

KIMBERLY MULLIGAN, PhD

Associate Professor of Biological Sciences

(916) 278-4064
kimberly.mulligan@csus.edu
www.mulliganlab.com
6000 J St, Sacramento, CA 95819-6077

EDUCATION

PhD 2008	Stanford University , Stanford, CA Developmental Biology
BS 1999	University of California at San Diego , La Jolla, CA Biochemistry and Cell Biology

POSITIONS & TRAINING

2020 - current	Associate Professor of Biological Sciences California State University, Sacramento
2015 - 2020	Assistant Professor of Biological Sciences California State University, Sacramento
2014	Lecturer, Biological Sciences California State University, Sacramento
2011 - 2012	NIH Ruth L. Kirschstein NRSA Postdoctoral Fellow University of California, San Francisco (UCSF) Department of Psychiatry, Center for Molecular Neurodevelopment <u>Project:</u> Functional analysis of Dixdc1, a candidate risk gene for neuropsychiatric illness, in mammalian embryonic neurodevelopment Advisor: Benjamin Cheyette, M.D., PhD
2008 - 2011	Postdoctoral Research Stanford University Department of Developmental Biology <u>Project:</u> CIRM-funded initiative to optimize the expression and purification of Wnt proteins for liposome-mediated delivery to stem cell populations. Advisor: Roel Nusse, PhD
2001 - 2008	Doctoral Research Stanford University Department of Developmental Biology <u>Dissertation:</u> Molecular characterization of Swim, a novel Wnt binding protein that promotes long-range signaling in the developing wing disc by maintaining Wingless solubility in the extracellular space. Advisor: Roel Nusse, PhD

COURSES TAUGHT

BIO227 | Developmental Biology & Regenerative Medicine

BIO 220 | Introduction to Scientific Inquiry
 BIO 294A | Seminar in Molecular and Cellular Biology
 BIO186A | Cell and Molecular Biology Seminar
 BIO 127 | Developmental Biology
 BIO121 | Molecular Cell Biology
 BIO 100 | Introduction to Scientific Analysis
 BIO2, Laboratory section | Introduction to Cells, Molecules and Genes

PEER-REVIEWED PUBLICATIONS

* undergraduate mentee; ** graduate or postbaccalaureate mentee

- 2025 Cantua, R. ** **Mulligan, K.** Developmental Neurotoxicity of Bisphenol F and Bisphenol S in Animal Model Systems: A Literature Review. *Neurotoxicology*, S0161-813X(25)00043-9. 23 Apr. 2025, <https://doi.org/10.1016/j.neuro.2025.04.008>
- 2025 Niosi, A.**; Vő, N. H.*, Sundaramurthy, P., Welch, C.**; Penn, A. *, Yuldasheva, Y. *, Alfareh, A. *, Rausch, K. *, Amin-Rahbar, T. *, Cavanaugh, J., Yadav, P., Peterson, S. *, Brown, R. *, Hu, A. *, Ardon-Castro, A. *, Nguyen, D. *, Crawford, R., Lee, W., Morris, E. J., Jensen, M. H., **Mulligan, K.** Kismet/CHD7/CHD8 affects gut microbiota, mechanics, and the gut-brain axis in *Drosophila melanogaster*. *Biophysical journal* vol. 124,6 (2025): 933-941. <https://doi.org/10.1016/j.bpj.2024.06.016>
- 2024 Fishburn JLA**, Larson HL**, Nguyen A, Welch CJ**, Moore T*, Penn A*, Newman J*, Mangino A*, Widman E*, Ghobashy R*, Witherspoon J*, Lee W, & **Mulligan K.** Bisphenol F affects neurodevelopmental gene expression, mushroom body development, and behavior in *Drosophila melanogaster*. *Neurotoxicol Teratol*. Published online January 30, 2024. [doi:10.1016/j.ntt.2024.107331](https://doi.org/10.1016/j.ntt.2024.107331)
- 2022 Welch C** and **Mulligan K.** Evaluating learning and memory in *Drosophila melanogaster* to study the neurodevelopmental impacts of toxicants. *Current protocols*, 2(10), e576. <https://doi.org/10.1002/cpz1.576>
- 2022 Welch C** and **Mulligan K.** Is bisphenol A a risk factor for neurodevelopmental disorders? What we've learned from developmental neurotoxicity studies in animal models. Invited Review. *International Journal of Molecular Sciences*, 23(5), 2894. <https://doi.org/10.3390/ijms23052894>
- 2022 Welch C**, Johnson E, Tupikova A**, Anderson J**, Tinsley B**, Newman J*, Widman E*, Alfareh A*, Davis A*, Rodriguez L, Visger C, Miller-Schulze JP, Lee W, and **Mulligan K.** Bisphenol A affects neurodevelopmental gene expression, cognitive function, and neuromuscular synaptic morphology

