**JOE P. SAMPLES**

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## Career Objective: Complete a doctorate in microbiology and pursue a career in research (get as specific as you know...more advanced for PhD students)

## Education:

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| The University of Texas at San Antonio | Bachelor’s Degree in Psychobiology | Expected 5/2017 |
| Palo Alto Community College | Associates Degree in General Sciences | 2015 |

## Professional Experience:

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| ***The University of Texas at San Antonio, San Antonio, TX*** |  |  |
| Undergraduate Research Fellow, MARC Honors Research Training Program UTSA Center for Research and Training in the Sciences |  | 2021-present |
| Undergraduate Research Assistant, RISE Research Training Program UTSA Center for Research and Training in the Sciences |  | 2020-2021 |
| Supplemental Instruction Assistant, Basic Chemistry, UTSA Tomas Rivera Center for Student Success. |  | Fall 2020 |
| Undergraduate Teaching Assistant, Organic Chemistry 1, UTSA Department of Chemistry |  | Spring 2020 |
| Undergraduate Research Assistant, Work Study Research Training Program UTSA Center for Research and Training in the Sciences |  | 2019-2020 |
| Undergraduate Honors Research Volunteer, Department of Biology |  | 2018-2019 |
| ***University of Michigan, Ann Arbor, MI*** |  |  |
| Undergraduate Summer Intern, Research Experiences for Undergraduate Program, Rackham Graduate School. |  | Summer 2021 |

## Honors Thesis: *Induced Regeneration and Gene Expression in the Chick Limb Bud*

## Research Interests:

Neurobiology – Learning and memory, long term potentiation

Respiratory Biology

Physiology of Vision

Cell and Molecular Biology – Cell adhesion and cancer biology

## Research Projects:

***University of Texas at San Antonio*** – Mentor: Abigail P. Wigglesworth – Title: Fatemapping of developing serotonergic neurons in *Drosophila melanogaster.*

* *A little intro*
* *Describe your level of involvement. “Fully Responsible for...” or “Conceived and carried out experiment” or “worked independently on a subsection of a doctoral student’s thesis” or...*
* *Talk about techniques routinely used “Carried out”*
* *Summarize your results “We identified”*
* *Implications of results*

***University of California, Los Angeles*** – Mentor: Antonio Vearitu – Microcinematographic analysis of impact of prenatal methyl mercury exposure on dendritic tree of cerebellar Purkinje cells in rats.

* *Same bullets as above...*

## Research Techniques:

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| RT-PCR  Confocal Microscopy  Plasmid Miniprep  Hippocampal Field Potential Recording  Genomic and plasmid DNA, and RNA isolation and purification  Cell Culture  Blat sequence Alignment | Western Blotting  Morris Maze – Behavioral testing  Tissue Culture – Primary and Cell Line  Agarose and acrylamide gel electrophoresis  RNase protection assays  Florescent Focus Assay  Western Blot (Alkaline Phosphatase Method) |

## Computer Expertise:

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| Matlab - Intermediate  MS Office, Word, Excel – Advanced  R - Intermediate | C++ Programming - Advanced  Python – Novice |

## Scholarships, Honors and Awards:

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| Gold Key National Honor Society |  | 2021 |
| Maximizing Access to Research Careers-Undergraduate Student Training for Academic Research (MARC-U\*STAR) Trainee, National Institute of Health (GM007717) |  | 2020-present |
| National Society of Leadership and Success |  | 2020-present |
| Travel Award - Society for Advancement of Chicanos/Hispanics and Native Americans in Science- The National Diversity in STEM Conference |  | 2020 |
| Poster Award in Microbiology/Immunology, Annual Conference of the Society for the Advancement of Chicanos and Native Americans in Science |  | 2020 |
| Research Initiative for Scientific Enhancement Training Program Trainee, National Institutes of Health (GM060655) |  | 2019-present |
| Dean’s List |  | 2019-present |
| UTSA Honors College – Earning Highest Honors |  | 2019-present |
| Texas Higher Education Coordinating Board Top 10% Scholarship |  | 2019-present |
| University of California Berkeley Summer Undergraduate Research Fellowship Program |  | 2019 |
| Texas Excellence Grant |  | 2018 |

## Professional Affiliations:

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| Society for Advancement of Chicanos and Native Americans in Science |  | 2020-present |
| Society for Neuroscience (student member) |  | 2019-present |
| International Brain Research Organization |  | 2014-2016 |

## Teaching Experience:

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| Lecture Taught: How to Find and Read a Scientific Paper. RISE/MARC Research Careers and Professional Skills Development Course, Gail P. Taylor, Instructor | 2016 |
| Supplemental Instruction Instructor, UTSA Tomas Rivera Center, Basic Biology, Basic Biology | 2014, 2016 |
| Teaching Assistant, UTSA Department of Chemistry, Basic Chemistry | 2015 |

