Jun Wu, Ph.D.

Jessica Schwartz Collegiate Professor in the Life Sciences
Research Associate Professor, Life Sciences Institute
Associate Professor, Molecular & Integrative Physiology
Associate Professor, Department of Internal Medicine - Metabolism, Endocrinology, and Diabetes
Ann Arbor, Michigan
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Education and Training

Education

09/1996-07/2001	BS, University of Science & Technology of China, Hefei, China
09/2001-04/2004	MS, Biological Chemistry, University of Michigan, Ann Arbor, MI
09/2001-12/2007	PhD, Biological Chemistry, University of Michigan, Ann Arbor, MI

Postdoctoral Training

12/2007-03/2008	Postdoctoral Fellow, Metabolism and Cell Biology, University of Michigan, Ann Arbor, Michigan
04/2008-12/2011	Research Fellow, Metabolism and Cell Biology, Dana-Farber Cancer Institute, Harvard Medical School, Boston, Massachusetts

Work Experience

Academic Appointment

01/2012-10/2013	Instructor, Department of Cell Biology, Harvard Medical School, Boston
11/2013-08/2022	Assistant Professor, Molecular and Integrative Physiology, University of Michigan, Ann Arbor, Michigan
11/2013-08/2022	Research Assistant Professor in Life Sciences Institute, University of Michigan, Ann Arbor
07/2016-08/2022	Assistant Professor in Internal Medicine - Metabolism, Endocrinology, and Diabetes, University of Michigan, Ann Arbor
09/2022-Present	Associate Professor in Internal Medicine - Metabolism, Endocrinology, and Diabetes, University of Michigan, Ann Arbor
09/2022-Present	Associate Professor, Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI, (Tenured)
09/2022-Present	Research Associate Professor in Life Sciences Institute, University of Michigan, Ann Arbor
10/2022-Present	Jessica Schwartz Collegiate Professor in the Life Sciences, University of Michigan, Ann Arbor, Michigan, (Tenured)

Research Interests

- Investigating a beige-selective immune-adipose interaction and studying a novel function of nicotinic acetylcholine receptors in energy metabolism (R01DK107583).

• Investigate the mechanistic details how the nonneuronal cholinergic signaling through CHRNA2 is activated, mediated and plays an adaptive/protective role in the context of alcoholic liver disease (ALD) (R01AA028761).

Grants

Current Grants

cholinergic regulation of glycemic control:MPI, Jun Wu, Alison Affinati
MPI
MDRC, Stanley and Judith Frankel Institute for heart and brain health
12/2025 - 11/2027
$200,000

N/A:*Nutrition Obesity Research Center Publication Fund Initiative:*
Funded by (Principal Investigator:Elizabeth Mayer-Davis, PhD)
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
01/2026 - 12/2026
$3,000

R01AA028761:*A novel cholinergic circuitry in alcoholic liver disease (NIAAA):*
PI
NIH-DHHS-US
03/2021 - 01/2027
$2,066,485

Submitted - Open

Molecular rhythmic response to alcohol abuse in peripheral tissues:
PI
NIH-DHHS-US
09/2026 - 08/2031
$3,395,980

Interorgan crosstalk in alcohol-associated liver disease:
PI
NIH-DHHS-US
07/2026 - 06/2031
$3,395,980

Past Grants

N/A:*Elizabeth Caroline Crosby Faculty Grant:*
PI
ADVANCE at the University of Michigan

01/2022 - 01/2023
$4,000

R01DK107583:*The role of immune-adipocyte cholinergic signaling during metabolic adaptation and dysfunction:*
PI
NIH-DHHS-US
04/2021 - 08/2025
$1,672,320

A novel cholinergic circuitry in hepatic regulation:
PI
American Association for the S
07/2020 - 06/2021
$50,000

A novel cholinergic circuitry in hepatic regulation:
PI
American Gastroenterological A
04/2020 - 03/2021
$30,000

Molecular regulation of thermogenic adipocytes through PRMT1:
PI
ADA
01/2018 - 12/2020
$339,247

R01DK114220:*The role of hypothalamic Slug in the regulation of leptin sensitivity, energy balance, and body weight.:*
Consultant on (Principal Investigator:Liangyou Rui)
NIH-DHHS-US
08/2017 - 06/2022
$2,172,783

