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**CURRICULUM VITAE**

**Tatsuyoshi Moses Kono, PhD**

**Research Associate Professor**

**Department of Pediatrics**

**Indiana University School of Medicine**

[**konot@iu.edu**](mailto:konot@iu.edu)

**317-278-9517 (Lab), 317-847-4276 (Office)**

**EDUCATION:**

**POSTDOCTORAL**

Indiana University School of Medicine, Indiana Center For Vascular Biology and Medicine

Vascular Biology and Stem Cell Research 02/2009-01/2012

Indiana University School of Medicine, Wells Research Center for Pediatrics Research

Basic Diabetes Research Program 07/2008-02/2012

Tohoku University Biomedical Engineering Research Organization

Cell Biology 04/2007-03/2008

**GRADUATE**

Tohoku University, Sendai, Japan Ph.D. Agriculture (*Animal Nutrition*) 03/2007

Tohoku University, Sendai, Japan M.Sc. Agriculture *(Animal Science)* 03/2004

**UNDERGRADUATE**

Tohoku University, Sendai, Japan B.Sc. Agriculture *(Animal Science)* 03/2002

**Appointments:**

**ACADEMIC**

Indiana University School of Medicine, Department of Pediatrics

Research Associate Professor 07/22-present

VA Medical Center, Research and Development (Intergovernmental Personnel Agreement)

Research Associate Professor 07/22-present

Tohoku University, Department of Agriculture

Visiting Professor 09/23-03/24

Indiana University School of Medicine, Department of Pediatrics

Research Assistant Professor 06/20-06/22

Indiana University School of Medicine, Division of Endocrinology and Metabolism

Research Assistant Professor 03/12-05/20

VA Medical Center, Research and Development (Intergovernmental Personnel Agreement)

Research Assistant Professor 07/13-06/22

Indiana University School of Medicine, Indiana Center For Vascular Biology and Medicine

Post-doctoral fellow (T32 grant appointee) 02/09-01/12

Indiana University School of Medicine, Wells Research Center for Pediatrics Research

Post-doctoral fellow 07/08-02/12

Tohoku University Biomedical Engineering Research Organization

Post-doctoral Research Associate 04/07-03/08

Sendai Animal Nursing School Lecturer (Animal Nutrition) 04/02-03/06

**Licensure, CeRTIFICATION, SPECIALTY BOARD STATUS**

Licensed Domestic Animal Inseminator – Partial Veterinary License (JAPAN) 2002

**PROFESSIONAL ORGANIZATION MEMBERSHIPS:**

American Diabetes Association Member 2010-present

Endocrine Society Member 2018-present

United Japanese Researchers Around the world Member 2014-present

Japan Diabetes Society Member 2008-2009

World Poultry Science Association Member 2005-2009

Japan Poultry Science Association Member 2003-2009

Japanese Society of Animal Science Member 2003-2009

**professional Honors and Awards**

\*Heartland Children Grant Awardee Heartland Children Grant Fund 2025

\*Invited Speaker IRCMS Symposium Rise of Diversity in Science 2023

\*Outstanding Paper Award United Japanese researchers Around the world 2019

\*Showalter Young Investigator Award Indiana CTSI 2018

\*Presentation Award United Japanese researchers Around the world 2016

\*1st prize CDMD Diseases Scientific Image Competition 2015

\*Travel grant Molecular Biology Society of Japan 2014

Presentation Award Japanese Society of Animal Science 2005

Presentation Award Japanese Society of Animal Science 2003

**PROFESSIONAL DEVELOPMENT:**

O'Brien Workshop on Applied Microscopy in Research Indiana University 2019

Write Winning Grant Proposals Indiana University 2018

Scientific Writing from the Readers Perspective, Indiana University 2016

Dr. George Gopen, PhD

Pluripotent Stem Cell Training Cincinnati Children’s Hospital Medical Center 2016

O'Brien Workshop on Applied Microscopy in Research Indiana University 2009

**MENTORING/TRAINING ACTIVITIES:**

***Post-Doctoral Fellows:***

|  |  |  |
| --- | --- | --- |
| *\**Emily Sims, M.D. | Pediatric Endocrine Fellow | 2010-2012 |
| *\**Yien Vickie Chiong, M.D. | Pediatric Endocrine Fellow | 2013-2014 |
| *\**Timothy Shoemaker, M.D. | Adult Endocrine Fellow | 2010-2012 |
| *\**Zunaira Chaudry, M.D. | Adult Endocrine Fellow  Supported by T32 NRSA Award. | 2013-2015 |
| *\**Robert Bone, Ph.D. | Postdoctoral Fellow,  Supported by T32 NRSA Award  Supported by JDRF Post-Doctoral Fellowship Award | 2015-2020 |
| *\**Xin Tong, Ph.D. | Postdoctoral Fellow | 2016-2017 |
| *\**Hitoshi Iida, Ph.D. | Postdoctoral Fellow | 2016-2019 |
| *\**Eleni Beli, Ph. D. | Postdoctoral Fellow  Supported by JDRF Advanced Postdoctoral Fellowship | 2017-2019 |

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| *\**Preethi Krishnan, Ph.D. | Postdoctoral Fellow | 2018-2020 |
| *\**Renato Branco, Ph.D. | Postdoctoral Fellow | 2022-2025 |
| *\**Prakash Raut, Ph.D. | Postdoctoral Fellow | 2022-2024 |

***Residents***

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| *\**Zunaira Chaudry, M.D. | Internal Medicine Resident | 2011 and 2012 |

***Graduate Students:***

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| *\**Justin Johnson | Pre-doctoral Medical Scientist Training Program (MSTP)  Student  Supported by NIH Diversity Supplement  PhD Defense - May 2014 | 2011-2014 |
| *\**Xin Tong | Graduate student, Department of Physiology  Ph.D. Student  Selected for the DeVault Fellowship 2014-2016  PhD Defense - May 2016 | 2012-2016 |
| *\**Wataru Yamamoto | Graduate student, Department of Physiology  Ph.D. Student  PhD Defense - August 2017 | 2013-2017 |
| *\**Cristian Guandique | Master’s Student in Physiology | 2016 |
| *\**Paul Sohn | MSTP Student | 2016-2021 |
| *\**Sukrati Kanojia | Master’s Student | 2017-2019 |

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| *\**Staci Weaver | Graduate student, Department of Physiology  Ph.D. Student | 2019-2023 |
| *\**Madeline Rae McLaghlin | MSTP Student | 2021-2025 |
| *\**David Sanchez Rodrigues | Ph.D Student | 2023-present |
| *\**Cameron Rostoron | MSTP Student | 2024-present |
| *\**Eli Hagedorn | MSTP Student | 2024-present |

***Professional/Medical Students:***

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| --- | --- | --- |
| Ashley Budd | Student Research Program in Academic Medicine (SRPinAM) | 2011 |

***Undergraduate Students:***

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| --- | --- | --- |
| Liann Gann | Summer Undergraduate student supported by the Wells Center Summer Internship Program | 2009-2010 |
| Julie Diamond | Summer undergraduate student supported by the Wells Center Summer Internship Program | 2010-2011 |
| *\**Ally Lawrence | Summer undergraduate student supported by the Wells Center Summer Internship Program | 2013 |
| *\**Gary Considine | Undergraduate Research Experience | 2013-2017 |

***High School Students:***

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| *\**Priyadaarshini Mirmira | High School Research Experience  2015 Siemens Science Competition Semi-Finalist | 2012-2014 |

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| **TEACHING:** | |  | | |  | |  | |  |  |  |
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| Course # | | Short Title Role | | |  | | Term | |  | Enrollment | Course |
|  | |  | | |  | |  | |  |  | Evaluation  5scale |
| **IUPUI** | |  | | |  | |  | |  |  |  |

*\**E351 Japan healthcare profession Invited Lecturer Summer 2019 7 5.0

　　　　　　Topic: Introduction to the Healthcare and Medical System in Japan

*\**E351 Japan healthcare profession Invited Lecturer Summer 2018 11 5.0

Topic: The Future of Japan’s Health System

*\**E351 Japan healthcare profession Invited Lecturer Summer 2016 8 4.9

Topic: High Quality Healthcare System with Lower Cost

*\**E351 Japan healthcare profession Invited Lecturer Summer 2015 8 4.9

Topic: Comparison of Japan and US Healthcare System

**INTERNATIONAL**

**Tohoku University (Japan)**

*\**Animal Science (Satellite class for graduate students) Seminar 2012

**OTHER:**

**EUREKA SCIENCE SCHOOL (INDIANA)**

\*STEM Education for K-5 (Science experiment) Volunteer Teacher 2017-2020

**Sendai Animal Nursing School (JAPAN)**

Animal Nutrition I (Basic Animal Nutrition) Lecturer 2002-2006

Animal Nutrition II (Applied Animal Nutrition) Lecturer 2002-2006

**RESEARCH/CREATIVE ACTIVITY:**

**AWARD GRANTS/FELLOWSHIPS:** *(annual direct costs)*

**Current Funding**

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| \*Decoding the Gut-Pancreas Axis: Innovative Dietary Fiber Prebiotic Therapy for Type 1 Diabetes Onset Prevention  Role: Principal Investigator | Heartland Children’s Nutrition Collaborative Fund | 01/01/2025-12/31/2025 | $99,788 |
| \*Regulation of Calcium Homeostasis in the Pancreatic β Cell  Role: Co-Investigator  PI: Evans-Molina | VA Merit 2-I01BX001733-09 | 10/01/2021-09/30/2025 | $165,000 |
| \*Control of beta cell function and survival by RYR2-mediated calcium signals  Role: Co-Investigator  PI: Evans-Molina | 1R01DK127236-01A1 | 9/20/2021-08/31/2026 | $381,000 |
| \*Visualization of Calcium  Dyshomeostasis in the pathogenesis of diabetes  Role: Principal Investigator | CTSI PILOT Funding | 08/01/2021-  06/31/2024 | $9,270 |

