CURRICULUM VITAE
Linglin Xie, MD, Ph.D.

Professional Affiliation:
Associate Professor
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Education:

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
Tongji Medical College of HUST, Wuhan, China	M.D.	07/00	Medicine
Tongji Medical College of HUST, Wuhan, China	M.S. (candidate)	12/02	OB & GYN
Kansas State University, Manhattan, KS	M.S.	12/04	Human Nutrition
Kansas State University, Manhattan, KS	Ph.D.	05/08	Molecular, Cellular, and Developmental Biology
University of Chicago, Chicago, IL	Postdoctoral	05/11	Pediatrics

Professional Experience:

2001-2002 Graduate Fellow, OB&GYN. Tongji Medical College of HUST, Wuhan, China

2003-2004 Graduate Research Assistant, Laboratory of Dr. Weiqun Wang, Department of Human Nutrition, Kansas State University, Manhattan, KS

2004-2006 Graduate Teaching Assistant, Division of Biology, Kansas State University, Manhattan, KS

2006-2008 Graduate Research Assistant, Laboratories of Dr. Silvia Mora and Laboratories of Dr. Stephen K. Chapes, Division of Biology, Kansas State University, Manhattan, KS

2008-2011 Postdoctoral Scholar, Laboratory of Dr. Ivan Moskowitz, Department of Pediatrics, University of Chicago, Chicago, IL

2011- 2015 Assistant professor, Department of Biomedical Sciences, School of Medicine and Health Sciences, University of North Dakota, Grand Forks, ND

2015-2018 Assistant professor, Department of Nutrition, Texas A&M University, College Station, TX

2018-present Associate professor, Department of Nutrition, Texas A&M University, College Station, TX

Academic Honors:

2007 L. Evans Roth Award for Outstanding Graduate Student Research in Cellular, Molecular or Developmental Biology, Kansas State University

2013 Undergraduate Research Host Awards for APS STRIDE students, American Physiological Society

2016 American Society for Nutrition (ASN) & North American Chinese Society for Nutrition (NACSN) Travel Award

2020 Director's Superior Grantsmanship Award, TAMU

2021 Experimental Biology and Medicine (EBM) Outstanding Reviewer Award

Membership in professional organizations

2011- Current Member, American Heart Association

2012- Current Member, American Physiology Society

2015- Current Member, American Nutrition Society

2012- Current Member, North American Chinese Society for Nutrition
2016- Current Member, Chinese American Diabetic Association

Teaching Experience:
Undergraduate Education:
NUTR301: Nutrition through Life Cycle
NUTR481: Undergraduate Seminar
NUTR485: Directed Studies (Undergraduate research)
NUTR491: Undergraduate research
BMB494 (UND): Undergraduate Research Experience

Graduate Education:
BMB521 (UND): Seminar: Cell Signaling
BMB594 (UND): Graduate research
NUTR681: Graduate seminar
NUTR691: Graduate research

Medical Student Education (UND):
Medical Lecture: Heart development
MED602 Biology of Organ Systems I & Into to Patient Cr I
MED603 Biol Org Sys II & Introduction to Patient Care III

Committee and Service responsibilities:
State, International Level
INBRE flow cytometry and cell sorter core: consulting services of cell sorter 2012-2015
Chair of the membership committee, North American Chinese Society for Nutrition 2016-17
Chair of the Public Relation committee, North American Chinese Society for Nutrition 2017-18
Chair of Training and Communication Committee, International Chinese Nutrition Young Scholar Network 2018-20
Chair of the membership committee, North American Chinese Society for Nutrition 2020-21
Chair of the scientific committee, North American Chinese Society for Nutrition 2021-22

University level
TAMU Faculty Senator 2021-24
TAMU Grievance Committee 2021-24
TAMU Personnel& Welfare Committee 2021-24
TAMU Faculty Developmental Leave Committee 2021-24