Regulation of thermogenesis in subcutaneous fat cells: Crosstalk between PRMT1 and PKA:
Mentor
AHA-MidWest Affiliate
01/2017 - 07/2018
$98,950

F31DK112625:*Regulation of Thermogenesis in Adipocytes Through TRPA1:*
Mentor
NIH-DHHS-US
09/2016 - 11/2017
$104,547

R01DK107583:*Molecular Regulation of Beige Adipocytes through CHRNA2:*
PI
NIH-DHHS-US
01/2016 - 03/2021
$1,743,750

Molecular regulation of beige adipocytes through CHRNA2:
PI
ADA
01/2016 - 12/2017
$276,000

Molecular regulation of thermogenic beige fat in mice and humans:
PI
Mallinckrodt, Edward, Jr., Fo
10/2015 - 09/2018
$180,000

Modeling information flow between tissues during metabolic adaptation and dysfunction:
PI
Human Frontier Science Program
05/2014 - 04/2018
$300,000

R03DK100698:*Molecular Regulation of Beige Fat Cells in Mice and Humans:*
PI
NIH-DHHS-US
04/2014 - 03/2016
$155,313

K01DK094824:*Molecular regulation of the brown-like ("beige") cells of white fat depots:*
PI
NIH-DHHS-US
12/2013 - 04/2015
$240,103

12SDG8070003:*Molecular regulation of the brown-like ("beige") cells of white fat depots:*
Funded by
American Heart Association
01/2012 - 06/2012
$308,000

09POST2010078:*Regulation of the UPR by transcriptional coactivator PGC-1alpha in skeletal muscle:*
Funded by
American Heart Association
07/2009 - 06/2011
$83,000

Honors and Awards

International

2014 - 2017	Young Investigators' Grant, Human Frontier Science Program

National

2009 - 2011	Postdoctoral Fellowship, American Heart Association
2011	Travel Scholarship, Keystone symposia: Type 2 Diabetes, Insulin Resistance and Metabolic Dysfunction

2012	Scientist Development Grant, American Heart Association
2012 - 2015	K01 Mentored Research Scientist Development Award, NIH, NIDDK
2015 - 2018	Mallinckrodt Grant, Edward Mallinckrodt, Jr. Foundation
2016	Junior Faculty Development Award, American Diabetes Association
2018	Young Investigator Award, Chinese American Diabetes Association
2018 - 2020	Innovative Basic Science Award, American Diabetes Association
2021	Distinguished reviewer of Diabetes

Institutional

2005	Travel Grant
2005 - 2006	The Anthony and Lillian Lu Fellowship
2015 - 2016	Frankel Cardiovascular Center, McKay Grant

Study Sections, Editorial Boards, Journal & Abstract Review

Study Sections

International

2017	Reviewer for Human Frontier Science Program (HFSP), Career Development Awards, (Ad Hoc)
2018	Reviewer for the Netherlands Organisation for Health Research and Development (ZonMw) and the Dutch Diabetes Research Foundation, call for "Diabetes II Breakthrough Projects", (Ad Hoc)
2020	External reviewer for the Research Grants Council of Hong Kong, (Ad Hoc)
2020	Reviewer for proposal for Biotechnology and Biological Sciences Research Council, UK, (Ad Hoc)
2021	Reviewer for Discovery Grant for the National Sciences and Engineering Research Council of Canada (NSERC), (Ad Hoc)
2021	Reviewer for The Health Research Council of New Zealand, Emerging Researcher First Grant, (Ad Hoc)
2021	Reviewer for Generic Call for Proposals (AAPG), French National Research Agency (ANR), (Ad Hoc)
2023	Reviewer for Generic Call for Proposals (AAPG), French National Research Agency (ANR), (Ad Hoc)
2023 - 2024	grant review, Austrian Science Fund (FWF), (Ad Hoc)
2024 - 2025	grant review, Swiss National Science Foundation, Switzerland, (Ad Hoc)
2025	German Research Foundation (Deutsche Forschungsgemeinschaft), Germany, (Ad Hoc)