**Pending Funding**

Organelle calcium gradients at the nexus of type 1 diabetes pathogenesisName of PD/PI: Evans-Molina, Carmella (PI); Kono, Tatsuyoshi (Co-I)   
\*Source of Support: NIH- NIDDK

Project/Proposal Start and End Date: (MM/YYYY) (if available): 04/2025-03/2029

\*Total Award Amount (including Indirect Costs): $3,213,965

Interferon Signaling in the T1D Islet Microenvironment  
Name of PD/PI: Evans-Molina, Carmella (PI); Kono, Tatsuyoshi (Co-I)

\*Source of Support: University of Chicago (PTE); NIH-NIDDK

Project/Proposal Start and End Date: (MM/YYYY) (if available): 04/2025-03/2029

\*Total Award Amount (including Indirect Costs): $443,800

Title: Highway to Health: Calcium-Mediated Regulation of Protein Trafficking in the Pancreatic Beta Cell

Name of PD/PI: Evans-Molina, Carmella (PI); Kono, Tatsuyoshi (Co-I)

\*Source of Support: NIH

Project/Proposal Start and End Date: (MM/YYYY) (if available): 12/2025-11/2030

\*Total Award Amount (including Indirect Costs): $443,800

Title: Improving beta cell stress adaptations by metabolic reprogramming for function preservation and immune tolerance

Name of PD/PI: Kono, Tatsuyoshi (Co-I)

\*Source of Support: Indiana Biosciences Research Institute (PTE)

Project/Proposal Start and End Date: (MM/YYYY) (if available): 12/2025-11/2030

\*Total Award Amount (including Indirect Costs): $307,269

Title: Sex-specific roles for IRBIT in pancreatic beta-cell function

Name of PD/PI: Kono, Tatsuyoshi (PI)

\*Source of Support: Purdue University (PTE)

Project/Proposal Start and End Date: (MM/YYYY) (if available): 07/2025-06/2030

\*Total Award Amount (including Indirect Costs): $348,175

**Completed Funding**

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| \*Mechanisms of Beta Cell Function in Health and Disease  Role: Co-Investigator  PI: Evans-Molina | NIH/NIDDK  1 R01 DK093954-06A1 | 09/30/16 -08/31/21 | $277,297 |
| \*Regulation of Calcium Homeostasis in the Pancreatic β Cell  Role: Co-Investigator  PI: Evans-Molina | VA Merit 2-I01BX001733 | 10/01/2017-09/30/2021 | $165,000 |

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| \*Impact of Cigarette Smoke Exposure on Pancreatic Beta Cell Function in Response to Diet-Induced Obesity”  Role: Principal Investigator | Showalter Young Investigator Award | 7/01/2018-9/30/2019 | $60,000 |
| \*Regulation of Calcium Homeostasis in the Pancreatic β Cell  Role: Co-Investigator  PI: Evans-Molina | VA Merit Award I01BX001733-04 | 04/01/2013-03/31/2017 | $127,000 |
| \*“β Cell Calcium Regulation in Diabetes”  Role: Co-Investigator  PI: Evans-Molina | Sigma Βeta Research Grant | 11/1/15 -10/31/16 | $19,000 |
| \*“Mechanisms of Beta Cell Function in Health and Disease”  Role: Key Personnel  PI: Evans-Molina | 1 R01 DK093954-01 | 09/01/11 -08/30/16 | $217,500 |
| \*“Transcriptional and Post-Translational Dysregulation of SERCA in Type 2 Diabetes”  Role: Key Personnel  PI: Evans-Molina | NIH 5R03DK089147-02  Small Grant Program for K08 Recipients | 07/01/10 -06/30/13 | $100,000 |
| “Stem cell based strategies to improve pancreatic islet transplantation”  P.I.: March K.L.  Role: Post-doctoral Research fellow | NIH T32 HL079995 | 2/01/09-1/31/12 | $321,697 |

**PRINT AND/OR ELECTRONIC PUBLICATIONS - RESEARCH/CREATIVE ACTIVITY:**

*Trainees are underlined;*  *†Indicates publication as a mentor;*

**Peer Reviewed Manuscripts:**

1. Lee CC, **Kono T**, Syed F, Weaver SA, Sohn P, Wu W, Chang G, Liu J, Slak Rupnik M, Evans-Molina C. (2024). Sodium Butyrate Prevents Cytokine-Induced β-Cell Dysfunction Through Restoration of Stromal Interaction Molecule 1 Expression and Activation of Store-Operated Calcium Entry. **FASEB J.** 38(15):e23853. [doi: 10.1096/fj.202302501RR] PMID: 39120544
2. Williams KE, Zou Y, Qiu B, **Kono T**, Guo C, Garcia D, Chen H, Graves T, Lai Z, Evans-Molina C, Ma YY, Liangpunsakul S, Yong W, Liang T. (2023). Sex-Specific Impact of Fkbp5 on Hippocampal Response to Acute Alcohol Injection: Involvement in Alterations of Metabolism-Related Pathways. **Cells** 13(1):89. [doi: 10.3390/cells13010089]
3. Lee CC, **Kono T**, Syed F, Weaver SA, Sohn P, Wu W, Chang G, Liu J, Rupnik MS, Evans-Molina C. (2023). Histone Deacetylase Inhibitors Prevent Cytokine-Induced β Cell Dysfunction Through Restoration of Stromal Interaction Molecule 1 Expression and Activation of Store-Operated Calcium Entry. bioRxiv. [doi: 10.1101/2023.12.06.570443]
4. *\*†*Iida H, **Kono T**, Lee CC, Krishnan P, Arvin MC, Weaver SA, Jarvela TS, Branco RCS, McLaughlin MR, Bone RN, Tong X, Arvan P, Lindberg I, Evans-Molina C. (2023). SERCA2 regulates proinsulin processing and processing enzyme maturation in pancreatic beta cells. **Diabetologia** 66(11):2042-2061. [doi: 10.1007/s00125-023-05979-4] **First co-author of the paper. Had a role as a mentor of the first authors.**
5. *\*†*Sohn P, McLaughlin MR, Krishnan P, Wu W, Slak Rupnik M, Takasu A, Senda T, Lee CC, **Kono T**, Evans-Molina C. (2023). Stromal Interaction Molecule 1 Maintains β-Cell Identity and Function in Female Mice Through Preservation of G-Protein-Coupled Estrogen Receptor 1 Signaling. **Diabetes** 72(10):1433-1445. [doi: 10.2337/db22-0988] **Corresponding author of the paper. Had a role as a mentor of the first authors.**
6. Davidson RK, Kanojia S, Wu W, **Kono T**, Xu J, Osmulski M, Bone RN, Casey N, Evans-Molina C, Sims EK, Spaeth JM. (2023). The Chd4 Helicase Regulates Chromatin Accessibility and Gene Expression Critical for β-Cell Function In Vivo. **Diabetes** 72(6):746-757. [doi: 10.2337/db22-0939]
7. Yan S, Conley JM, Reilly AM, Stull ND, Abhyankar SD, Ericsson AC, **Kono T**, Molosh AI, Kubal CA, Evans-Molina C, and Ren H. (2022). Intestinal Gpr17 deficiency improves glucose metabolism by promoting GLP-1 secretion. **Cell Reports** *38*, 110179. 10.1016/j.celrep.2021.110179.
8. *\*†*Tong X, Chaudhry Z, Lee CC, Bone RN, Kanojia S, Maddatu J, Sohn P, Weaver SA, Robertson MA, Petrache I, Evans-Molina C, **Kono T**. Cigarette smoke exposure impairs β-cell function through activation of oxidative stress and ceramide accumulation. **Mol Metab**. 2020 Mar 13;37:100975. doi:10.1016/j.molmet.2020.100975. PubMed PMID: 32283079; PubMed Central PMCID: PMC7170997

**Last and Corresponding author of the paper. Had a role as a mentor of the first authors.**

1. *\*†*Yamamoto WR, Bone RN, Sohn P, Syed F, Reissaus CA, Mosley AL, Wijeratne AB, True JD, Tong X,

**Kono T**, Evans-Molina C. Endoplasmic reticulum stress alters ryanodine receptor function in the murine pancreatic β cell.***J Biol Chem***. 2019 Jan 4;294(1):168-181. PMID: 30420428

**Contributed to initial designing, data collection, reviewing and finalizing the paper. Had a role as a mentor of the first author.**

1. **\*Kono T** , Tong X, Taleb S, Bone RN, Iida H, Lee CC, Sohn P, Gilon P, Roe MW, Evans-Molina C. Impaired Store-Operated Calcium Entry and STIM1 Loss Lead to Reduced Insulin Secretion and Increased Endoplasmic Reticulum Stress in the Diabetic β cell. Diabetes. ***Diabetes.*** 2018 Nov;67(11):2293-2304 PMID: 30131394. Highlighted in pancreatic cell news (Vol.9.34, Aug 28) <https://www.pancreaticcellnews.com/issue/volume-9-34-aug-28/>

**First author and Corresponding author, Paper selected to cover of the issue. Highlighted in pancreatic cell news. Received the Outstanding paper award from UJA.**

1. \*Hatanaka M, Anderson-Baucum E, Lakhter A, **Kono T**, Maier B, Tersey SA, Tanizawa Y, Evans-Molina C, Mirmira RG, Sims EK. Chronic high fat feeding restricts islet mRNA translation initiation independently of ER stress via DNA damage and p53 activation. ***Sci Rep****. 2017*. 7(1):3758. DOI: 10.1038/s41598-017-03869-5. PMID: 28630491

**Contributed to initial designing, data collection, reviewing and finalizing the paper.**

1. \*Sims EK, Lakhter AJ, Anderson-Baucum E, **Kono T**, Tong X, Evans-Molina C. MicroRNA 21 targets BCL2 mRNA to increase apoptosis in rat and human beta cells. ***Diabetologia.*** *2017*. 60(6):1057-1065. PMID: 28280903

