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EDUCATION

- 2001 Ph.D. in Microbiology & Immunology, University of California at San Francisco, California, USA
- 1994 M.S. in Zoology, National Taiwan University, Taipei, Taiwan
- 1992 B.S. in Zoology, National Taiwan University, Taipei, Taiwan

PROFESSIONAL EXPERIENCES

- 2018 - Associate Professor with Tenure, Department of Physiology, UT Southwestern Medical Center, Dallas, Texas, USA
- 2009 - 2018 Assistant Professor, Department of Physiology, UT Southwestern Medical Center, Dallas, Texas, USA
- 2003 - 2009 Research Associate, Department of Chemical & Systems Biology, Stanford University Medical Center, Stanford, California, USA
- Mentor: Dr. Tobias Meyer
- 2001 - 2005 Scientist, Alliance for Cellular Signaling, Stanford University Medical Center, Stanford, California, USA
- 2001 - 2003 Postdoctoral Fellow, Department of Molecular Pharmacology, Stanford University Medical Center, Stanford, California, USA
- Mentor: Dr. Tobias Meyer
- 1994 - 2001 Ph.D. thesis research, Howard Hughes Medical Institute, University of California at San Francisco, California, USA
- Mentor: Dr. Arthur Weiss
- 1992 - 1994 Master thesis research, Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan
- Mentor: Dr. Tang K. Tang
- 1991 - 1992 Undergraduate research, Department of Zoology, National Taiwan University, Taipei, Taiwan
- Mentors: Dr. Chu-Fang Lo and Dr. Guang-Hsiung Kuo

HONORS AND AWARDS

2009	UT Southwestern Endowed Scholar in Biomedical Sciences
2009	Biophysical Society Annual Meeting Symposium talk
2008	Keystone Symposia Scholarship
2001	Graduate Division Travel Grant, Graduate Division, UCSF
1997 - 1999	Graduate Dean's/Anthony Fellowship in Immunology, Graduate Division, UCSF
1992	Research Creativity Award for outstanding research project, National Science Council, Taiwan

PROFESSIONAL MEMBERSHIPS

American Society for Cell Biology

PROFESSIONAL SERVICES

Senior Editor for the Journal "*Contact*".

Ad-hoc Reviewer for Journals including *Nature Reviews Molecular Cell Biology*, *eLife*, *the EMBO Journal*, *Journal of Cell Biology*, *Scientific Reports*, *Proceedings of the National Academy of Sciences*, *Biochemistry*, *Cell Calcium*, *Oncogene*, *Journal of Neuroscience*, *PLOS One*, *Journal of Applied Physics*, *Biomedical Research International*, *Cell Cycle*.

Ad-hoc Grant Reviewer for the Molecular and Integrative Signal Transduction [MIST] study session of National Institute of Health (NIH) and the CURE Program of Pennsylvania Department of Health.

UT Southwestern SERVICES

2017-present	Graduate School Awards Committee as a representative of the Cell and Molecular Biology Graduate Program
2016-present	Volunteer of the STARS (Science Teacher Access to Resources at Southwestern) program
2015-present	Core Curriculum Committee for the 1 st year graduate students
2014-present	Program Planning Committee for the Cell and Molecular Biology Ph.D. Program

2013-2016 Faculty Senate for the Department of Physiology

2010-present Chair or Member of Qualifying Exam or Thesis Committees for Ph.D. students

TEACHING

2018 Cell and Molecular Biology Graduate Program Journal Club Moderator

2016-present Lecturer on Ca²⁺ Signaling in the Core Course for first year Ph.D. students

2016 Cell and Molecular Biology Graduate Program Journal Club Discussion Leader

2015-present Cells Thread Discussion Group Coordinator for first year Ph.D. students

2015-present Module Facilitator in Special Topics in Cell Biology for Cell and Molecular Biology Ph.D. students

2015-present Evaluator of Work-in-Progress for Cell and Molecular Biology Ph.D. students

