CURRICULUM VITAE

**JIN. O-UCHI, MD, PhD, FAHA, FCVS**

**PROFESSIONAL ADDRESS:**

Heart Institute

Hypertension and Kidney Research Center

Department of Molecular Pharmacology & Physiology

University of South Florida Morsani College of Medicine

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**IDENTIFYING INFORMATION**

**Education**

|  |  |  |
| --- | --- | --- |
| **Degree** | **Institution** | **Date Degree Granted** |
| M.D. | The Jikei University  School of Medicine  Tokyo, Japan | 2001 |
| Ph.D.  Advisor: Dr. Satoshi Kurihara | The Jikei University  School of Medicine  Tokyo, Japan  Medicine/Department of Cell Physiology | 2006 |
| Postdoctoral Research Associate  Advisor: Dr. Satoshi Kurihara | The Jikei University  School of Medicine | 2006 - 2008 |
| Postdoctoral Research Associate  Advisor: Drs. Author Moss and Coeli MB Lopes | University of Rochester | 2008 - 2011 |
| **Graduate appointments** | **Institution** |  |
| Residency | Jikei University Hospital  Tokyo, Japan | 2001 - 2003 |

**Certifications, License**

|  |  |
| --- | --- |
| National Medical Board, Japan | 2001-present |
| Medical License, Kanagawa Prefecture, Japan | 2001-present |
| Control Substances Registration, Rhode Island | 2018 |

**Academic Appointment**

|  |  |
| --- | --- |
| University of South Florida College of Medicine, Tampa, FL  Associate Professor, Tenure Track  Hypertension and Kidney Research Center  Department of Molecular Pharmacology & Physiology | 2024-present |
| University of Minnesota, Twin Cities, Minneapolis, MN  Graduate Program Faculty  Department of Integrative Biology and Physiology | 2019-2024 |
| Intergovernmental Personnel Agreements (IPAs)  Providence VA Medical Center | 2019-2024 |
| Faculty member  Masonic Cancer Center | 2019-2024 |
| Assistant Professor, Tenure Track  Department of Medicine, Cardiovascular Division  Lillehei Heart Institute | 2018-2024 |
| Faculty member  Institute for Engineering in Medicine (IEM) | 2018-2024 |
| Brown University, Providence, RI  Graduate Program Faculty  Department of Molecular Pharmacology, Physiology,  and Biotechnology | 2017 - 2018 |
| Assistant Professor  Department of Medicine, Cardiology Division  Cardiovascular Research Institute | 2016-2018 |
| Thomas Jefferson University, Philadelphia, PA  Assistant Professor, Research  Department of Medicine, Cardiology Division  Center for Translational Medicine  Instructor, Research  Department of Medicine, Cardiology Division  Center for Translational Medicine | 2015  2011-2014 |

**Clinical/Hospital Appointments**

|  |  |
| --- | --- |
| Rhode Island Hospital, Providence, RI  Research Scientist | 2016-2018 |
| Honda Hospital, Tokyo, Japan  Staff Physician (Internal Medicine) | 2003-2008 |
| Akabane-dai Clinic, Tokyo, Japan  Staff Physician (Internal Medicine) | 2003-2008 |
| Nakano-Ekoda Hospital, Tokyo, Japan  Staff Physician Internal Medicine | 2002-2008 |

**Current Membership and Offices in Professional Organizations**

|  |  |  |
| --- | --- | --- |
| **Role** | **Professional Organizations** | **Date** |
| Member | Japanese Cardiovascular Research Association (JCRA) | 2024-present |
| Member | International Society for the Development of Magnesium Research | 2021-present |
| Member | Heart Rhythm Society | 2019-present |
| Member | Central Society for Clinical and Translational Research | 2019-present |
| Member | Society of Cardiovascular Anesthesiologists | 2014-present |
| Member | American Physiological Society | 2013-present |
| Member | Society of General Physiologist | 2011-present |
| Member | Japanese Heart Failure Society | 2007-present |
| Member | Biophysical Society of Japan | 2007-present |
| Member | American Heart Association | 2007-present |
| Member | Cardiac Muscle Society | 2006-present |
| Trustee, Elected | Japanese Physiological Society | 2006-present |
| Member | International Society for Heart Research | 2005-present |
| Member | Biophysical Society | 2005-present |
| Member | International Academy of Cardiovascular Sciences | 2005-present |
| Member | Japanese Physiological Society | 2003-present |
| Member | Japanese Circulation Society | 2002-present |
| Member | Japanese Society of Internal Medicine | 2001-present |

**HONORS AND AWARDS FOR RESEARCH WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE**

**External Sources**

|  |  |  |
| --- | --- | --- |
| **Name of Award** | **Institution Presenting Award** | **Year Received** |
| Dale J. Benos Professional Service Award | American Physiological Society (APS) | 2024 |
| Finalist, Translational Research Grant Award | AnaBios Corporation | 2021 |
| Speaker for “Featured Topic Session” at Experimental Biology Meeting | APS, Cell and Molecular Physiology Section (CaMPS) | 2019 |
| Fellow of American Heart Association (FAHA) | American Heart Association (AHA) Basic Cardiovascular Sciences (BCVS) | 2018 |
| Finalist, Neonatal Cardiopulmonary Biology, Young Investigator Award | 5th Neonatal Cardiopulmonary Biology Young Investigators Forum | 2018 |
| Fellow of APS Cardiovascular Section of (FCVS) | APS, Cardiovascular Section | 2018 |
| Shih-Chun Wang Young Investigator Award | APS | 2017 |
| Oral Abstract Award | Central Society for Clinical and Translational Research (CSCTR) | 2017 |
| National Scientist Development Award | AHA | 2016 |
| Finalist, Gary Lopaschuk Young Faculty Award | International Academy of Cardiovascular Sciences, North American Section (IACS) | 2016 |
| 1st Prize, New investigator Award | APS, CaMPS | 2015 |
| Research Career Enhancement Award | APS | 2014 |
| Finalist, New investigator Award | APS, CaMPS | 2014 |
| Early Career Investigator Travel Awards | International Society for Heart Research (ISHR) | 2012 |
| Finalist, Outstanding Early Career Investigator Award | AHA BCVS | 2012 |
| Hiroshi and Aya Irisawa Memorial Promotion Award for Young Scientists | Physiological Society of Japan (PSJ) | 2011 |
| 1st prize, Richard J. Bing Award | ISHR | 2010 |
| Postdoctoral Fellowship Award | AHA | 2009 |
| Promotion Award | PSJ | 2009 |
| Foreign study Award | Kanae Foundation, Tokyo Japan | 2008 |
| Graduate Student Best Paper Award | Jikei University School of Medicine | 2007 |
| Trustee, Physiological Society of Japan | PSJ | 2006 |
| Young Investigator Award | International Academy of Cardiovascular Sciences Japan Section | 2006 |
| Young Investigator's Research Award | Japan Heart Foundation | 2006 |
| Fellowship Award | Japan Foundation of Cardiovascular Research | 2006 |
| Travel Grant Award | Inoue Foundation for Science | 2006 |
| Travel Grant Award | Kato Memorial Bioscience Foundation | 2006 |
| Best Oral Presentation Award | International Society for Heart Research Japanese Section | 2005 |
| Travel Grant Award | The Naito Foundation | 2005 |

**Internal Sources**

|  |  |  |
| --- | --- | --- |
| Graduate Student Best Paper Award | Jikei University School of Medicine | 2007 |
| Research Grant Award | Jikei University School of Medicine | 2007 |
| Young Investigator's Travel Grant Award | Jikei Alumni Association | 2005 |
| Graduate Student's Research Award | Jikei University School of Medicine | 2005 |

**RESEARCH AND SCHOLARSHIP**

**Grants and Contracts**

**External Sources**

**Current**

* + 1. Role: Co-Principal Investigator (Contact PI)

Grant Number: R01HL171710

External Granting Agency: NIH/NHLBI

Grant Title: Role of ER-mitochondria contact sites in right ventricular fibrosis

Project Dates: 07/01/2024-04/30/2028

Direct Costs Per Year: $387,000

30% Effort

* + 1. Role: Co-Investigator

Name of PI: Jhun (Single PI)

Grant Number: R01HL160699

External Granting Agency: NIH/NHLBI

Grant Title: Mitochondrial Fission, Calcium, and ROS in Right Ventricular Fibrosis

Project Dates: 7/01/2023-6/30/2027

Direct Costs Per Year: $250, 000

10% Effort

* + 1. Role: Sponsor

Name of PI: Rhee (Single PI)

Grant Number: 2024 Summer Undergraduate Research Fellowship (SURF)

External Granting Agency: American Physiological Society

Grant Title: Role of c-Src kinase in the calcium transport between endoplasmic reticulum and mitochondria

Project Dates: 06/03/2024 –4/31/2025

Direct Costs Per Year: $5,300

1% Effort

**Past**

1. Role: Subaward Principal Investigator (Co-I)

Name of PI: Choudhary (Single PI)

Grant Number: R01HL148727

External Granting Agency: NIH/NHLBI

Title: Role of Endothelial Anoctamin-1 in Pulmonary Arterial Hypertension

Project Dates: 07/01/2019 to 06/30/2024 (NCE)

Direct Costs Per Year $32,061

5% Effort

1. Role: Co-Investigator

Name of PI: Dudley (Single PI)

Grant Number: R56HL162208

External Granting Agency: NIH/NHLBI

Grant Title: Magnesium, mitochondria, and diastolic dysfunction

Project Dates: 09/22/2022-08/31/2023

Direct Costs Per Year: $ 351,215

10% Effort

1. Role: Subaward Principal Investigator (Co-I)

Name of PI: Choudhary (Single PI)

Grant Number: CX001892

External Granting Agency: VA BLR&D

Grant Title: Role of Skeletal Muscle Mitochondrial Supercomplexes in Exercise Intolerance

Project Dates: 07/01/2019 -06/30/2023

Direct Costs Per Year: $15,259

10% Effort

1. Role: Subaward Principal Investigator (Co-I)

Name of PI: Clements (Single PI)

Grant Number: R01HL135236

External Granting Agency: NIH/NHLBI

Grant Title: Surgical Cardioprotection through BKCa-Dependent Modulation of Mitochondrial Supercomplexes.