**Contributed to initial designing, data collection, reviewing and finalizing the paper.**

1. *\*†*Tong X, **Kono T**, Anderson-Baucum EK, Yamamoto W, Gilon P, Lebeche D, Day RN, Shull GE, Evans-Molina C. SERCA2 Deficiency Impairs Pancreatic β-Cell Function in Response to Diet-Induced Obesity. ***Diabetes.*** *2016.* 65(10):3039-3052. PMID: 27489309

**Contributed to initial designing, data collection, reviewing and finalizing the paper. Had a role as a mentor of the first author.**

1. \*Sims EK, Lakhter A, Restrepo I, Tong X, **Kono T,** Anderson-Baucum E, and Evans-Molina C. β CELL DERIVED MIR-21 INCREASES APOPTOSIS VIA TRANSLATIONAL INHIBITION OF THE ANTIAPOPTOTIC PROTEIN BCL2 AND COULD SERVE AS A BIOMARKER OF TYPE 1 DIABETES MELLITUS. ***Journal of Investigative Medicine.*** *2016.* DOI:10.1136/jim-2016-000120.35

**Contributed to initial designing, data collection, reviewing and finalizing the paper.**

1. \*Xiong X, Wang G, Tao R, Wu P, **Kono T**, Li K, Ding WX, Tong X, Tersey SA, Harris RA, Mirmira RG, Evans-Molina C, Dong XC. Sirtuin 6 regulates glucose-stimulated insulin secretion in mouse pancreatic beta cells. ***Diabetologia*.** 2016 Jan;59(1):151-160. PMID: 26471901

**Contributed to the key human tissue data analysis.**

1. *\*†*Tong X, **Kono T**, and Evans-Molina C. Nitric oxide stress and activation of AMP-activated protein kinase impair β**-**cell sarcoendoplasmic reticulum calcium ATPase 2b activity and protein stability. ***Cell Death and Disease*.** 2015. 6(6):e1790. Highlighted in pancreatic cell news (6.24.15)　 <https://www.pancreaticcellnews.com/issue/volume-6-24-jun-23/>

**Contributed to initial designing, data collection, reviewing and finalizing the paper. Had a role as a mentor of the first author. The paper highlighted in Pancreatic cell news.**

1. \*Blue E, Ballman K, Boyle F, Oh E, **Kono T**, Quinney SK, Thurmond DC, Evans-Molina C and Haneline LS. Fetal hyperglycemia and a high fat diet contribute to aberrant glucose tolerance and hematopoiesis in adulthood」 ***Pediatric Research***. 2015 77(2): 316-325 PMID 25412163.

**Contributed to the key mouse experiments and data analysis.**

1. *\*†*Johnson JS, **Kono T**, Tong X, Yamamoto W, Zarain-Herzberg A, Merrins MJ, Satin LS, Gilon P, and Evans-Molina C.Pancreatic and Duodenal Homeobox Protein 1 (Pdx-1) Maintains Endoplasmic Reticulum Calcium Levels Through Transcriptional Regulation of Sarco-endoplasmic Reticulum Calcium ATPase 2b (SERCA2b) in the Islet β Cell. ***Journal of Biological Chemistry*.** 2014. 289(47):32798-32810

**Contributed to initial designing, data collection, manuscript writing, reviewing and finalizing the paper as a mentor of the first author. Had a role as a first co-author.**

1. **\*Kono TM**, Sims EK, Moss DR, Yamamoto W, Ahn G, Diamond J, Tong X, Day KH, Territo PR, Hanenberg H, Traktuev DO, March KL, Evans-Molina C. Human adipose derived stromal/stem cells (hASCs) protect against STZ-induced hyperglycemia; analysis of hASC-derived paracrine effectors. ***Stem Cells.*** 2014 32(7):1831-1842. PubMed PMID: 24519994.

**Manuscript featured as journal club article. Contributed to initial designing, data collection, manuscript writing, reviewing and finalizing the paper as a mentor of the first author. Had a role as a first author.**

1. \**†*Sims EK, Hatanaka M, Morris DL, Tersey SA, **Kono T**, Chaudry ZZ, Day KH, Moss DR, Stull ND, Mirmira RG, Evans-Molina C. Divergent compensatory responses to high-fat diet between C57BL6/J and C57BLKS/J inbred mouse strains. ***Am J Physiol Endocrinol Metab****.* 2013. 305(12):E1495-1511 PMID: 24169046. **Contributed to initial designing, and data collection. Had a role as a mentor of the first author.**
2. \**†*Chaudhry ZZ, Morris DL, Moss DR, Sims EK, Chiong Y, **Kono T**, Evans-Molina C. Streptozotocin is equally diabetogenic whether administered to fed or fasted mice. *Lab Anim.* 2013. 47(4):257-265. PMID: 23760565 **Manuscript selected for editorial comment. Contributed to initial designing, data collection, reviewing and finalizing the paper. Had a role as a mentor of the first author.**
3. **\*Kono T**, Ahn G, Moss D, Gann L, Zarain-Herzberg A, Nishiki Y, Fueger P, Ogihara T, Evans-Molina C. PPAR-γ activation restores pancreatic islet SERCA2 levels and prevents β-cell dysfunction under conditions of hyperglycemic and cytokine stress. *Mol Endocrinol.* 26(2):257-271.(2012) PMID: 22240811

**Manuscript selected for cover and editorial comment. Had a role as a first author.**

1. Sato K., Abe H., **Kono T.**, Yamazaki M., Nakashima K., Kamada T, Akiba Y. Changes in peroxisome proliferator-activated receptor gamma gene expression of chicken abdominal adipose tissue with different age, sex and genotype. *Anim Sci J* 80 (3), p 322-327. 2009.
2. Nedachi T, Hatakeyama H, **Kono T**, Sato M, and Kanzaki M. Characterization of contraction-inducible CXC chemokines and their roles in C2C12 myocytes. *Am J Physiol Endocrinol Metab* 297:866-878, 2009.
3. Evans-Molina C, Robbins R, **Kono T**, Nunemaker CS, Tersey SA, Vestermark GL, Deering TG, Garmey JC, Maier B, Keller SR and Mirmira RG. PPAR-γ agonists partially restore islet function in diabetic mice through enhancement of histone 3 lys4 methylation at β cell specific genes-under revision: *Molecular and Cellular Biology.* 29(8):2053-2067. 2009
4. Nishiki Y, **Kono T**, Fukao K, Sato K, Takahashi K, Toyomizu M, Akiba Y. Nitric oxide (NO) is involved in modulation of non-insulin mediated glucose transport in chicken skeletal muscles. *Comparative Biochemistry and Physiology* , 149(1), 101-107. 2008
5. **Kono T**, Seki Y, Tokushima Y, Nishiki Y, Sato K, Akiba Y. “Characterization of glucose transporter (GLUT) and hexokinase (HK) gene expression in chicken skeletal muscle” *Proceedings of Japanese Society for Animal Nutrition and Metabolism*, 51(1), 1-13. 2007
6. Seki Y, Sato K, **Kono T** and Akiba Y. Two types of phosphofructokinase-1 differentially regulate the glycolytic pathway in insulin-stimulated chicken skeletal muscle. *Comp Biochem Physiol B Biochem Mol Biol.* 143(3):344-350. 2006.
7. **Kono T,** Nishida M, Nishiki Y, Seki Y, Sato K and Akiba Y. Characterisation of glucose transporter (GLUT) gene expression in broiler chickens. *Br Poult Sci.* 46: 510-515. 2005.
8. Seki Y, Sato K, **Kono T** and Akiba Y. Cloning and gene expression of hexokinase I and II in the chicken skeletal muscle. *Anim Sci J.* 76:491-497. 2005.

***Review Articles, Printed Commentaries, Letters to the Editor, and Case Reports:***

1. \*[Gupta D](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Gupta%20D%22%5BAuthor%5D)\*, [**Kono T**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kono%20T%22%5BAuthor%5D)**\***, [Evans-Molina C](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Evans-Molina%20C%22%5BAuthor%5D). The role of peroxisome proliferator-activated receptor γ in pancreatic β cell function and survival: therapeutic implications for the treatment of type 2 diabetes mellitus. [*Diabetes Obes Metab*](javascript:AL_get(this,%20'jour',%20'Diabetes%20Obes%20Metab.');) 12(12):1036-1047. 2010. **Had a role as a First Co-author**
2. \**†*Shoemaker T, **Kono T**, Mariash C, and Evans-Molina C. Thyroid Hormone Analogues for the Treatment of Metabolic Disorders: New Potential for Unmet Clinical Needs. *Endocrine Practice*. 2012. 11:1-36. **Had a role as a mentor of the first author.**

**Manuscript in preparation**

1. *†*Bone RN, **Kono T**, and Evans-Molina C. Loss of SPCA1 Impairs β Cell Calcium Dynamics. In Preparation – *Diabetologia*
2. Sanchez-Rodriguez, D., **Kono, T.,** Branco, R.C.S., Dahl, R., Evans-Molina, C. Small Molecule Allosteric Activators of SERCA Improve β Cell Viability and Function. Manuscript in preparation.