College or Inter-College Level
TAMU AgriLife ACES fellow search Committee 2020-2022
TAMU Experimental Pathology faculty search committee 2018
TAMU GENE's Outreach & Recruiting Committee 2020-2021
Department Level
UND Biochemistry Graduate Program Final Exam Committee 2013
UND Biomedical Science Department Graduate Admission Committee 2015
TAMU NFSC Safety Committee 2017-2019
TAMU NFSC Distinguished Lecture Series Committee 2017-2019
TAMU NFSC Graduate Program Subcommittee on Awards, Scholarships, and Fellowships 2017-2020
TAMU NFSC DPD Advisory Committee 2018-2020
TAMU NFSC Undergraduate Program Committee 2018-2022
TAMU NUTR Graduate Admission Committee 2020

TAMU NUTR Ad hoc Graduate Committee 2020
TAMU NUTR Undergraduate Curriculum Redesign Committee 2021-present
TAMU NUTR DPD Advisory Committee 2018-present
TAMU NUTR Graduate Committee 2021-present

Peer-review for National awards
2021-22 Selection Committee of March of Dimes Agnes Higgins Award

Peer- review for grants
NIH
2017 June, NIH ad hoc reviewer for DEV-1study session (NIH R01 and NIH R21)
2018 March, NHLBI reviewer for Mentored Clinical and Basic Science Review Committee (MCBS)
2019 October, NIH ad hoc reviewer for ZRG1 SBIB-N: Biomarkers: Bridging Pediatric and Adult Therapeutics (NIH R01 and NIH R21)
2020 March, NHLBI reviewer for 05 ZHL1 CSR-Q (M1) Career Development Program to Promote Diversity in Health Research (K01)
2021 April, NHLBI reviewer for 05 ZHL1 CSR-Q (M1) Career Development Program to Promote Diversity in Health Research (K01)
2021 June, NHLBI Special Emphasis Panel ZHL1 CSR-Z O1 1 Career Development Program to Promote Diversity in Health Research (K01)
2022 February, review panel for Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research (K01)
2022 October, NIH ad hoc reviewer, Pregnancy and Neonatology Study Section.

AHA
2019 September, AHA peer reviewer, Fellowship Cardiovascular Development Basic Sciences committee
2020 March, AHA peer reviewer, Transformational Project Award Basic Cardiovascular Sciences
2021 March, AHA peer reviewer, 20-21 AHA Fellowships Cardiology 6 (CV Dev) Peer Review Committee
2021 November, AHA peer reviewer, 21-22 AHA Fellowships Cardiology 5 (CV Dev) Peer Review Committee
2022 October, AHA peer reviewer, 21-22 AHA Fellowships Cardiology 6 (CV Dev) Peer Review Committee

Universities
2021 September, reviewer for the pilot grant of the Center for Environmental Genetics (CEG), University of Cincinnati
2021 February, Review for the University of Louisville CIEHS Pilot Project
2022 March, review for Auburn University's Research Support Program (RSP)

Manuscript peer-review for *PLoS Genetics, Hepatology, International Journal of Obesity, Theranostics, Journal of Molecular Endocrinology, Lipids, Communications Biology, J of Endocrinology, J of Physiology, J of Nutrition, J of Nutritional Biochemistry, Molecular and Cellular Biochemistry, Obesity Review, Scientific Report, Plos One, Tumor Biology, Experimental Biology, Mechanisms of Development, Development Dynamics, Journal of Nutrition and Functional Food, Bioscience Reports, Biomedical, and Environmental Sciences, Pediatrics Report, Digestive and Liver Disease, Experimental Biology and Medicine*

Meeting/Symposium organization
Serve on the program committee for the 3rd ACRE/APS Symposium, 2016

Serve on the organization committee for the South Texas Nutrition Obesity Symposium (TAMU-TMC Joint Obesity Forum), 2017
Serve as Organizing Committee Chair for CADA South Winter Retreat, 2021
Chair for Experimental Biology and Disease Physiology Session, 3rd International Conference on Cell and Experimental Biology (CEB-2022), Boston, MA, 2022

Editorial Board
American Journal of Digestive Disease, Associate Editor, 2014- 2018
PLoS One, Academic Editor, 2018-present
Frontiers in Nutrition, Associate Editor for the Section of Immunology, 2022-present

PLoS One, Special Issue: Maternal and Child Health & Nutrition, 2019
Frontiers in Bioscience-Landmark, Special Issue on "The Effects of Maternal Nutrition on Metabolism of Infants and Children", 2021
Nutrients, Special Issue on "Pregnancy nutrition and supplements in high-risk pregnancy", 2022-present

Publications:
Graduate students and undergraduate students trained in Xie lab are underlined:

Editorial
1. **Xie L.** Mog1 to tbx5-cryab/hspb2: a novel signaling network potentiates heart failure? *Acta Physiol (Oxf).* 2021; 231(3):e13593. PMID: 33280261.