in *Drosophila melanogaster*. *NeuroToxicology*, 89, Pages 67-78, ISSN 0161-813X, <https://doi.org/10.1016/j.neuro.2022.01.006>.

- 2021 Nguyen U**, Tinsley B**, Sen Y*, Stein J*, Palacios Y*, Ceballos A*, Welch C*, Nzenkue K*, Penn A*, Murphy L*, Leodones K*, Casiquin J*, Ivory I*, Ghenta K*, Danziger K*, Widman E*, Newman J*, Triplehorn M*, Hindi Z*, **Mulligan K**. Exposure to bisphenol A differentially impacts neurodevelopment and behavior in *Drosophila melanogaster* from distinct genetic backgrounds. *NeuroToxicology*, 82, Pages 146-157, ISSN 0161-813X, doi.org/10.1016/j.neuro.2020.12.007
- 2020 Poston RG, Murphy LN*, Rejepova A, Ghaninejad-Esfahani M, Joshua Segales J, **Mulligan K**, Saha RN. Specific ortho-hydroxylated brominated ethers inhibit neuronal MEK-ERK signaling and disrupt neurodevelopmental processes. *J. Biol. Chem.* jbc.RA119.011138. doi:10.1074/jbc.RA119.011138
- 2018 Martin PM, Stanley RE, Ross AP, Freitas AE, Moyer CE, Brumback AC, lafrati J, Stapornwongkul KS, Dominguez S, Kivimae S, **Mulligan KA**, Pirooznia M, McCombie WR, Potash JB, Zandi PP, Purcell SM, Sanders SJ, Zuo Y, Sohal VS, Cheyette BNR. *DIXDC1* contributes to psychiatric susceptibility by regulating dendritic spine and glutamatergic synapse density via GSK3 and Wnt/ β -catenin signaling. *Mol Psych*, Oct 18. doi: 10.1038
- 2017 **Mulligan KA** and Cheyette B. Neurodevelopmental Perspectives on Wnt Signaling in Psychiatry. Invited Review. *Mol Neuropsych*, Jan 13. (2) 219-246
- 2014 Dhamdhere GR, Fang MY, Jiang J, Lee K, Cheng D, Olveda RC, Liu, B, **Mulligan KA**, Carlson J, Ranson R, Weis W, Helms J. Drugging a Stem Cell Compartment Using Wnt3a Protein as a Therapeutic. *PLoS ONE* 9(1): e83650. <https://doi.org/10.1371/journal.pone.0083650>
- 2012 **Mulligan KA** and Cheyette B. Wnt signaling in vertebrate neural development and function. Invited Review. *J NeuroImmune Pharmacol*. Dec; 7(4) 774-87
- 2012 **Mulligan KA**, Fuerer C, Ching W, Willert K, Fish M, Nusse R. Secreted-Wingless interacting molecule (Swim) promotes long-range signaling by maintaining Wingless solubility. *Proc Natl Acad Sci USA*. Jan10;109(2):370-7
- 2008 Nusse R, Fuerer C, Ching W, **Harnish K***, Logan C, Zeng A, ten Berge D, Kalani Y. Wnt signaling and stem cell control. *Cold Spring Harb Symp Quant Biol*. Nov (73) 59-66. Review