Project Dates: 07/15/2018–06/30/2022

Direct Costs Per Year: $25,000

4% Effort

1. Role: Principal Investigator

Grant Number: R01HL136757 (Single PI)

External Granting Agency: NIH/NHLBI

Grant Title: Regulation of mitochondrial calcium uniporter in the heart

Project Dates: 06/15/17-05/31/23 (NCE)

Direct Costs Per Year: $250,000

50% Effort

1. Role: Subaward Principal Investigator (Co-I)

Name of PI: Terentyev (Single PI)

Grant Number: R01HL142588

External Granting Agency: NIH/NHLBI

Grant Title: Novel Mechanisms of Regulation of SK channels: Implications for Cardiac Arrhythmia

Project Dates: 08/01/2019 - 05/31/2023

Direct Costs Per Year: $30,500

5% Effort

1. Role: Principal Investigator

Grant Number: 16SDG27260248 (Single PI)

External Granting Agency: American Heart Association

Grant Title: Role of mitochondrial RyR1 in cardiac arrhythmia and sudden cardiac death

Project Dates: 01/01/16-12/31/20 (NCE)

Direct Costs Per Year: $70,000

25% Effort

1. Role: Sponsor

Name of PI: Tsobze (Single PI)

Grant Number: 2019 APS Hearst Undergraduate Summer Research Fellows

External Granting Agency: American Physiological Society and Hearst Foundations

Grant Title: Role of Mitochondrial Proline rich Tyrosine Kinase 2 (Pyk2) inhibitory peptide in modulating Mitochondrial Ca2+overload

Project Dates: 05/01/2019 – 5/31/2020

Direct Costs Per Year: $6,800

1% Effort

1. Role: Principal Investigator

Grant Number: N/A (Single PI)

External Granting Agency: American Physiological Society

Grant Title: 2017 Shih-Chun Wang Young Investigator Award

Project Dates: 02/1/17-01/31/2020

Direct Costs Per Year: $10,500

1% Effort

1. Role: Host laboratory Principal Investigator

Name of PI: Ilatovskaya (Single PI)

Grant Number: 2018 Research Career Enhancement Award

External Granting Agency: American Physiological Society

Grant Title: Mitochondria imaging and isolation for mitoplast electrophysiology

Project Dates: 08/01/2018–07/31/2019

Direct Costs Per Year: $8,251

1% Effort

1. Role: Principal Investigator (Single PI)

Grant Number: Medical Research Grant #20164376

External Granting Agency: Rhode Island Foundation

Grant Title: Role of mitochondrial calcium uniporter for heart failure development

Project Dates: 04/01/2017-09/20/2018

Direct Costs Per Year: $25,000

5% Effort

1. Role: Pilot Project Principal Investigator

Name of PI: Shaw (Single PI)

Grant Number: 5P30GM1114750

External Granting Agency: NIH/NIGMS

Grant Title: COBRE Center for Perinatal Biology, Pilot Project “Role of mitochondrial Ca2+ and ROS in the early postnatal cardiac development”

Project Dates: 06/01/2017-04/30/2018

Direct Costs Per Year: $50,000

10% Effort

1. Role: Pilot Project Principal Investigator

Name of PI: Ramratnam (Single PI)

Grant Number: 5P30GM110759

External Granting Agency: NIH/NIGMS

Grant Title: COBRE Center for Cancer Research Development, Pilot Project, Pilot Project “Role of tyrosine Phosphorylation in the mitochondrial Ca2+ uniporter”

Project Dates: 12/01/2016-04/30/2017

Direct Costs Per Year: $3,500

2.5% Effort

1. Role: Co- Investigator

Name of PI: Sheu (Single PI)

Grant Number: R01 HL093671

External Granting Agency: NIH/NHLBI

Grant Title: Ca2+ and ROS Crosstalk Signaling in Cardiac Mitochondria

Project Dates: 03/01/2015-01/02/2016

Direct Costs Per Year: $250,000

20% Effort

1. Role: Principal Investigator

Grant Number: H1403 Medical Research Grant (Single PI)

External Granting Agency: W.W. Smith Foundation

Grant Title: Application of anti-cancer drugs to heart failure therapy

Project Dates: 03/01/2015-12/31/2015

Direct Costs Per Year: $125,000

20% Effort

1. Role: Principal Investigator

Grant Number: 14BGIA18830032 (Single PI)

External Granting Agency: American Heart Association

Grant Title: Regulation of mitochondrial Ca2+ uniporter by adrenergic signaling in cardiomyocytes

Project Dates: 01/01/2014-12/31/2015

Direct Costs Per Year: $70,000

35% Effort

1. Role: Principal Investigator

Grant Number: Research Career Enhancement Award (Single PI)

External Granting Agency: American Physiological Society

Grant Title: Single channel recording of mitochondrial Ca2+ uniporter in lipid bilayers system

Project Dates: 01/01/2014-12/31/2015

Year: $4,000

2.5% Effort

1. Role: Principal Investigator

Grant Number: Hiroshi and Aya Irisawa Memorial Promotion Award (Single PI)

External Granting Agency: Physiological Society of Japan

Grant Title: Role of 𝛼1-adrenergic signaling in cardiac excitation-contraction coupling

Project Dates: 07/01/2011-06/30/2012

Direct Costs Per Year: $12,250

5% Effort

1. Role: Principal Investigator

Grant Number: 09POST231007 (Single PI)

External Granting Agency: American Heart Association

Founders Affiliate Grant

Grant Title: Isoform-specific PKC modulation of IKs channel in Long QT syndrome

Project Dates: 07/01/2009-06/30/2011

Direct Costs Per Year: $85,000

95% Effort

1. Role: Principal Investigator

Grant Number: Grant-in-Aid (Single PI)

External Granting Agency: Ministry of Education, Culture, Sports, Science and Technology for Young Scientists, Japan

Grant Title: Role of PKC isoforms in cardiac excitation-contraction coupling

Project Dates: 04/30/2008-03/31/2011

Direct Costs Per Year: $25,500

20% Effort

(Discontinuance from 04/2008 due to my position transfer to abroad)

1. Role: Principal Investigator

Grant Number: Medical Science Research Award (Single PI)

External Granting Agency: Kato Memorial Bioscience Foundation

Grant Title: Molecular mechanism of CaMKII activation by cardiac 𝛼1-adrenoceptor stimulation

Project Dates: 01/01/2007-08/31/2008

Direct Costs Per Year: $24,500

10% Effort

1. Role: Principal Investigator

Grant Number: Young Investigator's Research Grant (Single PI)

External Granting Agency: Japan Heart Foundation

Grant Title: Role of CaMKII in the excitation-contraction coupling during 𝛼1-adrenoceptor stimulations in mammalian heart

Project Dates: 01/01/2006-12/31/2007

Direct Costs Per Year: $12,250

10% Effort

1. Role: Principal Investigator

Grant Number: Fellowship Award (Single PI)

External Granting Agency: Japan Foundation of Cardiovascular Research

Grant Title: Determination of intracellular signal transduction pathways after the subtype-specific 𝛼1-adrenoceptor stimulations in mammalian cardiomyocytes

Project Dates: 01/01/2006-12/31/2007

Direct Costs Per Year: $12,250

10% Effort

1. Role: Principal Investigator

Grant Number: Graduate Student's Research Grant (Single PI)

Granting Agency: Jikei University Research Foundation

Grant Title: Regulation mechanisms of L-type Ca2+ channel by alpha1-adrenoceptor stimulation in cardiomyocytes

Project Dates: 04/01/2005-03/01/2006

Direct Costs Per Year: $12,250

10% Effort

**University Sources**

**Current**

1. Role: Co- Sponsor

Name of PI: Matthew Dugan

Grant Number: Willson Scholarship

Granting Agency: Lillehei Heart Institute, University of Minnesota  
Grant Title: N/A

Project Dates: 06/01/2024-09/30/2024  
Direct Costs Per Year: $6,000

1% Effort

1. Role: Role: Co- Sponsor

Name of PI: Matthew Dugan

Grant Number: UMF Medical Student Research Grant

Granting Agency: University of Minnesota Foundation  
Grant Title: Role of anoctamin-1 on hyperproliferation of endothelial cells in pulmonary arterial hypertension.Project Dates: 07/01/2024-06/31/2025  
Direct Costs Per Year: $3,500

1% Effort

**Past**

1. Role: Sponsor

Name of PI: Polina, Phan (Multi-PI)  
Grant Number: 2020 IEM Annual Conference Pilot Project Grant  
Granting Agency: Institute of Engineering in Medicine, University of Minnesota  
Grant Title: Blocking SARS-COV-2 viroporins for preventing sudden cardiac death during COVID-19  
Project Dates: 01/01/2021-12/17/2022  
Direct Costs Per Year: $5,000

1. Role: Sponsor

Name of PI: Adhikari, Ravikumar (Multi-PI)

Grant Number: 2020 IEM Annual Conference Pilot Project Grant

Granting Agency: Institute of Engineering in Medicine, University of Minnesota

Grant Title: Targeting mitochondrial ROS for preventing sudden cardiac death in malignant hyperthermia

Project Dates: 01/01/2021-12/31/2021

Direct Costs Per Year: $5,000

1. Role: Principal Investigator

Grant Number: OACA COVID19 Response Grants (Single PI)

Granting Agency: Office of Academic Clinical Affairs (OACA), University of Minnesota

Grant Title: Magnesium supplementation for preventing sudden cardiac death by COVID-19 viroporins in patients with pre-existing hypertension

Project Dates: 05/01/2020-04/30/2021

Direct Costs Per Year: $5,000

1. Role: Contact Co-Principal Investigator

Name of PI: O-Uchi, Talkachova (Multi-PI)  
Grant Number: IEM COVID19 Response Grants  
Granting Agency: Institute of Engineering in Medicine, University of Minnesota   
Grant Title: Targeting SARS-CoV-2 Viroporins for Protecting COVID-19 Patients with Pre-Existing Hypertension from Sudden Cardiac Death  
Project Dates: 07/01/2020–06/30/2021  
Direct Costs Per Year: $10,000

1. Role: Co-Principal Investigator

Name of MPIs: Talkachova, O-Uchi, Dudley (Multi-PI)

Grant Number: 2019 Group Program Grant

Granting Agency: Institute of Engineering in Medicine, University of Minnesota Grant Title: Cardiac working Group targeting multi-scale mechanisms of arrhythmia

Project Dates: 02/01/2019-8/31/2020

Direct Costs Per Year: $60,000

1. Role: Principal Investigator

Grant Number: Research Award (Single PI)

Granting Agency: Jikei University

Grant Title: Regulation mechanisms of CaMKII activity at cardiac transverse‐tubules

Project Dates: 10/01/2007-03/31/2008

Direct Costs Per Year: $12,250

10% Effort

**Publications**

**Peer-Reviewed Publications**

1. Landherr M, Polina I, Cypress MW, Chaput I, Nieto B, Jhun BS, Polina I, **O-Uchi J**\*. SARS-CoV-2-ORF3a variant Q57H reduces its pro-apoptotic activity in host cells. ***F1000Research 2024,*** *13:331*. **\*Corresponding author.**

**Impact factor:** N/A

**Times cited:** 0

Role: Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review

1. Nieto B, Cypress MW, Jhun BS\*, **Jin O-Uchi J**\*. Adeno-associated virus-based approach for genetic modification of cardiac fibroblasts in rat hearts. \*Co-Corresponding author. ***Physiol. Rep.* 2024.** 12(6):e15989. doi: 10.14814/phy2.15989. **[Cover Image]** PMID: 38538007 **\*Co-corresponding authors.**

**Impact factor:** 2.5

**Times cited:** 1

**Role:** Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review

1. Kazmirczak F, Hartweck LM, Vogel NT, Mendelson JB, Park AK, Raveendran RM, **O-Uchi J**, Jhun, BS, Prisco, SZ, Prins KW. Intermittent Fasting Activates AMP-Kinase to Restructure Right Ventricular Lipid Metabolism and Microtubules in Two Rodent Models of Pulmonary Arterial Hypertension ***JACC: Basic Transl. Sci***. **2023** 20;8(3):239-254. PMID: 37034280

**Impact factor:** 8.648

**Times cited:** 7

**Role:** Conducted experimental studies, Data acquisition, Manuscript editing, Manuscript review

1. Wolf FI, Maier JA, Rosanoff A, Barbagallo M, Baniasadi S, Castiglioni S, Cheng FC, Day SC, Costello RB, Dominguez LJ, Elin RJ, Gamboa-Gomez C, Guerrero-Romero F, Kahe K, Kisters K, Kolisek M, Kraus A, Iotti S, Mazur A, Mercado-Atri M, Merolle L, Micke O, Gletsu-Miller N, Nielsen F, **O-Uchi J**, Piazza O, Plesset M, Pourdowlat G, Rios FJ, Rodriguez-Moran M, Scarpati G, Shechter M, Song Y, Spence LA, Touyz RM, Trapani V, Veronese N, von Ehrlich B, Vormann J, Wallace TC, Cmer Center For Magnesium Education Research, Gesellschaft Für Magnesium-Forschung E V Germany, Sdrm Society International Society For The Development Of Research On Magnesium. The magnesium global network (MaGNet) to promote research on magnesium in diseases focusing on covid-19 [The magnesium global network (MaGNet) to promote research on magnesium in diseases focusing on covid-19]. ***Magnes Res.*** **2021** 34(2):90-92. PMID: 34524085.

