CURRICULUM VITAE

Chris A. Mares, Ph. D.

Assistant Professor of Biology Texas A&M University-San Antonio One University Way, San Antonio, TX 78224 Phone: (210) 784-2265

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EDUCATION/EMPLOYMENT:

2016- present	Assistant Professor	Texas A&M University-San Antonio, Department of Science and Mathematics, Biology program
2016	Adj. faculty	Texas A&M University-San Antonio, Immunology
2015-2016	Adj. faculty	Northwest Vista College, Dual credit program, AP/DC Biology (Bio 1406 and 1407)
2014-2016	Teacher	Warren High School, Chemistry, Northside ISD, San Antonio, Texas (TEA certified 4-8 Science, 7-12 Life Science, and 7-12 Composite Science)
2013-2014	Asst. Prof. of Research	University of Texas at San Antonio, San Antonio, Texas Department of Biological Sciences
2011-2013	Postdoctoral Training	University of Texas Health Science, San Antonio, Texas-Department of Microbiology and Immunology, Laboratory of Dr. Molly Bergman
2010-2011	Postdoctoral Training	St. Jude Children's Research Hospital, Memphis, Tennessee-Department of Immunology, Laboratory of Dr. Thirumala-Devi Kanneganti
2003-2010	Ph.D.	University of Texas Health Science Center, San Antonio, Texas - Microbiology and Immunology, Laboratory of Dr. Judy M. Teale, University of Texas at San Antonio- UTHSCSA
2002-2003	Teacher	Jones Middle School, Northside ISD, San Antonio, Texas
1997-2001	B.S.	University of the Incarnate Word, San Antonio, Texas – Biology

HONORS AND AWARDS:

2013	Mentored Teaching Award, Office of Postdoctoral Affairs, UTHSCSA
2011-2012	Ford Foundation Postdoctoral Fellowship, National Research Council/National Academy of Sciences
2010	Keystone Symposia Travel Scholarship (The Macrophage)
2008-2010	National Institutes of Health/National Institute of Aging Dissertation Award (R36AG033400-01)
2005-2006	Microbial Pathogenesis Training Grant (T32AI7271), Department of Microbiology and Immunology, UTHSCSA Sponsor: Judy M. Teale, Ph.D.
1997-2001	Southwestern Bell Academic Scholarship (UIW)
1997-2001	University of the Incarnate Word Presidential Academic Scholarship
1998	Alpha Lambda Delta (UIW)
1998	Heart of Texas Conference Academic Excellence (UIW)
1997	University of Texas at Austin Presidential Academic Scholarship (declined)
1997	National Hispanic Scholar
1997	National Macy Scholar

FORMAL TEACHING:

2016-present	Assistant professor, Immunology (BIOL 4408), Cell Physiology (BIOL 3409), Cell Biology (BIOL 2431), General Biology I (BIOL1306/1106), Integrative Biology Seminar (BIOL 4101), Texas A&M University-San Antonio, San Antonio, Texas
2016	Adjunct faculty, Immunology (BIOL 4408), Texas A&M University-San Antonio, San Antonio, Texas
2014-2016	Chemistry and AP Biology teacher, (TEA certified in 4-8 science, 7-12 life and composite science and BIOL 1406-1407), Warren High School/Northwest Vista College, Northside ISD, San Antonio, Texas

