

Andrea M. Holgado Ph.D.

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Department of Biological Sciences
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A. Educational Background

- 2013-2015 Master of Business Administration
Southwestern Oklahoma State University, Weatherford, OK.
- 1993-1997 Ph.D. Biology (Honors-Laureate Thesis)
National University of Córdoba, Argentina.
Research Advisor: Dr. Luis Beauge.
Thesis Title: "Effects of external monovalent cations on $\text{Na}^+/\text{Ca}^{+2}$ exchange in cultured rat glial cells."
- 1987-1993 B.S. Biology (with Undergraduate Research Thesis 4+2)
National University of Córdoba, Argentina.
Research Advisor: Dr. Andrea Coccuci.
Undergraduate Research Thesis Title: Analysis of floral oil-producing glands.
- 1987-1991 B.S. Secondary Science Education (Biology)
National University of Córdoba, Argentina.

B. Professional positions and Employment

- Fall 2019-Present Chair
Department of Biological Sciences.
St. Edward's University
Austin, TX 78704
Perform administrative duties at the Department of Biological Sciences.
Supervised 12 full-time faculty, seven adjunct faculty, and two staff members.
- Fall 2017-Present Professor (Tenured)
Department of Biological Sciences
St. Edward's University
Austin, TX 78704

- Teach lecture and lab courses in Cell Biology, Cancer Biology and Social Justice, and Neurobiology of Mental Illness. Conduct research and mentored 10-14 undergraduate research assistants per year.
- 2018-2020 Director
 Institute for Interdisciplinary Science (i4)
 School of Natural Sciences,
 St. Edward's University
 Austin, TX 78704
 Wrote the Institutional grant that funded the establishment of the Institute for Interdisciplinary Science. Led the creation of the institute and designed professional development activities supporting faculty and students training for the 4th industrial revolution.
- 2017- 2019 Associate Chair
 Department of Biological Sciences.
 St. Edward's University
 Austin, TX 78704
 Performed administrative duties at the Department of Biological Sciences. Prepared teaching schedules, hired adjuncts, and observed teaching performances.
- 2015-2017 SWOSU Honors Program Co-Director
 Southwestern Oklahoma State University
 Weatherford, OK 73096
 Planned, implemented, and administered the Honors Program at SWOSU.
- 2014-2017 Department Chair
 Department of Biological Sciences.
 Southwestern Oklahoma State University
 Weatherford, OK 73096
 Performed administrative duties at the Department of Biological Sciences. Supervised ten full-time faculty and two staff members. Taught courses such as General Biology, Cell Biology, and Neuroscience. Conducted research and mentored 3-4 undergraduate research assistants per year.
- 2012-2017 Associate Professor (Tenured)
 Department of Biological Sciences
 Southwestern Oklahoma State University
 Weatherford, OK 73096
 Taught lecture and lab courses in General Biology, Cell Biology, Molecular Cell Biology, and Human Physiology. Mentored 20 undergraduate research assistants in neuroscience research.
- 2008-2012 Assistant Professor (Tenure-Track)

Department of Biological Sciences
Southwestern Oklahoma State University
Weatherford, OK 73096

Taught lecture and lab courses in General Biology (majors and non-majors), Cell Biology, Molecular Cell Biology, Senior Seminar, and developed a research-intensive Molecular Cell biology lab course. Each course had an enrollment of 12 to 70 students. Mentored 33 undergraduate research assistants and developed a self-sustainable research program in neuroscience.

2005-2008 Instructor (Non-Tenure-Track)

Department of Biology
Loyola University of Chicago
Chicago, IL, 60660

Taught courses in General Biology, Cell Biology, Genetics, Molecular Biology, Biochemistry, and Introduction to Research. Each course had an enrollment of 20 to 120 students.

I have supervised undergraduate research projects of eight Biology majors. These students continued their education at graduate programs such as the University of Chicago, Loyola Medical School, Rosalind Franklin University, and Boston University.

2001-2005 Research Assistant Professor

The University of Illinois at Chicago
Chicago, IL, 60607

Supervisor: Janet E. Richmond

Characterized the role of Tomosyn in synaptic vesicle exocytosis. Taught courses in Genetics and Cell Biology. Each course had an enrollment of 200 students—supervised two honors undergraduate students' research projects.

2000-2001 Visiting Research Assistant Professor

The University of Illinois at Chicago
Chicago, IL, 60607

Supervisor: Janet E. Richmond

Characterized the role of Tomosyn in synaptic vesicle exocytosis. Taught the course of Cell Biology with an enrollment of 200 students.