**Impact factor:** 1.588

**Times cited:** 3

**Role:** *Manuscript editing, Manuscript review*

1. Vang A, da Silva Gonçalves Bos D, Fernandez-Nicolas A, Zhang P, Morrison AR, Mancini TJ, Clements RT, Polina I, Cypress MW, Jhun BS, Hawrot E, Mende U, **O-Uchi J**, Choudhary G. α7 Nicotinic acetylcholine receptor mediates right ventricular fibrosis and diastolic dysfunction in pulmonary hypertension. ***JCI Insight***, 6(12):e142945, **2021**

**Impact factor:** 8.315

**Times cited:** 15

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review*

1. Krishnappa D, Wang W, Rooney MR, Norby FL, Oldenburg NC, Soliman EZ, Alonso A, **O-Uchi J**, Dudley SC Jr, Lutsey PL, Chen LY. Life's Simple 7 cardiovascular health score and premature atrial contractions: The atherosclerosis risk in communities (ARIC) study. ***Int J Cardiol.*** S0167-5273(21)00394-6, **2021**.

**Impact factor:** 3.229

**Times cited:** 3

**Role:** *Defined intellectual content, Manuscript editing, Manuscript review*

1. Murphy KR, Baggett B, Cooper LL, Lu YC, **O-Uchi J**, Sedivy JM, Terentyev D, Koren G. Diminished Autophagy Contributes to Aberrant Ca2+ Homeostasis and Arrhythmogenesis in Aging Rabbit Hearts. 10:1277. ***Front. Physiol.***, **2019.**

**Impact factor:** 3.48

**Times cited:** 2

**Role:** *Developed Study design, Defined intellectual content, Conducted literature research, Manuscript editing, Manuscript review*

1. Camara KS, Stowe DF, **O-Uchi J**, Bazil JN. Genetic Modification of Cardiac Tissue. ***Front Cardiovasc Med,*** 6:93., **2019.**

**Impact factor:** 4.79

**Times cited:** 9

**Role:** *Conducted literature research, Manuscript editing, Manuscript review*

1. Parks XX\*, Ronziera E\*, **O-Uchi J**, Lopes CM. Fluvastatin inhibits Rab5-mediated IKs internalization caused by chronic Ca2+-dependent PKC activation. (\*Equal contribution). ***J Mol Cell Cardiol.***, 129: 314-32, **2019.**PMID: 30898664.

**Impact factor:** 5.68

**Times cited:** 11

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review*

1. Adaniya SM\*, **O-Uchi J**\*, Cypress M, Jhun BS. Post-translational modifications of mitochondrial fission and fusion proteins: implications for physiology and cardiac disease. ***Am. J. Physiol Cell Physiol.*** **2019** (\***Equal contribution**) PMID: 30758993

**Impact factor:** 3.602

**Times cited:** 48

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Manuscript preparation, Manuscript editing, Manuscript review*

1. Cao JL, Adaniya SM, Cypress, M, Suzuki Y, Kusakari Y, Jhun BS, **O-Uchi J**\*. Mitochondrial Calcium Handing in Cardiac Muscles. *Arch. Biochem. Biophys*., 663: 276-287, **2019**. PMID: 30684463 **\*Corresponding author.**

**Impact factor:** 3.118

**Times cited:** 7

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Manuscript preparation, Manuscript editing, Manuscript review*

1. Hamilton S, Terentyeva R, Kim TY, Bronk P, **O-Uchi J**, Csordás G, Choi BR, Terentyev D. Pharmacological modulation of mitochondrial Ca2+ content regulates sarcoplasmic reticulum Ca2+ release via oxidation of the ryanodine receptor by mitochondria-derived reactive oxygen species. ***Front. Physiol.***, 9:1831, **2018**. PMID: 30622478

**Impact factor:** 3.48

**Times cited:** 27

**Role:** *Defined intellectual content, Manuscript preparation, Manuscript editing, Manuscript review*

1. Jhun BS\*#, **O-Uchi J\***#, Adaniya SM, Cypress M, Yoon Y. Adrenergic regulation of Drp1-Driven Mitochondrial Fission in Cardiac Physio-Pathology. ***Antioxidants (Basel)***,18;7(12). pii: E195, **2018**.(\***Equal contribution**). PMID: 30567380#**Corresponding authors.**

**Impact factor:** 4.52

**Times cited:** 27

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Conducted literature research, Manuscript preparation, Manuscript editing, Manuscript review*

1. Jhun BS\*#, **O-Uchi J\*#**, Adaniya SM, Mancini TJ, Landi AK, Cao JL, Xu X, Yoon Y,Choudhary G, Clements RT, Mende U, Sheu SS. Protein kinase D activation inducesmitochondrial fragmentation and dysfunction in cardiomyocytes. ***J Physiol.*** 596(5):827-855, **2018**. PMID: 29313986 (#**Equal contribution**) **\*Corresponding authors.**

**Impact factor:** 5.037

**Times cited:** 24

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review*

1. Allawzi AM, Vang A, Clements RT, Jhun BS, Kue NR, Mancini T, Landi AK, Terentyev D, **O-Uchi J**, Comhair SA, Erzurum SC, Choudhary G. Activation of Anoctamin-1 LimitsPulmonary Endothelial Cell proliferation via p38-MAPK-dependent Apoptosis. ***Am J Respir Cell Mol Biol.*** 58(5):658-667, **2018**. PMID: 29100477

**Impact factor:** 4.1

**Times cited:** 24

**Role:** *Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review*

1. Mishra J, Jhun BS, Hurst S, **O-Uchi J\*,** Csordás G\*, Sheu SS\*. The Mitochondrial Ca2+Uniporter: Structure, Function and Pharmacology. ***Handb Exp Pharmacol.*** 240:129-156,2017. PMID: 28194521 **\*Corresponding authors.**

**Impact factor:** 15.55

**Times cited:** 35

**Role:** *Guarantor of integrity of entire study, Developed Study design, Defined intellectual content, Conducted literature research, Manuscript preparation, Manuscript editing, Manuscript review*

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**Times cited:** 16

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**Times cited:** 13

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**Times cited:** 15

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**Times cited:** 9

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**Impact factor:** 15.2

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**Times cited:** 50

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**Times cited:** 34

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**Non-Peer-Reviewed Publications**

1. Landherr M, Polina I, Cypress MW, Chaput I, Nieto B, Jhun BS, Polina I, **O-Uchi J**\*. Supplementary materials for manuscript "SARS-CoV-2-ORF3a variant Q57H reduces its pro-apoptotic activity in host cells". ***figshare****.* Dataset, **2023**. <https://doi.org/10.6084/m9.figshare.24803106.v1>
2. Polina P, Mishra J, Cypress MW, Landherr M, Valkov N, Chaput I, Nieto B, Mende U, Zhang P, Jhun BS, **O-Uchi J\*.** Mitochondrial Ca2+ uniporter (MCU) variants form plasma-membrane channels **\*Corresponding author. *bioRxiv.*** **2023** 2:2023.07.31.551242. doi: 10.1101/2023.07.31.551242. PMID: 37577584. **\* Corresponding author.**

**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review*

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**Role:** *Guarantor of integrity of entire study, Developed Study concept, Developed Study design, Defined intellectual content, Conducted literature research, Conducted experimental studies, Data acquisition, Manuscript preparation, Manuscript editing, Manuscript review*

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1. Adhikari N Jhun BS, **O-Uchi J\***. Molecular mechanism of sudden cardiac death in malignant hyperthermia. **\*Corresponding author.** (In preparation)

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**Chapters in Books**

1. **O-Uchi J**, Jhun BS, Polina I, Sheu SS. Organellar Ion Channels and Transporters. Cardiac Electrophysiology: From Cell to Bedside. ***Cardiac Electrophysiology: From Cell to Bedside (8th edition).*** (Elsevier), 70-84, **2021**.
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3. **O-Uchi J**, Jhun BS, Sheu SS. Structural and Molecular Basis of Mitochondrial ion channel function. ***Cardiac Electrophysiology: From Cell to Bedside (6th edition).*** (Elsevier) 71-84, **2013**

**Patents**

1. (WO2012154452) STRATIFICATION, THERAPIES, TARGETED TREATMENT AND PREVENTION OF LIFE-THREATENING VENTRICULAR TACHYA

Inventors: MOSS, Arthur, J.; (US); GOLDENBERG, Ilan; (IL); **OUCHI, Jin**; (US); BASTOS LOPES, Coeli Maria; (US); SHESHET, Alon, Eli Bar; (US)