2013	Co-instructor, Immunology (BIOL 4743), University of Texas at San Antonio, Department of Biology, San Antonio, Texas (Fall, 11 lectures, Average rating 4.61 out of 5)**
2013	Lecturer, Toxicology (BL3440), St. Mary's University, Department of Biological Sciences, San Antonio, Texas (Spring, 4 lectures, Average rating 4.631 out of 5)**
2012	Lecturer, Fundamentals of Biosciences (INTD 5000), University of Texas Health Science at San Antonio, Graduate School of Biomedical Sciences, San Antonio, Texas (Fall, 2 lectures, Average rating 4.51 out of 5)**
2012	Lecturer, Immunology (BIOL 4073), University of Texas at San Antonio, Department of Biology, San Antonio, Texas (Fall, 2 lectures)
2010	Adjunct Instructor, Intro. to Microbiology (BIOL 2474 L1 and L2), Department of Biology, University of the Incarnate Word, San Antonio, Texas (Spring, Entire course, Average rating 4.37 out of 5)**
2010	Adjunct Instructor, Ecology (BIOL 3442 L1 and L2), University of the Incarnate Word, Department of Biology, San Antonio, Texas (Spring)
2010	Lecturer, Intro. to Immunology (BIOL 4073), University of Texas at San Antonio, Department of Biology (Spring, 2 lectures)
2009	Lecturer, Intro. to Immunology (BIOL 4073), University of Texas at San Antonio, Department of Biology (Fall, 2 lectures)
2008	Guest lecturer, General Microbiology (BIOL 3471), University of the Incarnate Word, San Antonio, Texas (1 lecture)
2008	Guest lecturer, Medical Microbiology (BIOL 4375), University of the Incarnate Word, San Antonio, Texas (1 lecture)
2003-2005	Instructor, Medical Microbiology, Medical School, University of Texas Health Science Center at San Antonio, San Antonio, Texas (Entire course)
2003	Assistant Instructor, Dental Microbiology, Dental School, University of Texas Health Science Center at San Antonio, San Antonio, Texas (2 lectures)
2002-2003	8 th grade science teacher (certified teacher by Texas Education Agency 4-8 science), Jones Middle School, Northside ISD, San Antonio, Texas (Entire academic school year)
2002-2010	Catechist, 1st, 4th, and 5th grade Holy Rosary Parish, San Antonio, Texas

** student evaluations available upon request

SUPERVISORY TEACHING:

2018-present	Ashley Hughes, Undergraduate researcher, Texas A&M University-San Antonio
2016-2018	Amanda Martinez (Adivsor: Dr. Floyd Wormley); guided Honors Thesis project at UTSA
2013-2014	Margarita Akopian (Advisor: Dr. Judy M. Teale); guided Honors Thesis project at UTSA
2013-2014	Karina Lemus (Advisor: Dr. Judy M. Teale), guided independent study project at UTSA
2014	Daisy Kwende (Advisor: Dr. Judy M. Teale), guided independent study project at UTSA
2012-2013	Norberto Gonzalez Juarbe (Advisor: Dr. Molly Bergman), rotation student in Graduate Biomedical School Program at UTHSCSA
2012	William Hambright (Advisor: Dr. Molly Bergman), rotation student in Graduate Biomedical School Program at UTHSCSA
2011	Fernando Lugo (Advisor: Dr. Molly Bergman), rotation student in Graduate Biomedical School Program at UTHSCSA
2008-2011	Pramod Mishra (Advisor: Dr. Judy M. Teale); junior advisor and mentor for dissertation project and post-graduate career paths
2009-2010	Edward Rangel (Advisor: Dr. Judy M. Teale); guided summer research and independent study at UTSA
2009	Melissa Esquivel (Advisor: Dr. Judy M. Teale); guided independent study at UTSA
2008	Jocelyn Campos (Advisor: Dr. Judy M. Teale); guided Honors Thesis project at UTSA
2007	Todd Siluk (Advisor: Dr. Judy M. Teale); guided summer research project at UTSA

PUBLICATIONS:

In preparation:

- 1. **Mares C.A.**, Albataineh M., Lugo F., Goins B, Isberg R.R., Newton I, Bergman M.A. Evolution of decreased YopJ function and increased virulence of pathogenic yersiniae. Under revision.
- 2. Vanegas D, Church K, Mishra P, **Mares C.A.**, Cardona S, Cardona AE. Pathogenic inflammation and neuronal damage during murine neurocysticercosis associates with increased expression of IL-1β. In preparation.