1998-2000 Senior Postdoctoral Fellow

The University of Illinois at Chicago
Chicago, IL, 60607

Supervisor: Aixa Alfonso

Examined the role of UNC-11 in synaptic vesicle endocytosis.

1997-1998 Postdoctoral Fellow

Northwestern University, Chicago
Chicago, IL, 60604

Supervisor: Adriana Ferreira
Studied the process of synaptogenesis *in vitro*.

1991-1997 Biology High School Teacher
Nuestra Señora de Nievas High School
Cordoba, Argentina
Taught Freshmen General Biology, Sophomore Zoology and Botany,
Junior Animal Physiology, and Senior Health Education.

C. Awards and Honors

2020	Named member of the NIH-Delaware INBRE External Advisory Committee, DE.
2018	Innovation fellow, St. Edward's University.
2018	NSCI Dean Award for Excellence in Research, St. Edward's University.
2017	Named member of the International Women Forum, chapter Argentina.
2016	Nominated for the Oklahoma Medal for Excellence in Teaching at a Regional University or Community College.
2015	Named National Academies Education Fellow in the Life Sciences.
2014	Nominated for the Bernhardt Academic Excellence Award (SWOSU).
2014	Nominated for the Oklahoma Medal for Excellence in Teaching at a Regional University or Community College.
2013	Citation from the Oklahoma House of Representatives in a resolution introduced by Rep. Harold Wright in recognition for receiving one of the Oklahoma Mentoring Awards.
2013	Mentoring recognition awarded by the Molly and David Boren Mentoring An initiative sponsored by the Oklahoma Foundation for Excellence.
2013	Nominated for the Bernhardt Academic Excellence Award (SWOSU).
2012	Outstanding Mentor "Sidney A. McNairy, Jr." Award (National Recognition). Awarded by the Institutional Network of Biomedical Research Excellence (INBRE).
2011	INBRE outreach and diversity Coordinator, OU HSC.
2008	Excellence in Teaching Award, Loyola University Chicago.

2006	Nominated for the Excellence in Teaching Award, Loyola University Chicago.
1995-1997	Senior Predoctoral Fellowship from the Council of Science and Technology "CONICET" Argentina.
1993-1995	Doctoral Fellowship from the Council of Science and Technology "CONICET," Argentina.
1992-1993	Predoctoral Fellowship from the Foundation of the Interior of Argentina "FUNINAR."

D. Certifications

- Inclusive STEM Teaching Project (2021)
- Institutional Animal Care and Use Committee member (IACUC), basic certification (2020)
- Biosafety Training for Institutional Biosafety Committee (IBC), basic certification (2020)
- Managing Bias (2020)
- Preventing Harassment and Discrimination (2020)
- Faculty Social Science Research (2019)

E. Publications

Peer-reviewed publications

Note: undergraduate students underlined.

1. Bianca Garcia Gonzalez, Christine Johansen, and **Andrea Holgado** (2020). UNC-33, a protein that may link genetic and environmental factors underlying Schizophrenia. McNair Scholars Research Journal, St. Edward's University. Vol. XII, 72-82.
2. Nicholas Ashley and **Andrea Holgado** (2019) The autophagy gene product BEC-1 supports normal aging and neurodevelopment in *Caenorhabditis elegans* I. microPublication Biology. [10.17912/micropub.biology.000099](https://doi.org/10.17912/micropub.biology.000099)
3. Nicholas Ashley and **Andrea Holgado** (2019) The autophagy gene product BEC-1 supports normal aging and neurodevelopment in *Caenorhabditis elegans* II. microPublication Biology. [10.17912/micropub.biology.0000100](https://doi.org/10.17912/micropub.biology.0000100)
4. Nicholas Ashley and **Andrea Holgado** (2019) The autophagy gene product BEC-1 supports normal aging and neurodevelopment in *Caenorhabditis elegans* III. microPublication Biology. [10.17912/micropub.biology.0000101](https://doi.org/10.17912/micropub.biology.0000101)
5. Nicholas Ashley and **Andrea Holgado** (2019) The autophagy gene product BEC-1 supports normal aging and neurodevelopment in *Caenorhabditis elegans*: Integration. microPublication Biology. [10.17912/micropub.biology.0000102](https://doi.org/10.17912/micropub.biology.0000102)