2004 Johnson ML, **Harnish K***, Nusse R, Van Hul W. LRP5 and Wnt signaling: a union made for bone. *J Bone Mineral Research*. Nov;19 (11):1749-57.
Review

* Kimberly Harnish is my maiden name

BOOK CHAPTER

2016 **Mulligan K** and Cheyette B "Introduction to Wnt signaling" *Inborn Errors of Development*, 3rd Edition, Oxford University Press

AWARDS AND FELLOWSHIPS

Teaching/Pedagogy Development Awards

2024 STEM4Equity Mini-Grant (CSUS, Center for Teaching and Learning)
 2023 – 2024 Pedagogy Enhancement Award (CSUS, Center for Teaching and Learning)
 2022 – 2023 Academic Affairs/Division of Inclusive Evidence Award (CSUS)
 2018 – 2019 Outstanding Teaching Award (CSUS, College of Natural Sciences and Mathematics)
 2018 – 2019 Pedagogy Enhancement Award (CSUS, Center for Teaching and Learning)
 2017 – 2018 Pedagogy Enhancement Award (CSUS, Center for Teaching and Learning)
 2016 – 2017 Promising Practices Course Redesign with Technology Award (CSU Chancellor's Office)

Mentorship Awards

2018 - 2019 SEE Outstanding Faculty Mentor Award (CSUS, Science Educational Equity Program Award)
 2017 – 2018 Exceptional Assigned Time Committee Award (CSUS, Faculty Senate Subcommittee Award)

Programmatic Awards

2021 – 2026 California Institute of Regenerative Medicine (CIRM) EDUC2 Bridges Award (\$2,946,500; CIRM Award); Role: PI

Research Awards

2024 – 2027 National Institutes of Environmental Health Sciences R15 AREA Award (\$421,705; NIH Award); Role: PI
 2025 – 2026 Research and Creative Activities Award (\$10,000; CSUS Award); Role: PI
 2024 – 2025 Research and Creative Activities Award (\$10,000; CSUS Award); Role: PI
 2024 – 2025 G2E Award (\$2,500; CSUS Award); Role: PI
 2024 – 2025 Research Enhanced Support Grant (3 WTU; CSUS Award); Role: PI
 2019 – 2024 National Institutes of Health SCORE (SC2) Pilot Award (\$426,000; NIH Award); Role: PI
 2023 – 2024 G2E Award (\$2,500; CSUS Award); Role: PI

