**Curriculum Vitae**Ruya Liu, BM, PhD  
Assistant Professor, Department of Medicine  
University of Maryland, Baltimore

**Date** November 28, 2023

**Contact Information**

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Foreign Languages: Chinese – mandarin (native)

**Education**

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| 2002 – 2007 | BM, Clinical Medicine; Beihua University Faculty of Medicine, Jilin, China |
| 2007 – 2012 | PhD, Medicine, Shanghai Jiaotong University School of Medicine, Shanghai, China; Thesis Advisor – Dr. Xiaoying Li |

**Post Graduate Education and Training**

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| 2006 – 2007 | Internship, Jilin No.2 Central Hospital, Jilin, China |
| 2012 – 2013 | Research Fellow, Massachusetts General Hospital, Boston, MA, USA |
| 2013 – 2014 | Postdoc, Houston Methodist Research Institute, Houston, TX, USA |
| 2014 – 2015 | Postdoc, Baylor College of Medicine, Houston, TX, USA |

**Specialty Certification**

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| 2005 | National Computer Rank Certificate of Level II – C programming language / China |

**Medical or Other Professional Licensure**

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| 2008 | International Registered Nutrition Consultant (Degree II) / International |
| 2010 | People’s Republic of China Physician’s Practice License / China |

**Employment History**

**Academic Appointments**

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| --- | --- |
| 2016 – 2017 | Instructor in Medicine, Baylor College of Medicine, Houston, TX, USA |
| 2017 – 2020 | Research Instructor in Medicine, University of Pittsburgh, Pittsburgh, PA, USA |
| 2021 – 2022 | Research Assistant Professor in Medicine (non-tenure track), University of Pittsburgh, Pittsburgh, PA, USA |
| 2022 | Adjunct Assistant Professor in Medicine, University of Pittsburgh, Pittsburgh, PA, USA |
| 2022 – present | Assistant Professor in Medicine (tenure track), University of Maryland, Baltimore, MD, USA |

**Professional Society Membership**

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**Honors and Awards**

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| 2002 – 2007 | Scholarships (every semester), Faculty of Medicine, Beihua University, China |
| 2007 | Outstanding Graduate (Top 1%), Faculty of Medicine, Beihua University, China |
| 2012 | Outstanding Graduate (Top 5%), Shanghai Jiaotong University School of Medicine, China |
| 2015 | National Heart, Lung, and Blood Institute (NHLBI) Scholarship, Keystone Symposium – Mitochondria, Metabolism and Heart Failure, NM, USA |
| 2015 | 1st place Best Presentation, Department of Medicine Housestaff Research Symposium, Baylor College of Medicine, TX, USA |
| 2018 | Basic Cardiovascular Sciences (BCVS) Abstract Travel Grant, AHA Scientific Sessions, Chicago, IL, USA |

**Local and National Service**

**National Service**

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| 2015 – 2017 | Ad hoc reviewer for journals: *Acta Oto-Laryngologica* (~1x per year), *Apoptosis* (~4x per year), *Cellular and Molecular Biology* (~1x per year), *Cellular Physiology and Biochemistry* (~1x per year), *Journal of Clinical Pharmacology and Therapeutics* (~1x per year), *Medicine (Baltimore)* (~4x per year) |
| 2021 | Early Career Reviewer for NIH Integrative Myocardial Physiology/Pathophysiology A (MPPA) study section |
| 2022 | Ad hoc reviewer for journal: *Molecular and Cellular Endocrinology* (~1x per year) |
| 2023 – | Ad hoc reviewer, American Heart Association Career Development Award - Cardiac Biology |
| 2023 – | Ad hoc reviewer, American Heart Association Second Century Early Faculty Independence Award |

**Local Service**

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| 2019 | Poster judging committee, Data & Dine Symposium, University of Pittsburgh, PA, USA |
| 2022 | Poster and oral presentation judging committee, 28th American Heart Association Annual Fellows Research Day, University of Pittsburgh, PA, USA |
| 2022 | Residency interviewer for an Internal Medicine ABIM Research Pathway candidate, University of Maryland Baltimore, Baltimore, MD, USA |
| 2023 | Oral presentation judge, 46th Annual Medical Student Research Day at University of Maryland, Baltimore, MD, USA |