6. Matt Abbott, Jacob Fuller, Mason Howe, Michael Caniglia, and Andrea Holgado (2014), Generating *Caenorhabditis elegans* UNC-33 antigens to be used for the Synthesis of Polyclonal Antibodies. *SWOSU JUR* 1:27-40.
7. Rodriguez A, Mc Kay K, Graham M, Dittrich J, and Holgado AM (2014). Analysis of differential gene expression profiles in *C. elegans* knockouts for the v-SNARE master protein 1. *Journal of Neuroscience Research*. 92:772-82. PMID: 24615917.
8. Seals L, Nkeih C, Bernhardt N, Hayden C, and Wright C, Amoyaw P, Khan F and Holgado A. (2013). *C. elegans* v-SNARE master protein 1 (VSM-1) fails to co-precipitate with neuronal SNARE proteins SNB-1, UNC-64, and RIC-4A/B during *in vitro* pull downs. *Proceedings of The National Conference of Undergraduate Research*.
9. Hubbard C, Benda E, Hardin T, Baxter T, St John E, O'Brien S, Hensley K, and Holgado AM (2013). "Lanthionine ketimine ethyl ester partially rescues a neuro-developmental defect in UNC-33 (DPYSL2/CRMP2) mutants. *Journal of Neuroscience Research*. 9:1183-90.
10. Guthmueller KL, Yoder ML, and Holgado AM (2011) Determining genetic expression profiles in *C. elegans* using microarray and real-time PCR. *Journal of Visualized Experiments*. JoVE. 53. 2777
11. Wolyniak MJ, Alvarez CJ, Chandrasekaran V, Grana TM, **Holgado A**, Jones CJ, Morris RW, Pereira AL, Stamm J, Washington TM, Yang Y (2010) Building better scientist through cross-disciplinary collaboration in synthetic biology: A meeting report for the genome consortium for active teaching (GCAT) workshop 2010. *CBE Life Sciences Education*. 9:399-404.
12. Gracheva EO, Burdina AO, **Holgado AM**, Berthelot-Grosjean M, Ackley BD, Hadwiger G, Nonet ML, Weimer RM, Richmond JE. (2006) Tomosyn Inhibits Synaptic Vesicle Priming in *Caenorhabditis elegans*. *PLoS Biol*. 25;4(8):e261
13. Kay AR, Alfonso A, Alford S, Cline HT, **Holgado AM**, Sakmann B, Snitsarev VA, Stricker TP, Takahashi M, Wu LG. (1999) Imaging synaptic activity in intact Brain and slices with FM1-43 in *C. elegans*, lamprey, and rat. *Neuron*. 24:809-17.
14. Nonet ML, **Holgado AM**, Brewer F, Serpe C, Norbeck B, Holleran J, Wei, Hartweg E, Jorgensen EM, and Alfonso A (1999) UNC-11, a *Caenorhabditis elegans* AP180 homologue, regulates the size and protein composition of synaptic vesicles. *Mol Biol Cell*. 10:2343-60.
15. **Holgado A**, Ferreira A. (2000) Synapse formation proceeds independently of dendritic elongation in cultured hippocampal neurons. *J Neurobiol*. 43:121-31.

16. **Holgado A.** and Beaugé L. (1996) Effects of external monovalent cations on $\text{Na}^+/\text{Ca}^{+2}$ exchange in cultured rat glial cells. *Annals of the New York Academy of Sciences* 779:279-281.
17. **Holgado A.** and Beaugé L. (1995) The $\text{Na}^+/\text{Ca}^{+2}$ exchange system in rat glial cells in culture: activation by external monovalent cations. *Glia* 14(2):77-86.
18. Cocucci AA, **Holgado AM**, Anton AM. (1996) Estudio morfológico y anatómico de los eleoforos pedicelados de *Dinemandra ericoides*, Malpigiacea endémica del desierto de Atacama, Chile. *Darwiniana* 34. 183-192. (Eng.)

Other publications:

19. Holgado A, (2020) Tips for Getting Hired at a Primarily Undergraduate Institution
<https://neuronline.sfn.org/career-paths/tips-for-getting-hired-at-a-primarily-undergraduate-institution>

Published Abstracts:

Oral Presentations (last five years)

Note: undergraduate students underlined.