Original Research Articles
2. Ding Z, McCauley N, Qin Y, Lawless L, Guo S, Zhang L, Zhang KK, **Xie L**. FoxO1 Deficiency Enhances Cell Proliferation and Survival Under Normoglycemia and Promotes Angiogenesis Under Hyperglycemia in the Placenta. Lab Invest. 2023;103(1):100017. PMID: 36748194.

3. Liu L, Zhou Y, Liu Z, Li J, Hu L, He L, Gao G, Kidd B, Walsh A, Jiang R, Wu C, Zhang K, Xie L. Osr1 Regulates Macrophage-mediated Liver Inflammation in Nonalcoholic Fatty Liver Disease Progression. Cell Mol Gastroenterol Hepatol. 2022 :S2352-345X(22)00261-2. PMID: 36581078.

4. Peng H, Li J, Xu H, Wang X, He L, McCauley N, Zhang KK, **Xie L**. Offspring NAFLD Liver Phospholipid Profiles are Differentially Programmed by Maternal High-fat Diet and Maternal One Carbon Supplement. *J Nutr Biochem*. 2022. PMID: 36270572.

5. Xu Y, Tran L, Tang J, Nguyen V, Sewell E, Xiao J, Hino C, Wasnik S, Francis-Boyle OL, Zhang KK, **Xie L**, Zhong JF, Baylink DJ, Chen CS, Reeves ME, Cao H. FBP1-Altered Carbohydrate Metabolism Reduces Leukemic Viability through Activating P53 and Modulating the Mitochondrial Quality Control System In Vitro. *Int J Mol Sci.* 2022. PMID: 36232688; PMCID: PMC9570078.

6. Li H, Zheng J, Xu Q, Yang Y, Zhou J, Guo X, Cai Y, Cai JJ, **Xie L**, Awika J, Han X, Li Q, Kennedy L, Francis H, Glaser S, Huo Y, Alpini G, Wu C. Hepatocyte Adenosine Kinase Promotes Excessive Fat Deposition and Liver Inflammation. *Gastroenterology*. 2022:S0016-5085(22)01085-X. PMID: 36181835.

7. He L, Wang X, Ding Z, Liu L, Cheng H, Bily D, Wu C, Zhang K, **Xie L**. Deleting Gata4 in hepatocytes promoted the progression of NAFLD via increasing steatosis and apoptosis, and desensitizing insulin signaling. *J Nutr Biochem*. 2022. PMID: 36150682.

8. Zhu B, Li H, Lu B, Guo X, Wu C, Wang F, Li Q, **Xie L**, Glaser S, Francis H, Alpini G, Wu C. Indole supplementation ameliorates MCD-induced NASH in mice. *J Nutr Biochem.* 2022;107:109041. 2022. PMID: 35568098.

9. Xiong X, Cheng Z, Zhou Y, Wu F, **Xie L**, Lawless L, Dong R, Zhao Y, Yu L, Chen G. HuanglianGanjiang Tang alleviates DSS-induced colitis in mice by inhibiting necroptosis through vitamin D receptor. *J Ethnopharmacol.* 2022; 298:115655. PMID: 35988837.

10. McCauley N, Lawless L, Basra M, DePadova N, Loyola XA, Zhou H, Ko G, Zhang K, **Xie L**. In ovo exposure to cadmium causes right ventricle hyperplasia due to cell proliferation of cardiomyocytes. *Toxicol Lett.* 2022:S0378-4274(22)00134-5. PMID: 35753640.

11. Peng H, Xu H, Wu J, Li J, Wang X, Liu Z, Kim M, Jeon MS, Zhang KK, **Xie L**. Maternal One-Carbon Supplement Reduced the Risk of Non-Alcoholic Fatty Liver Disease in Male Offspring. *Nutrients.* 2022;14(12):2545. PMID: 35745277; PMCID: PMC9228996.