2023 – 2024	Instructionally Related Activities Award (\$6,500; CSUS, Associated Students Incorporated Award); Role: PI
2022 – 2023	Research and Creative Activities Award (\$7,500; CSUS Award); Role: PI
2022 – 2023	G2E Award (\$2,500; CSUS Award); Role: PI
2021 – 2022	Research and Creative Activities Award (\$7,500; CSUS Award); Role: PI
2021 – 2022	G2E Award (\$2,500; CSUS Award); Role: PI
2020 – 2021	CSUPERB New Investigator Research Award (\$15,000; CSU-wide award) Role: co-PI
2020 – 2021	Instructionally Related Activities Award (\$5,500; CSUS, Associated Students Incorporated Award); Role: PI
2020 – 2021	Research and Creative Activities Award (\$7,500; CSUS Award); Role: co-PI
2020 – 2021	Goethe Research Award (\$5,000; CSUS Award); Role: PI
2019 – 2020	Goethe Research Award (\$5,000; CSUS Award); Role: PI
2019 – 2020	Instructionally Related Activities Award (\$7,500; CSUS, Associated Students Incorporated Award); Role: PI
2019 – 2020	Sac State Retirees Faculty Development Award (\$500; CSUS Award); Role: Awardee (not an aim-related award)
2019 – 2020	Research and Creative Activities Award (\$7,500; CSUS Award); Role: PI
2018 – 2019	Instructionally Related Activities Award (\$7,000; CSUS, Associated Students Incorporated Award); Role: PI
2018 – 2019	Research and Creative Activities Award (\$7,500; CSUS Award); Role: PI
2018 – 2019	Goethe Research Award (\$2,500; CSUS Award); Role: PI
2018	Faculty Research Incentive Grant (\$2,500; CSUS Award)
2017 – 2018	CSUPERB New Investigator Research Award (\$15,000; CSU-wide award); Role: PI
2017 – 2018	Research and Creative Activities Award (\$7,500; CSUS Award); Role: PI
2017 – 2018	Instructionally Related Activities Award (\$5,759; CSUS, Associated Students Incorporated Award); Role: PI
2017 – 2018	Goethe Research Award (\$2,500; CSUS Award); Role: PI
2016 – 2017	CSUPERB New Investigator Research Award (\$15,000; CSU-wide award)
2016 – 2017	CSUPERB Travel Award (\$1,500; CSU-wide award); Role: PI
2015 – 2016	Provost's Research Incentive Funds Award (\$5,000; CSUS Award)
2011 – 2012	NIH Ruth L. Kirschstein NRSA T32 Fellowship (postdoctoral training grant)
2002 – 2005	Stanford Graduate Fellowship (Stanford University doctoral training grant)

Other Awards

2025	Woman of Influence Award, faculty category (CSUS)
2023	Educational Advocacy Award (CSUS, Multicultural Center)
2022	Early Career Faculty Award for Research, Scholarship and Creative Activities (CSUS)
2021	Woman of Influence Award, faculty category (CSUS)

2021	Academic Sabbatical, <i>Determining the Neurodevelopmental Impacts of Bisphenol Exposure</i> , "Best of Proposals Submitted" awarded Feb 2021
2020	Awarded Early Tenure (CSUS)

SELECTED SEMINARS

2023	<i>What fruit flies can tell us about environmental risk factors for neurodevelopmental disorders.</i> CSU Long Beach Research Seminar Series
2021	<i>Getting STEM-FIT! STEM-Forum for Inclusive Teaching as a Model for Broad Dissemination of Inclusive Teaching Practices</i> Accelerating Systemic Change Network (ASCN), Transforming Institutions Conference
2021	<i>Use of an inclusive summative assessment increases deep learning and reduces test anxiety in an undergraduate molecular cell biology course.</i> 62 nd Annual Drosophila Genetics Research Conference
2020	<i>Using fruit flies to identify autism risk factors.</i> STEM Scholars Lecture, Sacramento State (Archived lecture recording: https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/stem-lecture-archive.html)
2019	<i>Using Drosophila melanogaster to identify chemicals that confer risk of neurodevelopmental disorders.</i> West Coast Regional Society for Developmental Biology Conference
2019	<i>Using Drosophila melanogaster to identify chemicals that confer risk of neurodevelopmental disorders.</i> CSUPERB 31 st Annual Biotechnology Symposium.
2018	<i>Using the Common Fruit Fly to Study Autism.</i> Sacramento Area Science Project—Science in the River City (an educational partnership between University of California, Davis and Sacramento State University)
2017	<i>Developing Drosophila melanogaster as a Tool to Identify Factors that Confer Risk of Autism.</i> San Francisco State University Seminar Series.