2015-present Discussion leader of the Graduate School Responsible Conduct of Research course

2014-present Lecture on Blood and Immunity in Human Physiology Course for Health Care Professional students

2012-2014 Facilitator of the Convergence Course for Inter-professional Group Discussions

2011-present Lecture on Blood and Immunity in Human Physiology Course for Ph.D. students in the Mechanisms of Disease and Translational Science (MoD) Track

2011-2015 Cells Thread Discussion Group Leader for first year Ph.D. students

LAB TRAINEES

Chi-Lun Chang	2010-14	Ph.D. Student (Integrative Biology/Mechanism of Disease)
	2014	Selected to give a mini-symposium talk at the ASCB meeting
	2014-16	Postdoc
	2016-	Postdoc at Jennifer Lippincott-Schwartz's lab at HHMI Janelia Campus
Shuai Zhang	2010-11	Postdoc
	2011-	Product specialist at Malvern Instruments in Shanghai, China
Nicole Aponte	2012	Summer Undergraduate Research Fellowship (SURF)
	2013-	Ph.D. student at MIT
Yu-Ju Chen	2013-	Postdoc
	2016	Selected to give a mini-symposium talk at the ASCB meeting

Ting-Sung Hsieh	2013-18	Ph.D. Student (Molecular Biophysics)
	2017	Selected to give a mini-symposium talk at the ASCB meeting
	2018-	Postdoc at Vincent Tagliabracci's lab at UT Southwestern
Carlo Quintanilla	2016-	Ph.D. Student (Cell and Molecular Biology)

INVITED SEMINARS/ORAL PRESENTATIONS

Invited speaker, Loyola University Chicago, Illinois, USA, October 11, 2018 (Scheduled).

Invited speaker, Gordon Research Conference on Lysosomes and Endocytosis, Andover, NH, USA, June 17, 2018.

Invited speaker, FASEB Summer Research Conference on Calcium and Cell Function, Tahoe City, CA, USA, June 10, 2018.

Invited speaker, Conference on Signaling at Membrane Contact Sites, Doha, Qatar, April 28-29, 2018.

Seminar at the STARS mini-Symposium "Using Cutting-Edge Microscopy to Understand Cell Dynamics" University of Texas Southwestern Medical Center, Dallas, TX, USA, April 2, 2018.

Invited speaker, Keystone Symposium on Phosphoinositide Biology, Taos, New Mexico, USA, February 12, 2018.

Seminar at the HHMI Janelia Research Campus, Ashburn, Virginia, USA, December 8, 2017.

Seminar at the National Institute of Health (NIH), Bethesda, Maryland, USA, December 7, 2017.

Oral Presentation at the EMBO Symposium "Molecular and Cellular Biology of Membranes", Heidelberg, Germany, May 23, 2017.

Seminar at the Department of Cell Biology, University of Texas Southwestern Medical Center, Dallas, TX, USA, October 11, 2016.

Seminar at the Department of Physiology, Baylor College of Medicine, Houston, TX, USA, September 27, 2016.

Invited speaker, FASEB Summer Research Conference on Calcium and Cell Function, Lisbon, Portugal, June 16, 2016.

Seminar at the Department of Cell Biology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA, April 26, 2016.

Seminar at the Genome and Systems Biology Program of Academia Sinica, National Taiwan University, Taipei, Taiwan, March 30, 2016.

Seminar at the Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan, March 29, 2016.

Seminar at the STARS mini-Symposium, How Organelles Talk to One Another, University of Texas Southwestern Medical Center, Dallas, TX, USA, January 11, 2016.

Seminar at the Department of Biochemistry, Weill Cornell Medical College, New York, NY, USA, October 8, 2015.

Oral presentation at Signalling 2015: Cellular Functions of Phosphoinositides and Inositol Phosphates, Cambridge, UK, September 3, 2015.