**Teaching Service**

**Undergraduate Student Teaching**

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| 2015 – 2016 | Advisor and Research Supervisor at Baylor College of Medicine  1 undergraduate: daily interaction  Nikhil Balasubramanyam, pre-med undergraduate research program |
| 2019 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; spring semester and full-time in summer  Lingfei Sun, undergraduate research program |
| 2020 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; spring semester  Zachary C Frey, University of Pittsburgh undergraduate researcher (Course# ARTSC0120) |
| 2020 – 2021 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; spring and fall semesters  **Leonie C Finke**, University of Pittsburgh undergraduate researcher (Course# ARTSC0120, ARTSC0121). Leonie’s proposal entitled “Dying of a Big Heart: The Role of C5x in Cardiac Hypertrophy and Heart Failure” was awarded by **Fall 2021 Chancellor's Undergraduate Research Fellowship ($800).** |
| 2021 – 2022 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; spring and fall semesters  Deeksha Sesha, University of Pittsburgh undergraduate researcher (Course# BIOSC1901). |
| 2021 – 2022 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; spring and fall semesters, and full-time in summer  **Alay Gandhi**, University of Pittsburgh undergraduate researcher (Course# BIOSC1901). Alay’s proposal entitled “Let's Mend the Heart: Identification of a Potential Target for Cardiac Regeneration” was awarded by **Summer 2021 Brackenridge Research Fellowship** ($4,000). |
| 2021 – 2022 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; spring and fall semesters, and full-time in summer  **Gayatri Ratakonda**, University of Pittsburgh undergraduate researcher (Course# BIOSC1901). Gayatri’s first proposal entitled “The Roles of Novel Protein C5x in Promoting Weight Loss” was awarded by **Spring 2022 University Honors College Research Fellowship** ($1,000), and her second proposal entitled “Diving Deep in the Quiescence: How Cardiac Cells Divide” was awarded by **Summer 2022 Brackenridge Research Fellowship** ($4,000). |
| 2022 | Mentor and Research Preceptor at University of Pittsburgh  1 undergrad: daily interaction; 2022 spring semester and full-time in summer; weekly interaction: virtual in 2022 fall  **Christopher Katyal**, University of Pittsburgh undergraduate researcher (Course# BIOSC1901). Chris’s proposal entitled “A Novel Approach to targeting Pulmonary Hypertension: Identifying Regulators for Soluble Guanylyl Cyclase (sGC) and Establishing an In Vitro Screening System for sGC” was awarded by **Summer 2022 Brackenridge Research Fellowship** ($4,000). |
| 2022 | Mentor and Research Preceptor at University of Maryland, Baltimore  1 undergrad: weekly interaction; fall semester hybrid work  Vance Degen, University of Maryland College Park undergraduate researcher (Course# BSCI289) |

**Medical Student Teaching**

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| 2021 Fall | Guest Mentor for MD/PhD & Physician Scientist Training Program “Research Basis of Medical Knowledge”, University of Pittsburgh School of Medicine; 2 hours |

**Resident and Fellow Teaching**

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| 2019 | Advisor and Research Co-mentor at University of Pittsburgh  1 Clinical Fellows: 3 months daily interaction  **Dr. EM Garcia-Perez**, pediatric endocrine fellow at University of Pittsburgh Medical Center.Dr. Garcia-Perez’s work with me and Dr. Vijay Yechoor entitled “Yy1 Depletion in Pancreatic beta-cells Leads to Energy Source Switch from Glycolysis to Oxidative Phosphorylation” was awarded by Endocrine Society as **Outstanding Abstract** in **ENDO 2021**. |
| 2021 – 2022 | Advisor and Research Co-mentor at University of Pittsburgh  1 Clinical Fellows: 2021-2022, 5 months daily interaction  **Dr. Georgios Triantafyllou**, PACCM fellow at University of Pittsburgh Medical Center**.** Dr. Triantafyllou’s proposal “Targeting Mitochondria-Derived Reactive Oxygen Species as a Therapy for Combined Pre- and Post-Capillary Pulmonary Hypertension” was awarded by NIH **F32** in **2022** where I served as a co-mentor with Drs. Mark Gladwin and Adam Straub. |