RESEARCH MENTORING ACTIVITIES

Total number of research students mentored = 98

Current research students = 1 graduate student, 7 undergraduates

Undergraduate student alumni = 81

Graduate student lab alumni = 9

(Complete list of lab alumni: <https://www.mulliganlab.com/people>)

SELECTED STUDENT POSTERS & PRESENTATIONS

(Only external conferences are included here; students also present their research at three annual on-campus research symposiums)

- | | |
|------|--|
| 2024 | Marsh C, and Mulligan K. "Bisphenol F & Bisphenol S affect Neurodevelopmental Gene Expression & Behavior in <i>Drosophila melanogaster</i> " West Coast Biological Sciences Undergraduate Research Conference |
| 2024 | Glaesman I, and Mulligan K "Antibiotic depletion of gut microbiota affects courtship behavior in <i>Drosophila melanogaster</i> " West Coast Biological Sciences Undergraduate Research Conference |
| 2024 | Castañon Z, and Mulligan K "Bisphenol S affects Neural Stem Cell Development in <i>Drosophila melanogaster</i> " West Coast Biological Sciences Undergraduate Research Conference |
| 2024 | Deol S, Zaki Z, and Mulligan K "Depletion of Gut Microbiota Does Not Affect Axon Guidance in <i>Drosophila melanogaster</i> " West Coast Biological Sciences Undergraduate Research Conference |
| 2024 | Glaesman I and Mahyar Z. "Antibiotic depletion of gut microbiota affects courtship behavior in <i>Drosophila melanogaster</i> " CSU Wide Research Competition |
| 2024 | DeBaets H, Welch C, Lee W, Mulligan K "Exploring Gene Expression changes in <i>Drosophila melanogaster</i> treated with 50µM and 1µM Bisphenol A" 36th Annual CSU Biotechnology Symposium |
| 2023 | Tanveer A, Zaki Z, and Mulligan K "Bisphenol A differentially impacts neurodevelopment phenotypes in <i>Drosophila melanogaster</i> " Northern California Society for Environmental Toxicology and Chemistry (NorCal SETAC) Meeting |
| 2023 | Castañon Z, Tanveer A, and Mulligan K "Bisphenol A differentially impacts neurodevelopment phenotypes in <i>Drosophila melanogaster</i> " Society for Developmental Biology West Coast Regional Meeting |
| 2023 | Kaur R, Marsh C, and Mulligan K. "Kismet affects the gut microbiome in <i>Drosophila melanogaster</i> " CSU Wide Research Competition |
| 2023 | Castañon Z and Mulligan K. "Bisphenol A affects neural stem cell development in <i>Drosophila</i> " West Coast Biological Sciences Undergraduate Research Conference |

- 2023 Elliessy S and Mulligan K. "Bisphenol A affects axon guidance in *Drosophila*" **West Coast Biological Sciences Undergraduate Research Conference**
- 2023 Affas H, Tanveer A and Mulligan K. "Kismet affects gastrointestinal phenotypes in *Drosophila melanogaster*" **West Coast Biological Sciences Undergraduate Research Conference**
- 2023 Kaur R, Marsh C, and Mulligan K. "Kismet affects the gut microbiome in *Drosophila melanogaster*" **West Coast Biological Sciences Undergraduate Research Conference**
- 2023 Tran C, Eby W, Morris E, Jensen M, and Mulligan K. "Kismet affects the gut-brain axis in *Drosophila*" **35th CSUPERB Annual Biotechnology Symposium**
- 2023 Taylor, J., Yull, J., and Mulligan K. "Bisphenol A affects neural stem cell development and courtship activity in *Drosophila melanogaster*" **35th CSUPERB Annual Biotechnology Symposium**
- 2022 Elliessy, S. and Mulligan K. "Developmental mechanisms of Kismet/CHD7/CHD8 in the gut-microbiome-brain axis of *Drosophila melanogaster*" **Society for Developmental Biology 81st Annual Meeting**
- 2022 Anderson J, Raghulan R, Lee W, and Mulligan K. "Bisphenol A affects neurodevelopmental gene expression, cognitive function, and synapse development in *Drosophila melanogaster*" **34th CSUPERB Annual Biotechnology Symposium**
- 2021 Penn A and Mulligan K. "Kismet/CHD7/CHD8 affects gut biomechanics, the gut microbiome, and gut-microbiome-brain axis in *Drosophila melanogaster*" **West Coast Regional Society for Developmental Biology Meeting (Oral presentation)**
- 2021 Penn A, Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Murphy L, Widman E, Newman J, and Mulligan K "Bisphenol A Exposure Differentially Impairs Neurodevelopmental Phenotypes in Wild-Type *Drosophila* and in a *Drosophila* Model of Fragile X Syndrome" **Annual Biomedical Research Conference for Minority Students (ABRCMS)**
- 2021 Nzenkue K and Newman J "Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **33rd CSUPERB Annual Biotechnology Symposium**
- 2021 Niosi A, Vo N, Amin-Rahbar T, Welch C, Nguyen D, Lew A, Hu A, Crawford R, and Mulligan K "The autism-associated chromatin modifier, Chromodomain Helicase DNA Binding Protein 8, affects gastrointestinal

