

Curriculum Vitae
Salina Marie Torres, Ph.D., M.P.H.

Contact Information

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Education and Training

1999-2003	MPH, University of Texas-Houston School of Public Health, El Paso, TX.
1999-2002	Graduate Research Assistant, University of Texas-Houston School of Public Health, El Paso, TX.
2000	Research Consultant (field work in Bolivia), Centers for Disease Control and Prevention, Atlanta, GA.
2002-2008	Ph.D., University of New Mexico-School of Medicine, Biomedical Sciences, Albuquerque, NM.
2008-2009	Postdoctoral fellow, University of New Mexico, Division of Epidemiology and Biostatistics, Albuquerque, NM.
2009-2012	Academic Science Education and Research Training Scholar, University of New Mexico, Institutional Research and Career Development Award, Albuquerque, NM
2011-2012	Postdoctoral scholar, National Science Foundation FIRST IV for reform of undergraduate science education. Kellogg Biologic Research Station. Michigan

Membership in Professional Societies

American Association for Cancer Research (AACR)
American Society of Preventive Oncology
Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
Society for Melanoma Research

Awards and Honors

2000-2002	Graduate Research Assistantship – NIH Minority Supplement Award, National Institute of Diabetes and Digestive and Kidney Diseases.
2004	Student Poster Award, University of New Mexico Biomedical Sciences Graduate Program, Student Research Day.
2005	Student Poster Award: 3 rd Place, University of New Mexico Biomedical Sciences Graduate Program, Student Research Day.

- 2006 Graduate Student Travel Award for the 2006 Annual Meeting of the Society of Toxicology (SOT), March 5-9, in San Diego, California.
- 2008 Invited platform presentation travel award - 3rd Annual Mitochondrial Mini Symposium
- 2008 Travel Award for the 2008 Annual Meeting of the Environmental Mutagen Society, October 18 -22, in Rio Grande, Puerto Rico.
- 2008 Environmental Mutagen Society Student Poster Merritt Award
- 2009 First Editor's Choice manuscript, 2009, for "Mutational analysis of the mitochondrial tRNA genes and flanking regions in umbilical cord tissue from uninfected infants receiving AZT-based therapies for prophylaxis of HIV-1".
- 2009 Travel award for the 2009 Cancer Health Disparities: Building Bridges to Improve Rural Health Conference. Las Cruces, NM
- 2010 Evan's Trust Scholarship recipient
- 2010 Travel award for the 2010 Annual Meeting for the Society for Advancement of Chicanos and Native Americans in Science (SACNAS), September 29 – October 3, Anaheim, CA.
- 2011 Travel Award for the 2011 American Society of Preventive Oncology, March 6-8, Las Vegas, NV.
- 2011 NIH Loan Repayment Program

Research Support

- DK53664-S1 K. Goodman (PI) 2000-2002
NIH Minority Supplement Award-National Institute of Diabetes and Digestive and Kidney Diseases Epidemiology of Helicobacter pylori infection in children residing along the U.S.-Mexico border. **Role:** Graduate Research Assistant
- 1F31-HL819828 V. Walker (Mentor) 2005-2007
National Heart, Lung, and Blood Institute – Ruth L. Kirschstein National Research Service Award “Mitochondrial toxicity of AZT-3TC in experimental models” - the goal was to determine the impact on transplacental exposure to NRTIs on cardiac tissue and mitochondria. **Role:** Predoctoral student
- R01CA112524 M. Berwick (PI) 2009-2010
Research Supplement to Promote Diversity in Health-Related Research. Sun exposure and melanoma mortality. **Role:** Postdoctoral Fellow
- 1K12GM088021 A. Wandinger-Ness (PI) 2009-2012
University of New Mexico, Institutional Research and Academic Career Development Award: Academic Science Education and Research Training Program **Role:** Postdoctoral Fellow

Peer Reviewed Research Papers and Book Chapters

Torres SM, Walker DM, Carter MM, Cook Jr. DL, McCash CL, Cordova EM, Olivero OA, Poirier MC, and Walker DM. (2007) Mutagenicity of Zidovudine,

Lamivudine, and Abacavir Following In Vitro Exposure of Human Lymphoblastoid Cells or In Utero Exposure of CD-1 Mice to Single Agents or Drug Combinations. *Environ Mol Mutagen.* 48(3-4):224-238.