**Presentations**

**Invited Oral Presentations at International Professional Meetings, and Conferences**

1. **O-Uchi, Jin.** “Mitochondrial calcium uniporter complex and its physiological and pathological roles in the heart” Symposium ”New horizons in cardiorenal ion transport”, The Pan-American Physiological Sciences 2023 (PANAM Physiological Sciences 2023), November 28th, 2023, Puerto Varus, Chilie.
2. **O-Uchi, Jin.** “Use of Magnesium for Preventing Cardiac Damages by SARS-CoV-2” XVI International Magnesium Symposium, “Magnesium in Health and Disease”, International Society for the Development of the Research on Magnesium. June 23rd, 2022, Glasgow, Scotland, UK (online meeting).
3. **O-Uchi, Jin.** “Magnesium Supplementation for preventing sudden cardiac death by COVID-19 viroporins in patients with pre-existing hypertension” Global Mg Research Meeting, Center for Magnesium Education and Research and the International Society for the Development of Research on Magnesium (SDRM). September 23rd 2020, Pahoa, HI USA (online meeting).
4. **O-Uchi, Jin.** “Sudden cardiac Death in Malignant Hyperthermia” The 5th China Wine City International Cardiovascular Congress in 2019, Southwest Medical University and its affiliated Institute of Cardiovascular Research. June 9, 2019, Luzhou City, Sichuan, China.
5. **O-Uchi, Jin.** "Role of mitochondrial calcium in cardiac pathophysiology" Graduate Student Seminar, Chungnam National University, College of Pharmacy, March 12, 2019, Daejeon, South Korea.
6. **O-Uchi, Jin.** "Pathophysiological role of mitochondrial calcium homeostasis in the cardiovascular diseases”Cardiology Unit Basic Research Seminar, Department of Internal Medicine, The Jikei University School of Medicine, June 3, 2017. Tokyo, Japan.
7. **O-Uchi, Jin.** "Physiological role of mitochondrial calcium homeostasis in the heart" Basic Medical Science Seminar. Department of Cell Physiology, The Jikei University School of Medicine, June 2, 2017. Tokyo, Japan.
8. **O-Uchi, Jin.** “Post-translational modification of mitochondrial Ca2+ uniporter mediates mitochondrial Ca2+ overload and cell death in the heart” 4th Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, International Academy of Cardiovascular Sciences North American Section, September 23, 2016, Sherbrooke QC, Canada.
9. **O-Uchi, Jin.** “Phosphorylation of mitochondrial Ca2+ uniporter regulates mitochondrial Ca2+ uptake and apoptotic cell death in cardiomyocytes” Bruce McManus Symposium: Cardiovascular Energy and Metabolism, 2nd Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, International Academy of Cardiovascular Sciences, North American Section, September 5, 2014, Winnipeg, MB, Canada.
10. **O-Uchi, Jin.** “Regulation of Cardiac Excitation and contraction /metabolism coupling by adrenergic stimulation” Cardiology Unit Basic Research Seminar, Department of Internal Medicine, The Jikei University School of Medicine, February 27, 2013, Tokyo, Japan.
11. **O-Uchi, Jin.** “Tyrosine kinase activated by α1-adrenergic stimulation inhibits cardiac contractility by directly phosphorylating β1-adrenoceptor” Invited Lecture, The 88th Annual Meeting of the Physiological Society of Japan, March 28, 2011, Yokohama, Japan.
12. **O-Uchi, Jin.** “Risk Stratification and Treatment for Long QT Syndrome Type1 Patients-Combination Analysis of Clinical Information and Cellular Electrophysiology” The 75th Annual Scientific Meeting of the Japanese Circulation Society, March 18, 2011, Yokohama, Japan.
13. **O-Uchi, Jin.** “Novel Strategy of Risk Stratification for Long QT Syndrome Patients” CIMS-COM 2011, February 5, 2011, Ahmedabad, India.
14. **O-Uchi, Jin.** “Regulation of Slow delayed rectifier K+ current by PKC isoforms” 4th World Congress International Academy of Cardiovascular Sciences February 1, 2011, Vadodara, India.
15. **O-Uchi, Jin.** “Novel Strategy of Risk Stratification for Long QT Syndrome Patients.” International Academy of Cardiovascular Sciences Japan Section Meeting, July 3-4, 2010, Tokyo, Japan.
16. **O-Uchi, Jin.** “Use of Mutant-Specific Ion Channel Characteristics for Risk Stratification of Long QT Syndrome Patients.” 10th International Society for Heart Research World Congress, May 14, 2010, Kyoto, Japan.
17. **O-Uchi, Jin.** “Structural and functional relation of signal transduction in alpha1-adrenoceptor stimulation in cardiomyocytes” 5th International Symposium on Electron Microscopy in Medicine and Biology, September 2005, Shijiazhuang, Republic of China.

**Invited Oral Presentations at National Professional Meetings, and Conferences**

1. **O-Uchi, Jin.** “ER-Mitochondria Calcium Transport and Cardiac Fibrosis” The 6th Asian Cardiovascular Symposium (ACS), Academy of Cardiovascular Research Excellence (ACRE), July 21st, 2024, Chicago, IL.
2. **O-Uchi, Jin.** “Role of Mitochondrial Ca2+ and ROS for Cardiac Fibrosis” Center Seminar, Center for Translational Medicine, Department of Medicine, Thomas Jefferson University. July 15th, 2024, Philadelphia PA.
3. **O-Uchi, Jin.** “Role of Mitochondrial Tyrosine Kinases in Cardiac Health and Disease.” Department Seminar, Department of Biomedical Sciences, Marshall University. June 12th, 2024, Huntington, WV.
4. **O-Uchi, Jin** “Role of MCU variants in platelets activation.” Center Seminar, Sol Sherry Thrombosis Research Center, Department of Cardiovascular Sciences, Temple University, June 5th, 2024, Philadelphia PA,
5. **O-Uchi, Jin.** “Role of mitochondrial calcium and ROS in right ventricular fibrosis“, Center seminar Hypertension and Kidney Center, University of South Florida. April 18th, 2024, Tampa, FL.
6. **O-Uchi, Jin.** “ER-Mitochondrial Calcium transport and right ventricular fibrosis”, APS foundation Science Workshop “Novel Ion Transport Mechanisms in Cardiac Remodeling and Arrhythmias” at American Physiological Society Summit, April 6nd, 2024, Long Beach CA.
7. **O-Uchi, Jin.** “Novel Variants of Mitochondrial Calcium Uniporter (MCU) and their Physiological and Pathological Roles" Department of Physiology Research Seminar Series, Department of Physiology, Medical College of Georgia, Augusta University, Feb 9th, 2023, Augusta, GA.
8. **O-Uchi, Jin.** " COVID-19 viroporins and the heart" CVRI Data Club, Cardiovascular Research Center, Rhode Island Hospital, Feb 3rd, 2021, Providence, RI (online meeting).
9. **O-Uchi, Jin.** "Role of mitochondrial calcium in the heart" Deportment Seminar, Department of Biology, Providence College, October 22nd, 2020, Providence, RI (online meeting).
10. **O-Uchi, Jin.** "Phosphorylations in the Termini of Mitochondrial Calcium Uniporter Regulate Mitochondrial Calcium Uptake" APS Featured Topics Symposium: Ion Channels, Solute and Molecular Transporters In Heath and Disease, Experimental Biology Annual Meeting, American Physiological Society Cell and Molecular Physiology Section, April 9, 2019. Orlando FL.
11. **O-Uchi, Jin.** "Targeting mitochondrial calcium as novel antioxidant therapy for cardiovascular diseases" Renal Grand Rounds, Division of Nephology, Department of Medicine, Medical University of South Carolina, March 2019, Charleston, SC.
12. **O-Uchi, Jin.** Role of Mitochondrial Calcium and ROS in Cardiac Fibroblast Proliferation Under the Early Postnatal Heart Development” Fifth Annual Neonatal Cardiopulmonary Biology Young Investigators Forum, September 7, 2018, Chicago, IL
13. **O-Uchi, Jin.** “Physiological and pathophysiological role of mitochondrial calcium in the heart” Department Seminar, Department of Biochemistry and Molecular Biology, Michigan State University, October 5th, 2017, East Lancing, MI.
14. **O-Uchi, Jin.** “Mitochondrial Ca2+ Uniporter as a Potential Target for the Treatment of Cardiovascular Diseases" Special Lecture, Lillehei Heart Institute, University of. July 7, 2017, Minneapolis, Minnesota.
15. **O-Uchi, Jin.** “Mitochondrial Ca2+ homeostasis as potential target for the treatment of cardiovascular diseases" Department Seminar, Department of Anesthesiology, University of Maryland School of Medicine, June 20th, 2017, Baltimore, MD.
16. **O-Uchi, Jin.** “Malignant hyperthermia-associated mutation of leaky RyR1 induces mitochondrial damage in the heart” 2017 Combined Annual Meeting of Central Society for Clinical and Translational Research and Midwest Section of the American federation for Medical Research, April 21, 2017, Chicago, IL.
17. **O-Uchi, Jin.** “Mitochondrial Ca2+ homeostasis as potential target for the treatment of cardiovascular diseases” Cardiac and Vascular surgery Division seminar, Cardiovascular Research Institute, Loyola University, April 19, 2017, Chicago, IL
18. **O-Uchi, Jin.** "Physiological and pathophysiological role of mitochondrial calcium influx mechanism" Department Seminar Series. Department of Regenerative Medicine and Cell Biology, Medical University of South Carolina, Nov 9, 2016, Charleston, SC.
19. **O-Uchi, Jin.** “Characterization of the cardiac phenotype of malignant hyperthermia-associated mutation of RyR1” Society of General Physiologists 69th Annual Meeting and Symposium,. September 18, 2015, Woods Hole, MA.
20. **O-Uchi, Jin.** “Pyk2-Dependent Phosphorylation of Mitochondrial Ca2+ Uniporter Modulates Mitochondrial Ca2+ Uptake” Experimental Biology Annual Meeting: American Physiological Society Cell and Molecular Physiology Section, March 29, 2015, Boston MA.
21. **O-Uchi, Jin.** “Adrenergic Regulation of Mitochondrial Ca2+ Handling: Cardiac Physiology and Pathophysiology” CVRC Data Club, Cardiovascular Research Center, Rhode Island Hospital, Alpert Medical School of Brown University, March 27, 2015, Providence RI.
22. **O-Uchi, Jin.** “Molecular Mechanism of Mitochondrial Ca2+ Influx: Cardiac Physiology and Pathophysiology” Departmental Seminar, Department of Anesthesiology, Medical College of Wisconsin,. February 20, 2015, Milwaukee WI.
23. **O-Uchi, Jin.** “Regulation of Cardiac Excitation and Contraction/Metabolism Coupling by Adrenergic Signaling: Physiology and Pathophysiology.” Departmental Seminar, Department of Molecular Biophysics & Physiology, Rush University Medical Center, April 15, 2013, Chicago, IL.
24. **O-Uchi, Jin.** “CaMKII: an important modulator of cardiac L-type Ca2+ channels in alpha1-adrenoceptor stimulation.” PSJ seminar, The 85th Annual Meeting of the Physiological Society of Japan,. March 26, 2008, Tokyo, Japan.
25. **O-Uchi, Jin.** “Intracellular regulatory mechanisms of L-type Ca2+ channel by alpha1-adrenoceptor stimulation in mammalian ventricular myocytes” Annual symposium of National Institute for Physiological Sciences “Ion channels and Transporters in Cardiovascular Science,” Okazaki, Japan December 12, 2007, Okazaki, Japan.