## Additional Training and Workshops:

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| UTSA Laboratory Safety Training (online)  Hazard Communication & Laboratory Safety (SA 443.01)  Hazardous Waste Generator (SA 401)  Researcher Biological Safety and Bloodborne Pathogens (SA 483) | 2021 |
| UTSA Responsible Conduct in Research Training. 9 hours, NIH Approved. Facilitator: Dr. Michelle Stevenson, Associate VP of Research Integrity | 2021 |
| Gallup StrengthsFinder Assessment and Training. Instructor: Dr. Edwin Barea-Rodriguez | 2021 |
| Writing Winning Grants- Grant Writers' Seminars and Workshops for Biomedical Research Scientists. UT San Antonio | 2020 |
| Teaching Survival Skills and Ethics Conference (NIMH and MIMDS) 5 day workshop, | 2019 |
| The Art and Skill of Negotiating, Women in Neuroscience Workshop, Society for Neuroscience Annual Meeting, San Diego | 2018, 2019 |
| Labview Programming, Basics I and II. 5 day course, National Instruments, Austin TX | 2018 |

## Scientific Conferences Attended:

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| Society for Neuroscience Annual Conference | 2021 |
| Annual Biomedical Research Conference for Minority Students (ABRCMS) | 202019 |
| Annual Conference for the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), | 2016 |

## Committees:

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| Member, Colloquium Committee, Department of Biology, University of Texas at San Antonio | 2016 |
| Member, Student Selection Committee, RISE Program, University of Texas at San Antonio | 2015 |
| Focus Group Participant, Transfer Students and Their Transition to UTSA, UTSA MARC Program | 2015 |

## Community Service/Extracurricular Activities:

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| Science Fair Judge - Fortress Christian Academy, San Antonio, Texas | 2018 |
| Math and Science Tutor – Center for Refugee Children, San Antonio, TX | 2016-2017 |
| Volunteer – Safety Checking – Texas Science and Engineering Fair, San Antonio, TX | 2016 |
| Brain Awareness Week Presenter, Witte Museum and San Antonio Children’s Museum, San Antonio, TX | 2015 |
| UTSA Engineering Ambassadors Service Organization | 2015 |
| Career Day Lecturer, Jefferson Jr. High School, San Antonio Independent School District, TX | 2015 |
| Registered Student Organization: Tri-Beta Honors Science Society | 2014-2016 |

## Leadership Activities:

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| Treasurer, Vice President |  | 2015-2016 |
| Student Organizer, University of Texas at San Antonio – San Antonio March for Science |  | 2014-2016 |

## Presentations:

*Buds in Bugs?* Three Minute Thesis Presentation. UTSA Undergraduate Research Showcase, San Antonio, TX, April 24, 2021.

*Embryonic limb bud regulation correlates with Msx1 expression.* Oral Presentation. Society for Fake Conferences. Atlanta, Georgia, May 17, 2021.

*Embryonic limb bud regulation correlates with Msx1 expression*. Annual Dental Research Day, UT Health San Antonio. San Antonio, TX, November 5, 2020

*Embryonic limb bud regulation correlates with Msx1 expression.* Poster Presentation. UTSA College of Sciences Conference, UT San Antonio, San Antonio, TX, October 6, 2020

*A direct method for extraction of mRNA from frozen sections for use in RT-PCR. Poster Presentation.* Society for Advancement of Chicanos and Native Americans in Science, Atlanta, GA, November 2019

## Publications:

***Abstracts:***

**Taylor GP**, Muneoka KM. *Embryonic limb bud regulation correlates with Msx1 expression [abstract].* Society for Fake Conferences, San Antonio, TX, November 14, 2020. Conference Cancelled.

Guggenheim DL, **Taylor GP**, Muneoka KM. *Embryonic Limb buds are better than anything else in the world.* Annual Biomedical Research Conference for Minority Students, Atlanta Georgia, October 5, 2020 – Poster Presentation by DLG.

***Refereed Journal Articles:***

**Taylor** GP, Troyer DA, Giambernardi TA, Klebe RJ. Identification of bacteriophage and symbiotic yeast viruses in cultured Kombucha. J Food Pathol. 2019 Mar;184(3):332-5. PMCID: 5966565

## Students Mentored:

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| Stacie Wentworth | UG – Biology Major | 1/15 – 5/15 | PhD Student – Univ. Michigan, Dev. Biology. |
| John Montoc | UG – BME Major | 1/15 – 12/15 | Medical Student, UT Medical Branch |

## References:

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| Dr. Abigail P. Wigglesworth | Abby.wiggs@utsa.edu | Research Mentor, UTSA |
| Dr. Parisol Showers | Parasol.showers@utsa.edu | Research Mentor, UCLA |
| Dr. Standoff Ish | Standoff0011@yahoo.com | Biology Instructor |
| Dr Pikov Andropov | Edwin.barea@utsa.edu | RISE, MARC Program Director |