Curriculum Vitae

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

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Contact Information

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Foreign Languages:	Chinese – mandarin (native)

Education

2002 – 2007	Bachelor's Degree in Clinical Medicine (BM); Beihua University Faculty of Medicine, Jilin, China
2007 – 2012	PhD in Medicine, Shanghai Jiaotong University School of Medicine, Shanghai, China; Thesis Advisor – Dr. Xiaoying Li

Post Graduate Education and Training

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

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

Medical or Other Professional Licensure

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

Employment History

Academic Appointments

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

2017 – present	General Member, American Heart Association

Honors and Awards

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

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)
2024	Ad hoc reviewer, American Heart Association Career Development Award – Cardiac Biology
2024	Ad hoc reviewer, American Heart Association Second Century Early Faculty Independence Award
2024	Poster and oral presentation judging committee, Weinstein Cardiovascular Development and Regeneration Conference, Montreal, QC, Canada
2025	Ad hoc reviewer, American Heart Association Innovative Project Award – Basic Cell Sciences
2025	Ad hoc reviewer, American Heart Association Transformative Project Award – Basic Cell Sciences & Basic Sciences

Local Service

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	Judge for oral presentation, 46th Annual Medical Student Research Day at University of Maryland, Baltimore, MD, USA
2024	Award Committee, Graduate Program In Life Science (GPILS) / Office of Postdoctoral Scholars (OPS) Awards
2024 – present	Faculty interviewer for University of Maryland Institute for Health Computing Center of Population Health
2024 – present	Physiology & Pharmacology Assistant Track Leader, Graduate Program In Life Science (GPILS) Molecular Medicine PhD Program, University of Maryland Baltimore, MD, USA
2024 – present	Admission Committee, Graduate Program In Life Science (GPILS) Molecular Medicine PhD Program, University of Maryland Baltimore, MD, USA
2025	Track Leader Poster Judge, GPILS Molecular Medicine Accepted Students Day

Teaching Service

Undergraduate Student Teaching

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

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

2024 Fall – present Foundations Course- Cardiac Muscle Physiology, University of Maryland School of Medicine; 0.5 hour

Resident and Fellow Teaching

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

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, 2025 Lecturer for "Muscle Cell Biology and Development" (Course #GPLS-715) at University of Maryland, Baltimore; 2 lectures in "Cardiac Development"; 90min/lecture

2025 Lecturer for " The Cardiovascular System: Hemodynamics/Arterial System" and "The Cardiovascular System: Regulation of Blood Vessels" (Course #GPLS-645) at University of Maryland, Baltimore; 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 (2022-2024); Daniela's work "Cardiomyocyte Centrosome Dynamics Following Cardiac Injury" was awarded **Best Poster in Program in Molecular Medicine - Molecular and Cellular Physiology and Pharmacology Track** (3/11/**2024**) where I served as the primary mentor with Dr. Charles Hong; Daniela was the first UMB student awarded **Blackbird Fellowship** (November 2024 – present).

Grant Support

Active Grants:

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

09/26/2024- (PI, 40%)
08/31/2025 "C5ORF51 – a Regulator of Cardiomyocyte Function and Homeostasis"
NIH/NHLBI R56HL169267
Total Direct Costs: $471,606

Completed Grants:

02/01/2014- (Co-Inv, 10%; PI – VK Yechoor)
01/31/2019 "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- (Co-Inv, 50%; PI – VK Yechoor)
12/31/2021 "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- (Co-Inv, 9%; PI – M Moulik)
12/31/2021 "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- (PI, 1%)
06/30/2022 "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- (PI, 40%)
03/31/2023 "Tead1 As a Novel Regulator of Mitochondrial Function in Cardiomyocytes"
(NCE) American Heart Association Career Development Award 19CDA34770034
Annual Direct Costs: $70,000
Total Direct Costs: $210,000

07/01/2021- (PI, 20%)
06/30/2023 "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- (PI, 20%)
11/30/2023 "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
16. Negi V, Lee J, Mandi V, Danvers J, **Liu R**, Perez-Garcia EM, Li F, Jagannathan R, Yang P, Filingeri D, Kumar A, Ma K, Moulik M, Yechoor VK. "Bromodomain protein inhibition protects β-cells from cytokine-induced death and dysfunction via antagonism of NF-κB pathway." Cells. **2024** Jun 26;13(13):1108. PMID: 38994961

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; the full article was published in Jun 2024]
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
11. Filingeri D, **Liu R**, Negi V, Lee J, Kumar A, Mandi V, Moulik M, Yechoor V. RIMOC1, A Novel Regulator Of Mitochondrial Function, And Its Role In Pancreatic Beta-cell Survival, Mitophagy, And Diabetogenesis. Journal of the Endocrine Society **2024**; 8(Supplement_1)

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**
7. **Liu R**, "Awaken the Cardiomyocyte In Quiescence, Time For the Loops!", Department of Biochemistry and Molecular Biology Seminar Series, Baltimore, MD; 09/30/**2024**

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)
10. Fuller DT, Miyamoto M, Li Y, Chao W, Hong CC#, **Liu R**#. Cardiomyocyte Centrosome Dynamics Following Cardiac Injury. University of Maryland Baltimore Graduate Program In Life Sciences Annual Meeting; Mar **2024** (Poster Presentation: Fuller- Best Poster Winner in Physiology & Pharmacology Track) & 46th Annual UMB Graduate Research Conference; Apr **2024** (Oral Presentation: Fuller- presentation award top 1%)
11. Fuller DT, Devilee L, Neitzel LR, Mills RJ, Willams CH, Hudson J, **Liu R**#, Hong CC#. Novel Kinase Inhibitor Induces 2D and 3D organoid iPSC-Derived Cardiomyocyte Proliferation. Sep **2024** (Poster Presentation) #co-corresponding
12. Fuller DT, Devilee L, Vongdeuane S, Neitzel LR, Mills RJ, Williams CH, Hudson J, Liu R#, Hong CC#. Novel Kinase Inhibitor Induces 2D and 3D organoid iPSC-Derived Cardiomyocyte Proliferation. American Heart Association Basic Cardiovascular Sciences Scientific Sessions. July **2025** #co-corresponding

13. Vongdeuane S, Fuller DT, Li Y, Chao W, **Liu R**. C5ORF51/RIMOC1 is Required for Adult Cardiomyocyte Maturation and Quiescence. American Heart Association Basic Cardiovascular Sciences Scientific Sessions. July **2025**