12. Hino C, Pham B, Park D, Yang C, Nguyen MHK, Kaur S, Reeves ME, Xu Y, Nishino K, Pu L, Kwon SM, Zhong JF, Zhang KK, **Xie L**, Chong EG, Chen CS, Nguyen V, Castillo DR, Cao H. Targeting the Tumor Microenvironment in Acute Myeloid Leukemia: The Future of Immunotherapy and Natural Products. *Biomedicines.* 2022;10(6):1410. PMID: 35740430; PMCID: PMC9219790.

13. Lynch EC, Liu Z, Liu L, Wang X, Zhang KK, **Xie L**. Disrupting Osr1 expression promoted hepatic steatosis and inflammation induced by high-fat diet in the mouse model. *PLoS One.* 2022;17(6):e0268344. PMID: 35657825; PMCID: PMC9165803.

14. Cao H, Tadros V, Hiramoto B, Leeper K, Hino C, Xiao J, Pham B, Kim DH, Reeves ME, Chen CS, Zhong JF, Zhang KK, **Xie L**, Wasnik S, Baylink DJ, Xu Y. Targeting TKI-Activated NFKB2-MIF/CXCLs-CXCR2 Signaling Pathways in FLT3 Mutated Acute Myeloid Leukemia Reduced Blast Viability. *Biomedicines.* 2022;10(5):1038. PMID: 35625776; PMCID: PMC9138861.

15. Y. Qin, N. McCauley, Z. Ding, L. Lawless, Z. Liu, K.K. Zhang, **L. Xie.** Hyperglycemia Results in Significant Pathophysiological Changes of Placental Spiral Artery Remodeling and Angiogenesis, Further Contributing to Congenital Defects. *Front Biosci (Landmark Ed)*. 2021;26(11):965-976. PMID: 34856745.

16. Peng H, Xu H, Wu J, Li J, Zhou Y, Ding Z, Siwko SK, Yuan X, Schalinske KL, Alpini G, Zhang KK, **Xie L.** Maternal High-Fat Diet Disrupted One-Carbon Metabolism in Offspring, contributing to Nonalcoholic Fatty Liver Disease. *Liver Int.* 2021. PMID: 33529448.

17. Zhou Y, Liu Z, Lynch EC, He L, Cheng H, Liu L, Li Z, Li J, Lawless L, Zhang KK, **Xie L**. Osr1 regulates hepatic inflammation and cell survival in the progression of non-alcoholic fatty liver disease. *Lab Invest.* 2020. PMID: 33005011.

18. Liu Z, Ding Z, Lynch EC, McCauley N, Zhou Y, Zhang KK, **Xie L**. Pregestational diet transition to normal-fat diet avoids the deterioration of pancreatic β-cell function in male offspring induced by maternal high-fat diet. *J Nutr Biochem.* 2020:108495. PMID: 32949717.

19. Ding Z, Zhou H, McCauley N, Ko G, Zhang KK, **Xie L.** In ovo hyperglycemia causes congenital limb defects in chicken embryos via disruption of cell proliferation and apoptosis. *Biochim Biophys Acta Mol Basis Dis.* 2020;1866(12):165955. PMID: 32877749.

20. Yang X, Wu F, Li L, Lynch EC, **Xie L**, Zhao Y, Fang K, Li J, Luo J, Xu L, Zou X, Lu F, Chen G. Celastrol alleviates metabolic disturbance in high-fat diet-induced obese mice through increasing energy expenditure by ameliorating metabolic inflammation. *Phytother Res.* 2020. PMID: 32776627.

21. Xu H, Xiang M, Qin Y, Cheng H, Chen D, Fu Q, Zhang KK, **Xie L**. Tbx5 inhibits hedgehog signaling in determination of digit identity. *Hum Mol Genet.* 2020. PMID: 31373354; PMCID: PMC7268785.

22. Zhou Y, Peng H, Xu H, Li J, Golovko M, Cheng H, Lynch EC, Liu L, McCauley N, Kennedy L, Alpini G, Zhang KK, **Xie L**. Maternal diet intervention before pregnancy primes offspring lipid metabolism in liver. *Lab Invest.* 2020;100(4):553-569. PMID: 31748681; PMCID: PMC7102928.