Carter MM, **Torres SM**, Cook Jr. DL, McCash CL, Yu M, Walker VE, and Walker DM. (2007) Relative Mutagenic Potencies of Several Nucleoside Analogs, Alone or in Drug Pairs, at the HPRT and TK Loci of Human TK6 Lymphoblastoid Cells. *Environ Mol Mutagen.* 48(3-4):239-247.

Meng Q, Walker DM, McDonald JD, Henderson RF, Carter MM, Cook DL, McCash CL, **Torres SM**, Bauer MJ, Seilkop SK, Upton PB, Georgieva NI, Boysen G, Swenberg JA, Walker VE. (2007) Age-, gender-, and species-dependent mutagenicity in T cells of mice and rats exposed by inhalation to 1,3-butadiene. *Chem Biol Interact.* 20;166(1-3):121-31.

Torres SM, Walker DM, McCash CL, Carter MM, Ming J, Cordova EM, Pons RM, Cook DL, Copeland WC, Walker VE. (2009) Mutational analysis of the mitochondrial tRNA genes and flanking regions in umbilical cord tissue from uninfected infants receiving AZT-based therapies for prophylaxis of HIV-1. *Environ Mol Mutagen* 50:10-26.

Walker DM, Kajon AE, **Torres SM**, Carter MM, McCash CL, Swenberg JA, Upton PB, Hardy AW, Olivero OA, Shearer GM, Poirier MC, Walker VE. (2009) WR1065 mitigates AZT-ddl induced mutagenesis and inhibits viral replication. *Environ Mol Mutagen.* 50(6):460-72.

Torres SM and Berwick M. (2009) Melanoma skin cancer. *Textbook of Aging Skin.* Springer Berlin Heidelberg.

Torres SM, Walker DW, Divi RL, Poirier MC, Walker VE. (2010). Transplacental exposure to antiretroviral drugs and cardiotoxicity in offspring. Charlene McQueen, *Comprehensive Toxicology 2nd Edition.* Vol. 6: 305-321 Oxford: Elsevier.

Torres SM, March TH, Carter MM, McCash CL, Seilkop SK, Poirier MC, Walker DM, Walker VE. (2010) *In Utero* Exposure of Female CD-1 Mice to AZT and/or 3TC: I. Persistence of Microscopic Lesions in Cardiac Tissue. *Cardiovascular Toxicology.* 10(1):37-50.

Torres SM, Divi RL, Walker DM, McCash CL, Carter MM, Campen MJ, Einem TL, Chu YL, Seilkop SK, Kang H, Poirier MC, Walker VE. (2010) *In Utero* Exposure of Female CD-1 Mice to AZT and/or 3TC: II. Persistence of Functional Alterations in Cardiac Tissue. *Cardiovascular Toxicology.* 10(2):87-99.

Erdei E and **Torres SM**. (2010) A new understanding in the epidemiology of melanoma. *Expert Review of Anticancer Therapy.* 10(11):1811-1823.

Berwick M, Erdei E, Gonzales M, **Torres S**, Flores K. (2011) Advances in skin cancer prevention, screening, and treatment. Mandelon L. Finkel Public Health in the 21st Century. Vol 2:215:229. Praeger.

Torres SM, Erdei E, Berwick M, Matullo G, Vineis P. (2011) Molecular Epidemiology. Handbook of Epidemiology. Springer. In Press

Torres SM, Ramos M, Leverence R, Bowen D, Berwick M, Hay J. (2012) Skin cancer risk reduction, information-seeking, and beliefs in Hispanics in a Southwestern primary care practice. Journal of Psycho-Oncology Submitted

Manuscripts in preparation

Torres SM, Ianakieva D, Ianakieva V, Berwick M, the GEM study group. 2012. Gender differences in melanoma. In preparation for submission to Journal of Investigative Dermatology

Torres SM, Worchester H, Howard T, Prossnitz E, Berwick M. 2012. GPR30 expression in melanoma lesions: a pilot study. In preparation for submission to Cancer Epidemiology