**Invited Oral Presentations at Regional Professional Meetings, and Conferences**

1. **O-Uchi, Jin.** “Endoplasmic Reticulum-Mitochondria Contact Sites and Cardiac Fibrosis" LHI Lecture Series, Department of Medicine, University of Minnesota, April 17, 2024, Minneapolis, MN.
2. **O-Uchi, Jin.** "Potential Impacts of SARS-CoV-2 on Cardiac Function." LHI Lecture Series, Department of Medicine, University of Minnesota, February 16, 2022, Minneapolis, MN.
3. **O-Uchi, Jin.** “Cardiac Complications with COVID-19" M Health Fairview Grand Rounds, M Health Fairview/St. John’s Hospital, December 16th 2021, Minneapolis, MN (Online Meeting).
4. **O-Uchi, Jin.** “How can we protect COVID-19 patients with pre-existing cardiovascular diseases from sudden cardiac death?" 2nd CIG event, Cardiology Interest Group, University of Minnesota Medical School, October 22nd 2020, Minneapolis, MN (Online Meeting).
5. **O-Uchi, Jin.** “Sudden Cardiac Death and Mitochondrial Calcium" LHI Lecture Series, Department of Medicine, University of Minnesota, February 12, 2019, Minneapolis, MN.
6. **O-Uchi, Jin.** "Molecular Mechanism underlying Sudden cardiac Death in Malignant Hyperthermia" DOM Research Seminar Series, Department of Medicine, University of Minnesota,. September 16, 2019, Minneapolis, MN.
7. **O-Uchi, Jin.** "Mitochondrial Calcium Handling: Cardiac Physiology and Pathophysiology" IBP Seminar Series, Department of Integrative Biology & Physiology, University of Minnesota, February 14, 2019, Minneapolis, MN.
8. **O-Uchi, Jin.** "Regulation of Mitochondrial Calcium Uptake in the Heart”. Cardio Palooza 10. Department of Integrative Biology & Physiology, University of Minnesota, July 24, 2018, Minneapolis, MN.
9. **O-Uchi, Jin.** "Malignant hyperthermia-associated mutation of leaky RyR1 and mitochondrial damage in the heart”. CVRC Data Club. Cardiovascular Research Center, Department of Medicine, Rhode Island Hospital, Brown University, January 24, 2018, Providence, RI.
10. **O-Uchi, Jin.** “Role of mitochondrial calcium and ROS in the early postnatal cardiac development”. Center of Biomedical Research Excellence for Perinatal Biology, Research Symposium, Women & Infants Hospital, October 30, 2017, Providence RI.
11. **O-Uchi, Jin.** "Mitochondrial calcium homeostasis as potential target for cardiovascular medicine" CardioPlumonary Vascular Biology COBRE seminar, Ocean State Research Institute, Providence VA Medical Center, April 7, 2017, Providence RI.
12. **O-Uchi, Jin.** "Role of mitochondrial calcium and ROS in the heart development and remodeling" Pediatric Research Colloquium, Women & Infant Hospital, April 7, 2017, Providence RI.
13. **O-Uchi, Jin.** "Physiological role of mitochondrial calcium influx mechanism" CVRC Data Club. Cardiovascular Research Center, Department of Medicine, Rhode Island Hospital, Brown University, January 11, 2017, Providence RI.
14. **O-Uchi, Jin.** “Mitochondrial Ca2+ and ROS in the heart” Vascular Research Lab meeting, Providence Veterans Affairs Medical Center, June 16, 2016, Providence RI.
15. **O-Uchi, Jin.** “Role of Mitochondrial Ca2+ and ROS in the heart” MPPB Department Seminar Series, Department of Molecular Pharmacology, Physiology and Biotechnology, Brown University, May 13, 2016, Providence RI.
16. **O-Uchi, Jin.** "Molecular and functional regulation of mitochondrial calcium uptake" CTM Seminar Series, Center for Translational Medicine, Department of Medicine, Thomas Jefferson University, December 17, 2015, Philadelphia, PA.
17. **O-Uchi, Jin.** “Adrenergic regulation of cardiac excitation and contraction/metabolism coupling: physiology and pathophysiology” CTM Seminar Series, Center for Translational Medicine, Department of Medicine, Thomas Jefferson University, February 5, 2013, Philadelphia, PA.
18. **O-Uchi, Jin.** “Estimation of molecular mechanism underling CaMKII activation by cardiac alpha1-adrenocepor stimulation” Annual meeting of Kato Memorial Bioscience Foundation, March 2, 2007.
19. **O-Uchi, Jin.** “Regulation of Cardiac Ca channels by adrenergic stimulation.”The 1st Sophia-Jikei Biomedical Science Joint Symposium, Tokyo, Japan. November 11, 2006, Tokyo, Japan.