23. Zhou T, Kyritsi K, Wu N, Francis H, Yang Z, Chen L, O'Brien A, Kennedy L, Ceci L, Meadows V, Kusumanchi P, Wu C, Baiocchi L, Skill NJ, Saxena R, Sybenga A, **Xie L**, Liangpunsakul S, Meng F, Alpini G, Glaser S. Knockdown of vimentin reduces mesenchymal phenotype of cholangiocytes in the Mdr2$^{-/-}$ mouse model of primary sclerosing cholangitis (PSC). *EBioMedicine.* 2019;48:130-142. PMID: 31522982; PMCID: PMC6838376.

24. Liu J, Cheng H, Xiang M, Zhou L, Wu B, Moskowitz IP, Zhang K, **Xie L**. Gata4 regulates hedgehog signaling and Gata6 expression for outflow tract development. *PLoS Genet*. 2019. PMID: 31120883; PMCID: PMC6550424.

25. Chen L, Zhou T, Wu N, O'Brien A, Venter J, Ceci L, Kyritsi K, Onori P, Gaudio E, Sybenga A, **Xie L**, Wu C, Fabris L, Invernizzi P, Zawieja D, Liangpunsakul S, Meng F, Francis H, Alpini G, Huang Q, Glaser S. Pinealectomy or light exposure exacerbates biliary damage and liver fibrosis in cholestatic rats through decreased melatonin synthesis. *Biochim Biophys Acta Mol Basis Dis.* 2019;1865(6):1525-1539. PMID: 30890428; PMCID: PMC6993622.

26. Summerfield M, Zhou Y, Zhou T, Wu C, Alpini G, Zhang KK, **Xie L.** A long-term maternal diet transition from high-fat diet to normal fat diet during pre-pregnancy avoids adipose tissue inflammation in next generation. *PLoS One***.** 2018;13(12):e0209053. PMID: 30562363; PMCID: PMC6298692.

27. Zhou Y, Peng H, Liu Z, Zhang KK, Jendrusch C, Drake M, Hao Y, **Xie L**. Sex-associated preventive effects of low-dose aspirin on obesity and non-alcoholic fatty liver disease in mouse offspring with over-nutrition in utero. *Lab Invest.* 2019;99(2):244-259. Epub 2018 Nov 9. PMID: 30413815; PMCID: PMC6354253.

28. Xu H, Fu Q, Zhou Y, Xue C, Olson P, Lynch EC, Zhang KK, Wu C, Murano P, Zhang L, **Xie L**. A long-term maternal diet intervention is necessary to avoid the obesogenic effect of maternal high-fat diet in the offspring. *J Nutr Biochem.* 2018;62:210-220. PMID: 30316166; PMCID: PMC6263780.

29. Guo X, Shu C, Li H, Pei Y, Woo SL, Zheng J, Liu M, Xu H, Botchlett R, Guo T, Cai Y, Gao X, Zhou J, Chen L, Li Q, Xiao X, **Xie L**, Zhang KK, Ji JY, Huo Y, Meng F, Alpini G, Li P, Wu C. Cyclic GMP-AMP Ameliorates Diet-induced Metabolic Dysregulation and Regulates Proinflammatory Responses Distinctly from STING Activation. *Sci Rep.* 2017;7(1):6355. PMID: 28743914; PMCID: PMC5526935.

30. Zhou L, Liu J, Xiang M, Olson P, Guzzetta A, Zhang K, Moskowitz IP**, Xie L**. Gata4 potentiates second heart field proliferation and Hedgehog signaling for cardiac septation. *Proc Natl Acad Sci U S A.* 2017;114(8):E1422-E1431. PMID: 28167794; PMCID: PMC5338429.