1. Rivas, A and **Holgado A.** *Assessing how the Introduction of daf-7(e1372) Affects Dauer Formation in unc-33 Mutants*. St. Edward's University, Honors Program Thesis Symposium, April 23, 2021, Austin, TX.
2. Holechek J and **Holgado A.** *Mutations in Microtubule-Associated Protein UNC-33 Lead to Defects in Autophagosome Maturation in C. elegans, connecting Autophagy and Neurodegeneration*. St. Edward's University, Honors Program Thesis Symposium, April 23, 2021, Austin, TX.
3. Cristancho A, Samaro, A and **Holgado A.** *Using worms to study genes involved in Alzheimer's Disease and aging*. Symposium on Undergraduate Research and Creative Expression (SOURCE), April 9, 2021, St. Edward's University, Austin, TX.
4. Moreno, K., Nguyen, J., and **Holgado A.** *Assessing the Localization of DAF-16 in C. elegans unc-33 mutants*. 28th Annual UMBC McNair Research Conference, September 18-19, 2020, Baltimore County, Baltimore, MA, USA. Virtual Baylor McNair Research Conference, October 1-2, 2020, Baylor University, Waco, TX, USA. National Conference for Undergraduate Research (NCUR), April 12-14, 2021, California State University, Long Beach, CA.
5. Garcia Gonzalez B, Carrasco-Pena A, and **Holgado A.** *Investigating the effects of prenatal stress on the regulation of unc-33 in C. elegans*. 17th Annual McNair Scholars Research Symposium, July 9, 2020, St. Edward's University, Austin, TX. Illinois TRIO McNair Virtual Research Symposium, July 31, 2020. Knox College, Galesburg, IL,

Baylor University McNair Research Conference, October 1-2, 2020. Baylor University, Waco, TX, and The Missouri, Kansas, Nebraska 2020 Heartland Conference, September 25-26, 2020. Kansas University, Lawrence, KS.

6. Moreno K and **A Holgado A**. *Assessing the Localization of DAF-16 in C. elegans unc-33 mutants*. 17th Annual McNair Scholars Research Symposium, July 9, 2020, St. Edward's University, Austin, TX.
7. Lile K, Trombley H, and **Holgado A**. *Hormones and the Brain: A study of the Insulin pathway in unc-33 mutants*. 28th Annual Senior Seminar Symposium, February 28, 2020, St. Edward's University, Austin, TX. 2020 Honors Thesis Symposium, April 24, 2020, St. Edward's University, Austin, TX.
8. Johansen C, Garcia Gonzalez B, and **Holgado A**. *UNC-33, a protein that may link the genetic and environmental factors underlying Schizophrenia*. 28th Annual Senior Seminar Symposium February 28, 2020, St. Edward's University, Austin, TX.
9. Lasseter J, Holechek J, Jauregui R, and **Holgado A**. *Defects in Microtubule Associated Protein UNC-33 Cause Malfunctions in Autophagosome Maturation, Connecting Cellular Trafficking, Autophagy, and Neuronal Development*. 28th Annual Senior Seminar Symposium, February 28, 2020, St. Edward's University, Austin, TX.
10. Garcia-Gonzalez B, Johansen C, Trombley H, and **Holgado A**. *UNC-33, a protein that may link the genetic and environmental factors underlying Schizophrenia*. 27th Annual McNair Research Conference at the University of Maryland, Baltimore County, September 19-22, 2019, Baltimore, MA; McNair's Scholars Program Symposium, July 13, 2019, Austin, TX.
11. **Holgado A***, Burks R, Margolin C, Arreola V, Zavala ME. *New initiatives for improving undergraduate STEM education*. SACNAS Conference, November 1, 2019, Honolulu, HI. * Panel organizer, presenter, and moderator
12. Harrington M, Davis S, **Holgado A***, Horch H, and Soto I. *Building a Neuroscience Career at a Teaching Focused Institution*. 2019 Neuroscience Conference, October 20, 2019. Chicago, IL.
*Invited panelist
13. Walter P, **Holgado A**, Burks R, Hauser C, and Shebaro B. Invited panelist for the session: *Teaching and Engaging Students at Hispanic Serving Institutions (HSIs)*. American Association of Physics Teachers (AAPT) Summer 2019 Meeting. July 20 – 24, 2019 in Provo, UT.
14. Hernandez F and **Holgado A**. *Examining unc-33 expression using GFP transcriptional reporter*. Beta Beta Beta South Central Regional Convention, April 5-6, 2019, Cedar Hill, TX.