**PRINT AND/OR ELECTRONIC PUBLICATIONS – EDUCATION and SERVICE ACTIVITY:**

1. **Kono T.**   
   **Industry-Academia-Government Collaboration in US Midwest (Series 5).** Journal of Industry-Academia-Government Collaboration 18(1), 24-27, 2022, Japan Science and Technology Agency, ISSN:2186-2621, DOI: [10.1241/sangakukanjournal.18.1\_24](https://ci.nii.ac.jp/lognavi?name=crossref&id=info:doi/10.1241/sangakukanjournal.17.5_13)  (Article in Japanese)
2. **Kono T.**   
   **Industry-Academia-Government Collaboration in Chicago (Series 4).** Journal of Industry-Academia-Government Collaboration 17(11), 30-32, 2021, Japan Science and Technology Agency, ISSN:2186-2621, DOI: [10.1241/sangakukanjournal.17.11\_30](https://ci.nii.ac.jp/lognavi?name=crossref&id=info:doi/10.1241/sangakukanjournal.17.11_30) (Article in Japanese)
3. **Kono T.**   
   **Industry-Academia-Government Collaboration in Indiana (Series 3).** Journal of Industry-Academia-Government Collaboration 17(9), 37-40, 2021, Japan Science and Technology Agency, ISSN:2186-2621, DOI:[10.1241/sangakukanjournal.17.9\_37](https://ci.nii.ac.jp/lognavi?name=crossref&id=info:doi/10.1241/sangakukanjournal.17.9_37) (Article in Japanese)
4. **Kono T.**   
   **Industry-Academia-Government Collaboration in Indiana (Series 2).** Journal of Industry-Academia-Government Collaboration 17(7), 31-34, 2021, Japan Science and Technology Agency, ISSN:2186-2621, DOI: [10.1241/sangakukanjournal.17.7\_31](https://ci.nii.ac.jp/lognavi?name=crossref&id=info:doi/10.1241/sangakukanjournal.17.7_31) (Article in Japanese)
5. **Kono T.**   
   **Industry-Academia-Government Collaboration in Indiana (Series 1).** Journal of Industry-Academia-Government Collaboration 17(5), 13-17, 2021, Japan Science and Technology Agency, ISSN:2186-2621, DOI: [10.1241/sangakukanjournal.17.5\_13](https://ci.nii.ac.jp/lognavi?name=crossref&id=info:doi/10.1241/sangakukanjournal.17.5_13) (Article in Japanese)

**COMPETITIVE / REFEREED ORAL PRESENTATIONS - RESEARCH/CREATIVE ACTIVITY:**

*Trainees are underlined; † Indicates role as mentor;*

*LOCAL*

1. McLaughlin, M., Sohn, P., Krishnan, P., Lee, C.C., **Kono, T**., Evans-Molina, C. (2024). STIM1 Interacts with G Protein-Coupled Estrogen Receptor Signaling to Maintain β Cell Identity in Female Mice. 10th Annual Center for Diabetes and Metabolic Disease Symposium, Indiana University School of Medicine. **(Oral)**
2. McLaughlin, M., Sohn, P., Krishnan, P., Lee, C.C., **Kono, T**., Evans-Molina, C. (2023). STIM1 Interacts with G Protein-Coupled Estrogen Receptor Signaling to Maintain β Cell Identity in Female Mice. 9th Annual Center for Diabetes and Metabolic Disease Symposium, Indiana University School of Medicine. **(Oral)**
3. *\*†Bone RN*, Taleb S, Tong X, Yamamoto W, **Kono T**, Evans-Molina C.  Loss of the Secretory Pathway Ca2+ ATPase (SPCA1) increases β-cell susceptibility to stress and decreases insulin secretion.   ***IUSM 2nd Annual Postdoctoral Research Day*.  Indianapolis, IN, 2016 (Oral)**
4. *\*†*Bone RN, Taleb S, Tong X, Yamamoto W, **Kono T**, Evans-Molina C.  Loss of the Secretory Pathway Ca2+ ATPase (SPCA1) increases β-cell susceptibility to stress and decreases insulin secretion.   *IU Center for Diabetes and Metabolic Diseases 2nd Annual Symposium*.  Indianapolis, IN.  August 5, **2016. (Oral)**
5. *\*†Tong X,* **Kono T**, and Evans-Molina C. β Cell SERCA2b Protein Stability is Regulated Via Nitric Oxide- and AMPK-Dependent Pathways Under Inflammatory Diabetic Conditions. Indiana Physiology Society Annual Meeting, 2014. Evansville, IN. **(Oral)**

REGIONAL

1. Weaver SA, Kono T, Syed F, Bone R, and Evans-Molina C. Loss of SERCA2 and reduced endoplasmic reticulum calcium leads to β cell senescence and accelerated type 1 diabetes development. **Midwest Islet Club VirtualMeeting. 2021**
2. *\*†* Bone RN, Solaema T, Tong X, **Kono T**, and Evans-Molina C. Reduced β cell Sarco/Endoplasmic Reticulum Ca 2+ ATPase Results in Increased Diabetes Incidence in the NOD Mouse. **12th Annual Midwest Islet Club Meeting.** 2019. Ann Arbor, MI. **(Oral)**
3. *\*†Bone RN*, Taleb S, Tong X, **Kono T**, and  Evans-Molina C. Loss of the Sarco/Endoplasmic Reticulum Ca2+ ATPase Exacerbates Development of Type 1 Diabetes**. Islet Society Workshop.** 2018. Nashville, TN **(Oral)**
4. **\*Kono T,** Tong X, Taleb S, Yamamoto W, Evans-Molina C.A Role for Altered STIM1 Function and β Cell ER Ca2+ Dyshomeostasis in Diabetes Pathophysiology. ***Midwest Islet Club, Indianapolis*, USA. 2016. (Oral)**
5. *\*†*Tong X, **Kono T,** and Evans-Molina C.SERCA2b Plays A Critical Role in The Maintenance of Pancreatic Beta Cell Function and Mass in Response to Diet Induced Obesity. ***Midwest Islet Club, Chicago*, USA. 2015. (Oral)**
6. *\*†*Johnson JS, **Kono T**, Tong X, Yamamoto W, Merrins MJ, Satin LS, Fueger P, and Evans-Molina C. Pancreatic and Duodenal Homeobox Protein 1 Enhances Transcription of Sarco-endoplasmic Reticulum Calcium ATPase 2 in the Beta Cell. ***Midwest Islet Club, Birmingham*, USA. 2014. (Oral)**
7. **\*Kono T**, Budd A, Moss D, Day K, Fueger P and Evans-Molina C.Restoration of SERCA2b Expression Improves Pancreatic β Cell Function and Survival Under Conditions of Cytokine and High Glucose Induced Stress. ***Midwest Islet Club, Pittsburgh*, USA. 2012. (Oral)**
8. **Kono T**, Moss D, Vestermark G, Traktuev D, March K, and Evans-Molina C. Adipose‐Derived Stem Cells Improve Beta Cell Function and Survival in a Mouse Model of Streptozotocin‐Induced Diabetes ***Midwest Islet Club, Madison*, USA. 2011. (Oral)**
9. **Kono T**, Gann L, Moss D, Zarain-Herzberg A, Ogihara T, and Evans-Molina C. PPAR-γ Activation Restores Islet SERCA mRNA and Protein Levels and Prevents β-Cell Dysfunction in Type 2 Diabetes. ***Midwest Islet Club.* Indianapolis, USA. 2010. (Oral)**

*INTERNATIONAL*

1. *McLaughlin M, Sohn P, Krishnan P, Lee CC,* ***Kono T****, Evans-Molina C. STIM1 Interacts with G Protein–Coupled Estrogen Receptor Signaling to Maintain ß-Cell Identity in Female Mice. Diabetes. June 20, 2023; 72(Suppl\_1): 232–OR.* [*https://doi.org/10.2337/db23-232-OR*](https://doi.org/10.2337/db23-232-OR)**(Oral)**

**Received Lois Jovanovic Transformative Woman in Diabetes Award which presented by the Women’s Interprofessional Network of the American Diabetes Association (WIN ADA)**

1. *\**Kono T, Iida H,  Lee CC, Krishnan P, Arvan P, Lindberg I and Evans-Molina C.  Pancreatic β cell SERCA2 Deficiency Impacts ER-Golgi Vesicle Trafficking and ceramide Metabolism. **American Diabetes Association 81th Scientific Sessions.  Virtual.  June 25-29, 2021. *Held Online due to COVID-19*. (Oral)**
2. Lee CC, Kono T, Weaver SA, Sohn P and Evans-Molina C. Histone Deacetylase Inhibition Improves Store-Operated Calcium Entry and Glucose-Stimulated Insulin Secretion in Cytokine-Stressed Pancreatic β Cells. **American Diabetes Association 81th Scientific Sessions.  Virtual.  June 25-29, 2021. *Held Online due to COVID-19*. (Poster**)
3. Sohn P, Krishnan P, Lee CC, Kono T, Evans-Molina C. STIM1 Deletion Leads to Loss of β cell Identity in High Fat Diet-Fed Female Mice. **American Diabetes Association 81th Scientific Sessions.  Virtual.  June 25-29, 2021. *Held Online due to COVID-19*. (Oral)**
4. Weaver SA, Kono T, Syed F, Bone R, and Evans-Molina C. Role of endoplasmic reticulum (ER) calcium in β cell senescence and type 1 diabetes pathophysiology. **American Diabetes Association 81th Scientific Sessions.  Virtual.  June 25-29, 2021. *Held Online due to COVID-19*. (Oral)**
5. *\**Kono **T**, Iida H,  Lee CC, Tong X, Syed F, Arvan P, Lindberg I and Evans-Molina C.  Pancreatic β cell SERCA2 deficiency leads to impaired proinsulin processing and reduced ER to Golgi protein trafficking. **American Diabetes Association 80th Scientific Sessions.**  Chicago, IL.  June 12-16, 2020. *Held Online due to COVID-19*. **(Oral)**
6. **\*KonoT**, TongX, TalebS, Bone RN, Iida H, Sohn P, Roe RW, Evans-Molina C. Loss of STIM1 and Impaired β cell Store-Operated Calcium Entry (SOCE) Leads to Decreased ER Ca2+ Storage and Insulin Secretion and Increased β Cell ER Stress. **ENDO conference 2018**, Chicago, IL. March 17-21, **2018. (Oral)**
7. \**†*Bone RN, Taleb S, Tong X, **Kono T**, Evans-Molina C.  SPCA1 Loss Leads to Impaired Insulin Secretion and Autophagy in the β-cell.  ***American Diabetes Association 77th Scientific Sessions*.  San Diego, CA.  June 9-13, 2017.  *Diabetes*.  2017 S1; 267-OR. (Oral)**
8. \*Sims EK, Restrepo I, Tong X, **Kono T,** and Evans-Molina C. β-cell Derived miR-21 Apoptosis and Could Serve as a Biomarker of Type 1 Diabetes Mellitus. ***American Diabetes Association, Boston*, USA. 2015. (Oral)**
9. *\*†Tong X,* **Kono T**, and Evans-Molina C. β Cell SERCA2b Protein Stability is Regulated Via Nitric Oxide- and AMPK-Dependent Pathways Under Inflammatory Diabetic Conditions. 74th Annual American Diabetes Association Scientific Sessions. 2012. Philadelphia, PA.
10. **\*Kono T**, Budd A, Moss D, Fueger P and Evans-Molina C.RESCUE OF SERCA2B EXPRESSION IMPROVES PANCREATIC β CELL PROLIFERATION AND SURVIVAL IN TYPE 2 DIABETES MELLITUS. ***Keystone meeting (Islet biology).* Monterey, USA, 2012 (Oral and Poster).**
11. **Kono T**, Moss D, Vestermark G, Traktuev D, March K, and Evans-Molina. *Stem Cell Based Strategies To Enhance Pancreatic Islet Survival in Type 1 Diabetes Mellitus.* ***American Diabetes Association, San Diego*, USA. 2011. (Oral)**
12. **Kono T**, Ahn G, Gann L, Moss D, Zarain-Herzberg A, Ogihara T, and Evans-Molina C.*Regulation of Islet β Cell SERCA2 Expression in Type 2 Diabetes Mellitus.* ***American Diabetes Association, San Diego*, USA. 2011. (Oral)**
13. **Kono T**, Moss D, Vestermark G, Traktuev D, March K, and Evans-Molina C. Stem Cell Based Strategies to Enhance Pancreatic Islet Survival in Type 1 Diabetes. International Federation of Adipose Therapeutics and Science, **Dallas, USA. 2010. (Oral)**