National

2012	Reviewer for NIH, mouse metabolic phenotyping centers (MMPC), micromouse grant, (Ad Hoc)
2016 - 2018	Scientific Reviewer, Peer Reviewed Medical Research Program (PRMRP) peer review panel for the Department of Defense Congressionally Directed Medical Research Programs (CDMRP), (Ad Hoc)
2016 - 2021	Member of Research Grant Review Committee, American Diabetes Association
2017	Reviewer for NIH, CADO study section, (Ad Hoc)

2018	Reviewer for NIH, ZDK1 GRB-J O4 Microphysical Systems (MPS) for Modeling Diabetes (UG3/UH3), (Ad Hoc)
2019	Reviewer for NIH, ZES1 JAB-D (SF)1, Evaluation of the P42 SUPERFUND Research Grant Applications, (Ad Hoc)
2021	NIH, ZDK1 GRB-G (M4) 1-NIDDK, SEP for mechanistic studies of the interaction between SARS-CoV-2/COVID-19 and diseases and organ systems - diabetes, endocrinology, and metabolic diseases and digestive diseases and nutrition (DDN) diseases and digestive diseases, (Ad Hoc)
2021	Reviewer for NIH, BMDM study section, (Ad Hoc)
2021	ADA annual scientific meeting, session chair "Interorgan cross talk-metabolites, proteins and extracellular vesicles", (Ad Hoc)
2021 - 2022	Annual scientific sessions abstract reviewer, American Diabetes Association, (Ad Hoc)
2022	Reviewer for BMDM study section, NIH, (Ad Hoc)
2022	Reviewer for XNDA study section, NIH, (Ad Hoc)
2023	Reviewer for Pilot & Feasibility grant, University of Texas Southwestern Medical Center, Nutrition and Obesity Research Center (UTSW-NORC), (Ad Hoc)
2023	Invited ad hoc reviewer for ADA postdoc fellowship (declined due to time constraints as an NIH study section standing member), American Diabetes Association, (Ad Hoc)
2023 - 2027	Basic Mechanisms of Diabetes and Metabolism Study Section (BMDM), Endocrinology, Metabolism, Nutrition and Reproductive Sciences Integrated Review Group (EMNR), NIH, (Standing Member)
2024 - 2025	Annual scientific sessions abstract reviewer, American Diabetes Association, (Ad Hoc)

Regional

2017	Member of the Grants Program Advisory Council for the Michigan Diabetes Research Center (MDRC), (Ad Hoc)
2017 - 2018	Member of the Michigan Nutrition Obesity Research Center Pilot/Feasibility Internal Review Committee, (Ad Hoc)

Institutional

2014	Reviewer for Nathan Shock Center, pilot grant, (Ad Hoc)
2023	Poster Section Judge for Metabolism, Obesity and Diabetes Symposium (invited and declined due to schedule conflict), Caswell Diabetes Institute, Univ. of Michigan

Departmental

2023	Klatskin Sutker Grant, Life Sciences Institute, Univ. of Michigan, (Ad Hoc)
2026	Klatskin Sutker Grant, Life Sciences Institute, Univ. of Michigan, (Ad Hoc)

Editorial Boards / Journal & Abstract Reviews

Editorial Boards

2015	Guest associate editor, Research Topic "Molecular regulation and therapeutic potential of thermogenic fat cells", Frontiers in Endocrinology
2020 - 2022	Editorial board member, Diabetes

Journal Review

2011 - Present	Frontiers in Cellular Endocrinology (Ad Hoc)