Peer-reviewed publications:

- 1. Page R., Espinosa J., **Mares C.A.**, del Pilar J., and Shelton G.R. The curvy road to success. Journal of College Science Teaching, 47 (5), May 5, 2018.
- Mishra P.K, Li Q., Munoz L., Mares C.A., Morris E.G., Teale J.M., Cardona A.E. Reduced Leukocyte Infiltration in Absence of Eosinophils Correlates with Decreased Tissue Damage and Disease Susceptibility in ΔdblGATA Mice during Murine Neurocysticercosis. PLoS Negl Trop Dis 10(6): e0004787. doi:10.1371/journal.pntd.0004787, June 22, 2016.
- 3. Gonzalez Juarbe N., **Mares C.A.**, Hinojosa C., Medina J., Cantwell A., Dube P., Orihuela C., Bergman M.A. Requirement for *Serratia marcescens* cytolysin in a murine model of hemorrhagic pneumonia. Infection and immunity, doi: 10.1128/IAI.01822-14, Nov 24, 2014.
- 4. Ojeda S.S., **Mares C.A.**, Alvarez J.I., Li Q. Orihuela C.J., Teale J.M. Virulence factors involved in passage of *Francieslla novicida* through an air-blood barrier model. Journal of Bioterrorism & Biodefense, S3:003, 2011.
- 5. Sharma J., **Mares C.A.**, Li Q., Morris E.G., Teale J.M. Features of sepsis caused by pulmonary infection with *Francisella tularensis* Type A strain. Microbial Pathogenesis, 51(1-2):39-47, 2011.
- 6. Fu J., **Mares C.**, Lizcano, A., Liu Y., Wickes B.L. Insertional mutagenesis combined with an inducible filamentation phenotype reveals a conserved STE50 homolog in *Cryptococcus neoformans* that is required for monokaryotic fruiting and mating. Molecular Microbiology, 79(4):990-1007, 2011.

- 7. **Mares C.A.**, Sharma J., Ojeda S.S., Campos J.A.*, Li Q., Morris E.G., Coalson J.J., Teale J.M. Aged mice display an attenuated pulmonary host response to *Francisella novicida*. PLoS ONE, 5(11):e14088, 2010.
- 8. **Mares C.A.**, Sharma J., Li Q., Rangel E.*, Esquivel M.*, Morris E.G., Teale J.M. Defect in efferocytosis leads to alternative activation of macrophages in Francisella infections. Immunology and Cell Biology, 89(2):167-172, 2010. **highlighted as an Outstanding Observation
- 9. **Mares C.A.**, Ojeda S.S., Li Q., Morris E.G., Coalson J.J., Teale J.M. Aged mice display an altered pulmonary host response to *Francisella tularensis* live vaccine strain (LVS) infections. Experimental Gerontology, 45(2): 91-96, 2010.
- 10. Ojeda S.S., Wang Z.J., **Mares C.A.**, Chang T.A., Li Q., Morris E.G., Jerabek P.A., Teale J.M. Rapid dissemination of *Francisella tularensis* and the effect of route of infection. BMC Microbiology, 8(1): 215, 2008.
- 11. **Mares C.A.**, Ojeda S.S., Morris E.G., Li Q., Teale J.M. Initial delay in the immune response to *Francisella tularensis* is followed by hypercytokinemia characteristic of severe sepsis and correlating with upregulation and release of damage-associated molecular patterns. Infection and Immunity, 76(7):3001-3010, 2008.

ABSTRACTS:

- 1. **Mares C.A.**, Albataineh M., Lugo F., Isberg R.R., Bergman M.A. YopJ suppresses virulence of Yersinia by inducing macrophage cytotoxicity. UTHSCSA Department of Microbiology and Immunology Retreat, San Antonio, TX 2012. **Presented as a poster and oral presentation
- 2. **Mares C.A.**, Albataineh M., Lugo F., Isberg R.R., Bergman M.A. YopJ suppresses virulence of Yersinia by inducing macrophage apoptosis. 4th Annual Mikiten Graduate Student Research Forum, San Antonio, TX, 2012.
- 3. **Mares C.A.**, Sharma J., Li Q., Rangel E., Escobar M., Morris E.G., Teale J.M. Defect in efferocytosis leads to alternative activation of macrophages in Francisella infections. Keystone Symposia on The Macrophage in Banff, Alberta. Poster abstract, 2010.
- 4. **Mares C.A.**, Sharma J., Ojeda S.S., Li Q., Campos J. A., Morris E.G., Coalson J.J., Teale J.M. Aged mice display an attenuated pulmonary host response to