**Peer-reviewed Oral Presentations at Professional Meetings, and Conferences.**

1. Kelly M, Nieto B, Cypress MW, Yang B, Chandran S, Rhee B, Dugan M, Suckow MA, Jhun BS, **O-Uchi J**. c-Src activates cardiac fibroblasts and promotes right ventricular fibrosis in pulmonary arterial hypertension. J. Investig. Med. 2024 (in Press) **(Selected for CSCTR Trainee Abstract Award)**.
2. Jhun BS, Nieto B, Cypress MW, Yang B, Suckow MA, **O-Uch J**. c-Src facilitates ER-to-mitochondria Ca2+ transport and activates cardiac fibroblasts under pulmonary arterial hypertension. *Physiology* 2024 (in Press) **(Selected for APS Featured Topics Symposium).**
3. Jhun BS, **O-Uchi J**. Inhibition of mitochondrial protein kinase D protects right ventricles from cardiac fibrosis and dysfunction under pulmonary arterial hypertension. The Pan-American Physiological Sciences 2023 (PANAM Physiological Sciences 2023) (in Press)
4. Polina I, Guo Y, Jhun BS, Tolkacheva EG, **O-Uchi J**. SARS-CoV-2 ORF3a causes cellular damage and electrophysiological dysfunction in cardiomyocytes. *J Mol Cell Cardiol.* 2023 (in press)
5. Kelly M, Polina P, Nieto B, Jhun BS, **O-Uchi J**. Phosphorylations of mitochondrial calcium uniporter in the heart failure. J. Investig. Med. 67;5. 2023 **(Selected for CSCTR Oral Abstract Award)**
6. Nieto B, **O-Uchi J**, Cypress MW, Landherr M, Chaput I, Polina I, Suckow M, Jhun BS. Role of mitochondrial PKD on right ventricular fibrosis under pulmonary hypertension. *Physiology* 2023   
   38;S1 https://doi.org/10.1152/physiol.2023.38.S1.5733278 **(Selected for APS Featured Topics Symposium)**
7. Chaput I, Cypress MW, Landherr M, Polina I, Yoon Y, Bong Sook Jhun BS, Choudhary G, **O-Uchi J**. A Ca2+-activated Cl- Channel Anoctamin-1 Regulates Mitochondrial Morphology. *FASEB J* S1.R4128, 2022 **(Selected for APS Featured Topics Symposium)**
8. Zhou X, Adhikari N, Cypress MW, Iuliia Polina I, Landherr M, Chaput I, Suckow M, Choudhary G, **O-Uchi J**, Bong Sook Jhun BS. Mitochondrial PKD Activates Mitochondrial Fission and Proliferative Signaling in Cardiac Fibroblasts. *FASEB J* 36.S1.R6274, 2022 **(Selected for APS Featured Topics Symposium)**
9. Adhikari N, Vasanth Rajkumar V, Jhun BS, Talkachova A, **O-Uchi J**. RyR1 mutation associated with malignant hyperthermia induces cardiac arrythmia via mitochondrial calcium overload. *FASEB J* 2021, 35.S1.04146 **(Selected for APS Featured Topics Symposium)**
10. Polina I, Guo Y, Jhun BS, Tolkacheva EG, **O-Uchi J**. Expression of SARS-CoV-2 Viroporins Triggers Cardiac Arrhythmia. *FASEB J* 2021, 35.S1.04486 **(selected for APS Featured Topics Symposium)**
11. Zhou HD, Polina I, Cypress MW, Jhun BS, Zhang P, **O-Uchi J**. Role of Src-Dependent Phosphorylation of Mitofusin 2 in the Endoplasmic Reticulum-Mitochondria Tethering. *FASEB J* 2021, 35.S1.02460 **(Selected for APS Featured Topics Symposium)**
12. Dileepan G, Polina I, Cypress M, Suzuki Y, Adhikari N, Jhun BS, **O-Uchi J**. Role of Src homology/collagen adaptor protein p66Shc in Pyk2 translocation into mitochondria under Gq protein–coupled receptor stimulation. *FASEB J* 2020; 34.s1.07016.  **(Selected for APS Featured Topics Symposium)**
13. **O-Uchi J**, Cao JL, Adaniya SM, Jhun BSJ, Sheu SS.Phosphorylations in the Termini of Mitochondrial Calcium Uniporter Regulate Mitochondrial Calcium Uptake. *FASEB J*., 2019. vol. 33 Issue. 1 Supplement 824.24.
14. Cao JL, Adaniya SM, Landi AK, Yang D, Jhun BS, Sheu SS, **O-Uchi J**. Role of Tyrosine Phosphorylation of Mitochondrial Calcium Uniporter in Regulating Mitochondrial Calcium Homeostasis. *Biophys J.* 114(3):44a, 2018**.**
15. **O-Uchi J**, Mishra J, Jhun BS, Sheu SS. Malignant hyperthermia-associated mutation of leaky RyR1 induces mitochondrial damage in the heart. *J Investig Med.* 65; 810, 2017.
16. **O-Uchi J**, Mishra J, Jhun BS and Sheu SS. Malignant hyperthermia-associated mutation of RyR1 induces mitochondrial Ca2+ overload in the cardiomyocytes. *FASEB J* 2017. vol. 31no.1 Supplement 1080.5.
17. Murphy KR, Lu YC, **O-Uchi J**, Terentyev D Koren G. The Role of Autophagy in Aged Cardiomyocyte Arrhythmogenesis. *FASEB J*., 2017. vol. 31 no. 1 Supplement 1080.4.
18. **O-Uchi J.** Post-translational modification of mitochondrial Ca2+ uniporter mediates mitochondrial Ca2+ overload and cell death in the heart. *Can J Physiol Pharmacol*., 2016.
19. Hurst S, Gomez L, [Jhun BS,](http://www.fasebj.org/search?author1=Bong+Sook+Jhun&sortspec=date&submit=Submit) **O-Uchi J**, Sheu SS. Truncation of GSK-3β in Cardiac Mitochondria is the Master Switch of the mPTP. *FASEB J.* 29(1); 979.3, 2015.
20. **O-Uchi J**, [Mishra](http://www.fasebj.org/search?author1=Jyotsna+Mishra&sortspec=date&submit=Submit) J, [Jhun BS,](http://www.fasebj.org/search?author1=Bong+Sook+Jhun&sortspec=date&submit=Submit)  Hurst S, Fu D, Gomez L, Sheu SS. Characterization of the cardiac phenotype of malignant hyperthermia-associated mutation of RyR1. J Gen Physiol 146:264 2015.
21. Parks XX, Ronzier E, Abraham RE, **O-Uchi J,** Lopes CM. Statin Inhibits IKs Internalization in Response to Prolonged Stress Stimulus. *Biophys J.* 108(2): 349a, 2015.
22. **O-Uchi J**, Smith GL, Dirksen RT, Wang W, Rizzuto R, Sheu SS. Phosphorylation of mitochondrial Ca2+ uniporter regulates mitochondrial Ca2+ uptake and apoptotic cell death in cardiomyocytes *Curr Res Cardiol* 1(1):50, 2014.
23. **O-Uchi J**, Porter GA Jr, Kang SH, Boncompagni S, Sokolova N, Gross P, Jhun BS, Beutner G, Brookes P, Blaxall BC, Dirksen RT, Protasi F, Pan S, Sheu SS. Malignant hyperthermia mutation of RyR1 (Y522S) increases catecholamine-induced cardiac arrhythmia through mitochondrial injury. Circ Res. 111:4 Supplement A370, 2012.
24. Lopes CMB, Hoefen R, Reumann M, **O-Uchi J**, Moss AJ, Jons C, McNitt S, Zareba W, Rice JJ, Goldenberg I. *In Silico* Cardiac Risk Assessment of Long QT Patients: Clinical Predictability of Cardiac Models. *Circulation.* 2011;124:A12787.
25. **O-Uchi, J,** Lopes, CMB. Calcium-Dependent PKC Activation Inhibits Slow Repolarizing Cardiac Current by Decreasing Ion Channel Membrane Expression. *Circulation.* 2011;124:A16072.
26. **O-Uchi, J**., Lopes, C.M.B. Regulation of Slow delayed rectifier K+ current by PKC isoforms. *Exp Clin Cardiol.,* 2011.
27. **O-Uchi, J**., Barsheshet, A., Jons, C., Moss, A.J.,Lopes, C.M.B. Novel Strategy of Risk Stratification for Long QT Syndrome Patients. *Exp Clin Cardiol.,* 2011.
28. Pan S, Wang N, Sun P, Sokolova N, Gross P, **O-Uchi J**, Sheu SS. Ca2+ uptake by cardiac mitochondria under mitochondrial Ca2+ uniporter inhibition. *J Gen Physiol.* 2011;138:74A.
29. **O-Uchi, J.**, Kusakari, Y., Fujiwara, E., Komukai, K., Morimoto,S., Kawai, M., Hongo, K., Komukai, K., Lopes, C.M.B., Kurihara, S. Tyrosine kinase activated by α1-adrenergic stimulation inhibits cardiac contractility by directly phosphorylating β1-adrenoceptor. *J Physiol Sci.* 2011.
30. **O-Uchi, J.**, Barsheshet, A., Jons, C., Moss, A.J.,Lopes, C.M.B. Risk Stratification and Treatment for Long QT Syndrome Type1 Patients-Combination Analysis of Clinical Information and Cellular Electrophysiology-. *Circ J.* 2011.
31. **O-Uchi, J.**, Lopes, C.M.B. cPKC-activation of KNCQ1/KCNE1 channel is impaired in Long QT type 1. *Biophys J*. 100(3), 2011.
32. Barsheshet, A., Goldenberg, I., **O-Uchi, J.**, Moss, A.J., Jons, C., Shimizu, W., Wilde, A.M., McNitt, S., Zareba, W., Robinson, J.L., Ackerman, M.J., Kanters, J.K., Kaufman, E.S., Platonov, P.G., Qi, M., Towbin, J.A., Vincent, G.M., Lopes, C.M.B. Mutations in Cytoplasmic Loops are Associated with Increased Risk for Cardiac Events in Type-1 Long QT Syndrome. *Circulation,* 122: A13466, 2010.
33. **O-Uchi, J.**, Barsheshet, A., Rice, J.J., Goldenberg, I., Moss, A.J., Lopes, C.M.B. Impaired KNCQ1/KCNE1 activation by α-AR is associated with emotion/arousal triggered events in Long QT syndrome type 1. *Upstate New York Cardiac Electrophysiology Society* Suppl, 2010.
34. **O-Uchi, J.**, Jons, C., Moss, A.J., Lopes, C.M.B. Novel Strategy of Risk Stratification for Long QT Syndrome Patients. Exp Clin Cardiol., 15: 21, 2010.
35. Hongo,K., Morimoto, S., **O-Uchi, J.**, Kusakari, Y., Urashima, T., Date, T., Komukai, K., Kawai, M., Ohnuki, Y., Saeki, Y., Morimoto, S., Yoshimura, M., Kurihara, S. Role of renin-angiotensin system in heart failure due to decreased Ca2+ sensitivity of the myofilament. J Mol Cell Cardiol. 2010.
36. Morimoto, S., **O-Uchi, J.**, Kawai, M., Hoshina, T., Kusakari, Y., Komukai, K., Sasaki, H., Hongo, K., Kurihara, S. Protein kinase A–dependent phosphorylation of ryanodine receptors is important for the increase in Ca2+ leak from sarcoplasmic reticulum in mouse heart . J Mol Cell Cardiol. 2010.
37. Komukai, K., **O-Uchi, J.**, Hongo, K., Kawai, M., Morimoto, S., Yoshimura, M., Kurihara, S. Factors modulating the effect of endothelin-1 on L-type Ca2+ current. Circ J. 74 (Suppl.I):742, 2010.
38. **O-Uchi, J.**, Jons, C., Moss, A.J., Goldenberg, I., Zareba, W., Wilde, A.A., Shimizu, W., Kanters, J.K., McNitt, S., Robinson, J.L., Lopes, C.M.B.: Slow Rate of Ion Channel Activation Identifies High Cardiac Risk for Type 1 Long QT Syndrome Patients With Moderate QTc Prolongation. Circulation. 120: S660 - S661, 2009.
39. Komukai, K., **O-Uchi, J.**, Morimoto, S., Kawai, M., Hongo, K., Yoshimura, M., Kurihara, S.: Endothelin-1 Increases L-type Ca Current of Rat Ventricular Myocytes via an Activation of Protein Kinase C and Ca/calmodulin Dependent Protein Kinase II. Circulation. 120: S695, 2009.
40. **O-Uchi, J.**, Fujiwara, E.M., Matavel, A., Lopes, C.M.B.: Classic PKC facilitates IKs voltage dependence of activation through phosphorylation of an isoform specific site in the KCNE1 subunit *Upstate New York Cardiac Electrophysiology Society* Suppl:5, 2009.
41. **O-Uchi, J.**, Komukai, K., Morimoto,S., Kawai, M., Hongo, K., Kurihara, S.: Cardiac Alpha1a-adrenoceptor Stimulation Inhibits L-type Ca2+ Current In The Presence Of Beta-adrenoceptor Stimulation Through Tyrosine Kinase. Biophys J. 96(3) pp. 222a, 2009.
42. **O-Uchi, J**., Kurihara, S. CaMKII: an important modurator of cardiac L-type Ca2+ channels in α1-adrenoceptor stimulation. *J Physiol Sci*. 58:S45, 2008.
43. Komukai, K., **O-Uchi, J.**, Morimoto,S., Kawai, M., Hongo, K., Kurihara, S. Endotherine-1 increase L-Type Ca current via an activation of Ca/calmodulin-dependent kinase II in rat ventricular myocytes. *Circ J.* 72:214, 2008.
44. **O-Uchi J**, Kurihara S. Alpha1A-adrenoceptor Stimulation Inhibits L-type Ca2+ Current in the Presence of β-adrenoceptor Stimulation in Rat Ventricular Myocytes. *Upstate New York Cardiac Electrophysiology Society* (Suppl.):6, 2008.
45. Komukai, K., **O-Uchi, J.**, Morimoto, S., Kawai, M., Hongo, K., Kurihara, S. Effect of endothelin-1 on L-type Ca current in rat ventricular myocytes. J. Card Fail. 13: S36, 2007.
46. Hongo K, Morimoto S, Kawai M, Komukai K, **O-Uchi J,** Kusakari Y, Morimoto S, Kurihara S. Altered Ca2+ handling could contribute to the cardaic sudden death in knock-in mouse of dilated cardiomyopathy. Exp Clin Cardiol., 12(2): 100–106. 2007**.**
47. **O-Uchi J**, Sasaki H and Kurihara S. Intracellular regulation mechanisms of the changes in L-type Ca2+ channel induced by alpha1-adrenoceptor stimulation. Exp Clin Cardiol., 11(2):141, 2006
48. **O-Uchi, J**., Kurihara, S. L-type Ca2+ current is regulated via both PTX-sensitive and -insensitive pathways during apha1-adrenoceptor stimulation. J Mol Cell Cardiol. 40:890-891, 2006.
49. **O-Uchi, J.**, Komukai, K., Kusakari, Y., Obata, T., Hongo, K., Sasaki, H., Kurihara, S. CaMKII is involved in L-type Ca2+ current potentiation induced by alpha1-adrenoceptor stimulation in rat ventricular myocytes. Exp Clin Cardiol. 10:131, 2005.
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51. **O-Uchi, J.**, Komukai, K., Tohyama, J., Inada, K., Iwano, K., Yamane, T., Shibata, T., Mochizuki, S. Coronary artery spasm discovered in thorough examination of perioperative VT in a young man (Japanese). Circ J. 67(Suppl.III):912, 2003.
52. **O-Uchi, J.**, Maruyama, Y., Ikeda, M., Yamamoto, Y., Nakayama, M., Hosoya, T. Acute heart failure caused by exacerbation of chronic renal failure due to malignant hypertension treated by ACEI (Japanese) The Journal of the Japanese Society of Internal Medicine (Kanto section, 2001.10) (Suppl.): 25, 2001.

**Poster Abstract Presentations at Professional Meetings, and Conferences**

* 1. Dugan M, Cypress MW, D’Silva N, Zhang P, Nieto B, Chandran S, Rhee B, O-Uchi J, Chaudhary G, Jhun BS. Expression of a Ca2+-activated chloride channel anoctamin-1 in the mitochondria induces cell proliferation. J. Investig. Med. 2024 (in Press) **(Selected for CSCTR Trainee Abstract Award).**
  2. Yang B, Cypress MW, Nieto B, Jhun BS, O-Uchi J. Genetic enhancement of mitochondrial Ca²⁺ buffering capacity prevents apoptotic signaling activation in response to cytosolic Ca²⁺ elevation **(Selected for APS Barbara A. Horwitz and John M. Horowitz Undergraduate Research Award)**.

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  100. Fukuda, N., **O-Uchi, J.**, Kajiwara, H., Ishiwata, S., Kurihara, S. Effect of acidosis on length dependence of tension generation in skinned cardiac muscle. Biophys J. 80:259A, 2001
  101. **O-Uchi, J.**, Ishikawa, T., Kurihara, S. Effect of Ca2+ sensitizer EMD57033 on Ca2+ transient and contraction in aequorin-injected ferret ventricular muscles (Japanese). Tokyo Jikeikai Medical Journal 113: 497, 1998.