2012 - Present	Obesity (Ad Hoc)
2013 - Present	Adipocyte (Ad Hoc)
2013 - Present	The Federation of European Biochemical Societies (FEBS) Journal (Ad Hoc)
2013 - Present	Journal of Lipid Research (Ad Hoc)
2013 - Present	Diabetologia (Ad Hoc)
2013 - Present	Diabetes (Ad Hoc)
2014 - Present	Nature Medicine (Ad Hoc)
2014 - Present	Nature Cell Biology (Ad Hoc)
2014 - Present	Gastroenterology (Ad Hoc)
2014 - Present	Cell Death & Differentiation (Ad Hoc)
2014 - Present	Science (Ad Hoc)
2014 - Present	Cell Metabolism (Ad Hoc)
2014 - Present	Nature Communications (Ad Hoc)
2014 - Present	International Journal of Biochemistry & Cell Biology (Ad Hoc)
2014 - Present	Stem Cell Research & Therapy (Ad Hoc)
2014 - Present	Biochimica et Biophysica Acta General Subjects (Ad Hoc)
2014 - Present	Endocrinology (Ad Hoc)
2015 - Present	Cell Biochemistry & Function (Ad Hoc)
2015 - Present	Cell Death & Disease (Ad Hoc)
2015 - Present	Developmental Cell (Ad Hoc)
2015 - Present	Molecular Biology of the Cell (Ad Hoc)
2015 - Present	Molecular Metabolism (Ad Hoc)
2016 - Present	Acta Biomaterialia (Ad Hoc)
2016 - Present	American Journal of Physiology Endocrinology and Metabolism (Ad Hoc)
2016 - Present	Annals of Anatomy (Ad Hoc)
2016 - Present	BioMed Research International (Ad Hoc)
2016 - Present	Cell Research (Ad Hoc)
2016 - Present	EBioMedicine (Ad Hoc)
2016 - Present	Hormone and Metabolic Research (Ad Hoc)
2016 - Present	Journal of Clinical Investigation (Ad Hoc)
2016 - Present	Metabolism, Clinical and Experimental (Ad Hoc)
2016 - Present	Nature Reviews Molecular Cell Biology (Ad Hoc)
2016 - Present	Neural Plasticity (Ad Hoc)
2016 - Present	Obesity Reviews (Ad Hoc)
2016 - Present	PPAR (peroxisome proliferator activated receptor) research (Ad Hoc)
2016 - Present	Scientific Reports (Ad Hoc)
2017 - Present	American Journal of Physiology Regulatory, Integrative and Comparative Physiology (Ad Hoc)

2017 - Present	Biochimica et Biophysica Acta Molecular and Cell Biology of Lipids (Ad Hoc)
2017 - Present	EMBO reports (Ad Hoc)
2017 - Present	Journal of Thermal Biology (Ad Hoc)
2017 - Present	Oxidative Medicine and Cellular Longevity (Ad Hoc)
2017 - Present	Plos Biology (Ad Hoc)
2017 - Present	Plos One (Ad Hoc)
2017 - Present	Science Signaling (Ad Hoc)
2017 - Present	Science Translational Medicine (Ad Hoc)
2017 - Present	Tissue Engineering (Ad Hoc)
2018 - Present	Cell Reports (Ad Hoc)
2018 - Present	Journal of Clinical Endocrinology & Metabolism (Ad Hoc)
2018 - Present	Journal of Obesity (Ad Hoc)
2018 - Present	PNAS (Proceedings of the National Academy of Sciences of the United States of America) (Ad Hoc)
2018 - Present	Molecular and Cellular Biology (Ad Hoc)
2018 - Present	Clinical Nutrition (Ad Hoc)
2018 - Present	Nature (Ad Hoc)
2019 - Present	Frontiers in Physiology (Ad Hoc)
2019 - Present	Science Advance (Ad Hoc)
2019 - Present	eLife (Ad Hoc)
2019 - Present	Journal of Cellular Physiology (Ad Hoc)
2020 - Present	Molecular and Cellular Endocrinology (Ad Hoc)
2020 - Present	Journal of clinical investigation insight (Ad Hoc)
2020 - Present	Advanced Science (Ad Hoc)
2021 - Present	National Science Review (Ad Hoc)
2021 - Present	iscience (Ad Hoc)
2021 - Present	Genes & Development (Ad Hoc)
2022 - Present	PLOS Genetics (Ad Hoc)
2022 - Present	Endocrine Reviews (Ad Hoc)
2023 - Present	International Journal of Obesity (Ad Hoc)
2023 - Present	Current Opinion in Genetics and Development (Ad Hoc)
2023 - Present	EMBO Journal (Ad Hoc)
2023 - Present	Protein and Cell (Ad Hoc)
2023 - Present	Journal of Experimental Medicine (Ad Hoc)
2024 - Present	Current Opinion in Endocrine and Metabolic Research (Ad Hoc)
2024 - Present	Nature Metabolism (Ad Hoc)
2024 - Present	Federation of American Societies for Experimental Biology Journal (the FASEB Journal) (Ad Hoc)
2024 - Present	Autoimmunity Reviews (Ad Hoc)