31. **Xie L***, Zhang K, Rasmussen D, Wang J, Wu D, Roemmich JN, Bundy A, Johnson WT, Claycombe K. Effects of prenatal low protein and postnatal high fat diets on visceral adipose tissue macrophage phenotypes and IL-6 expression in Sprague Dawley rat offspring. *PLoS One*. 31;12(1):e0169581. PMID: 28141871; PMCID: PMC5283658.
* First and corresponding author

32. Hoffmann AD, Yang XH, Burnicka-Turek O, Bosman JD, Ren X, **Xie L**, Steimle JD, Vokes SA, McMahon AP, Kalinichenko VV, Moskowitz IP. Correction: Foxf Genes Integrate Tbx5 and Hedgehog Pathways in the Second Heart Field for Cardiac Septation. *PLoS Genet*. 2016 Dec 29;12(12):e1006533. doi: 10.1371/journal.pgen.1006533. Erratum for: PLoS Genet. 2014;10 (10):e1004604. PMID: 28033319; PMCID: PMC5199006.

33. Zhang KK, Xiang M, Zhou L, Liu J, Curry N, Heine Suñer D, Garcia-Pavia P, Zhang X, Wang Q, **Xie L.** Gene network and familial analyses uncover a gene network involving Tbx5/Osr1/Pcsk6 interaction in the second heart field for atrial septation. *Hum Mol Genet.* 2016;25(6):1140-51. PMID: 26744331; PMCID: PMC4764195.

34. Fu Q, Olson P, Rasmussen D, Williamson M, Keith B, Zhang KK, **Xie L**. A Short-Term Transition from a High-Fat Diet to a Normal-Fat Diet Before Pregnancy Exacerbates Female Mouse Offspring Obesity. *Int J Obes (Lond).* 40 (4): 564-72, 2016. PMID: 26607040

35. Zhou L, Liu J, Olson P, Zhang KK, Wynne J, **Xie L**. Tbx5 and Osr1 interact to regulate posterior second heart field cell cycle progression for cardiac septation. *J Mol Cell Cardiol.* 2015;85:1-12. PMID: 25986147; PMCID: PMC4530064.

36. Fu Q, Zhang KK, **Xie L**. A meta-analysis of case-control studies of high-fat diet and colorectal cancer. *Am J Digest Dis;*1(2):127-135, 2014

37. **Xie L***, Fu Q, Ortega TM, Zhou L, Rasmussen D, O'Keefe J, Zhang KK, Chapes SK. Overexpression of IL-10 in C2D macrophages promotes a macrophage phenotypic switch in adipose tissue environments. *PLoS One.* 2014;9(1):e86541. PMID: 24466141; PMCID: PMC3897709. (* First and corresponding author)

38. Clarke K, Yang Y, Marsh R, **Xie L**, Zhang KK. Comparative analysis of de novo transcriptome assembly. *Sci China Life Sci.* 2013;56(2):156-62. PMID: 23393031; PMCID: PMC5778448.

39. **Xie L**, Hoffmann AD, Burnicka-Turek O, Friedland-Little JM, Zhang K, Moskowitz IP. Tbx5-hedgehog molecular networks are essential in the second heart field for atrial septation. *Dev Cell.* 2012;23(2):280-91. PMID: 22898775; PMCID: PMC3912192.

40. **Xie L**, Weichel B, Ohm JE, Zhang K. An integrative analysis of DNA methylation and RNA-Seq data for human heart, kidney and liver. *BMC Syst Biol.* 2011;5 Suppl 3(Suppl 3):S4. doi: 10.1186/1752-0509-5-S3-S4. PMID: 22784623; PMCID: PMC3287572.

41. Zhang K, Yang Y, Devanarayan V, **Xie L**, Deng Y, Donald S. A hidden Markov model-based algorithm for identifying tumour subtype using array CGH data. *BMC Genomics*. 2011 Dec 23;12 Suppl 5(Suppl 5):S10. PMID: 22369459; PMCID: PMC3287492.

42. Ortega MT*, **Xie L***, Mora S, Chapes SK. Evaluation of macrophage plasticity in brown and white adipose tissue. *Cell Immunol*. 2011;271(1):124-33. doi: 10.1016/j.cellimm.2011.06.012. Epub 2011 Jun 23. PMID: 21757190; PMCID: PMC3168070. * Co-first author

43. Ouyang P, Jiang Y, Doan HM, **Xie L**, Vasquez D, Welti R, Su X, Lu N, Herndon B, Yang SS, Jeannotte R, Wang W. Weight Loss via exercise with controlled dietary intake may affect phospholipid profile for cancer prevention in murine skin tissues. *Cancer Prev Res (Phila).* 2010 Apr;3(4):466-77. PMID: 20233900; PMCID: PMC3081581.