Seminar at the College of Life Science, National Taiwan University, Taipei, Taiwan, December 19, 2014.

Oral presentation at the FASEB Summer Research Conference on Phospholipid Cell Signaling and Metabolism in Inflammation and Cancer, Niagara Falls, NY, USA, June 4, 2014.

Invited speaker, NTU-UTSW Joint Symposium-Frontier of Biological Sciences, Taipei, Taiwan, May 9, 2014.

Seminar at the Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan, December 30, 2013.

Oral presentation at the Minisymposium: Membrane Organization and Lipid Dynamics, the annual meeting of The American Society for Cell Biology (ASCB), San Francisco, CA, December 19, 2012.

Seminar at the Department of Pharmacology, University of Texas Southwestern Medical Center, TX, March 15, 2012.

Norman W. Carter Lecture at the O'Brian Center, University of Texas Southwestern Medical Center, TX, April 7, 2011.

Seminar at the Department of Life Science, National Taiwan University, Taipei, Taiwan, December 27, 2010.

Seminar at the Center of Mineral Metabolism, University of Texas Southwestern Medical Center, Dallas, TX, June 25, 2010.

Seminar at the Department of Cell Biology, University of Texas Southwestern Medical Center, Dallas, TX, September 15, 2009.

Seminar at the Department of Cell Biology, Yale University School of Medicine, New Haven, CT, March 26, 2009.

Seminar at the Department of Physiology, Johns Hopkins University School of Medicine, Baltimore, MD, March 5, 2009.

Symposium talk on Calcium Release-activated Calcium Channels, Biophysical Society 53rd Annual Meeting, Boston, MA, March 1, 2009.

Seminar at the Vollum Institute, Oregon Health Science University, Portland, OR, January 8, 2009.

Seminar at the Genomics Research Center, Academia Sinica, Taipei, Taiwan, December 18, 2008.

Seminar at the Department of Physiology, University of Pennsylvania School of Medicine, Philadelphia, PA, December 9, 2008.

Seminar at the Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX, October 10, 2008.

Oral presentation at the siRNA Screening for Drug Discovery Workshop, Assays & Cellular Targets Conference, San Diego, CA, September 24, 2008.

Seminar at the Cell Biology Program, Sloan-Kettering Institute, New York, NY, February 25, 2008.

Oral presentation at the Keystone Symposium on Molecular Basis for Biological Membrane Organization, Big Sky, MT, January 14, 2008.

Seminar at the Department of Molecular Biophysics and Physiology, Rush University, Chicago, IL, December 6, 2007.

Oral presentation at the Minisymposium: Regulatory Roles of Lipid Microdomains, the annual meeting of The American Society for Cell Biology (ASCB), Washington DC, December 5, 2007.

Seminar at the Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan, June 14, 2007.

Oral presentation at the Platform: Calcium Signaling Pathways, the annual meeting of the Biophysical Society, Baltimore, MD, March 6, 2007.

Oral presentation at the FASEB Summer Research Conference on Signal Transduction in the Immune System, Saxton's River, VT, USA, July, 2000.

PUBLICATIONS [*: Corresponding author]

Kuo YC, He X, Coleman AJ, Chen YJ, Dasari P, **Liou J**, Biederer T, Zhang X. **(2018)** "Structural analyses of FERM domain-mediated membrane localization of FARP1." *Sci Rep.* 2018 Jul 11;8(1):10477.

Chang CL, Chen YJ, **Liou J***. **(2018)** "EB1 binding provides a diffusion trap mechanism regulating STIM1 localization and Ca²⁺ signaling." *J Cell Biol.* 217(6):2047-2058.

- *Featured in J Cell Biol. Spotlight article Wang QC, Wang X, Tang TS. (2018) "EB1 traps STIM1 and regulates local store-operated Ca²⁺ entry." May 15. pii: jcb.201805037.*

Hsieh TS, Chang CL, Lee WR, **Liou J***. (2017) "Cortical actin contributes to spatial organization of ER-PM junctions." *Mol Biol Cell*. 28:3171-3180.