2025 - Present	Alcohol and Alcoholism (Ad Hoc)
2025 - Present	Journal of Translational Medicine (Ad Hoc)

Teaching

Mentorship

Faculty Member

01/2019 - 01/2021	Heejin Jun, University of Michigan, Current, Associate Professor, University of Nebraska, Nebraska, USA
09/2025 - Present	Shanshan Liu, University of Michigan, in progress

Postdoctoral Fellow

01/2014	Pengxiu Cao, University of Michigan
01/2014 - 01/2016	Hui Yu, University of Michigan, Current, Tenure-track assistant professor, Ohio State University, Ohio, USA
01/2014 - 01/2019	Heejin Jun, University of Michigan
01/2015 - 01/2018	Dong-il Kim, AHA funded, University of Michigan, Associate professor with tenure Chonnam National University, South Korea
01/2016 - 07/2023	Mauricio Torres, University of Michigan, Role: member of his Postdoctoral Fellow Mentoring Committee, Mentor: Dr. Ling Qi, Career mentorship
01/2018 - 01/2019	Kezhou Zhu, University of Michigan
01/2019 - 01/2021	Alexander Knights, University of Michigan, Currently, assistant professor on tenure track, Washington University, Missouri, USA
01/2019 - 08/2025	Shanshan Liu, University of Michigan, promoted to research investigator
01/2022 - 06/2025	Kezhou Zhu, University of Michigan, postdoc in a different lab

Graduate Student

01/2014 - 10/2017	Margo Emont, F31 funded, University of Michigan, Department of Molecular & Integrative Physiology, Current tenure-track assistant professor at University of Chicago
01/2016 - 01/2020	Natalie Warsinger-Pepe, (co mentor), Department of Molecular & Integrative Physiology, University of Michigan, Current Postdoc at UCSD

Rotating Graduate Students

11/2025 - 01/2026	Stephanie Fisher-Huynh, University of Michigan, Graduate research

Undergraduate Student

01/2014	Nenita Maganti, Perrigo Fellow, University of Michigan, CHEM398, undergraduate research, Current, MD, Resident, University of Wisconsin, Resulted in coauthor publication
01/2014 - 01/2015	Mark Cohrs, University of Michigan, MCDB300, undergraduate research
01/2022	Margaret Iwu, University of Detroit Mercy/Perrigo Fellow
10/2023 - 04/2026	Biyang Zhang, University of Michigan, Undergraduate research, MCDB300, resulted in coauthor publications
01/2024 - 05/2025	Weilai Ye, University of Michigan, MCDB300, MCDB 400, honors thesis, undergraduate research, Resulted in coauthor publication. Thesis complete. Starting Ph.d. at UChicago 09/2026
02/2024 - 04/2026	Nadia Houssein, University of Michigan, Undergraduate research, MCDB300, resulted in coauthor publications

08/2024 - Present	Matthew Fein, University of Michigan, Undergraduate research, MCDB300, resulted in coauthor publication, in progress
08/2024 - 04/2026	Justin Piejak, University of Michigan, Undergraduate research, MCDB300, resulted in coauthor publication
08/2024 - 04/2026	Lily Dale, University of Michigan, Undergraduate research, MCDB300, resulted in coauthor publication
09/2024 - Present	Maxwell Childers, University of Michigan, undergraduate research, MCDB300, in progress
02/2025 - Present	Raney Jin, University of Michigan, undergraduate research, In progress
05/2025 - Present	Zahraa Alfatlawi, University of Michigan, undergraduate research, MCDB300, In progress
06/2025 - Present	Joele Ballouz, University of Michigan, undergraduate research, MCDB300, in progress
12/2025 - Present	Seojun Lee, University of Michigan, Undergraduate research, in progress