15. Sanchez A, Wilson M, and Holgado A. *UNC-33 microtubule-associated protein plays a role in neuronal autophagy.* Beta Beta Beta South Central Regional Convention, April 5-6, 2019, Cedar Hill, TX (**Awarded honorable mention for outstanding oral presentation**).
16. Williams T and Holgado A. *Investigating the Potential Role of UNC-33 in Modulating Neuronal Development and Human Health.* Tribeta Regional Convention, March 31-April 2, 2017, Cedar Hill, TX.

Poster Presentations at International-National meetings (last five years)

Note: undergraduate students underlined.

1. Garcia-González, B; Avant, S; Carrasco-Pena, A and **Holgado, A.** *Investigating the effects of temperature on the regulation of the expression of neuronal GFP in C. elegans.* SfN Global Connectome, January 11-13, 2021 (virtual).
2. Bazaldua I, Holechek J, Lopez M, Carrillo E, Jauregui R, Holgado A. *Mutations in microtubule-associated protein UNC-33 lead to defects in autophagosome maturation in C. elegans, connecting autophagy and neurodegeneration.* SfN Global Connectome, January 11-13, 2021 (virtual).
3. Lile K, Trombley H, and **Holgado A.** *Hormones and the Brain: A Study of the Insulin Pathway in unc-33 Mutants.* ABRCMS 2019, Nov 13-16, 2019, Anaheim, CA.
4. Holechek J*, Lasseter J, Trombley H, Sanchez A, and **Holgado A.** *Defects in Microtubule Associated Protein UNC-33 Cause Malfunctions in Autophagosome Maturation, Connecting Cellular Trafficking, Autophagy, and Neuronal Development.* ABRCMS 2019, Nov 13-16, 2019, Anaheim, CA.
* **Awarded First place for Outstanding Poster Presentation at ABRCMS**
5. Garcia-Gonzalez B, Johansen C, Trombley H, and **Holgado A.** *UNC-33, a protein that may link the genetic and environmental factors underlying Schizophrenia.* ABRCMS 2019, Nov 13-16, 2019, Anaheim, CA.
6. **Holgado A,** Burks R, Hauser C, Shebaro B, and Walter P. *St. Edward's University Institute for Interdisciplinary Science (i4) "Preparing Students for the 4th Industrial Revolution"* NSF HSI PI Meeting, November 6-8, 2019, Washington D.C.
7. Ashley N, Trombley H, and **Holgado A.** *Characterizing the role of autophagy gene product BEC-1 in neuronal longevity in the model organism Caenorhabditis elegans.* Lucian Symposium, September 28, 2018, Austin, TX; 2018 Neuroscience meeting, November 4, 2018, San Diego, CA.
8. Hernandez F, Rosas B, Trombley H, and **Holgado A.** *Analyzing how environmental and developmental factors affect UNC-33 expression.* 2018 Neuroscience meeting, November 3, 2018, San Diego, CA.

9. Trombley H, Wilson M, and **Holgado A**. *Evaluating the effects of inducing autophagy in unc-33 mutants*. 2018 Neuroscience meeting, November 3, 2018, San Diego, CA.
10. Wilson M, Firth R, Sanchez A, Trombley H, and **Holgado A**. *Investigating the role of autophagy in axonal development in unc-33 mutant C. elegans*. SACNAS Conference, October 12, 2018, San Antonio, TX; 2018 Neuroscience meeting, November 3, 2018, San Diego, CA. **Awarded First place or Outstanding Poster Presentation at SACNAS**

Poster Presentations at Regional and local meetings (last five years)

Note: undergraduate students underlined.