phenotypes in *Drosophila melanogaster*" **33rd CSUPERB Annual Biotechnology Symposium**

- 2021 Tupikova A, Aldafari S, and Mulligan K "Measuring the Impact of Bisphenol A on Nonassociative Learning and Memory in *Drosophila melanogaster* Using the Endoparasitoid Wasp Predator-Response Paradigm" **62nd Annual Drosophila Genetics Research Conference**
- 2021 Penn A and Mulligan K "Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **62nd Annual Drosophila Research Conference (Oral presentation)**
- 2021 Welch C, Hojeij N, Murphy L, Ghenta K, Hindi Z, Newman J, Nguyen K, Stryder B, Tinsley B, Triplehorn M, Widman E, and Mulligan K "Developmental exposure to the neurotoxicant polychlorinated biphenyl-95 elicits a synergistic gene by environment response in *fmr1* mutant *Drosophila melanogaster*" **62nd Annual Drosophila Research Conference**
- 2021 Penn A, Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Murphy L, Widman E, Newman J, and Mulligan K "Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **Stanford Undergraduate Research Conference**
- 2020 Penn A, Nguyen U, Tinsley B, Murphy L, Palacios Y, Ceballos A, Welch C, Mulligan K "Bisphenol A Differentially Impacts Neurodevelopment in *Drosophila melanogaster* from Distinct Genetic Backgrounds" **2020 SACNAS National Diversity in STEM Virtual Conference**
- 2020 Larson H, Newman J, Widman E, Penn A, Witherspoon J, and Mulligan K "Developmental exposure to Bisphenol F impairs courtship behavior and causes developmental lethality" **61st Annual Drosophila Genetics Research Conference**
- 2020 Penn A, Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Murphy L, Widman E, Newman J, and Mulligan K "Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **61st Annual Drosophila Genetics Research Conference**
- 2020 Niosi A, Vo N, Amin-Rahbar T, Welch C, Nguyen D, Lew A, Hu A, Crawford R, and Mulligan K "The Autism-Associated Chromatin Modifier, Chromodomain Helicase DNA Binding Protein 8, Affects Gastrointestinal Phenotypes in *Drosophila melanogaster*" **Towards Targeted Therapies for Neurodevelopmental Disorders Virtual Symposium**

2020	Tupikova A, Nguyen U, Sen Y, Nzenkue K, Leodones K, Danzinger K, Newman J, Widman E, and Mulligan K "Impact of Bisphenol-A on Behavior in the Fragile X Syndrome Model of <i>Drosophila</i> " Towards Targeted Therapies for Neurodevelopmental Disorders Virtual Symposium
2019	Welch C, Ardon-Castro A, Hu A, Lew A, Murphy L, Nguyen D, and Mulligan K . "The Autism-Associated Chromatin Modifier, <i>kismet/Chromodomain Helicase DNA Binding Protein 8</i> , Affects Axon Guidance and Behavioral Phenotypes in <i>Drosophila melanogaster</i> " West Coast Regional Society for Developmental Biology Meeting
2019	Murphy L, Chu D, Penn A, Hindi Z, Ghenta K, and Mulligan K . "Exposure to the Environmental Neurotoxicant Polychlorinated Biphenyl-95 Phenocopies a Common Autism Risk Gene in <i>Drosophila melanogaster</i> " West Coast Regional Society for Developmental Biology Meeting
2019	Tinsley B, Nguyen U, Casiquin J, Ceballos A, Chu D, Palacios Y, Sen Y, Welch C, and Mulligan K . "Developmental Exposure to Bisphenol-A Causes Neurodevelopmental Defects in <i>Drosophila melanogaster</i> " 32nd CSUPERB Annual Biotechnology Symposium