Visiting Scholar

01/2015 - 01/2017	Juan Jiang, Central South University, P.R. China, Current, Resident, Xiangya Hospital, P.R. China
01/2016 - 01/2018	Jiling Liao, Central South University, P.R. China, Current, Resident, 2nd Xiangya Hospital, P.R. China
01/2016 - 01/2019	Xiaona Qiao, Fudan University, P.R.China
01/2018 - 01/2020	Yingxu Ma, Central South University, P.R. China, Current, Resident, 2nd Xiangya hospital, P.R. China
09/2022 - 01/2025	Yunying Huang, Central South University, Changsha, P.R. China, Career mentorship

Teaching Activity

Institutional

01/2015	Faculty evaluator, Physiology 606, Student Seminar, Current Topics in Physiology
01/2015 - 01/2017	Lecturer, Cell & Developmental Biology 582, Stem Cells in Organogenesis and Regenerative Medicine
01/2015 - 01/2021	Faculty evaluator, Cellular & Molecular Biology 850, Student Seminar
01/2016 - 01/2019	Lecturer, Biochemistry 552, Biochemistry for Medical Students (MSTP), University of Michigan
01/2016 - 01/2021	Lecturer, Physiology 576, Signal Transduction, University of Michigan
08/2022 - Present	Membrane and Cellular Physiology (PHYSIOL 578), University of Michigan, Molecular & Integrative Physiology, Lecturer(two lectures/year, 15-ish students)

Dissertation Committees

01/2014 - 10/2017	Margo Emont, Fighting fat with fat: thermogenesis and metabolic benefits, University of Michigan, Molecular & Integrative Physiology, Chair
01/2016 - 03/2016	Henry Kuang, Preliminary Examination Committee: Metabolic regulation by the novel myokin Musclin, University of Michigan, Cellular & Molecular Biology, Committee Member
01/2016 - 08/2020	Natalie Warsinger-Pepe, Regulation of Nucleolar Dominance within the Species Drosophila melanogaster and within Interspecies Drosophila Hybrids, University of Michigan, Molecular & Integrative Physiology, Co-Chair

01/2017 - 03/2022	Elizabeth Ronan, Neural and genetic mechanisms of sensory reception in C. elegans, University of Michigan, Molecular & Integrative Physiology, Committee Member

Memberships in Professional Societies

2009 - Present	American Diabetes Association
2014 - Present	American Association for the Advancement of Science
2015 - Present	American Physiological Society
2019 - Present	American Gastroenterological Association
2019 - Present	American Association for the Study of Liver Diseases

Committee/Service

National

2023	Scientific Sessions Organizing Committee, Insulin Action/Molecular Metabolism, American Diabetes Association, Member
2023	Scientific Sessions, American Diabetes Association, Other, Session Chair for Meeting (invited but declined due to schedule conflict)
2024	Scientific Sessions, American Diabetes Association, Other, Session Chair for Meeting (invited but declined due to schedule conflict)

Institutional

2020 - 2026	Institutional Animal Care & Use Committee, Office of Research (Animal Care and Use Office), Other, voting faculty member
2024 - 2025	Rackham International Student Fellowship Committee, selection committee, Rackham Graduate School, University of Michigan, Member
2025 - Present	Enrichment Committee, Caswell Diabetes Institute, Other, Michigan Diabetes Research Center Representative
2025 - 2028	Advisory Committee for Appointments, Promotions, and Tenure (ACAPT), Univ. of Michigan, Medical School Administration, Elected Member

Departmental

2015 - 2016	Onboarding Task Force, Life Sciences Institute, Member
2015 - 2021	MIP Seminar Committee, Molecular & Integrative Physiology, Member
2016 - 2017	2017 Symposium Organizing Committee, Life Sciences Institute, Member
2018 - 2019	Faculty Search Committee, Life Sciences Institute, Member
2021 - 2025	MIP Seminar Committee, Molecular & Integrative Physiology, Other, Associated chair
2021 - 2027	Safety Committee, Life Sciences Institute, Member
2022 - 2023	2023 Symposium Organizing Committee, Life Sciences Institute, Member
2023 - 2024	Faculty Search Committee, Molecular and Integrative Physiology, Caswell Diabetes Institute, Member
2024	Metabolism, Obesity, Nutrition, and Diabetes Symposium, Caswell Diabetes Institute, Other, Poster Judge
2025 - Present	MIP Seminar Committee, Molecular & Integrative Physiology, Chair
2025	Life Sciences Institute Outstanding Administrative Staff Recognition Award (OASRA), University of Michigan, Member