**COMPETITIVE / REFEREED / POSTER PRESENTATIONS - RESEARCH/CREATIVE ACTIVITY:**

*Trainees are underlined; † Indicates role as mentor;*

*LOCAL*

1. McLaughlin, M., Sohn, P., Krishnan, P., Lee, C.C., **Kono, T**., Evans-Molina, C. (2024). STIM1 Interacts with G Protein-Coupled Estrogen Receptor Signaling to Maintain β Cell Identity in Female Mice. Wells Center Annual Retreat, Indiana University School of Medicine. **(Poster)**
2. Sanchez-Rodriguez, D., Kono, T., Branco, R.C.S., Dahl, R., Evans-Molina, C., 2024. Small Molecule Allosteric Activators of SERCA Improve β Cell Viability and Function. Poster Presentation at the 10th Annual Center for Diabetes and Metabolic Disease Symposium, Indiana University School of Medicine. **(Poster)**
3. Sanchez-Rodriguez, D., Kono, T., Branco, R.C.S., Dahl, R., Evans-Molina, C., 2024. Small Molecule Allosteric Activators of SERCA Improve β Cell Viability and Function. Poster Presentation at the Wells Center Annual Retreat, Indiana University School of Medicine. **(Poster)**
4. Hartley M, Pearson M, Syed F, Bui HH, Kono T, Roth DK, and Evans-Molina C. SERCA2 Regulates ER Lipid Composition and Proinsulin Processing. **8th Annual CDMD Symposium. Indianapolis, IN, August 5th, 2022 (Poster)**
5. Davidson RK, Kono T, Xu J, Casey N, Kanojia S, Osmulski M, Sims EK, Evans-Molina C, Spaeth JM, The Chd4 Helicase Modulates β-cell Function In Vivo **8th Annual CDMD Symposium. Indianapolis, IN, August 5th, 2022 (Oral) Recognized by Outstanding presentation Award**
6. Lee CC, Kono T, Weaver S, Sohn P and Evans-Molina C. Histone Deacetylase Inhibitors Prevent Cytokine-Induced β Cell Dysfunction Through Activation of Store-Operated Calcium Entry and Restoration of STIM1 Expression. **8th Annual CDMD Symposium. Indianapolis, IN, August 5th, 2022 (Poster)**
7. McLaughlin MR, Sohn P, Krishnan P, Lee CC, Kono T and Evans-Molina C. STIM1 Interacts with G Protein-Coupled Estrogen Receptor Signaling to Maintain β Cell Identity in Female Mice. **8th Annual CDMD Symposium. Indianapolis, IN, August 5th, 2022**
8. *†\**Bone RN, Reissaus CA, **Kono T**, Evans-Molina C.  Sarco/Endoplasmic Reticulum ATPase (SERCA2) Deficiency in the Non-Obese Diabetic (NOD) Mouse Accelerates Type 1 Diabetes (T1D) Development.  American Diabetes Association 80th Scientific Sessions.  Chicago, IL.  June 12-16, 2020.  Diabetes. 2020 S1; 2112-P.  *Held Online due to COVID-19*. **(Poster)**
9. *†\**Bone RN, Taleb S, Tong X, **Kono T**, Evans-Molina C.  Elevated Type 1 Diabetes Incidence Follows the Loss of the Sarco/Endoplasmic Reticulum Ca2+ ATPase in the β cell (Oral Abstract).  16th Annual Indiana University School of Medicine Pediatric Scholar’s Day.  2019, Indianapolis, IN. **(Poster)**
10. **\*Kono T**, Tong X, Chaudry Z, Lee CC, Sohn P, Bone RN, Kanojia S, Maddatu J, Robertson M, Petrache I, Evans-Molina C. Passive Cigarette Smoke Exposure Cause Ceramide Accumulation and Impairs β-Cell Function in Response to Diet-Induced Obesity. **IU Center for Diabetes and Metabolic Diseases 5th Annual Symposium.** 2019 Indianapolis, IN. **(Poster)**
11. *\**Lee CC, **Kono T**, Weaver S, Sohn P and Evans-Molina C. Histone Deacetylase Inhibitors Improve Store-Operated Calcium Entry and Glucose-Stimulated Insulin Secretion in Cytokine-Stressed Pancreatic β Cells (Poster Abstract). IU Center for Diabetes and Metabolic Diseases 5th Annual Symposium. 2019. Indianapolis, IN. **(Poster)**
12. *†\**Krishnan P, Syed F, Evans-Molina C. Understanding the regulatory role of piwi-interacting RNAs in type 1 diabetes. IU Center for Diabetes and Metabolic Diseases 5th Annual Symposium. 2019, Indianapolis, IN. **(Poster)**
13. *†\**Bone RN, Taleb S, Tong X, Kono T, Gerling I, Evans-Molina C.  Increased Type 1 Diabetes Incidence Follows the Loss of the Sarco/Endoplasmic Reticulum Ca2+ ATPase in the β cell.  IU Center for Diabetes and Metabolic Diseases 5th Annual Symposium.  2019, Indianapolis, IN.  **(Poster)**
14. **\*Kono T**, Tong X, Chaudry Z, Lee CC, Sohn P, Bone RN, Kanojia S, Maddatu J, Robertson M, Petrache I, Evans-Molina C. Passive Cigarette Smoke Exposure Cause Ceramide Accumulation and Impairs β-Cell Function in Response to Diet-Induced Obesity. ***Richard L. Roudebush Veterans Affairs Medical Center Research Symposium*.** 2019 Indianapolis, IN. **(Poster)**
15. **\*Kono T**, Tong X, Chaudry Z, Lee CC, Sohn P, Bone RN, Kanojia S, Maddatu J, Robertson M, Petrache I, Evans-Molina C. Passive Cigarette Smoke Exposure Cause Ceramide Accumulation and Impairs β-Cell Function in Response to Diet-Induced Obesity. **Herman B Wells Center for Pediatric Research Retreat.** 2019. Bloomington, IN**. (Poster)**
16. *†***\***Kanojia S, Syed F, Krishnan P, **Kono T**, Evans-Molina C. Role for miR-146a-5p-Mediated Regulation of Stromal Interaction Molecule 1 and Store-Operated Ca2+ Entry in the pancreatic β cell (oral and poster presentation). Herman B Wells Center for Pediatric Research Retreat. 2019. Bloomington, IN.
17. *\**Lee CC, **Kono T,** Weaver S, Sohn P and Evans-Molina C. Histone Deacetylase Inhibitors Improve Store-Operated Calcium Entry and Glucose-Stimulated Insulin Secretion in Cytokine-Stressed Pancreatic β Cells (Poster Abstract). Herman B Wells Center for Pediatric Research Retreat. 2019. Bloomington, IN
18. **\*Kono T**, Tong X, Chaudry Z, Maddatu J, Robertson M, Petrache I, Evans-Molina C. Passive Cigarette Smoke Exposure Impairs β-Cell Mass Expansion in Response to Diet-Induced Obesity. ***Richard L. Roudebush Veterans Affairs Medical Center Research Symposium*.  Indianapolis, IN.  (Poster)**
19. *†*\*Kajinojia S, Jengelley D, **Kono T**, and Evans-Molina C. Pro-Inflammatory Stress Leads to Down-Regulation of Stromal Interaction Molecule 1 and Altered Store-Operated Ca2+ Entry in the Pancreatic β cell. Herman B Wells Center for Pediatric Research Retreat. 2018. Bloomington, IN. **(Poster)**
20. *†*\*Sohn P, **Kono T**, and Evans-Molina C. Pancreatic Islet Beta Cell Specific STIM1 Deletion Causes Altered Glucose Tolerance in Mice. Herman B Wells Center for Pediatric Research Retreat. 2018. Bloomington, IN. **(Poster)**
21. **\*Kono T**, Tong X, Chaudry Z, Maddatu J, Robertson M, Petrache I, and Evans-Molina C. Passive Cigarette Smoke Exposure Impairs β-Cell Mass Expansion in Response to Diet-Induced Obesity. Herman B Wells Center for Pediatric Research Retreat. 2018. Bloomington, IN. **(Poster)**
22. *†*\*Bone RN, **Kono T**, and  Evans-Molina C. Loss of intra-Golgi Calcium Leads to Impaired β-cell Calcium Oscillations and Decreased Autophagy. Richard L. Roudebush Veterans Affairs Medical Center 2018 Research Symposium. 2018. Indianapolis, IN. **(Poster)**
23. *†*\*Sohn P, **Kono T** and , Evans-Molina C. The Effect of STIM1 Deletion on the Global Proteome of INS-1 Pancreatic β Cells. Richard L. Roudebush Veterans Affairs Medical Center 2018 Research Symposium. 2018. Indianapolis, IN. **(Poster)**
24. *†*\*Iida H, **Kono T**, Tong RN, Sohn P, Beli E, Kanojia S, and  Evans-Molina C. Chronic ER Calcium Depletion by knocking out SERCA2b leads to trafficking disturbance from ER to Golgi causing impaired proinsulin processing. Richard L. Roudebush Veterans Affairs Medical Center 2018 Research Symposium. 2018. Indianapolis, IN **(Poster)**
25. **\*Kono T**, Tong X, Chaudry Z, Maddatu J, Robertson M, Petrache I, and  Evans-Molina C. Passive Cigarette Smoke Exposure Impairs β-Cell Mass Expansion in Response to Diet-Induced Obesity. Richard L. Roudebush Veterans Affairs Medical Center Research Symposium. 2018.  Indianapolis, IN. **(Poster)**
26. *†*\*Bone RN, Taleb S, Tong X, **Kono T**, and  Evans-Molina C. Sarco/Endoplasmic Reticulum Ca2+ ATPase Loss in Models of Type 1 Diabetes. IU Center for Diabetes and Metabolic Diseases 4th Annual Symposium. 2018. Indianapolis, IN. **(Poster)**
27. *†*\*Iida H, **Kono T**, Tong X, Bone RN, Sohn P, Beli E, Kanojia S, and  Evans-Molina C. Chronic ER Calcium Depletion by knocking out SERCA2b leads to trafficking disturbance from ER to Golgi causing impaired proinsulin processing. IU Center for Diabetes and Metabolic Diseases 4th Annual Symposium. 2018. Indianapolis, IN. **(Poster) (Received Poster Award)**
28. *†*\*Sohn P, **Kono T**, and  Evans-Molina C. Pancreatic Islet Beta Cell Specific STIM1 Deletion Leads to Altered Glucose Tolerance in Female Mice. IU Center for Diabetes and Metabolic Diseases 4th Annual Symposium. 2018. Indianapolis, IN. **(Poster)**
29. *†*\*Bone RN, Taleb S, Tong X, **Kono T**, and  Evans-Molina C. Sarco/Endoplasmic Reticulum Ca2+ ATPase Loss in Models of Type 1 Diabetes. IUSM 4th Annual Postdoc Research Day. 2018. Indianapolis, IN. **(Poster)**
30. *†*\*Kajinoa S, Jengelley D, **Kono T**, Evans-Molina C. Pro-Inflammatory Stress Leads to Down-Regulation of Stromal Interaction Molecule 1 and Altered Store-Operated Ca2+ Entry in the Pancreatic β cell. **Wells Center Retreat. 2018. Bloomington, IN. (Poster)**
31. **\*Kono T**, Tong X, Chaudry Z, Maddatu J, Robertson M, Petrache I, Evans-Molina C. Passive Cigarette Smoke Exposure Impairs β-Cell Mass Expansion in Response to Diet-Induced Obesity. **Wells Center Retreat. 2018. Bloomington, IN. (Poster)**
32. **\*Kono T,** Sohn P, Tong X, Taleb S, Bone RN, Iida H, Evans-Molina C. A Role for Altered β cell Store-Operated Calcium Entry and ER Ca2+ Homeostasis in the Pathogenesis of Type 2 Diabetes Mellitus. ***Richard L. Roudebush Veterans Affairs Medical Center 2017 Research Symposium*.  Indianapolis, IN.  August 3, 2017. (Poster)**
33. *†*\*Bone RN, **Kono TM**, Evans-Molina C.  Loss of Golgi calcium impairs insulin secretion and alters calcium oscillations in the β-cell.  ***Richard L. Roudebush Veterans Affairs Medical Center 2017 Research Symposium*.  Indianapolis, IN.  August 3, 2017. (Poster)**
34. *†*\*Bone RN, **Kono TM**, Evans-Molina C.  Loss of Golgi calcium impairs insulin secretion and calcium oscillations.  ***IU Center for Diabetes and Metabolic Diseases 3rd Annual Symposium*.  Indianapolis, IN.  August 4, 2017. (Poster)**
35. *†*\*Bone RN, Taleb S, Tong X, Yamamoto W, **Kono T**, Evans-Molina C.  Loss of SPCA1 Increases β-cell Golgi Network Stress.  *Richard L. Roudebush Veterans Affairs Medical Center 2016 Research　Symposium* Indianapolis, 2016.
36. **\*Kono T,** Tong X, Taleb S, Yamamoto W, Evans-Molina C.A Role for Altered STIM1 Function and β Cell ER Ca2+ Dyshomeostasis in Diabetes Pathophysiology. *Richard L. Roudebush Veterans Affairs Medical Center 2016 Research Symposium*.  Indianapolis, IN. 2016.
37. **Kono T**, Moss D, Vestermark G, Traktuev D, March K, and Evans-Molina C. Stem Cell Based Strategies to Enhance Pancreatic Islet Survival in Type 1 Diabetes. **Indiana Center for Vascular Biology and Medicine retreat 2010*.* Indianapolis, USA. 2010. (Poster)**