STUDENT AWARDS

Total individual awards earned by research mentees = 50

2025	Megan Schneider and Connor Spann (undergraduates)—First place oral presentation; Sacramento State Research Competition
2024	Belle Glaesman and Zubair Mahyar (undergraduates)—Second place oral presentation; CSU Wide Research Competition
2024	Belle Glaesman (undergraduate)—First place oral presentation in their category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2024	Carson Marsh (post-baccalaureate)—First place oral presentation in their category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2024	Belle Glaesman and Zubair Mahyar (undergraduates)—First place oral presentation; Sacramento State Research Competition
2024	Carson Marsh (post-baccalaureate)—Second place oral presentation; Sacramento State Research Competition
2023	Abuzar Tanveer and Zyla Castañon (undergraduates)—Second place poster presentation; West Coast Regional Society for Developmental Biology Meeting

2023	Joseph Yull (graduate)—CSUBIOTECH Faculty-Student Research Award (\$10,000)
2023	Lydia Bullo (undergraduate)—SURE Award; Sacramento State NSM research award
2023	Raman Kaur and Carson Marsh (undergraduates)—First place oral presentation; CSU Wide Research Competition
2023	Raman Kaur and Carson Marsh (undergraduates)—First place oral presentation; Sacramento State Research Competition
2022	Jermal Taylor (undergraduate) and Joseph Yull (graduate)—Best poster; NorCal SETAC Meeting
2022	Joseph Yull (graduate)— Second place oral presentation; CSU Research Competition
2022	Salma Elliessy (undergraduate)—CSUPERB Travel Award (\$1,500)
2021	Aliyah Penn (undergraduate)—Best undergraduate talk; Awarded to one undergraduate presenter; West Coast Regional Society for Developmental Biology Meeting
2021	Seham Aldafari (undergraduate)—President’s Medal; Awarded to one undergraduate; Sacramento State
2021	Angelo Niosi (graduate student)—Eden Award winner; Awarded to one master’s student; 33 rd CSUPERB Annual Biotechnology Symposium
2021	Aliyah Penn (undergraduate)—First place oral presentation; CSU Research Competition
2021	Aliyah Penn (undergraduate)— First place oral presentation; Sacramento State Research Competition
2021	Chloe Welch (graduate student)—Second place oral presentation; Sacramento State Research Competition
2020	Lillian Murphy (undergraduate)—President’s Medal; Awarded to one undergraduate; Sacramento State
2020	Lillian Murphy (undergraduate)—National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Award; prestigious NSF fellowship awarded to select incoming graduate students across the US
2020	Kevin Nzenkue (undergraduate)—Summer Undergraduate Research Experience (SURE) Award; Sacramento State Natural Sciences and Mathematics (NSM) research award
2020	Nguyen (Henry) Vo (undergraduate)—SURE Award; Sacramento State NSM research award