2025 - 2026 LSI Annual Symposium Organizing Committee, Life Sciences Institute, Member

Scholarly Activities

Presentations

Extramural Invited Presentation

Speaker

1. Beige fat specific regulation in mouse and human, American Diabetes Association Scientific Sessions, 06/2014, San Francisco, CA

2. Beige-fat-specific regulation in mouse and human, Chinese American Diabetes Association Scientific Sessions, 06/2015, Boston, MA

3. Beige-fat-specific regulation in mouse and human", Endocrine Society annual meeting, 04/2016, Boston, MA

4. Beige-fat-specific regulation in mouse and human, Annual Conference of the Prevention and Control of Cardiovascular Metabolic Disease, 04/2016, Wuhan, China

5. Beige-fat-specific regulation in mouse and human, Annual Xiangya International Diabetes and Immunology Forum, 04/2016, Changsha, China

6. Beige-fat-specific regulation in mouse and human, Korean Society for Biochemistry and Molecular Biology (KSBMB) International conference, 05/2016, Seoul, South Korea

7. Beige-fat-specific regulation in mouse and human, Inaugural Metabolic Disease and Obesity meeting, 12/2016, Melbourne, Australia

8. Beige-fat-specific regulation in mouse and human, Keystone Symposium: Diabetes, 01/2017, Keystone, CO

9. Beige-fat-specific regulation in mouse and human, Brown Adipose Tissue Embo Workshop, 05/2017, Sitges, Barcelona, Spain

10. Outside reader on the PhD thesis of Kaisi Zhang, Department of Cellular and Molecular Physiology, Yale University, 12/2017, New Haven, CT

11. Beige-fat-specific regulation in mouse and human, Chinese-American Diabetes Association Scientific Symposium, 06/2018, Orlando, FL

12. Nicotinic acetylcholine receptors in energy metabolism, Keystone Symposia: Obesity and Nonalcoholic Fatty Liver Disease, 02/2020, Banff, Canada

13. A novel metabolic circuitry through acetylcholine and nAChR, NIH Diabetes Research Center Directors' meeting, pilot/feasibility awardee representing UM, 10/2020, Virtual

14. Immune-beige adipocyte communication, Keystone Symposia: Integrating Metabolism and Immunity, 01/2021, Virtual

15. Immune-adipose cross talk via nicotinic acetylcholine receptor signaling, 81st American Diabetes Association Scientific Sessions, 06/2021, Virtual

16. Adrenergic-independent signaling to control adipose thermogenesis, Endocrine Society's Annual Meeting, ENDO 2022, 06/2022, Atlanta, GA

17. A novel metabolic circuitry through acetylcholine and nAChR, **Wu J**, Model Animal Symposium for Adipose Tissue Plasticity and Metabolism, 12/2022, Seoul, South Korea

18. Neurotransmitter signaling in adipose tissue, Keystone Symposia: Adipose tissue-Energizing good fat., 01/2023, Keystone, CO

19. Mitochondrial regulation of thermogenic fat activation, **Wu J**, UMDF Mitochondrial Medicine 2025 conference, United Mitochondrial Disease Foundation (UMDF), 06/2025, St. Louis, MO

20. Organ–Organ Crosstalk and Alcohol-Associated Organ Damage, 49th Annual Research Society on Alcohol Scientific Meeting, 06/2026, San Antonio, Texas

Seminar

1. The unfolded protein response mediates adaptation to exercise in skeletal muscle through a PGC-1alpha/ATF6alpha complex, University of Iowa, 12/2010, Iowa city, IA

2. Molecular regulation of the brown-like ("beige") cells of white fat depots, University of Michigan, 12/2012, Ann Arbor, MI

3. Molecular regulation of the brown-like ("beige") cells of white fat depots, University of Texas, Southwestern Medical Center, 01/2013, Dallas, TX

4. Molecular regulation of the brown-like ("beige") cells of white fat depots, Stanford University, 01/2013, Palo Alto, CA

5. Molecular regulation of the brown-like ("beige") cells of white fat depots, University of California, Berkeley, 01/2013, Berkeley, CA