*REGIONAL*

1. Sanchez-Rodriguez, D., Kono, T., Branco, R.C.S., Dahl, R., Evans-Molina, C., 2025. Small Molecule Allosteric Activators of SERCA Improve β Cell Viability and Function. The 17*th* Annual Midwest Islet Club Meeting, Indiana University School of Medicine. **(Poster)**
2. McLaughlin, M., Sohn, P., Krishnan, P., Lee, C.C., **Kono, T**., Evans-Molina, C. (2024). STIM1 Interacts with G Protein-Coupled Estrogen Receptor Signaling to Maintain β Cell Identity in Female Mice. Midwest Islet Club Meeting, Chicago, IL. **(Poster)**
3. **\*Kono T**, Tong X, Chaudry Z, Lee CC, Sohn P, Bone RN, Kanojia S, Maddatu J, Robertson M, Petrache I, Evans-Molina C. Passive Cigarette Smoke Exposure Cause Ceramide Accumulation and Impairs β-Cell Function in Response to Diet-Induced Obesity. **12th Annual Midwest Islet Club Meeting.** 2019. Ann Arbor, MI. **(Poster)**
4. *†\**Krishnan P, Syed F, Evans-Molina C. Understanding the regulatory role of piwi-interacting RNAs in type 1 diabetes (Poster Abstract). 12th Annual Midwest Islet Club Meeting. 2019, Ann Arbor, MI.
5. *†\**Kanojia S, Syed F, Krishnan P, **Kono T**, Evans-Molina C. Role for miR-146a-5p-Mediated Regulation of Stromal Interaction Molecule 1 and Store-Operated Ca2+ Entry in the pancreatic β cell (poster presentation). 12th Annual Midwest Islet Club 2019, Ann Arbor, MI.
6. *†\**Bone RN, Taleb S, Tong X, Kono T, Evans-Molina C.  Reduced β cell Sarco/Endoplasmic Reticulum Ca2+ ATPase Results in Increased Diabetes Incidence in the NOD Mouse (Oral Abstract).  12th Annual Midwest Islet Club Conference.  2019, Ann Arbor, MI.
7. \*Lee CC, **Kono T**, Weaver S, Sohn P and Evans-Molina C. Histone deacetylase inhibitors improve store-operated calcium entry and glucose-stimulated insulin secretion in cytokine-stressed pancreatic β cells. **(Poster)**  12th Annual Midwest Islet Club Meeting. 2019. Ann Arbor, MI.   
   *†*\*Bone RN, Taleb S, Tong X, Yamamoto W, **Kono T**, Evans-Molina C. Loss of SPCA1 Increase β cell Golgi Network Stress. ***Midwest Islet Club, Indianapolis*, USA. 2016. (Poster)**
8. *†*\*Xiong X, Pan X, Zhang Y, **Kono T,** Evans-Molina C, and Dong CX. Regulation of pancreatic beta cell function by Sirt6. ***Midwest Islet Club, Indianapolis*, USA. 2016. (Poster)**
9. *†*\*Tong X, **Kono T,** Anderson-Baucum E, Shull GE, and Evans-Molina C. SERCA2b Plays Critical Role in the Maintenance of the beta Cell Proliferative Response to Diet-Induced Obesity. ***Midwest Islet Club, Indianapolis*, USA. 2016. (Poster)**
10. *†*\*Yamamoto W, **Kono T**, Tong X, and Evans-Molina C. Stress induced beta cell ER calcium Depletion is Mediated Via calcium Leak From the Ryanodine Receptor. ***Midwest Islet Club, Indianapolis*, USA. 2016. (Poster)**
11. *†*\*Tong X, Taleb S, Yamamoto W, Evans-Molina C, and  **Kono T,**The pathogenic role of SERCA2 loss in multiple low dose streptozotocin-induced diabetes in mice. ***Midwest Islet Club, Indianapolis*, USA. 2016. (Poster)**
12. *†*\*Sims EK, Restrepo I, Tong X, **Kono T,** and Evans-Molina C. β-cell Derived miR-21 Apoptosis and Could Serve as a Biomarker of Type 1 Diabetes Mellitus. ***Midwest Islet Club, Chicago*, USA. 2015. (Poster) \*Selected for outstanding Poster Award**
13. \*Xiong X, Wang G, Tao R, Wu P, **Kono T,** Tong X, Tersey SA, Harris RA, Evans-Molina C, Mirmira RG, and Dong CX. SIrt6 Regulates Insulin Secretion from Pancreatic Beta Cells. ***Midwest Islet Club, Chicago*, USA. 2015. (Poster)**
14. *†*\*Sims E, Restrepo Ivan, Tong X, **Kono T**, Mirmira RG and Evans-Molina C. Beta Cell Derived miR-21 as an Intrinsic Protective Response and Biomarker in Type 1 Diabetes Mellitus ***Midwest Islet Club, Birmingham*, USA. 2014. (Poster)**
15. *†*\*Tong X, **Kono T**, and Evans-Molina C. Beta Cell SERCA2b Protein Stability is Regulated Via NO- and AMPK-Dependent Pathways Under Inflammatory Diabetic Conditions. ***Midwest Islet Club, Birmingham*, USA. 2014. (Poster)**
16. *†*\*Yamamoto W, **Kono T**, Johnson JS, Tong X, Day R, and Evans-Molina C. SERCA2b Overexpression Improves Beta Cell Survival Under Inflammatory and ER Stress Conditions. ***Midwest Islet Club, Birmingham*, USA. 2014. (Poster)**
17. *†*\*Chaudhry ZZ, Morris DL, Moss DR, Sims EK, Chiong Y, **Kono T**, Evans-Molina C. Streptozotocin Is Equally Diabetogenic Whether Administered to Fed or Fasted Mice***. Midwest Islet Club, Ann Arbor*, USA. 2013. (Poster)**
18. *†*\*Johnson JS, **Kono T**, Moss D, Colvin S, Fueger PT, and Evans-Molina C. Pdx-1 Loss Contributes to Beta Cell SERCA2 Transcriptional Dysregulation in Type 2 Diabetes***. Midwest Islet Club, Ann Arbor*, USA. 2013. (Poster)**
19. *†*\*Tong X, **Kono T**, Hall B, Demozay D, Rhodes CJ and Evans-Molina C. Post-Transcriptional Regulation of SERCA2b by IRS2 in the Pancreatic beta cell. ***Midwest Islet Club, Ann Arbor*, USA. 2013. (Poster)**
20. *†*\*Sims E, Hatanaka M, Morris D, Tersey S, **Kono T**, Chaudry Z, Day K, Moss D, Chaudhry Z, Moss D, Stull N, Mirmira RG and Evans-Molina C. Variations in Susceptibility to Diet-Induced Obesity Between C57BL6/J and C56BLKs/J Inbred ***Midwest Islet Club, Ann Arbor*, USA. 2013. (Poster)**
21. **\*Kono T**, Sims E, Moss D, Diamond J, Ahn G, Traktuev D, March K, and Evans-Molina. *Adipose-Derived Stem Cells Enhance Pancreatic Islet Function and Survival in a Mouse Model of Type 1 Diabetes Through Paracrine Growth Factor Secretion of VEGF and TIMP-1.* ***Midwest Islet Club, Pittsburgh*, USA. 2012. (Poster)**
22. *†*\*Sims E, Hatanaka M, Tersey S, **Kono T**, Moss D, Stull N, Mirmira RG and Evans-Molina C. Strain related Differences in Response to Diet-induced Obesity and PPAR-gamma Agonist Treatment. ***Midwest Islet Club, Pittsburgh*, USA. 2012. (Poster)**
23. **Kono T**, Ahn G, Moss D, Gann L, Zarain-Herzberg A, Ogihara T, and Evans-Molina C.Regulation of Beta Cell SERCA2 Expression in Type 2 Diabetes Mellitus. ***Midwest Islet Club, Madison*, USA. 2011. (Poster)**
24. **Kono T**, Robbins R, Nunemaker CS, Tersey SA, Vestermark GL, Deering TG, Garmey JC, Maier B, Keller SR, Mirmira RG and Evans-Molina C.PPAR-γ Activation Partially Restores Islet Function in Diabetic Mice Through Reduction of ER Stress, Improved Calcium homeostasis, and Maintenance of Euchromatin. ***Midwest Islet Club, St. louis. USA. 2009.* (Poster)**