- Published in the Special Issue on Quantitative Cell Biology
- Rated as "Very Good" and recommended by Faculty of 1000.

Chen YJ, Chang CL, Lee WR, **Liou J***. (2017) "RASSF4 controls SOCE and ER-PM junctions through regulation of PI(4,5)P₂." *J Cell Biol*. 216(7):2011-2025.

- Featured in *J Cell Biol. Spotlight article Dickson EJ (2017) "RASSF4: Regulator of plasma membrane PI(4,5)P₂." 216:1879-1881. doi: 10.1083/jcb.201706042.*

Chang CL, Chen YJ, **Liou J***. (2017) "ER-plasma membrane junctions: Why and how do we study them?" *Biochim Biophys Acta*. 1864(9):1494-1506.

- Invited Review for the special issue of "Membrane Contact Sites"

Chang CL, **Liou J***. (2016) "Homeostatic regulation of the PI(4,5)P₂-Ca²⁺ signaling system at ER-PM junctions." *Biochim Biophys Acta*. 1861:862-873.

- Invited Review for the special issue of "The Cellular Lipid Landscape"

Henne WM, **Liou J**, Emr SD. (2015) "Molecular mechanisms of inter-organelle ER-PM contact sites.", *Curr Opin Cell Biol*. 35:123-130.

Chang CL, **Liou J***. (2015) "Phosphatidylinositol 4,5-Bisphosphate Homeostasis Regulated by Nir2 and Nir3 Proteins at Endoplasmic Reticulum-Plasma Membrane Junctions.", *J Biol Chem*. 290:14289-301.

Liou J*, Chang CL. (2015) "Unveiling physiological functions of extended synaptotagmins", *Cell Cycle*, 14:800-01.

Anderson DM, Anderson KM, Chang CL, Makarewich CA, Nelson BR, McAnally JR, Kasaragod P, Shelton JM, **Liou J**, Bassel-Duby R, Olson EN. (2015) "A micropeptide encoded by a putative long noncoding RNA regulates muscle performance", *Cell*, 160:595-606.

Chang CL, Hsieh TS, Yang TT, Rothberg KG, Azizoglu DB, Volk E, Liao JC, **Liou J***. (2013) "Feedback regulation of receptor-induced Ca²⁺ signaling mediated by E-Syt1 and Nir2 at endoplasmic reticulum-plasma membrane junctions", *Cell Rep*, 5:813-25.

Liou J*, Meyer T*. (2013) "Septins set the stage for Orai1 to bind STIM1 at ER-PM junctions", *Dev Cell*. 26:116-8.

Limnander A, Depeille P, Freedman TS, **Liou J**, Leitges M, Kurosaki T, Roose JP, Weiss A. (2011) "Stim1, PKCδ and RasGRP proteins set a threshold for pro-apoptotic Erk signaling during B cell development", *Nature Immunology*, 12:425-33.

Brandman O, **Liou J**, Park WS, Meyer T. (2007) "STIM2 is a feedback regulator that stabilizes basal cytosolic and endoplasmic reticulum Ca²⁺ levels", *Cell*, 131:1327-39.

- *Featured in Science Signaling (2008) 1:ec5.*
- *Rated as "Must Read" by Faculty of 1000.*

Galvez T, Teruel MN, Heo WD, Jones JT, Kim ML, **Liou J**, Myers JW, Meyer T. (2007) "siRNA screen of the human signaling proteome identifies the PtdIns(3,4,5)P₃-mTOR signaling pathway as a primary regulator of transferrin uptake", **Genome Biol**, 8:R142.

Liou J*, Fivaz M, Inoue T, Meyer T*. (2007) "Live-cell imaging reveals sequential oligomerization and local plasma membrane targeting of STIM1 following Ca²⁺ store depletion", **Proc. Natl. Acad. Sci. USA**, 104:9301-06.

