利國別：國家級，專利號：ZL201610646020.5，授權公告日：2018.05.11。
3. 張銳忠，童燕陸，林澤鋒，付銘，陳虹交，王賀珍，陳巖，夏慧敏. 一種採用偏振光顯微鏡觀察膠原纖維的染色方法[P]. 專利國別：國家級，專利申請號：201710093358.7，申請日期：2017.02.21（正在公示中）。
4. 張銳忠，陳虹交，林澤鋒，童燕陸，王賀珍，付銘，陳巖，夏慧敏. 一種將胚胎肝內膽管上皮細胞誘導分化為含成熟膽管上皮細胞和膽管結構的細胞模型的方法[P]. 專利國別：國家級，專利號：ZL201710225143.6, 授權公告日：2019.06.25。