44. **Xie L**, Ortega MT, Mora S, Chapes SK. Interactive changes between macrophages and adipocytes. *Clin Vaccine Immunol*. 2010 Apr;17(4):651-9. PMID: 20164250; PMCID: PMC2849320.

45. **Xie L**, O'Reilly CP, Chapes SK, Mora S. Adiponectin and leptin are secreted through distinct trafficking pathways in adipocytes. *Biochim Biophys Acta.* 2008;1782(2):99-108. PMID: 18179777; PMCID: PMC2292133.

46. **Xie L**, Jiang Y, Ouyang P, Chen J, Doan H, Herndon B, Sylvester JE, Zhang K, Molteni A, Reichle M, Zhang R, Haub MD, Baybutt RC, Wang W. Effects of dietary calorie restriction or exercise on the PI3K and Ras signaling pathways in the skin of mice. *J Biol Chem*. 2007;282(38):28025-35. PMID: 17646168.

47. Lu J*, **Xie L***, Sylvester J, Wang J, Bai J, Baybutt R, Wang W. Different gene expression of skin tissues between mice with weight controlled by either calorie restriction or physical exercise. *Exp Biol*

Med (Maywood). 2007 Apr;232(4):473-80. Erratum in: Exp Biol Med (Maywood). 2008;233(6):775. PMID: 17392482. (* co-first author)

48. **Xie L**, Boyle D, Sanford D, Scherer PE, Pessin JE, Mora S. Intracellular trafficking and secretion of adiponectin is dependent on GGA-coated vesicles. *J Biol Chem.* 2006;281(11):7253-9. doi: 10.1074/jbc.M511313200. Epub 2005 Dec 29. PMID: 16407204.

49. **Xie L**, Gao Q, Xu H. Ameliorative effect of L-methionine on Pb-exposed mice. *Biol Trace Elem Res.* 2003 Summer;93(1-3):227-36. PMID: 12835504.

50. **Xie LL**, Zhu CH, Tian WQ, Gao QH. [Effect of L-methionine on trace elements in lead-intoxicated mice]. *Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi.* 2003 Apr;21(2):108-10. Chinese. PMID: 14761526.

Review article:

51. King B, Jiang Y, Su X, Xu J, **Xie L**, Standard J, Wang W. Weight control, endocrine hormones and cancer prevention. *Exp Biol Med (Maywood).* 2013;238(5):502-8. PMID: 23856901.

52. **Xie L***, Wang W*. Weight control and cancer preventive mechanisms: role of insulin growth factor-1-mediated signaling pathways. *Exp Biol Med (Maywood)*. 2013;238(2):127-32. PMID: 23576795; PMCID: PMC4049068. * co-corresponding author.

53. Zhou Y and **Xie L**. High Fat Diet Mouse Model in the Study of Nonalcoholic Fatty Liver Disease and Hepatocellular Carcinoma. *Am J Digest Dis*, 2(1): 60-65, 2015

