**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 U\*STAR Honors Research Training ProgramUTSA Center for Research and Training in the Sciences  | 2015-present |
| Undergraduate Research Assistant, RISE Research Training ProgramUTSA Center for Research and Training in the Sciences  | 2014-2015 |
| Undergraduate Teaching Assistant, Organic Chemistry 1, UTSA Department of Chemistry | Fall 2014 |
| Undergraduate Research Assistant, Work Study Research Training ProgramUTSA Center for Research and Training in the Sciences | 2013-2014 |
| Undergraduate Honors Research Volunteer, Department of Biology | 2013-2014 |
| Supplemental Instruction Assistant, Basic Chemistry, UTSA Tomas Rivera Center for Student Success. |  |
| ***University of Michigan, Ann Arbor, MI*** |  |
| Undergraduate Summer Intern, Research Experiences for Undergraduate Program  | Summer 2014 |

**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...*

**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

**Techniques:**

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| RT-PCRConfocal MicroscopyPlasmid MiniprepHippocampal Field Potential RecordingGenomic and plasmid DNA, and RNA isolation and purificationCell Culture | Western BlottingMorris Maze – Behavioral testingTissue Culture – Primary and Cell LineAgarose and acrylamide gel electrophoresisRNase protection assaysFlorescent Focus AssayWestern Blot (Alkaline Phosphatase Method) |

**Computational Expertise (can combine with above...or keep this only):**

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| Matlab - IntermediateMS Office, Word, Excel – AdvancedR - Intermediate | C++ Programming - AdvancedPython – NoviceBlat sequence Alignment - Intermediate  |

**Scholarships, Honors and Awards:**

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| --- | --- |
| Travel Scholarship - Society for Advancement of Chicanos/Hispanics and Native Americans in Science- The National Diversity in STEM Conference  | 2017 |
| Maximizing Access to Research Careers-Undergraduate Student Training for Academic Research (MARC-U\*STAR) Trainee, National Institute of Health (GM007717) | 2016-Present |
| Poster Award in Microbiology/Immunology, Annual Conference of the Society for the Advancement of Chicanos and Native Americans in Science | 2015 |
| University of California Berkeley Summer Undergraduate Research Fellowship Program | 2015 |
| Research Initiative for Scientific Enhancement Training Program Trainee, National Institutes of Health (GM060655) | 2014-2015 |
| Annual Biomedical Research Conference for Minority Students Travel Award | 2014 |
| National Society of Leadership and Success | 2014-2016 |
| Gold Key National Honor Society  | 2014-2016 |
| Dean’s List | 2014-2016 |
| UTSA Honors College – Earning Highest Honors | 2014-2016 |
| Texas Higher Education Coordinating Board Top 10% Scholarship | 2013-2016 |
| Texas Excellence Grant  | 2013-2016 |

**Professional Affiliations:**

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| Society for Advancement of Chicanos and Native Americans in Science | 2016-2018 |
| Society for Neuroscience (student member) | 2015-2016 |
| International Brain Research Organization | 2014-2016 |
| Women in Science and Engineering | 2013-2016 |
| Women in Neuroscience | 2012-2016 |

**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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| ALL OF THE SAFTEY TRAINING HERE> |  |
| Gallup StrengthsQuest Assessment and Training, Edwin Barea-Rodriguez | 2016 |
| Writing Winning Grants- Grant Writers' Seminars and Workshops for Biomedical Research Scientists. UT San Antonio | 2007 |
| Teaching Survival Skills and Ethics Conference (NIMH and MIMDS) 5 day workshop, | 2006-2008 |
| The Art and Skill of Negotiating, Women in Neuroscience Workshop, Society for Neuroscience Annual Meeting, San Diego | 2006, 2007 |
| Labview Programming, Basics I and II. 5 day course, National Instruments, Austin TX | 2006 |

**Scientific Conferences Attended:**

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| --- | --- |
| Annual Biomedical Research Conference for Minority Students (ABRCMS) | 2016 |
| Annual Conference for the Society for Advancement of Chicanos and Native Americans in Science (SACNAS),  | 2016 |
| Society for Neuroscience Annual Conference  | 2000, 1999  |

**Service and Committees:**

**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 | 201 |
| 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 |
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**Presentations:**

*Embryonic limb bud regulation correlates with Msx1 expression.* Society for Fake Conferences – Annual Dental Research Day. San Antonio, TX, November 2016 – Poster Presentation

*Embryonic limb bud regulation correlates with Msx1 expression.* UTSA College of Sciences Conference, UT San Antonio, San Antonio, TX, October 6, 2016 – Poster Presentation.

*A direct method for extraction of mRNA from frozen sections for use in RT-PCR,* Society for Advancement of Chicanos and Native Americans in Science, Atlanta, GA, November 2016 - Poster. ***Won Best Poster Award.***

## Publications:

***Abstracts:***

**Taylor GP**, Muneoka KM. *Embryonic limb bud regulation correlates with Msx1 expression.* Society for Fake Conferences – Annual Dental Research Day. San Antonio, TX, November 2016 – Oral Presentation

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 2016 – 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 | 210-458-5555 | Research Mentor, UTSA |
| Dr. Parisol Showers | 818-458-5555 | Research Mentor, UCLA |
| Dr. Standoff Ish | 210-458-5555 | Biology Instructor |
| Dr. Edwin Barea-Rodriguez | 210-458-xxxx | RISE, MARC Program Director |