*NATIONAL*

1. *†\**Bone RN, Taleb S, *Tong X*, **Kono T**, Gerling I, Evans-Molina C.  Increased Type 1 Diabetes Incidence Follows the Loss of the Sarco/Endoplasmic Reticulum Ca2+ ATPase in the β cell (Poster Abstract).  FOCIS 2019 Annual Meeting.  2019, Boston, MA.  June 18-21, 2019. **(Poster)**
2. **\*Kono T,** Tong X, Johnson JS, Yamamoto W, Evans-Molina C. SERCA2b is a Key Regulator of Pancreatic β-cell Secretory Function and Mitigation of Stress pathways in Diabetes Mellitus. ***Annual meeting of the Molecular Biology Society of Japan, Yokohama*** **Japan, 2014. (Poster)**

*INTERNATIONAL*

1. Sanchez-Rodriguez, D., Kono, T., Branco, R.C.S., Dahl, R., Evans-Molina, C., 2025. Small Molecule Allosteric Activators of SERCA Improve β Cell Viability and Function. The 85*th* Annual ADA Scientific Sessions, Chicago, IL. **(Poster)**
2. **Kono T, McLaughlin MR, Sohn P, Krishnan P, Wu W, Lee CC, Huang F, Senda T, Slak Rupnik M, Evans-Molina C.** STIM1 Deficiency Impairs Glucose Regulation by Altering Insulin Granules, Mitochondria, and ER Ultrastructure in β-Cells. American Diabetes Association 84th Scientific Sessions (ADA 2025). 2025. Chicago, CA. **(Poster)**
3. **Kono T**, Sohn P, McLaughlin M, Wu W, Postic S, Krishnan P, Lee CC, Slak Rupnik M, Evans-Molina C, Krishnan P. STIM1 Maintains Beta-Cell Identity and Function. Diabetes. June 20, 2023; 72(Suppl\_1): 1771–P. <https://doi.org/10.2337/db23-1771-P> **(Poster)**
4. Weaver SA, Bone RN, Acri DJ, Kim J, **Kono T**, Dahl R, Eizirik DL, Syed F, Evans-Molina C. Loss of SERCA2 Induces Mitochondrial Dysfunction, Increases ß-Cell Senescence, and Accelerates Type 1 Diabetes Development. Diabetes. June 20, 2023; 72(Suppl\_1): 296–LB. <https://doi.org/10.2337/db23-296-LB> **(Poster)**
5. *\**Lee CC, **Kono T**, Weaver S, Sohn P and Evans-Molina C. Histone Deacetylase Inhibitors Improve Store-Operated Calcium Entry and Glucose-Stimulated Insulin Secretion in Cytokine-Stressed Pancreatic β Cells 80th Scientific Session, American Diabetes Association, June 12th-16th, 2020. *Held Online due to COVID-19*. **(Poster)**
6. *†*\*Iida H, **Kono T**, Tong X, Syed F, Lindberg I and Evans-Molina C. Chronic ER calcium depletion resulting from sarcoendoplasmic reticulum Ca2+ ATPase 2 (SERCA2) deficiency in the pancreatic β cell leads to impaired proinsulin processing. ***American Diabetes Association 79th Scientific   
   Sessions*.**2019.San Francisco, CA. **(Poster)**
7. *†*\*Bone RN, Iida H, Taleb S, Tong X, Gerling I, **Kono T**, Lindberg I, and Evans-Molina C. Type 1 Diabetes Development is Exacerbated Following Loss of the Sarco/Endoplasmic Reticulum Ca2+ATPase. nPOD Annual Meeting. 2019. Hollywood, FL. **(Poster)**
8. **\*KonoT**, TongX, TalebS, Bone RN, Iida H, Sohn P, Roe RW, Evans-Molina C. Loss of STIM1 and Impaired β cell Store-Operated Calcium Entry (SOCE) Leads to Decreased ER Ca2+ Storage and Insulin Secretion and Increased β Cell ER Stress. **HIRN conference 2018**, Washington DC. **(Poster)**
9. *†*\*Sohn P, **Kono T**, and Evans-Molina C. The Effect of STIM1 Deletion on the Global Proteome of INS-1 Pancreatic β Cells Mice. Annual Endocrine Society Meeting. 2018. Chicago, IL **(Poster)**
10. **\*Kono T,** Tong X, Taleb S, Bone RN, Yamamoto W, Roe MW, Iida H, Evans-Molina C. Loss of STIM1 and Impaired β cell Store-Operated Calcium Entry (SOCE) Leads to Decreased ER Ca2+ Storage and Insulin Secretion and Increased β Cell ER Stress. ***American Diabetes Association 77th Scientific Sessions*.  San Diego, CA.  June 9-13, 2017.  *(Poster)***
11. *†*\*Bone RN, Taleb S, Tong X, **Kono T**, Evans-Molina C.  Decreased Insulin Secretion and Impaired β-cell Autophagy Follows Loss of Secretory Pathway Ca2+ ATPase (SPCA1).  ***HIRN 2017 Annual Investigator Meeting*.  Bethesda, MD.  March 7-10, 2017. (Poster)**
12. **\*Kono T,** Tong X, Taleb S, Yamamoto W, Evans-Molina C.A Role for Altered β cell Store-Operated Calcium Entry and ER Ca2+ Homeostasis in the Pathogenesis of Type 2 Diabetes Mellitus. ***FASEB Conference Calcium and Cell Function,***  **Lisbon, Portugal. 2016. (Poster)**
13. *†*\*Yamamoto W, **Kono T**, Tong X, Evans-Molina C. ER Stress Induced Ryanodine Receptor Dysfunction in the Pancreatic Beta Cell. ***The Advances & Breakthroughs in Calcium Signaling, Honolulu,* USA, 2016**
14. **\*Kono T,** Tong X, Yamamoto W, and Evans-Molina C. A Potential Role for Altered SOCE and ER Ca2+ Dysfunction in the Pathogenesis of Type 2 Diabetes. ***American Diabetes Association, Boston*, USA. 2015. (Poster)**
15. *†*\*Tong X, **Kono T,** and Evans-Molina C.SERCA2b plays a critical role in the maintenance of pancreatic beta cell function and mass in response to diet induced obesity. ***American Diabetes Association, Boston*, USA. 2015. (Poster)**
16. \*Mehta VR, Guierrez JA, Robertson M, Considine G, **Kono T**, and Evans-Molina C. Doxycycline –Induced Hypoglycemia in a patient with Cellulitis, Cirrhosis, and Renal Insufficiency. ***Endocrine Society’s Annual Meeting*, San Diego, USA, 2015. (Poster)**
17. *†*\*Tong X, **Kono T**, and Evans-Molina C. Beta Cell SERCA2b Protein Stability Is Regulated via Nitric Oxide- and AMPK-dependent Pathways Under Inflammatory Diabetic Conditions ***American Diabetes Association, San Francisco,* USA, 2014 (Poster)**
18. *†*\*Johnson JS, **Kono T**, Tong X, Yamamoto W, Colvin S, Fueger P, and Evans-Molina C. Pdx-1 is Transcriptional Regulator of ER Calcium Homeostasis ***American Diabetes Association, San Francisco,* USA, 2014 (Poster)**
19. *†*\*Sims E, Hatanaka M, Morris D, Tersey S, **Kono T**, Moss D, Chaudhry Z, Moss D, Stull N, Mirmira RG and Evans-Molina C. Variations in Susceptibility to Diet-Induced Obesity Between C57BL6/J and C56BLKs/J Inbred Mouse Strains. ***American Diabetes Association, Chicago,* USA, 2013(Poster)**
20. *†*\*Tong X, **Kono T**, Hall B, Demozay D, Rhodes CJ and Evans-Molina C. Post-Transcriptional Regulation of SERCA2b by IRS2 in the Pancreatic beta cell. ***American Diabetes Association, Chicago,* USA, 2013(Poster)**
21. **\*Kono T**, Budd A, Moss D, Day K, Fueger P and Evans-Molina C.Rescue of SERCA2b expression improves pancreatic β cell insulin secretory function, proliferation, and survival under conditions of hyperglycemic and cytokine stress. ***American Diabetes Association, Philadelphia*, USA. 2012. (Poster)**
22. *†*\*Johnson JS, **Kono T**, Evans-Molina C. Transcriptional Role of Pdx-1 in β Cell SERCA2 Expression and Calcium Homeostasis ***Midwest Islet Club, Pittsburgh*, USA. 2012. (Poster)**
23. **\*Kono T**, Budd A, Moss D, Fueger P and Evans-Molina C.RESCUE OF SERCA2B EXPRESSION IMPROVES PANCREATIC β CELL PROLIFERATION AND SURVIVAL IN TYPE 2 DIABETES MELLITUS. ***Keystone meeting (Islet biology).* Monterey, USA, 2012 (Oral and Poster).**
24. **Kono T**, Gann L, Moss D, Zarain-Herzberg A, Ogihara T, and Evans-Molina C.PPAR-γ Activation Restores SERCA EXPRESSION Levels and Prevents β Cell dysFunction in Type 2 Diabetes Mellitus. ***Keystone meeting(Islet biology).* Wistler, Canada. 2010 (Poster)**
25. **Kono T**, Nishiki Y, Seki Y, Sato K and Akiba Y. Insulin stimulates glucose transporter and hexokinase gene expression in chicken skeletal muscle. ***Europ. Poult. Conf. Verona, Italy. 2006.* (Poster)**
26. Fukao K, Akiba Y, Nishiki Y, Tokushima Y, **Kono T** and Sato K. Improvement in glucose tolerance and skeletal muscle glucose transport in broiler chickens treated with PPARγ agonist Troglitazone. ***Europ. Poult. Conf. Verona, Italy. 2006.* (Poster)**
27. Nishiki Y, **Kono T,** Fukao K, Sato K, Takahashi K, Toyomizu M and Akiba Y. Nitric oxide (NO) modulates glucose transport in skeletal muscles in vivo of chickens. ***Europ. Poult. Conf. Verona, Italy. 2006.* (Poster)**
28. **Kono T,** Seki Y, Sato K and Akiba Y. Characterization of GLUT mRNA expression in insulin-stimulated state in broiler chickens. ***World’s Poult. Cong. Istanbul, Turkey. 2004.* (Poster)**