Ng Y, Stabile L, **Torres S**, Berwick M, Sigfried J. 2012. Profiling of ErbB receptor in melanoma. In preparation for submission to Journal of Dermatological Science

Abstracts

1. Torres S, Walker VE, Long L, Olivero OA, Poirier MC, Walker DM. (2003) Mutagenicity of AZT, 3TC, and AZT-3TC at the *HPRT* and *TK* Loci of Human Lymphoblastoid Cells, TK6. Conference Proceedings, AACR International Conference in Cancer Research: Molecular and Genetic Epidemiology of Cancer, p. A47.
2. Torres S, Walker VE, Poirier MC, Olivero OA, Cook D, Ontiveros A, Ming J, Carter M. (2003) Mutagenicity of AZT, 3TC, and AZT-3TC at the *HPRT* and *TK* genes of TK6 Human Lymphoblastoid Cells. Conference Proceedings, SACNAS 2003 National Conference, p. 90.
3. Torres S, Walker VE, Carter M, Cook D, Olivero OA, Poirier MC, Walker DM. (2004) Relationship between Exposure Concentration, Duration, and Mutagenicity Following Treatment of Human Lymphoblastoid TK6 Cells to AZT, 3TC, and AZT-3TC. University of New Mexico Biomedical Sciences Graduate Program, 2004 Student Research Day.

4. Torres S, Olivero OA, Walker VE, Carter M, Cook D, Poirier MC, Walker DM. (2004) Relationships Between Exposure Concentration, Exposure Duration and Mutagenic Effect in Human Lymphoblastoid TK6 Cells Treated with AZT, 3TC, and AZT-3TC. 8th International Conference on Malignancies in AIDS and Other Immunodeficiencies (ICMAOI): Basic, Epidemiologic, and Clinical Research, 76.
5. Torres S, Walker V, Olivero O, Carter M, Cook D Jr, Poirier M, and Walker D. (2004) Relationships between Exposure Concentration, Exposure Duration, Levels of DNA Incorporation of Drugs and Mutagenic Effects in Human Lymphoblastoid TK6 Cells exposed *in vitro* to AZT, 3TC, and AZT-3TC. 35th Annual EMS Meeting, Pittsburgh, PA. Environ Mol Mutagen. 2004. 44: abstract #180.
6. Torres S, Carter MM, Walker VE, Olivero OA, Cook D Jr, Poirier MC, Walker DM. (2005) Comparison of Mutagenic Effects in Human Lymphoblastoid TK6 Cells Exposed *in vitro* to AZT-3TC and d4T-3TC. University of New Mexico Biomedical Sciences Graduate Program, 2005 Student Research Day.
7. Torres SM, Cook DL Jr., Walker DM, Olivero OA, Poirier MC, Walker VE. (2005) Analysis of Mutations in the p53 Tumor Suppressor Gene in CD-1 Mice Following Transplacental Exposure to AZT. SACNAS 2005 National Conference, pg 12.
8. Torres SM, Cook Jr. DL, McCash C, Walker DM, Olivero OA, Poirier MC, Walker VE. (2006) Refinement of PCR-Based DGGE for Analysis of Mutations in the p53 Tumor Suppressor Gene Following In Utero Exposure to NRTIs. 45th Annual SOT Meeting, San Diego, CA. The Toxicologist 198: abstract #971.
9. Torres S, Divi R, McCash C, Einem T, Walker D, Poirier M, Walker V. (2008) In utero exposure of female CD-1 mice to nucleoside reverse transcriptase inhibitors (NRTIs) leads to temporal changes in mitochondrial structure, function, and mutations. 3rd Annual Mitochondrial Mini Symposium Bethesda, MD. Abstract #36.
10. Torres S, Divi R, McCash C, Einem T, Walker D, Poirier M, Walker V. (2008) In utero exposure of female CD-1 mice to nucleoside reverse transcriptase inhibitors (NRTIs) leads to temporal changes in mitochondrial structure, function, and mutations. University of New Mexico Biomedical Sciences Graduate Program, 2008 Student Research Day. pg. 11.
11. Torres SM, Divi RL, McCash CL, Einem T, Walker DM, Poirier MC, Walker VE. (2008) Temporal changes in mitochondrial structure, function, and