^{*} denotes undergraduate student contributors

- Francisella tularensis sp. novicida. Student Research Day 2009 at UTHSCSA/Barshop Institute. Poster Abstract, 2009.
- 5. **Mares C.A.**, Ojeda S.S., Li Q., Morris E.G., Barrera C.A., Teale J.M. Virulence of *Francisella tularensis* sp. *novicida* correlates with a delay in the innate immune response. 5th International Congress on Tularemia in Woods Hole, MA. Poster Abstract. 2006
- 6. Ojeda S.S., Barrera C.A., Li Q., Morris E.G., **Mares C.A.**, Teale J.M. Characterization of chemokine expression in lungs of mice infected with *Francisella tularensis* sp. *novicida*. 5th International Congress on Tularemia in Woods Hole, MA. Poster Abstract. 2006.
- 7. **Mares C.A.**, Ojeda S.S., Barrera C.A., Li Q., Morris E.G., Teale J.M. Effects of aging on the innate immune response to *Fracisella tularensis* LVS. 5th International Congress on Tularemia in Woods Hole, MA. Poster Abstract. 2006.
- 8. Mishra, B.B., Mares C.A., Mishra P.K., Grewal H.S. and Teale J.M. Toll-like receptors in murine neurocystercercosis. Keystone Symposia on Innate Immunity in Banff, Alberta. Poster abstract, 2005.

FUNDING:

2018	Summer Faculty Research Fellowship, College of Arts & Science, Texas A&M University-San Antonio
2013-2014	Minority Supplement Award, National Institute of Neurological Diseases and Stroke (R01 NS078501 02S1), Department of Biology, UTSA, Dr. Judy Teale-PI
2013	Mentored Teaching Award, Office of Postdoctoral Affairs, UTHSCSA
2011-2012	Ford Foundation Postdoctoral Fellowship, National Research Council of The National Academies; Mares-PI, Sponsors: Dr. Thirumala-Devi Kanneganti and Dr. Molly Bergman
2008-2010	National Institutes of Health/National Institute on Aging Dissertation Award (R36 AG033400); Mares-PI
2005-2006	Microbial Pathogenesis Training Grant (T32 AI7271), Department of Microbiology and Immunology, UTHSCSA Sponsor: Dr. Judy M. Teale

SERVICE:

Service to the Department of Science and Mathematics:

2016-present	General Biology/Life Sciences planning committee
2016-present	Sponsor-Pre-Health Society
2016-2017	STEM building – Biology program
2017-present	Health Professions Advisory Committee
2017	Developmental Biology Faculty Search Committee
2017	Adjunct Lecturer Search Committee
2017	Chair Anatomy & Physiology Lecturer Search Committee
2017-present	Liason/On-site mentor for UT-Health MIMG undergraduate research
	program
2017, 2019	New Student Orientation Faculty representative
2018-present	Texas A&M College of Medicine Summer Undergraduate Research
	Selection Committee Chair
2018	Systematist/Water-related Biology Faculty Search Committee

Service to the College/University

2017-2019	College level Curriculum Committee
2017-2018	JagTracks 3 and 4 development committee
2018-present	Texas Higher Education Coordinating Board-Biology Field of Study
	Advisory Committee
2019-present	Biology/Composite Science Teacher Certification Panel
2019-present	Institutional Animal Care and Use Committee
2019-present	Institutional Biosafety Committee

Service to the Community:

service to the	Community.
2006	Volunteer practice judge, Academic Decathlon, O.W. Holmes High
	School, Northside ISD, San Antonio, Texas
2008	Science Fair Judge, Forbes Elem., San Antonio ISD, San Antonio, Texas
	2012-2017 Career Day presenter, Linton Elem., Northside ISD, San
	Antonio, Texas
2016	Sul Ross gifted and talented presenter, Northside ISD, San Antonio,
	TX
2016-present	Core4STEM Hispanic Chamber of Commerce presenter
2016-present	Science Olympiad Subject Facilitator
2017	UTSA College of Science Poster Judge

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

2017-present American Association for the Advancement of Science

2017-present American Association for Immunologists

2017-present American Association for Microbiology

2017-present National Association for Biology Teachers