11. Avant, S., Garcia-González, B.G., Carrasco-Pena, A., & **Holgado, A.**, *Investigating the effects of temperature on the regulation of expression of neuronal UNC-33 in C. elegans*. Symposium on Undergraduate Research and Creative Expression (SOURCE), April 9, 2021, St. Edward's University, Austin, TX, USA.
12. Lopez M, Bazaldua I, Holechek J, Carrillo E, Jauregui R, **Holgado A**. *Mutations in microtubule associated protein UNC-33 lead to defects in autophagosome maturation in C. elegans, connecting autophagy and neurodegeneration*. Symposium on Undergraduate Research and Creative Expression (SOURCE), St. Edward's University, Austin, TX, USA.
13. **Vacio, A.**, Cantu, J., & **Holgado, A.**, (2021, April 9). *Evaluating the ability of UNC-33L to rescue dauer formation in unc-33 mutants*. Symposium on Undergraduate Research and Creative Expression (SOURCE), April 9, 2021 St. Edward's University, Austin, TX, USA.
14. **Holgado A**, Burks R, Hauser C, Shebaro B, and Walter P. *St. Edward's University Institute for Interdisciplinary Science (i4) "Preparing Students for the 4th Industrial Revolution"* NSF INCLUDES Advancing Latinas in STEM Academic Careers symposium, April 8, 2021 (Virtual).
15. Garcia-González, B. G., Johansen, C., Trombley, H., & **Holgado, A**. *UNC-33, a protein that may link genetic and environmental factors underlying Schizophrenia*. Symposium on Undergraduate Research and Creative Expression (SOURCE), April 3, 2020, St. Edward's University, Austin, TX, USA.
16. **Holgado A**, Burks R, Hauser C, Shebaro B, and Walter P. *St. Edward's University Institute for Interdisciplinary Science (i4) "Preparing Students for the 4th Industrial Revolution"* Texas Hispanic Serving Institution Consortium Annual Conference, May 24, 2019, San Antonio, TX.
17. Sanchez A, Wilson M, Trombley H, and **Holgado A**. *Investigating the role of autophagy in axonal development in unc-33 mutant C. elegans*. Research Day at the State Capitol, April 1, 2019, Austin, TX.

18. Ashley N, Trombley H, and **Holgado A**. *Characterizing the role of autophagy gene product BEC-1 in neuronal longevity in the model organism Caenorhabditis elegans*. 122nd Annual Meeting of the Texas Academy of Science, March 1-2, 2019, Brownwood, TX (**Awarded best poster presentation in the Neuroscience section**).
19. Wilson M and **Holgado A**. *Evaluating the effects of inducing autophagy in unc-33 mutants*. Beta Beta Beta South Central Regional Convention, April 5-6, 2019, Cedar Hill, TX (**Awarded first place for outstanding poster presentation**)
20. Ranking B, Lippard J, and **Holgado A**. *Investigating UNC-33, a protein that gives insight into the role of autophagy in Schizophrenia*. INBRE summer research symposium, July 14, 2017, OUHSC, Oklahoma City, OK.
21. Mitchum T, Holten W, and **Holgado A**. *Analysis of autophagy and its effects on the D-type motor neuron circuitry of unc-33 mutants of Caenorhabditis elegans*. Tribeta Regional Convention, March 31-April 2, 2017, Cedar Hill, Texas. * **Awarded third-place regional for Outstanding Poster Presentation**.

F. Research Grants

Current Research Support

1. NSF RUI: Examining molecular players integrating autophagy and axonal elongation

PI: Andrea Holgado

Award #1748523

Dates of approval: 5/1/17-8/30/22

Direct and Indirect Cost: \$634,500

2. MRI: Acquisition of a versatile, user-friendly, automated fluorescence microscope to promote research performed by faculty and undergraduates at a Hispanic-serving institution

PI: Andrea Holgado

Award #1826871

Dates of the proposal: 10/1/18-9/30/21

Direct and Indirect Cost: \$207,310

3. Institute for Interdisciplinary Science (i4): Preparing Students for the 4th Industrial Revolution.

PI: Andrea Holgado

coPIs: Laura Baker (Bilal Shebaro), Raychelle Burks, Charles Hauser, Paul Walter

Award #1832282

Dates of the proposal: 10/1/18-9/30/23

Direct and Indirect cost: \$1,499,944

4. Pesticidas, Aldehydos toxicos y Parkinsonismo

PI: Andrea Holgado
coPIs: Miriam Virgolini (IFEC. CONICET. Depto de Farmacología. Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Argentina)
Award# SUBSIDIO CÉSAR MILSTEIN
Dates Approved: 7/11/20-8/15/20
Direct and Indirect cost: Postponed due to COVID-19 pandemic

Past Extramural Research Support (last five years)

5. NIH-OK INBRE SMaRT

PI: Andrea Holgado
Project Title: Designing tools to study autophagy in *C. elegans* neurons
Dates of approved 5/12/17-8/31/17
Direct Cost \$6,236

6. NIH-OK INBRE Summer Mentor Award

PI: Andrea Holgado
Project Title: Linking the neuronal role of UNC-33 to autophagy
Dates of approved 5/12/17-8/31/17
Direct Cost \$2,200 for reagents.

