

CURRICULUM VITAE

Arely V. Diaz

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EDUCATION

<u>Institution</u>	<u>Degree</u>	<u>Date</u>	<u>Major</u>
The University of Colorado Anschutz Medical Center	PhD	2018-current	Molecular Biology
The University of Texas at El Paso	Bachelor of Science	2016-2018	Microbiology
El Paso Community College	Associate of Science	2015	Biology

AWARDS AND HONORS

- 2016–2018
- BUILDing SCHOLARS Scholarship, The University of Texas at El Paso, Supported by NIH Award
- Multi-year, full ride scholarship to promote development of undergraduate research scholars
 - Research supported by the National Institute of General Medical Sciences of the National Institutes of Health under linked Award Numbers RL5GM118969, TL4GM118971, and UL1GM118970.

RESEARCH INTERESTS

- Molecular cell biology, post-translational mechanisms, RNA, SUMOylation, alternative splicing, translational biology, neglected tropical diseases, public health, vaccination adherence.

RESEARCH EXPERIENCE

- 2016–2018
- BUILDing SCHOLARS Academic-Year Research Program
The University of Texas at El Paso
- Advisor and Mentor: German Rosas-Acosta, PhD
 - Project Title: *Polyribosome Profiling: The understanding of how small ubiquitin-like modifier transcripts are regulated by analyzing their translation efficiency through the observation of monosome and polysome formation. The understanding of this process may provide insight into novel roles for the SUMO system in mammalian cell models and could lead to the identification of a molecular target to be used to fend off viral infection.*
 - Role: Contributed to the development of the protocol, data collection, and data analysis.

- Project Title: *Mechanisms Regulating the Activity of Post-Translational Mechanisms: The understanding of how SUMO gene expression is regulated by alternative splicing.*
- Role: Contributed to the development of protocol, data collection, and data analysis of this project in regards to SUMO3.

Summer 2017

SMART Baylor College of Medicine

- Research experience for undergraduates funded by the NIGMS
- Advisor and Mentor: Oluwatoyin Asojo, PhD
- Project Title: Production of Medically-Important Proteins of Tick-Borne Relapsing Fever Spirochetes: *Production of proteins Bta112, Bta120, and Bta122 that have roles in vector colonization and initiating mammalian infection.*
- Role: Contributed to data collection and data analysis.

Summer 2018

RNA Bioscience Initiative Summer Research Program

- Advisor and Mentor: Neelanjan Mukherjee, PhD
- Project Title: The role of LINC00473, a long non-coding RNA, in melanoma

SYMPOSIUMS

Spring 2017

COURI Symposium at UTEP

- Symposium for undergraduates conducting research at The University of Texas at El Paso
- Poster presentation: Quantification of mammalian gene expression through polyribosome profiling and quantitative PCR

Summer 2017

SMART Oral Presentation at Baylor College of Medicine

- Oral presentation by students in the program to faculty members in the Biochemistry department.
- Oral presentation: Production of Medically-Important Proteins of Tick-Borne Relapsing Fever Spirochetes

Fall 2017

Border Biomedical Research Consortium Annual Meeting and Symposium

- Meeting to communicate to the research community state-of-the-art basic and applied research focused on health disparities in the borderland and neighboring cities.
- Poster presentation: Regulatory Mechanisms Dictating the Activity of Post-Translational Mechanisms in Mammalian Cells.

BUILDing SCHOLARS Summer Symposium

- Symposium for BUILD fellows who conducted research at various partnered institutions.
- Poster presentation: Production of Medically-Important Proteins of Tick-Borne Relapsing Fever Spirochetes

Summer 2018

RNA Bioscience Initiative Summer Program Oral Presentation

- Oral presentation by students in the program to faculty, and students in the RBI department.
- Oral Presentation: The role of LINC00473, a long non-coding RNA, in melanoma

STUDENT ORGANIZATION MEMBERSHIP

2016

Collegiate Double T Health Professions Honor Society Paul L. Foster Texas Tech School of Medicine

- College honor society that recognizes the outstanding academic achievement of students of disciplines in health professions.

Spring 2016

Students for Public Health

- Student lead organization promoting
- Discuss an instill innovative ways to promote health vaccines

2014-2016

Kiwanis Club of El Paso

- Largest service community in the country and located in 80 nations.
- Part of a family of servant leaders with an aim to help communities, families, and projects.

Fall 2018-Present

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) CU Anschutz Chapter

- Board member: Treasurer
- Society of scientists dedicated to fostering the success of Hispanic/Chicano and Native American scientists-from college students to professionals-to attain advanced degrees, careers, and positions of leadership in science.

Women in STEM at CU Anschutz

- Student-run organization established on the Anschutz Medical Campus in 2015. Mission is to substantially increase the representation and support of women in STEM disciplines through advocacy, skill building, and fostering.

COMMUNITY SERVICE

Fall 2015-2016

Confirmation Aid

St. Mark's Catholic Church, El Paso, Texas

- Helping with two different confirmation classes
- Working with teenagers and church committees

Fall 2016

Non-Profit Organization Volunteer Worker

Rota Care Clinic, El Paso, Texas

- Assisted medical students and physicians with the patients that attended the free Saturday clinics.
- Tasks included taking vitals, translating, and communicating the patients' needs.

REFERENCES

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