2020	Brendan Tinsley (graduate student)—Eden Award finalist; Six finalists from across the CSU system; 32nd CSUPERB Annual Biotechnology Symposium
2020	Taylor Moore (undergraduate)—NIH RISE Award recipient
2019	Heather Larson (graduate student)—CSUPERB Travel Grant
2019	Kaitlin Danziger & Aliyah Penn (undergraduates)—Best poster in their category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2019	Chloe Welch (undergraduate)—Best oral presentation in her category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2019	Lillian Murphy (undergraduate)—Best undergraduate poster; Awarded to one undergraduate presenter; West Coast Regional Society for Developmental Biology Meeting
2019	Lillian Murphy (undergraduate)—Nagel Award winner; Awarded to one undergraduate across CSU system; 31st CSUPERB Annual Biotechnology Symposium
2019	Chloe Welch (undergraduate)—Nagel Award finalist; Six finalists from across the CSU system; 31st CSUPERB Annual Biotechnology Symposium
2019	Brendan Tinsley (graduate)—First place presenter; Sacramento State Research Competition
2019	Jacqueline Stein (undergraduate)—SURE Award; Sacramento State NSM research award
2019	Ishmeal Ivory Ford (undergraduate)—Louis Stokes Alliance for Minority Participation (LSAMP) Research Award recipient
2019	Alex Ceballos (undergraduate)—LSAMP Research Award recipient
2018	Any Ardon-Castro & Alain Hu (undergraduates)—First place poster; Sacramento State Research Competition
2018	Chloe Welch (undergraduates)—Best oral presentation in her category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2018	Lillian Murphy (undergraduate)—Second place oral presentation in her category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2018	Lillian Murphy (undergraduate)—CSUPERB Travel Grant

2018	Semaj Hornbuckle & Yomira Palacios (undergraduate)—Louis Stokes Alliance for Minority Participation (LSAMP) Research Award recipients
2018	Daniel Chu (undergraduate)—SURE Award; Sacramento State NSM research award
2018	Chloe Welch (undergraduate)—Society for Developmental Biology Travel Award
2017	Brandon Trafton (undergraduate)—Second place presenter; CSU Research Competition
2017	Brandon Trafton (undergraduate)—First place presenter; Sacramento State Research Competition
2017	Kimberly Nguyen (undergraduate)—First place poster; Sacramento State Research Competition
2017	Darren Nguyen, Aliyah Penn, and Lillian Murphy (undergraduates)—NIH RISE Award recipients
2017	Chloe Welch (undergraduate)—SURE Award recipient; Sacramento State NSM research award
2017	Lillian Murphy (undergraduate)—SURE Award recipient; Sacramento State NSM research award
2017	Lillian Murphy (undergraduate)—CSUPERB Travel Award recipient

PROFESSIONAL LEARNING COMMUNITIES

Facilitator & Content Co-Creator

2023 – 2024	Culturally Responsive Teaching at HSIs (Center for Teaching and Learning, CSUS)
2023	Culturally Responsive STEM Teaching at HSIs (Center for Teaching and Learning, CSUS)
2022 - 2023	Inclusive STEM Teaching (College of NSM & ECS, CSUS)
2021 – 2022	STEM-FIT: Forum for Inclusive Teaching (CSUS, College of NSM)

Participant

2024	Culturally Responsive Practices For STEM Faculty Teaching Latinx Students (STEM-X; ESCALA Educational Services): Participant
2023	AIM: Accelerating Inclusive Mentoring (CSULB, National Institute of Health funded program): Participant
2022	Culturally Responsive STEM Teaching at HSIs (ESCALA Educational Services): Participant

2021 - 2022	STEM Inclusive Teaching Project (National Science Foundation): Participant
2019 - 2020	Designing for Equity and Student Success (CSUS, Center for Teaching and Learning): Participant
2018 - 2019	Equity & Scholarship of Teaching and Learning: Demonstrating Success at Closing the Equity Gap (CSUS, Center for Teaching and Learning): Participant
2016 - 2017	Innovations for STEM Success (CSUS, Center for Teaching and Learning): Participant
2015 - 2016	Course Redesign with Technology (CSU Chancellor's Office): Participant

FACULTY SCHOLARSHIP COMMUNITIES

2018 - 2019	The Collaborative Organization for Research Productivity and Sustainability (CSUS)
2018 - 2019	Translational Health-Related Research: Connecting Basic Science to Clinical Practice (CSUS)
2017 - 2018	The Collaborative Organization for Research Productivity and Sustainability (CSUS)