**Post-Graduate Teaching**

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| 2008 – 2010 | Research supervisor at Shanghai Jiaotong Unviersity School of Medicine  2 Master Students: 2 years daily interaction  Jin Li, Yanling Liu; Master Student Research Program |
| 2013 | Research supervisor at Houston Methodist Research Institute  1 PhD student: 6 months daily interaction  Hongshan Yin; Exchange Scholar Research Program |
| 2020 | Advisor and Research Preceptor at University of Pittsburgh  1 PhD student: 3 months daily interaction  Xueyang Zhang, University of Pittsburgh Tsinghua University visiting research scholar program |
| 2022 | Mentor and Research Preceptor at University of Pittsburgh and University of Maryland, Baltimore  1 research assistant: 18 months daily interaction  **Alay Gandhi**, premed gap year as full-time research assistant. University of Maryland School of Medicine Center for Biomolecular Therapeutics **Early Career Development Program Pilot Grant Trainee**. | |
| 2023 Spring | Lecturer for “Muscle Cell Biology and Development” (Course #GPLS-715) at University of Maryland, Baltimore; 2 lectures in “Cardiac Development” (90min/lecture) | |
| 2023 – | Mentor and Research Preceptor at University of Maryland, Baltimore  1 research assistant: daily interaction, since September 2023  Sitthixai Vongdeuane, predoctoral gap year as full-time research assistant. | |
| 2023 – | Mentor and Research Preceptor at University of Maryland, Baltimore  1 PhD candidate: daily interaction, since October 2023  Daniela T Fuller, Interdisciplinary Training Program in Muscle Biology, NIH/NIAMS T32 AR007592-26 | |

**Grant Support**

**Active Grants:**

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| 09/02/2022- | (PI; grant trainee Gandhi)  “Uncovering the protein structure for a novel transcriptional modulator C5x”  University of Maryland School of Medicine Center for Biomolecular Therapeutics Early Career Development Program Pilot Grant  Total Direct Costs: $5,000 |

**Completed Grants:**

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| 02/01/2014-01/31/2019 | (Co-Inv, 10%; PI – VK Yechoor)  “Circadian Clock and Beta Cell Stress Adaptation”  NIH/NIDDK R01DK097160  Annual Direct Costs: $250,000  Total Direct Costs: $1,250,000  Role: experimentation, data interpretation, discussion, publication |
| 01/01/2016-12/31/2021 | (Co-Inv, 50%; PI – VK Yechoor)  “Tead1 - A Regulator of Quiescence and Proliferation in Pancreatic Beta Cells”  VA Merit 1I01BX002678  Annual Direct Costs: $150,000  Total Direct Costs: $750,000  Role: project conceptualization, experimentation, data interpretation, discussion, publication |
| 07/01/2021-12/31/2021 | (Co-Inv, 9%; PI – M Moulik)  “Tead1 and Cardiac Adaptation”  NIH/NHLBI R01HL147946  Annual Direct Costs: $250,000  Total Direct Costs: $1,250,000  Role: project conceptualization, experimentation, data interpretation, discussion, publication |
| 07/01/2021-06/30/2022 | (PI, 1%)  “C5x Emerging as a Novel Target for Cardiomyocyte Renewal and Heart Regeneration”  Samuel and Emma Winters Foundation  Annual Direct Costs: $9,932  Total Direct Costs: $9,932 |
| 04/01/2019-03/31/2023 (NCE) | (PI, 40%)  “Tead1 As a Novel Regulator of Mitochondrial Function in Cardiomyocytes”  American Heart Association Career Development Award 19CDA34770034  Annual Direct Costs: $70,000  Total Direct Costs: $210,000 |
| 07/01/2021-06/30/2023 | (PI, 20%)  “C5x as a Novel Regulator of Cardiomyocyte Homeostasis”  University of Pittsburgh Medical Center Competitive Medical Research Fund  Annual Direct Costs: $12,500  Total Direct Costs: $25,000 |
| 12/01/2021-11/30/2023 | (PI, 20%)  “Mechanistic Investigation of C5x Regulation of Cardiomyocyte Renewal”  University of Pittsburgh Department of Medicine Catalytic Grant  Annual Direct Costs: $16,930/yr1, $13,711/yr2  Total Direct Costs: $30,641 |