**TEACHING AND CURRICULUM DEVELOPMENT**

**University of Minnesota**

**Course/Lecture List**

Invited Lecturer, Department of Integrative Biology and Physiology 2019-present

“Critical Readings in Physiology” for PhD student: 2.0 hr/year

Invited Lecturer, Wallen Alpert Medical School of Brown University 2018-2020

“Integrated Medical Sciences III: Cardiovascular”

for Year 2 medical students: 1.5 hr/year

**Warren Alpert Medical School of Brown University**

**Course/Lecture List**

Lecturer 2016-2017

“Integrated Medical Sciences III: Cardiovascular”

Year 2 medical students: 1.5 hr/year

**The Jikei University School of Medicine**

**Course/Lecture List**

Teaching Instructor 2006-2008

“Medical case studies”

Year 3 medical school students: 30 hr/year

Teaching Instructor 2003-2007

“Basic medical science”

Year 2 medical school students: 60 hr/year

**ADVISING AND MENTORING**

**University of Minnesota**

**Post-doctoral fellows supervised**

Michael W Cypress, Ph.D., Research Scientist IV 2018-present

Iuliia Polina, Ph.D., Research Scientist V 2019-2023 Current Position: N/A

Neeta Adhikari, PhD., Research Scientist V 2019-2021

Current Position: Senior Research Specialist

Histology Core, University of North Dakota,

Grand Forks, ND

Yuta Suzuki, M.D., Ph.D., Post-doctoral fellow 2018-2020

Current Position: Researcher, Mayo Clinic, Rochester MN

**Junior Faculty supervised**

Xiaoxu Zhou, M.D., Ph.D., Research Assistant Professor 2021-2022

Current Position: Research Assistant Professor

Rhode Island Hospital and Brown University, Providence RI

**Visiting Scholars Hosted**

Jacob Welch, Vanderbilt University, Nashville, TN 2024

Nathan DeMichaelis (co-mentoring with Dr. Bong Sook Jhun),

Dartmouth College, Hanover, NH 2024

Benjamin Yang, California Institute of Technology, Pasadena, CA 2023

Madeline Kelly, University of Chicago, Chicago, IL 2022

Maria Landherr, St. Olaf College, Northfield, MN 2021

Dora Azeudong Tsobze, Normandale Community College, Bloomington, MN 2019

Stephanie M Adaniya, Brown University, Providence RI 2018

**Graduate Student Activities**

Medical School Students Research Projects

Maria Landherr, B.S. 2024-present

Matthew Dugan, B.S. (co-mentoring with Dr. Bong Sook Jhun) 2023-present

Doctoral Students Advise

Xiangzhen Kong, B.S. 2021-2022

Doctoral Students Advised

Jae Hwi Sung, M.S. 2019-2020

External Doctoral Committee Member

Salwa Hafez, M.S., Brown University, Providence RI 2018-present

MS Students Advise

Madeline Kelly, B.S.. (remote position) 2024- present

Wake Forest University Graduate School of Arts and Sciences, Winston-Salem, NC

**Undergraduate Student Activities**

**Undergraduate Research Projects**

Nathan DeMichaelis (co-mentoring with Dr. Bong Sook Jhun) 2024- present

Dartmouth College, Hanover, NH

Amelia Carrizales 2024- present

Brian Rhee 2023- present

Sanjana Chandran 2023- present

Benjamin Yang (remote position) 2023- present

California Institute of Technology, Pasadena, California

Madeline Kelly (remote position), University of Chicago, Chicago, IL 2023-2024

Current position: MS program, Wake Forest University Graduate School of Arts and Sciences, Winston-Salem, NC

Isabel Chaput 2020- 2023

Current position: N/A

Maria Landherr 2021- 2022

St. Olaf College, Northfield, MN

Current position: Medical School Student

University of Minnesota, Minneapolis, MN

Hannah Thompson 2020

Current position: Administrator

University of Minnesota, Minneapolis, MN

Kamelia Drenkova 2020

Macalester College, Saint Paul, MN

Current position: Research Assistant

New York University, New York, NY

Gayathri Dileepan 2019-2020

Current position: Medical Scientist Training Program Student

The Ohio State University, Columbus, OH

Dora Azeudong Tsobze 2019-2020

Normandale Community College, Bloomington, MN

Current position: N/A

Seonmi Park, B.A. 2019-2020

Current position: University of Minnesota

**Undergraduate Honor theses directed**

Gayathri Dileepan B.S. 2020-2021

Current position: Medical Scientist Training Program Student

The Ohio State University, Columbus, OH

**Other Mentoring Activities**

**Additional Supervisory Role**

Brian Rhee, Research Assistant 2024- present

Nathan DeMichaelis, Research Assistant (co-mentoring with Dr. Bong Sook Jhun) 2024- present

Sanjana Chandran, Research Assistant 2024- present

Bridget Nieto, B.A., Research Scientist II 2022-present

Maria Landherr, B.S., Research Scientist I 2022-2023

Current position: Medical School Student

University of Minnesota, Minneapolis, MN

Isabel Chaput, Research Assistant 2020- 2023

Maria Landherr, Research Assistant　 2021- 2022

Current position: Medical School Student

University of Minnesota, Minneapolis, MN

Hannah Thompson, B.A., Research Scientist I 2020-2021

Current position: Administrator

University of Minnesota, Minneapolis, MN

Kamelia Drenkova, Research Assistant 2020

Current position: Research Assistant

New York University, New York, NY.

Jordan Schlichting, Research Scientist 2019

Current position: N/A

**Brown University and Rhode Island Hospital**

**Undergraduate Student Activities**

**Undergraduate research projects**

Jessica L Cao, B.S. 2017-2018

Current position: Residency,

Department of Surgery, University of Chicago, Chicago IL

Stephanie M Adaniya 2017-2018

Current position: MD, PhD Program Student

University of Washington, Seattle, WA.

Henley Ma 2017-2018

Current position: Medical School Student,

Warren Alpert Medical School of Brown University, Providence RI

Milla Shin 2017-2018

Current position: Software Engineer

Amazon Web Services

**Undergraduate Honor theses directed**

Jessica Cao, B.S. 2017-2018

Current position: Residency,

Department of Surgery, University of Chicago, Chicago IL

**Graduate Student Activities**

**Master’s Theses Directed**

Kara Ford M.S. 2017 2016-2017

Current position: Senior Research Associate,

Intellia Therapeutics, Inc., Cambridge, MA

**Doctoral Students Advised**

Salwa Hafez, M.S. 2017

Current position: Graduate Student

Brown University, Providence RI

Nedyalka Valkov, Ph.D., 2017 2016-2017

Current position: Postdoctoral Fellow,

Massachusetts General Hospital, Boston, MA

Kevin Murphy, Ph.D., 2017 2016-2017

Current position: Postdoctoral Fellow,

Johns Hopkins University, Baltimore, MD

**Doctoral Committees Served on**

Salwa Hafez, M.S. 2017-2018

Current position: Graduate Student

Brown University, Providence RI

**Visiting Scholars Hosted**

Amy K Landi 2017

Quinnipiac University, Hamden, CT

Current Position: Principal Specialist

External QA Operations

**Junior Faculty supervised**

Bong Sook Jhun, Ph.D., Research Instructor, and Research Assistant Professor 2017-2018

Current Position: Assistant Professor,

University of Minnesota, Minneapolis MN

**Other Mentoring Activities**

Additional Supervisory Role

Michelle King, B.S., Senior Research Assistant 2017-2018

Current Position: Research Assistant,

Providence VA Medical Center, Providence RI

Faculty Trainer 2017-2018

Graduate Program in Molecular Pharmacology and Physiology,

Department of Molecular Pharmacology, Physiology and Biotechnology

Dongqin Yang, B.S., Senior Research Assistant 2016-2018

Current Position: Research Assistant

Brown University, Providence RI

Jacob Moeller, B.S., Research Assistant 2016

Current Position: Ph.D student

University of California, Berkeley, CA

**Thomas Jefferson University**

**Post-doctoral fellows supervised**

Jyostna Mishra, Ph.D. 2014-2015

Current Position: Post-doctoral fellow,

Department of Anesthesiology,

Medical college of Wisconsin, Milwaukee, WI

**Visiting Scholars Hosted**

Jun Okuzawa, M.D. 2016 National Defense Medical College, Saitama Japan 2015

Current Position: Clinical Fellow,   
National Defense Medical College, Saitama, Japan

**Other Mentoring Activities**

**Additional Supervisory Role**

Sarah Monaco, M.S. (Research Assistant) 2014-2015

Current Position: Postdoctoral Fellow

Children's Hospital of Philadelphia, Philadelphia, PA

**University of Rochester**

**Other Mentoring Activities**

**Additional Supervisory Role**

Jaimie Sorenson, B.S., Research Assistant 2010-2011

Current Position: Lecturer

Johns Hopkins University, Baltimore, MD

Michael Cypress, B.S., Research Assistant 2010-2011

Current Position: Research Scientist IV

University of Minnesota, Minneapolis MN

**Jikei University School of Medicine**

**Graduate Student Activities**

**Doctoral Students co-advised**

Satoshi Morimoto, M.D, Ph.D. 2011 2006-2011

Current Position: Lecturer

Department of Medicine Jikei University School of Medicine, Tokyo Japan

Takanori Hama, M.D, Ph.D., 2010 2006-2010

Current Position: Lecturer

Department of Otolaryngology, Jikei University School of Medicine, Tokyo Japan

**Summary of Awards to Trainees and Junior Faculty**

|  |  |  |  |
| --- | --- | --- | --- |
| **Trainee Name** | **Name of Award** | **Institution Presenting Award** | **Year Received** |
| Benjamin Yang | Caltech Summer Undergraduate Research Fellowship | California Institute of Technology (Caltech) | 2024 |
| Matthew Dugan, B.S. | Wilson Scholarship | Lillehei Heart Institute (LHI), University of Minnesota (UMN) | 2024 |
| Benjamin Yang | Barbara A. Horwitz and John M. Horowitz Undergraduate Research Award | American Physiological Society (APS) | 2024 |
| Matthew Dugan, B.S. | Medical Student Research Grant | UMN Foundation | 2024 |
| Brian Rhee | APS Summer Undergraduate Research Fellowship | APS | 2024 |
| Madeline Kelly | Trainee Abstract Award | Central Society for Clinical and Translational Research (CSCTR) | 2024 |
| Matthew Dugan, B.S. | Trainee Abstract Award | CSCTR | 2024 |
| Benjamin Yang | Barbara A. Horwitz and John M. Horowitz Undergraduate Abstract Award | APS | 2024 |
| Benjamin Yang | LHI Summer Research Scholarship | LHI, UMN | 2023 |
| Madeline Kelly | Oral Abstract Award | CSCTR | 2023 |
| Bridget Nieto, B.S. | Invited Speaker for “Featured Topic session” at APS Summit 2023 | APS, Cell and Molecular Physiology Section (CaMPS) | 2023 |
| Iuliia Polina, Ph.D. | New Investigator Award | APS, CaMPS | 2023 |
| Isabel Caput | Finalist, Robert Gunn Student Award | APS, CaMPS | 2023 |
| Madeline Kelly | 2nd place at the 2022 IEM Annual Conference Poster Competition | Institute of Engineering in Medicine (IEM), UMN | 2022 |
| Madeline Kelly | LHI-AHA Summer Research Scholarship | LHI, UMN and American Heart Association (AHA) | 2022 |
| Xiaoxu Zhou, M.D., Ph.D. | Invited Speaker for “Featured Topic session” at 2022 Experimental Biology Meeting | APS, CaMPS | 2022 |
| Isabel Caput | Invited Speaker for “Featured Topic session” at 2022 Experimental Biology Meeting | APS, CaMPS | 2022 |
| Isabel Caput | Finalist, Robert Gunn Student Award | APS, CaMPS | 2022 |
| Maria Landherr | Barbara A. Horwitz and John M. Horowitz Undergraduate Abstract Award | APS | 2022 |
| Iuliia Polina, Ph.D. | Physiological Reports Research Award | APS and Journal “Physiological Reports” | 2022 |
| Iuliia Polina, Ph.D. | Biophysical Society Travel Award | Biophysical Society | 2022 |
| Maria Landherr | 2nd place, LHI Summer Scholar Poster Session | LHI, UMN | 2021 |
| Maria Landherr | LHI Summer Research Scholarship | LHI, UMN and AHA | 2021 |
| Iuliia Polina, Ph.D. | 2020 IEM Annual Conference Pilot Project Grant | IEM, UMN | 2021 |
| Neeta Adhikari, Ph.D. | 2020 IEM Annual Conference Pilot Project Grant | IEM, UMN | 2021 |
| Hanna Thompson (Hanana D Zhou) | Invited Speaker for “Featured Topic session” at 2021 Experimental Biology Meeting | APS, CaMPS | 2021 |
| Neeta Adhikari, Ph.D. | Invited Speaker for “Featured Topic session” at 2021 Experimental Biology Meeting | APS, CaMPS | 2021 |
| Iuliia Polina, Ph.D. | Invited Speaker for “Featured Topic session” at 2021 Experimental Biology Meeting | APS, CaMPS | 2021 |
| Seonmi Park | Laboratory Student Scholarship | Society for Clinical Pathology Foundation | 2020 |
| Jae Hwi Sung, M.S. | Lifson-Johnson Award | UMN Medical School | 2020 |
| Gayathri Dileepan | Life Science Summer Undergraduate Research Program (LSSURP) | UMN Medical School | 2020 |
| Michael W. Cypress, Ph.D. | 1st Prize, Postdoctoral Research Recognition Award | APS, CaMPS | 2020 |
| Iuliia Polina, Ph.D. | Trainee Travel Award | CSCTR | 2020 |
| Gayathri Dileepan | Invited Speaker for “Featured Topic session” at 2020 Experimental Biology Meeting | APS, CaMPS | 2020 |
| Jae Hwi Sung, M.S. | Allan Hemingway Scholarship | UMN Department of Integrative Biology and Physiology | 2019 |
| Dora Azeudong Tsobze | APS Hearst Undergraduate Summer Research Fellowship | APS and Hearst Foundations | 2019 |
| Gayathri Dileepan | LHI Summer Research Scholarship | LHI, UMN | 2019 |
| Bong Sook Jhun, Ph.D | Career Development Award | AHA | 2018 |
| Jessica Cao, B.S. | Education Committee Travel Award | Biophysical Society | 2018 |
| Bong Sook Jhun, Ph.D. | New Investigator Award | APS, CaMPS | 2018 |
| Bong Sook Jhun, Ph.D. | Medical Research Grant Award | Rhode Island Foundation | 2018 |
| Stephanie M. Adaniya | Undergraduate Teaching & Research Award | Brown University | 2018 |
| Milla Shin | Undergraduate Teaching & Research Award | Brown University | 2018 |
| Hanley Ma | PLME Summer Research Assistantship (SRA) | Brown University | 2018 |
| Hanley Ma | Summer Internship Program in Biomedical Research (SIP) | NIH/NILBI | 2018 |
| Jessica Cao, B.S | Morris L. Povar Prize in Physiology | Brown University | 2018 |
| Jessica Cao | Basic Science Research Award | 25th Annual Lifespan Research Symposium, Lifespan, Providence RI | 2017 |
| Jessica Cao | Undergraduate Teaching & Research Award (UTRA) | Brown University | 2017 |
| Bong Sook Jhun, Ph.D. | Advance-CTR, Pilot Project Award U54GM115677 | NIH/NIGMS | 2017 |
| Jyostna Mishra, Ph.D. | 1st Prize, Postdoctoral Research Recognition Award | APS, CaMPS | 2016 |