6. Molecular regulation of the brown-like ("beige") cells of white fat depots, Mount Sinai Medical Center, 04/2013, New York, NY

7. Molecular regulation of the brown-like ("beige") cells of white fat depots, Columbia University, 04/2013, New York, NY

8. Molecular regulation and therapeutic potential of brown and beige fat, Virginia Tech, 08/2014, Blacksburg, VA

9. Beige-fat-specific regulation in mouse and human, Seoul National University, 05/2016, Seoul, South Korea

10. Beige-fat-specific regulation in mouse and human, Korea University, 05/2016, Seoul, South Korea

11. Beige-fat-specific regulation in mouse and human, Wayne State University, 10/2016, Detroit, MI

12. Molecular regulation and therapeutic potential of thermogenic fat, University of Iowa, Fraternal Order of Eagles Diabetes Research Center, 01/2019, Iowa City, IA

13. A novel metabolic circuitry through acetylcholine and nAChR, Ohio State University, 08/2019, Columbus, OH

14. A novel metabolic circuitry through acetylcholine and nAChR, University of Tennessee, 09/2019, Memphis, TN

15. A novel metabolic circuitry through acetylcholine and nAChR, University of Cincinnati, 10/2019, Cincinnati, OH

16. A novel metabolic circuitry through acetylcholine and nAChR, Case Western Reserve University, 10/2019, Cleveland, OH

17. A novel metabolic circuitry through acetylcholine and nAChR, University of Utah, 11/2019, Salt Lake City, UT

18. A novel metabolic circuitry through acetylcholine and nAChR, University of Hawaii, 01/2020, Honolulu, HI

19. A novel metabolic circuitry through acetylcholine and nAChR., University of Toronto, 07/2021, Virtual

20. A novel metabolic circuitry through acetylcholine and nAChR, UC Berkeley, 11/2022, Berkeley, CA

21. A non-neuronal peripheral cholinergic signaling in metabolic homeostasis, TRDB Seminar Series, Louisiana State University, Pennington Biomedical Research Center, 03/2024, Virtual

22. A non-neuronal peripheral cholinergic signaling in metabolic homeostasis, Einstein-MSSM Joint Seminar, Albert Einstein College of Medicine, 05/2024, New York, New York

23. Cholinergic signaling in thermogenic white adipose tissue, Department of Medicine, Karolinska Institutet, Stockholm, Sweden, 05/2024, Virtual

24. A non-neuronal peripheral cholinergic signaling in metabolic homeostasis, Metabolic H-Talk Seminar Series, Chinese Society for Metabolic Biology, 08/2024, Virtual

25. A non-neuronal peripheral cholinergic signaling in metabolic homeostasis, **Wu J**, University of Manitoba, Department of Physiology and Pathophysiology, 04/2025, Manitoba Canada

26. A non-neuronal peripheral cholinergic signaling in metabolic homeostasis., **Wu J**, University of Nebraska, 03/2026, Lincoln, Nebraska

27. TBD, **Wu J**, Genomics Research Center, Academia Sinica, Taiwan, 09/2026, Taipei, Taiwan

Publications/Scholarship

(Co-First Author *; Corresponding author **; Co-Last author ***)

Peer Reviewed

Journal Article

1. Inoki K, Li Y, Zhu T, **Wu J**, Guan K-L: TSC2 is phosphorylated and inhibited by Akt and suppresses mTOR signalling. *Nat Cell Biol*.4(9): 648-657, 09/2002. PM12172553

2. Zhang K, Shen X, **Wu J**, Sakaki K, Saunders T, Rutkowski DT, Back SH, Kaufman RJ: Endoplasmic reticulum stress activates cleavage of CREBH to induce a systemic inflammatory response. *Cell*.124(3): 587-599, 02/2006. PM16469704

3. Scheuner D, Patel R, Wang F, Lee K, Kumar K, **Wu J**, Nilsson A, Karin M, Kaufman RJ: Double-stranded RNA-dependent protein kinase phosphorylation of the alpha-subunit of eukaryotic translation initiation factor 2 mediates apoptosis. *J Biol Chem*.281(30): 21458-21468, 07/2006. PM16717090

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