**Publications**

**Peer-reviewed journal articles**

1. Song M, Zhang X, **Liu R**. “A study on the correlation between death time and circadian rhythm in stroke patients.” Chin J of Misdiag. **2006** 6 (16), 3109-3110.
2. Li X, Lu Y, Sun H, Wang J, Yang J, Zhang H, Fan N, Xu J, Jiang J, **Liu R**, Li D, Liu M, and Ning G. “G protein-coupled receptor 48 upregulates estrogen receptor α expression via cAMP/PKA signaling in the male reproductive tract.” Development. **2010** Jan;137(1):151-7. PMID: 20023170
3. \*Li N, \***Liu R**, Zhang H, Yang J, Sun S, Zhang M, Liu Y, Lu Y, Wang W, Mu Y, Ning G, Li X. “Seven novel DAX1 mutations with loss of function identified in Chinese patients with congenital adrenal hypoplasia.” J Clin Endocrinol Metab. **2010** Sep; 95(9):E104-11. PMID: 20573681 \***Equal contribution**
4. Li J, Lu Y, **Liu R**, Xiong X, Zhang Z, Zhang X, Ning G, Li X. “DAX1 suppresses FXR transactivity as a novel co-repressor.” Biochem Biophys Res Commun. **2011** Sep 9;412(4):660-6. PMID: 21856289
5. Zhang X, Zhang M, Zhang H, Liu Y, **Liu R**, Xu Y, Sun S, Ning G, Li X. “Effect of glucocorticoid replacement therapy on glucose-lipid metabolism in patients with 21-hydroxylase deficiency.” Chin J Endocrinol Metab. **2012**, 28(2): 108-11.
6. **Liu R**, Li X. “Genetic study progression of idiopathic hypogonadotropic hypogonadism.” Chin J Endocrinol Meta. **2012**, 28(3): 244-8. [Review Article]
7. Nam D, Chatterjee S, Yin H, **Liu R**, Lee J, Yechoor VK, Ma K. “Novel function of Rev-erbα in promoting brown adipogenesis.” Sci Rep. **2015** Jun 10;5:11239. PMID: 26058812
8. Li R, Buras E, Lee J, **Liu R**, Liu V, Espiritu C, Ozer K, Thompson B, Nally L, Yuan G, Oka K, Chang B, Samson S, Yechoor V, Chan L. “Gene therapy with Neurogenin3, Betacellulin and SOCS-1 Reverses Diabetes in NOD Mice.” Gene Ther. **2015** Nov;22(11):876-82. PMID: 26172077
9. Lee J, **Liu R**, de Jesus D, Kim BS, Ma K, Moulik M, Yechoor VK. “Circadian control of β-cell function and stress responses.” Diabetes, Obesity and Metabolism. 17 (Suppl. 1): 123–133, **2015**. PMID: 26332977 [Review Article]
10. **Liu R**, Lee J, Kim BS, Wang Q, Buxton SK, Balasubramanyam N, Kim JJ, Dong J, Zhang A, Li S, Gupte AA, Hamilton DJ, Martin JF, Rodney GG, Coarfa C, Wehrens XHT, Yechoor VK & Moulik M. “Tead1 is required for maintaining adult cardiomyocyte function and its loss results in lethal dilated cardiomyopathy.” JCI Insight. **2017** Sep 7;2(17):e93343. PMID: 28878117
11. **Liu R**, Jagannathan R, Li F, Lee J, Balasubramanyam N, Kim BS, Yang P, Yechoor VK & Moulik M. “Tead1 is required for perinatal cardiomyocyte proliferation.” PLoS One. **2019** Feb 27;14(2):e0212017. PMID: 30811446
12. ǂ**Liu R**, Xiong X, Nam D, Yechoor V, ǂMa K. “SRF-MRTF signaling suppresses brown adipocyte development by modulating TGF-β/BMP pathway.” Mol Cell Endocrinol. **2020** Jun 27;110920. PMID: 32603734 ǂ**Corresponding**
13. **Liu R**, Jagannathan R, Sun L, Li F, Yang P, Lee J, Negi V, Garcia-Perez EM, Shiva S, Yechoor VK & Moulik M. “Tead1 is essential for mitochondrial function in cardiomyocytes.” Am J Physiol Heart Circ Physiol. **2020** Jul 1;319(1):H89-H99. PMID: 32502376
14. Xiong X, Li W, **Liu R**, Saha P, Yechoor V, Ma K. “Circadian clock control of MRTF-SRF pathway suppresses beige adipocyte thermogenic recruitment.” Journal of Molecular Cell Biology. **2022** Dec 29;mjac079. PMID: 36581314
15. Li F, **Liu R**, Negi V, Yang P, Lee J, Jagannathan R, Moulik M, Yechoor V. “VGLL4 and MENIN function as TEAD1 corepressors to block pancreatic β cell proliferation.” Cell Reports. **2023** Jan 18;42(1):111904. PMID: 36662616