7. NIH-OK INBRE Minigrant

PI: Andrea Holgado
Project Title: Analysis of Autophagy in the developing nervous system.
Dates of approved 5/2/15-4/30/17
Direct Cost \$25,000

8. OCAST Intern Program

PI: Andrea Holgado
CoPI: Sophia Lee and Brad Bryant
Project Title: Creating opportunities for advancing basic research, applied research, and technology development
Dates of approved 2/16-1/17
Direct Cost \$30,000

G. Professional Memberships

Genetics Society of America
Society for Neuroscience
International Women Forum- Argentina Chapter
National Hispanic Science Network
BBB National Biological Honors Society
Sigma Delta Pi National Collegiate Hispanic Honor Society
Genome Consortium for Active Teaching

H. Professional Development and Service

To continue growing as a teacher and a scientist, I have participated in various professional development activities. I have attended workshops for instructors, scientific meetings, and faculty development events in the last years. Here is the list of events and involvement:

Teaching and Administrative Professional Development (last five years)

- **Received training** at the Beyond diversity workshop organized by Leadership Austin (virtual), August 5-6, 2020.
- **Attended** workshops on leadership coaching for racial equity, quarantine teaching, racializing Latinx people and communities organized by courageous conversations. June-July, 2020 (virtual).
- **Received training** on Zoom, Anti-Racist Pedagogy, and Honorlock in preparation for the virtual classroom. July-August, 2020
- **Participated** in the Unpacking Whiteness Institute (virtual). August 15 & 22, 2020.
- **Organized** the premiere screening of the Human Nature movie (a movie on CRISPR technology) in November 2019.
- **Attended** the webinar "fostering diversity and inclusion in Neuroscience Faculty" organized by the Society for Neuroscience, June 12, 2019.
- **Engaged** in the workshop "A Year With The Saint John's Bible" at SEU, Austin, TX.
- **Participated** in the professional development workshop on Organizational communication organized by NSCI, August 20, 2018, SEU, Austin, TX.
- **Attended** the Teaching Symposium 2018 organized by the Center for Teaching Excellence at SEU, August 23, 2018, SEU, Austin, TX.
- **Completed** the Biosafety training and human subjects training developed by the CITI program (Collaborative Institutional Training Initiative). Sept 2017-2019 –online training with assessments.
- **Received** the innovation fellowship to develop the Cancer Biology and Social Justice course. A course that fulfills Biology electives and Experiential Learning for Social Justice requisites. Spring 2018, SEU, Austin, TX.
- **Attended** the workshop on Conducting Successful Meetings presented by the Alliance Work Partners, May 9, 2018, SEU, Austin, TX.
- **Participated** in the Organizational communication workshop organized by Justin Westcott, May 11, 2018, SEU, Austin, TX.
- **Participated** in the Faculty Learning Community Seminars that biweekly from August 2017 to April 2018, organized by the School of Natural Sciences, SEU, Austin, TX.
- **Attended** the Diversity Workshop II organized by the School of Natural Sciences, August 16, 2017, SEU, Austin, TX.
- **Participated** in the IUSE Active Learning Workshop organized by the Dept. of Biological Sciences, August 17, 2017, SEU, Austin, TX.

- **Attended** the Teaching Symposium 2017 organized by the Center for Teaching Excellence at SEU, August 24, 2017, SEU, Austin, TX.
- **Attended** the Pre-Health Professions info session organized by the Pre-Health Professions Coordinator, September 5, 2017, SEU, Austin, TX.
- **Participated** in the New Faculty Seminars that ran weekly from August 23 to December 7, 2017, organized by the School of Natural Sciences, SEU, Austin, TX.
- **Attended** the Response to Armed Intruder Incidents training organized by SEU Department of Campus Resilience, September 8, 2017, SEU, Austin, TX.
- **Completed** the Biosafety training developed by the CITI program (Collaborative Institutional Training Initiative). Sept 2017 –online training with assessments.
- **Completed** the Basic FERPA training requested by the SEU Registrar's office. Sept 2017 –online training with assessments.