Keynote/Invited Presentation

1. L. Xie. A novel role of Osr1 in outflow tract development. G2 Seminar serial, TAMU, College Station, TX, 2020
2. L. Xie. A Mouse Study: Maternal Nutrition, Epigenetics and Offspring Obesity. NACSN Summit (2020): Frontiers in Nutrition (Virtual Conference), 2020
3. L. Xie. From one carbon to fatty acid: maternal high fat diet plays a transgenerational effect on offspring lipid homeostasis in the liver. IFRB SEMINAR, TAMU, College Station, TX, January, 2019
4. L. Xie. A Mechanistic Study of Maternal High Glucose and Offspring Birth Defects, TAMU diabetes Symposium on Immunometabolism and Chronic Diseases, College Station, TX, December 2018.
5. L. Xie. From one carbon to lipid: understanding the epigenetic mechanisms of maternal HF diet on offspring non-alcoholic fatty liver disease. The School of Medicine, University of New Mexico, Albuquerque, NM, October, 2018
6. L. Xie. From one carbon to lipid: understanding the epigenetic mechanisms of maternal HF diet on offspring non-alcoholic fatty liver disease. 2018 Texas Now symposium, Houston, Texas, October, 2018
7. L. Xie. From one carbon to lipid: an epigenetic study of maternal HF diet on offspring obesity. 2018 TAMU MCDM seminar series, College Station, Texas, September, 2018
8. L. Xie. A novel role of Gata4 in heart development. The People's Hospital of Guangdong, GuangZhou, China, April,
9. L. Xie. A mechanistic study of maternal high glucose and offspring birth defects. 2018 TAMNOR symposium, College Station, Texas, April, 2018
10. L. Xie. A mechanistic study of maternal high glucose and offspring birth defects. 2018 TAMNOR symposium, College Station, Texas, April, 2018
11. L. Xie. Joseph E. and Martha E. Kutscher Research Symposium, Baylor Scott & White Hospital, Temple, Texas, October, 2017
12. L. Xie. From mouse to Human: Understanding Molecular and Genetic Basis of Atrial Septal Defects. Tongji Medical College of HUST, Wuhan, China, May 2017

13. L. Xie. Understanding Molecular and Genetic Basis of Congenital Heart Diseases. Tongji Hospital International Young Scholar Forum. Wuhan, China, August 2016
14. L. Xie. Maternal Diet Interventions and Offspring Development. Tongji Hospital International Young Scholar Forum. Wuhan, China, August 2016
15. L. Xie. Heart development: gene network study of Tbx5, Gata4 and Osr1 in atrial septation. School of Life Science and Technology, Huazhong University of Science and Technology, Wuhan, China, September 19, 2014.
16. L. Xie. Heart development: gene network study of Tbx5, Gata4 and Osr1 in atrial septation. Tumor subtype identification and personalized medicine by DNA copy number variations. Union Hospital, Tongji Medical College, Wuhan, China, September 18, 2014
17. L. Xie, Unravel congenital heart disease: a novel role for Tbx5 in Atrial septation., University of North Dakota, Grand Forks, ND, December 2012

Conference Presentations:

18. N. McCauley, H. Zhou, **L. Xie**. Pcsk6 plays an important role in placenta development. Cell and Experimental Biology, Houston, Texas, July, 2021.
19. Z. Ding, H. Zhou, N. McCauley, G. Ko, K.K. Zhang, **L. Xie.** In ovo hyperglycemia causes congenital limb defects in chicken embryos via disruption of cell proliferation and apoptosis. Future of PMPH 2021, Berlin, Germany, June, 2021
20. H. Cheng, M. Xiang, L. Liu, J. Liu, K. Zhang and **L. Xie**. Osr1 regulates migration of second heart field cardiac progenitors for outflow tract development. Weinstein Cardiovascular Development Conference, Indianapolis, Indiana, May, 2019.
21. H. Peng, H. Xu, Z. Liu, E.C. Lynch, **L. Xie**, A Maternal High-Fat Diet Disrupted the One-Carbon Metabolic Process and the Methyltransfer Process in Offspring Male Mice during Non-Alcoholic Fatty Liver Disease, the 4th International Conference on Obesity and Chronic Diseases, San Francisco, California, July, 2019
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Abstract:

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Funding:

Texas A&M Center for Environmental Health Research (TiCER) pilot grant
Role: Contact-PI
Dates: 5/1/2023-03/31/2024
Title: A pilot study of prenatal cadmium exposure and adulthood cardiac hypertrophy in offspring.

Texas A&M Center for Environmental Health Research (TiCER) pilot grant
Role: Contact-PI
Dates: 2/1/2021-05/30/2023
Title: Prenatal Exposure of Cadmium on placenta function

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NIH/NIDDK
Role: Principle Investigator
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Role: MPI (PI: K. Zhang)
Dates: 2/1/2020-1/31/2021
Title: Prenatal Exposure of Cadmium on congenital heart defects

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Title: An important role of Osr1 in outflow tract development
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PI: Linglin Xie, MD, PhD
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Source: American Heart Association (AHA Identification Number: 13SDG14650009)
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Source: UND
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PI: Linglin Xie, MD, Ph.D
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