**Non-peer reviewed journal articles**

1. Lee J, **Liu R**, Kim BS, Zhang Y, Li F, Jagannathan R, Yang P, Saha PK, Sabek O, Coarfa C, Creighton CJ, Huising MO, Shih H, Bottino R, Ma K, Moulik M, Yechoor VK. “Tead1 reciprocally regulates adult β-cell proliferation and function.” bioRxiv **2020**.03.05.979450. [Preprint]
2. Negi V, Lee J, **Liu R**, Perez-Garcia E, Li F, Jagannatha R, Yang P, Bottino R, Ma K, Moulik M, Yechoor V. “Bromodomain protein inhibition protects β-cells from cytokine-induced death and dysfunction via antagonism of NF-κB pathway.” bioRxiv **2020**.11.05.363408. [Preprint]
3. Xiong X, Li W, **Liu R**, Saha P, Yechoor V, Ma K. “Circadian clock control of MRTF-SRF pathway suppresses beige adipocyte thermogenic recruitment.” bioRxiv **2022**.04.06.487359. [Preprint; the full article was published in Dec 2022]

**Abstracts – Published in Scientific Journals**

1. **Liu R**, Jagannathan R, Li F, Lee J, Yechoor VK, Moulik M. “Tead1-a Novel Cell-Autonomous Regulator of Mitochondrial Function in Cardiomyocytes.” Circulation **2018** 138 (Suppl\_1), A16665-A16665
2. **Liu R**, Jagannathan R, Li F, Lee J, Yechoor VK, Moulik M. “Tead1 is Required for Cardiomyocyte Proliferation.” Circulation **2018** 138 (Suppl\_1), A17290-A17290
3. Jagannathan R, **Liu R**, Lee J, DeVallance ER, Yang P, Li F, Negi V, Pagano PJ, Yechoor VK, Moulik M. “Tea Domain Family Member 1 (TEAD1): Novel Role in Regulating Cardiac Oxidative Stress Response.” Circulation **2019** 140 (Suppl\_1), A15587-A15587
4. Jagannathan R, Lee J, **Liu R**, Yang P, Li F, Negi V, Yechoor V, Moulik M. “Tea Domain Family Member 1 (TEAD1) Regulates IGF1 and mTOR Pathway in the Heart.” Circulation **2019** 140 (Suppl\_1), A15833-A15833
5. Negi V, Lee J, **Liu R**, Jagannatha R, Li F, Yang P, Perez-Garcia E, Moulik M, Yechoor V. “I-BET 762 Inhibits Inflammation-Induced Pancreatic Beta-Cell Apoptosis by Controlling Inflammatory Pathways.” Diabetes **2020** Jun; 69(Supplement 1)
6. Garcia-Perez EM, ǂ**Liu R**, ǂYechoor V. Yy1 depletion in pancreatic beta cells leads to energy source switch from glycolysis to oxidative phosphorylation. Journal of the Endocrine Society, Volume 5, Issue Supplement\_1, April-May **2021**, A327. ǂ**Corresponding**
7. Li F, **Liu R**, Negi V, Yang P, Lee J, Moulik M, Yechoor V. VGLL4 and MENIN Function as TEAD1 Corepressors to Block Pancreatic ß-Cell Proliferation. Diabetes **2022**;71(Supplement\_1):203-OR
8. Lee J, **Liu R**, Li F, Negi V, Jagannathan R, Huising M, Ma K, Shih B, Moulik M, Yechoor V. Diabetes **2022**;71(Supplement\_1):250-LB
9. Xiong X, Li W, **Liu R**, Yechoor V, Ma K. The Circadian Clock Exerts Coordinated Control of Beige Adipocyte Development via Cytoskeleton-MRTF/SRF Signaling Cascade. Diabetes **2022**;71(Supplement\_1):308-OR
10. Zhang X, Gandhi A, Ratakonda G, Williams CH, Sun L, Li F, Ward CW, Hong CC, Gladwin MT, Yechoor VK, **Liu R**. C5ORF51/RIMOC1-A Novel Regulator of Cardiogenesis. Circulation **2023**; 148 (Suppl\_1), A18695-A18695