- *Featured in J. Cell Biol. (2007) "Steps to STIMulation", 177:947.*
- *Featured in THE SCIENTIST (2008) "Calcium Signaling: STIM revisited".*

Liou J, Kim ML, Heo WD, Jones JT, Myers JW, Ferrell JE Jr., Meyer T. (2005) "STIM is a calcium sensor essential for calcium-store-depletion-triggered calcium influx", **Current Biology**, 15:1235-41.

- *Selected as a Signaling Breakthrough of 2005 by Science STKE.*
- *Selected as a "Hot Paper" by ISI Essential Science Indicator of Thomson Scientific.*
- *Featured in Science STKE (2005) 293:tw262.*
- *Featured in THE SCIENTIST (2007) October, p.79.*
- *Rated as "Exceptional" by Faculty of 1000.*

Gilman AG, Simon MI, Bourne HR, Harris BA, Long R, Ross EM, Stull JT, Taussig R, Bourne HR, Arkin AP, Cobb MH, Cyster JG, Devreotes PN, Ferrell JE, Fruman D, Gold M, Weiss A, Stull JT, Berridge MJ, Cantley LC, Catterall WA, Coughlin SR, Olson EN, Smith TF, Brugge JS, Botstein D, Dixon JE, Hunter T, Lefkowitz RJ, Pawson AJ, Sternberg PW, Varmus H, Subramaniam S, Sinkovits RS, Li J, Mock D, Ning Y, Saunders B, Sternweis PC, Hilgemann D, Scheuermann RH, DeCamp D, Hsueh R, Lin KM, Ni Y, Seaman WE, Simpson PC, O'Connell TD, Roach T, Simon MI, Choi S, Eversole-Cire P, Fraser I, Mumby MC, Zhao Y, Brekken D, Shu H, Meyer T, Chandy G, Heo WD, **Liou J**, O'Rourke N, Verghese M, Mumby SM, Han H, Brown HA, Forrester JS, Ivanova P, Milne SB, Casey PJ, Harden TK, Arkin AP, Doyle J, Gray ML, Meyer T, Michnick S, Schmidt MA, Toner M, Tsien RY, Natarajan M, Ranganathan R, Sambrano GR. (2002) "Overview of the Alliance for Cellular Signaling", **Nature**, 420: 703-6.

Sauer K[^], **Liou J[^]**, Singh SB, Yablonski D, Weiss A, Perlmutter RM. (2001) "The kinase HPK1 associates physically and functionally with the adaptor proteins BLNK and SLP-76 in lymphocytes", **J Biol Chem**. 276: 45207-16. [[^]: Co-first authors]

Arnold R, **Liou J**, Drexler HC, Weiss A, Kiefer F. (2001) "Caspase-mediated cleavage of hematopoietic progenitor kinase 1 (HPK1) converts an activator of NFκB into an inhibitor of NFκB", **J Biol Chem**. 276: 14675-84.

Liou J, Kiefer F, Dang A, Hashimoto A, Cobb MH, Kurosaki T, Weiss A. (2000) "HPK1 is activated by lymphocyte antigen receptors and negatively regulates AP-1", **Immunity**, 12: 399-408.

- *Featured in Science STKE (2000) 29:tw6.*

PATENT

- Liou J and Meyer T. "Calcium biosensor polypeptides and methods of use", U.S. Patent No.7,481,994.

RESEARCH SUPPORT

NIH– Liou (PI) 12/1/2015 – 11/30/2020

R01 GM113079

"Functions and Regulation of Endoplasmic Reticulum-Plasma Membrane Junctions"

Welch Foundation – Liou (PI) 6/1/2012 – 5/31/2018

I-1789

"Novel Imaging Probes for Investigating ER Membrane Contact Sites"

Sowell Family Scholar in Medical Research– Liou (PI)

9/2/2009 – present

Endowed Scholars at UT Southwestern Medical Center