Other Attended Professional Development Events (last five years)

National and International Meetings:

1. SfN Global Connectome, January 11-13, 2021 (virtual)
2. National Academy of Medicine, Confronting Urgent Threats to Human Health and Society: COVID-19 and Climate Change. October, 18-19, 2020 (virtual)
3. Society for the Advancement of Biology Education Research (SABER) Annual Meeting, July 10, 17, 24, 31, 2020 (virtual)
4. HACU 25th National Capitol Forum, April 21-22, 2020 (virtual).
5. AACU Conference on Diversity, Equity, and Student Success, March 19-20, 2020 (virtual).
6. HSI PI Meeting, Nov 6-8, 2019, Washington DC.
7. SACNAS Conference, Oct 31-Nov 2, 2019, Honolulu, HI.
8. 2019 Neuroscience Conference, Oct 18-21, 2019, Chicago, IL.
9. PKAL STEM Leadership Institute, July 9-14, 2019, Adamstown, MD.
10. 22nd International *C. elegans* Conference, June 20-24, 2019, Los Angeles, CA.
11. Diversity, Equity, and Student Success Network Conference: Engaged Inclusivity, March 28-30, 2019. Pittsburg, PA.
12. 36th Academic Chairpersons Conference, Feb 6-8, 2019, Houston, TX.
13. 2018 Neuroscience, November 3-7, 2018, San Diego, CA.
14. Life Science Women's Conference, August 8-9, 2018, Austin, TX.
15. HSI Transitions to Success in STEM Fields at Hispanic-Serving Institutions: A National Conference, Feb 14-16, 2018, Houston, TX (**invited attendee**)
16. 2017 ABRCMS, November 1-5, 2017, Phoenix, AZ (**invited Judge**)

Regional Meetings:

1. NSF Includes Symposium for Advancing Latinas in STEM Academic Careers, organized by UT-RGV, April 8-9, 2021 (virtual).
2. 4th Annual STEM Education Conference, organized by UT-RGV Feb 25-27, 2021 (virtual).
3. TxHSI Consortium, May 23-24, 2019, San Antonio, TX.
4. BBB South-central Regional Convention, April 5-6, 2019. Cedar Hills, TX.
5. BBB South-central Regional Convention, March 31-April 2, 2017. Cedar Hills, TX.
6. BBB South-central Regional Convention, April 1-3, 2016. Cedar Hills, TX.

7. OUHSC Summer Undergraduate Research Symposium, July 14, 2017, OKC, OK.

Local Meetings:

1. Honors Program Thesis Symposium, April 23, 2021 (Moderator).
2. Holy Cross Institute Virtual Convocation, SEU, April 17, 2021.
3. Symposium on Undergraduate Research and Creative Expression (SOURCE), SEU, April 9, 2021.
4. Senior Seminar Symposium, SEU, March 3, 2021.
5. Lucian Symposium, SEU, September 25, 2020.
6. Lucian Symposium, SEU, September 28, 2019.
7. UT Austin, Conference on Learning & Memory, April 27, 2019.
8. Senior Seminar Presentations, SEU, March 23, 2018.
9. Lucian Symposium, SEU, September 29, 2017.

University and Community Service (last five years)

- McNair advisory board member, years 2018-present.
- Experiential Learning for Social Justice (EL4SJ) committee member: Review new course submitted as mission markers for EL4SJ. The academic year 2018-present.
- Business and Employee continuity focus group (COVID-19 task force), Summer 2020-Fall 2021.
- President Advisory Council for a Respectful, Inclusive Community, member, the year 2018-2021.
- Chair of the Institutional Biosafety Committee, 2018-2021.
- co-Chair of the Faculty Committee for Diversity and Inclusion (selected by faculty vote). 2018-2021.
- Radio interview with KUT 90.5 FM anchor Jerry Quijano, October 3, 2018.
- Presented at the NSCI advisory board, September 27, 2018.
- Guest lecturer in FSEM 1409, September 12, 2018- 9 am, and 10 am, "Genetics and Epigenetics factors affecting organism development."
- Faculty panelist at the New Faculty Orientation, August 20, 2018.
- Attended the Medallion Ceremony August 26, 2018
- Faculty co-Sponsor of the newly established St. Edward's University chapter of the Beta Beta Beta (TriBeta) National Biological Honors Society. 2018-present.
- Reviewer for Students grants in Spanish for the McCarley Grant Competition through SWAN (Southwestern Association of Naturalists), March 2018.
- Speaker at the Faculty Learning Communities: NSF-RUI Mechanism. September 6, 2017, SEU, Austin, TX.
- Member of the Institutional Animal Care and Use Committee. 2019-present.
- Member of the Natural Science School committee for Faculty and Students summer compensation.
- Speaker at the Faculty Learning Communities: IUSE-HSI Initiative wrote a proposal to build capacity in computation, data sciences, and emerging technologies. January 24 and February 7, 2018, SEU, Austin, TX.
- Co-Lead discusses how to prepare and what to expect during your research project: McNair program, January 26, 2018, SEU, Austin, TX.