**Major Invited Speeches**

Local

1. **Liu R**, “A tale of Multiple Cities: Multifaceted Roles of Tead1 in Maintaining Heart Function”; Endocrine Grand Round, Baylor College of Medicine, Houston, TX; 03/09/**2017**
2. **Liu R**, “Molecular Regulation of Cardiomyocyte Homeostasis and the Debut of a Novel Modulator”, Endocrine, Metabolism & Diabetes Research Series, University of Pittsburgh, Pittsburgh, PA; 10/21/**2020**
3. **Liu R**, “Discovery of a Novel Gene and its Role in Pancreatic Beta Cells - Behind the Scenes”, University-Wide Conference Lectures, University of Pittsburgh, Pittsburgh, PA; 05/14/**2021**
4. **Liu R**, “C5x – A Novel Regulator of Cardiomyocyte Function and Homeostasis”, KARAT (The K Awardee to R Advancement Training) Scientific Symposium, University of Pittsburgh, Pittsburgh, PA; 05/20/**2022**
5. **Liu R**, “Revelation of A Novel Gene and Its Role in Cardiac Renewal”, T32 Interdisciplinary Training Program in Muscle Biology Seminar Series, University of Maryland, Baltimore, MD; 09/07/**2022**
6. **Liu R,** “More is Less: Lessons We Learned from Cardiomyocyte Homeostasis”, The Institute of Marine and Environmental Technology, Baltimore, MD; 04/05/**2023**

**Proffered Communications – Not Published as Full Research Articles**

National

1. **Liu R**, Li X. Mechanistic study on DAX-1 deficiency associated hypogonadotropic hypogonadism. The 7th Chinese Society of Endocrinology Annual Meeting, Nanjing, Jiangsu, China 08/31/**2009**. (Oral Presentation)
2. **Liu R**, Lu Y, Li N, Li D, Ning G, Li X. Mechanistic study on DAX-1 deficiency associated hypogonadotropic hypogonadism. The 8th Chinese Society of Endocrinology Annual Meeting, Dalian, Liaoning, China 08/27/**2010**.(Poster Presentation)
3. **Liu R**, Li N, Li D, Ning G, Li X. Research on the molecular mechanism involved in DAX-1 gene impairment caused hypogonadotropic hypogonadism. The 6th Huaxia Congress of Endocrinology, Shanghai, China 12/20/**2010**. (Oral Presentation)
4. **Liu R**, Zhang M, Sun S, Ning G, Li X. Genetic profiling for 107 idiopathic hypogonadotropic hypogonadism cases and the functional study on PROKR2 gene mutations. The 2nd Scientific Meeting of the Chinese Diabetes and Gonad Society. Yangzhou, Jiangsu, China. **2012**. (Poster Presentation)
5. **Liu R**, Lee J, Moulik M, Yechoor VK. The role of Hippo pathway effector Yap/Taz in pancreatic β cell. Keystone Symposium – Islet Biology: From Cell Birth to Death, Keystone, CO, USA 03/17/**2016**. (Poster Presentation)
6. **Liu R**, Lee J, Kim BS, Moulik M, Yechoor VK. Critical Role of Mamalian Hippo Pathway in Pancreatic Beta-Cell Proliferation and Function. ENDO, Boston, MA, USA 04/04/**2016**. (Oral Presentation)
7. **Liu R**, Lee J, Yang P, Li F, Sun L, Negi V, Jagannathan R, Moulik M, Yechoor VK. Yap/Taz is Dispensable for Pancreatic β-cell Function. 12th Annual Midwest Islet Club, Ann Arbor, MI, USA **2019**. (Poster Presentation)
8. Jain A, Saltzman AB, Choi JM, **Liu R**, Brooks-Worrell BM, Palmer JP, Yechoor VK, Jun SY, Hattery EG, Balasubramanyam A, Malovannaya A. Plasma Marker Identification of Beta-Cell Injury in Type 2 Diabetes in the GRADE Study, using Isobaric Boosting and Mass Spectrometry. American Society for Mass Spectrometry Conference, Houston, TX, USA **2020**. (Poster Presentation)
9. Njoku-Austin C, Mattila PE, **Liu R**, Ewing MC, Wood AN, Kanshana JS, and Kershaw EE. Global loss of CREBRF in mice impairs glucose homeostasis despite lower body weight through effects on beta cell mass. University of Pittsburgh, Dean’s Summer Research Program Research Symposium, Pittsburgh, PA, USA; Sep **2020**. (Poster Presentation)