**PROFESSIONAL SERVICE AND PUBLIC OUTREACH**

**Service The Discipline/Profession/Interdisciplinary Area(s)**

**Editorships/Journal Reviewer Experience**

|  |  |  |
| --- | --- | --- |
| ***Role*** | ***Journal*** | ***Date*** |
| Ad hoc reviewer | Heliyon | 2024-present |
| Associate Editor | *Frontiers in Physiology, Mitochondrial Research* | 2022-present |
| Ad hoc reviewer | *STAR Protocols* | 2021-present |
| Ad hoc reviewer | *Translational Research* | 2020-present |
| Ad hoc reviewer | *Journal of Clinical Medicine* | 2020-present |
| Ad hoc reviewer | *Journal of Molecular and Cellular Cardiology* | 2019-present |
| Ad hoc reviewer | *Cell Signaling* | 2019-present |
| Ad hoc reviewer | *Oxidative Medicine and Cellular Longevity* | 2019-present |
| Ad hoc reviewer | *European Journal of Pharmacology* | 2019-present |
| Ad hoc reviewer | *Stem Cells International* | 2019-present |
| Ad hoc reviewer | *Developmental Dynamics* | 2019-present |
| Ad hoc reviewer | *Pharmacological Research* | 2019-present |
| Ad hoc reviewer | *The FASEB Journal* | 2019-present |
| Ad hoc reviewer | *Scientific Reports* | 2019-present |
| Ad hoc reviewer | *Cells* | 2019-present |
| Ad hoc reviewer | *Journal of Physiological Sciences* | 2019-present |
| Ad hoc reviewer | *Archives of Pharmacol Research* Sciences | 2018-present |
| Ad hoc reviewer | *Experimental and Therapeutic Medicine* | 2018-present |
| Ad hoc reviewer | *Oncology Letters* | 2018-present |
| Editorial Board Member | *JSM Biochemistry and Molecular Biology* | 2018-present |
| Ad hoc reviewer | *Frontiers in Endocrinology* | 2018-present |
| Ad hoc reviewer | *Mitochondrion* | 2018-present |
| Ad hoc reviewer | *Frontiers in Endocrinology* | 2018-present |
| Ad hoc reviewer | *Mitochondrion* | 2018-present |
| Ad hoc reviewer | *International Journal of Molecular Medicine* | 2018-present |
| Ad hoc reviewer | *Frontiers in Pharmacology* | 2016-present |
| Editorial Board Member | *Frontiers in Cardiovascular Medicine* | 2015-present |
| Editorial Board Member | *Frontiers in Genetics* | 2015-present |
| Ad hoc reviewer | *Cellular Physiology and Biochemistry* | 2015-present |
| Ad hoc reviewer | *Journal of Vascular Medicine & Surgery* | 2015-present |
| Ad hoc reviewer | *Antioxidants & Redox Signaling* | 2015-present |
| Ad hoc reviewer | *Biochimica et Biophysica Acta (BBA) – Bioenergetics* | 2015-present |
| Ad hoc reviewer | *Mini Reviews in Medicinal Chemistry* | 2015-present |
| Ad hoc reviewer | *Apoptosis* | 2015-present |
| Ad hoc reviewer | *Journal of Bioenergetics and Biomembranes* | 2015-present |
| Ad hoc reviewer | *Drug Design, Development and Therapy* | 2014-present |
| Editorial Board Member | *Frontiers in Cell and Developmental Biology* | 2014-present |
| Ad hoc reviewer | *International Journal of Molecular Sciences* | 2014-present |
| Ad hoc reviewer | *Journal of Psychological Abnormalities in Children* | 2014-present |
| Ad hoc reviewer | *American Journal of Physiology, Heart and Circulatory Physiology* | 2013-present |
| Ad hoc reviewer | *Pflügers Archiv - European Journal of Physiology* | 2013-present |
| Editorial Board Member | *World Journal of Cardiology* | 2013-present |
| Ad hoc reviewer | *Respiratory Research* | 2013-present |
| Editorial Board Member | *Frontiers in Physiology* | 2012-present |
| Ad hoc reviewer | *Hypertension Research* | 2010-present |
| Guest Associate Editor | *Journal of Cardiovascular Development and Diseases*  *Special Issue "Cardiac Ion Channels in Cardiac Health and Disease"* | 2018-2019 |
| Guest Associate Editor | *Frontiers in Cardiovascular Medicine*  *Special Issue "Genetic Modification of Cardiac Tissue”* | 2017-2019 |
| Ad hoc reviewer | *JSM Biochemistry and Molecular Biology* | 2017 |
| Editorial Board Member | *Journal of Biochemistry and Molecular Biology Research* | 2014 |
| Ad hoc reviewer | *Clinical Medicine Insights*: Cardiology | 2014 |
| Ad hoc reviewer | *World Journal of Gastroenterology* | 2014 |
| Ad hoc reviewer | *World Journal of Gastroenterology* | 2014 |
| Ad hoc reviewer | *World Journal of Stem Cells* | 2014 |

**Review panels for external funding agencies, and foundations.**

|  |  |  |
| --- | --- | --- |
| Ad-hoc member | Peer Review Committee  NIH Study Section MPPB | 2024-present |
| Member | Peer Review Committee  Barbara A. Horwitz and John M. Horowitz Undergraduate Research Award  American Physiological Society | 2023-present |
| Member | Peer Review Committee, Innovative Project Award  American Heart Association | 2023-present |
| Member | Peer Review Committee  Summer Undergraduate Research Fellowship (SURF) American Physiological Society | 2023-present |
| Ad hoc reviewer | Ad hoc Peer Review Committee  Medical Research Council  UK Research and Innovation  Swindon, United Kingdom | 2019-present |
| Member | Peer Review Committee  Basic Cell –Membranes and Subcellular Organelles  American Heart Association | 2018-present |

**Committee memberships**

|  |  |  |
| --- | --- | --- |
| Vice Chair (elected) | American Physiological Society (APS),  Cell and Molecular Physiology Section (CaMPS) | 2024-present |
| Member | Steering Committee, APS CAMPS | 2021-present |
| Chair (elected) | Award Selection Committee, APS CAMPS | 2021-2024 |
| Member | APS Career Opportunities in Physiology Committee | 2021-2024 |
| Member | Awards Selection Committee, APS Cardiovascular Section | 2018-2021 |
| External Referee | Yisang Yoon, Ph.D.  Evaluation for promotion to Professor  Augusta University, Augusta, GA | 2020 |



|  |  |  |
| --- | --- | --- |
| Session Chair | Webinars: The 2024 Hugh Davson Distinguished Lectureship of the APS Cell & Molecular Physiology Section | 2024 |
| Session Co-Chair | PhysioHub Session “Davson@Hub” at 2024 American Physiological Society (APS) Summit | 2024 |
| Session Chair | Feature Topics session “Ion Channels/Transporters in Health and Disease” at 2022 Experimental Biology Meeting | 2022 |

**Service to the University/Medical School/Department**

**University of Minnesota**

**Department/Unit Service**

|  |  |  |
| --- | --- | --- |
| Interviewer | Physician-Scientist Training Program (PSTP)  Department of Medicine | 2019- present |
| Member | Selection Committee, for Summer Research Scholars Program, Lillehei Heart Institute | 2019- 2022 |
| Session Chair | Oral Session at IEM Annual Conference, Institute of Engineering in Medicine (IEM) | 2020 |
| Member | Judge for Poster Session at IEM Annual Conference, Institute of Engineering in Medicine (IEM) | 2019- present |
| Member | Search Committee for Investigator at the rank of Associate/Full Professor, Department of Medicine, Division of Cardiology | 2018-2020 |
| Member | Selection Committee for Young Investigator Competition for Maurice Visscher Symposium | 2019 |
| Member | Poster Awards Committee, Cardio Palooza 10, Department of Integrative Biology & Physiology | 2018 |

**Brown University/Rhode Island Hospital**

**Department/Unit Service**

|  |  |  |
| --- | --- | --- |
| Member | Search Committee for Investigator at the rank of Assistant/Associate Professor, Department of Medicine, Division of Cardiology, Rhode Island Hospital | 2017-2018 |
| Organizer | Research Seminar Series (monthly), "Frontiers in Medical Science Research: Advanced Methodology and Technology" | 2017-2018 |

**Thomas Jefferson University**

**Department/Unit Service**

|  |  |  |
| --- | --- | --- |
| Associate Director | Microscope/Imaging Core, Center for Translational Medicine (CTM) (Director: Dr. Shey-Shing Sheu) | 2014 – 2016 |