**INVITED TALKS AND PRESENTATIONS - RESEARCH/CREATIVE ACTIVITY:**

LOCAL

1. Islet Research Seminar Series, Washington University at St.Lous (Online) Mar.13 2025 “Chasing ER Calcium: SERCA2 and STIM1 as Therapeutic Targets for Diabetes”
2. UC-Tomorrow Research Seminar, University of Cincinnati, Cincinnati, OH 2024

“Estrogen and GPER1 receptor signaling in the pancreatic β cells”

1. Research Seminar, Tohoku University, Sendai, Japan 2023

“STIM1 Maintains β Cell Identity and Function in Female Mice through Preservation of GPER1 signaling”

1. UC-Tomorrow Research Seminar, University of Cincinnati, Cincinnati, OH 2022

“STIMulation of ER stress in the pancreatic β cells”

NATIONAL

1. Scienc-Ome Online Forum. (Held online due to COVID19) 2021

“100 years of insulin special lecture: The wave of Insulin”

1. Microsoft Program Users Forum. (Held online due to COVID19) 2021  
   “100 years of insulin special lecture: The voice of cells”
2. \*Sanofi DM Expert Meeting, Yokohama, Japan 2019

“Impaired SOCE and STIM1 Loss Increased ER Stress in the Diabetic β cell”

1. \*Tohoku Forum of Creativity, Sendai, Japan 2017

“A Role for Altered SOCE and ER Ca2+ Homeostasis in the pancreatic β cells”

1. \*UJA Forum at Annual meeting of the Molecular Biology Society, Yokohama, Japan 2014

“Introduction to study abroad, study diabetes, and the pancreatic β cells”

INTERNATIONAL

1. Life Science Seminar, Fukuoka Institute of Technology, Fukuoka, Japan 2023

“Diversity and Energy of the Cells”

1. IRCMS symposium "Rise of Diversity in Science" IRCM, Kumamoto University, Japan 2023

“STIM1 Maintains β Cell Identity and Function in Female Mice through Preservation of GPER1 signaling”

1. Research Science Seminar, Kumamoto University, Kumamoto, Japan 2023

“Diversity in Science from ER calcium homeostasis study”

1. Life Science Seminar, Toyo University, Itakura, Japan 2019

“STIMulation of ER stress in the pancreatic β cells”

1. \*Tohoku University Animal Science Seminar, Sendai, Japan 2014

“SERCA2b is a Key Regulator of Pancreatic β-cell Secretory Function and

Mitigation of Stress pathways in Diabetes Mellitus.”

1. \*Cell Physiology Seminar, University of Tokyo, Tokyo, Japan 2014

“SERCA2b is a Key Regulator of Pancreatic β-cell Secretory Function and

Mitigation of Stress pathways in Diabetes Mellitus.”

1. \*Life Science Seminar, Toyo University, Itakura, Japan 2013

“Rescue of SERCA2b expression improves pancreatic β cell insulin secretory function,

proliferation, and survival under conditions of hyperglycemic and cytokine stress.”

**SERVICE ACTIVITIES:**

**UNIVERSITY SERVICE:**

**DEPARTMENT**Activity Role Date

\*Wells Research Center   
DEI Committee Committee Member 2022-2023

\*Ion Channels, GPCR and Imaging

Group Meeting Organizer 2020

\*Ion Channels, GPCR and Imaging

Group Meeting Organizer 2019

\*IU Center for Diabetes and

Metabolic Diseases

4th Annual Symposium. Judge Committee 2019

\*Wells Center Retreat Organizing Committee 3/2019

\* IU Center for Diabetes and

Metabolic Diseases

Seminar Series, Dr. Xin Tong

From Vanderbilt University Host 9/27/2019

\*Ion Channels, GPCR and Imaging

Group Meeting Organizer 2018

\*IU Center for Diabetes and

Metabolic Diseases

3rd Annual Symposium. Judge Committee 2018

\*IU Center for Diabetes and

Metabolic Diseases

2nd Annual Symposium. Judge Committee 2017

\*Metabolism in Islet Biology

Seminar Series, Dr. Eshima   
Hiroaki From Juntendo University Host 4/24/2017

\*IU Center for Diabetes and

Metabolic Diseases

1st Annual Symposium. Judge Committee 2016

**CAMPUS**

\*Annual Gala event at JAPAN   
AMERICAN SOCIETY INDIANA Attended as a representative of IUPUI Office of Community

Engagement 2019

\*JAPAN update event at JAPAN   
AMERICAN SOCIETY INDIANA Attended as a representative of IUPUI Office of International Affair

2018

\*Annual Gala event at JAPAN   
AMERICAN SOCIETY INDIANA Attended as a representative of IUPUI Office of International Affair

2017

\*Toyo University IUPUI International

Scientific Exchange Symposium Organizing Committee (Chair) 2016

\*IUPUI Japanese Language Program

Speech Night Judge Committee 2014-Present

**PROFESSIONAL SERVICE:**

LOCAL

\*Richard L. Roudebush Veterans

Affairs Medical Center

Research Symposium Judge Committee 2019

REGIONAL:

\*Midwest Islet Club Annual

Meeting

Judge Committee 2016

NATIONAL:

\*Scienc-ome XR Innovation Hub (hackathon event)

(Held online due to COVID19) Organizer 2021

\*JAPAN XR SCIENCE FORUM

(Held online due to COVID19) Organizer 2021

\*JAPAN XR SCIENCE FORUM

(Held online due to COVID19) Organizer (Program Chair) 2020

INTERNATIONAL:

\*United Japanese Researchers   
around the world Board Member 2019-Present

**Paper Reviews**

Ad Hoc reviewer for *Scientific Reports.* 2014-Present

Ad Hoc reviewer for *Diabetes.* 2014-Present

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| 1/17/2024  Date: | (Signature of Candidate) |