- mutations following *in utero* exposure of female CD-1 mice to AZT, 3TC, or AZT/3TC. 47th Annual SOT Meeting, Seattle, WA
12. Walker DM, Walker VE, Torres SM. (2008) Overview of rodent transplacental carcinogenicity and genotoxicity studies involving NRTIs. 47th Annual SOT Meeting, Seattle, WA
 13. Torres SM, Walker DM, Seilkop SK, Copeland WC, Walker VE. (2008) DGGE-based detection of mitochondrial tRNA gene and flanking region mutations in umbilical cord tissue from HIV-1 uninfected infants receiving perinatal AZT-based therapies. 39th Annual EMS Meeting, San Juan, Puerto Rico
 14. Torres SM, Fine JA, Berwick M. (2009) Health disparities in melanoma. Cancer Health Disparities: Building Bridges to Improve Rural Health Conference. Las Cruces, NM
 15. Torres SM, Howard T, Prossnitz E, Worcester H, Berwick M. (2009) Estrogen receptor expression in melanoma lesions. Society for Melanoma Research 2009 International Congress. Boston, MA
 16. Torres SM, Howard T, Prossnitz E, Worcester H, Paine S, Berwick M. (2010) A molecular epidemiology study of estrogen and melanoma progression. IRACDA conference. Boston, MA
 17. Torres SM, Berwick M, Leverage R, Bowen DJ, Hay JL. (2010) Skin cancer genomic communication among patients treated at a primary care clinic in New Mexico, USA. Society for Melanoma Research 2010 International Congress. Sydney, Australia
 18. Torres SM, Field A, Rivera M, Prossnitz E, Berwick M. (2011) Estrogen receptor expression in melanoma. IRACDA conference. Houston, TX.
 19. Torres SM, Shuster M. (2012) A tale of two cousins: teaching basic biology concepts using a case study from a mass media story. IRACDA conference. Philadelphia, PA.

Invited Lectures/Platform Talks

- 2003 Mutagenicity of AZT, 3TC, and AZT-3TC at the *HPRT* and *TK* genes of TK6 Human Lymphoblastoid Cells. SACNAS 2003 National Conference.
- 2004 Relationships between Exposure Concentration, Exposure Duration, Levels of DNA Incorporation of Drugs and Mutagenic Effects in Human Lymphoblastoid TK6 Cells exposed *in vitro* to AZT, 3TC, and AZT-3TC. 35th Annual EMS Meeting.

- 2005 Analysis of Mutations in the p53 Tumor Suppressor Gene in CD-1 Mice Following Transplacental Exposure to AZT. Society for the Advancement of Chicanos and Native Americans: 2005 National Conference.
- 2008 In utero exposure of female CD-1 mice to nucleoside reverse transcriptase inhibitors (NRTIs) leads to temporal changes in mitochondrial structure, function, and mutations. 3rd Annual Mitochondrial Mini Symposium.
- 2011 Science & Leadership. First Annual Southwest HEP-CAMP Student Leadership Conference.
- 2011 Elucidating the role of steroid hormones in melanoma progression and survival. American Society of Preventive Oncology, 35th Annual Meeting: New Investigators Workshop.
- 2012 Science & Leadership. Second Annual Southwest HEP-CAMP Student Leadership Conference.

Invited Manuscript Review from the following Journals

Cardiovascular Toxicology
 Epidemiology
 Environmental and Molecular Mutagenesis
 Pan American Journal of Public Health
 Archives of Dermatology

Teaching Experience

Spring 2010: Environmental Health and Toxicology Undergraduate course taught at Northern New Mexico College, Espanola New Mexico – designed and delivered course lectures, assignments and exams

Spring 2010: Public Health Issues for Pharmacists University of New Mexico, Albuquerque, NM - guest lecture for Pharm D students

Spring 2011: Undergraduate Cellular and Organismal Biology New Mexico State University, Las Cruces, NM – designed and delivered lecture and in class activities, assignments and exam questions

Spring 2011: Public Health Issues for Pharmacists – University of New Mexico, Albuquerque, NM - guest lecture for Pharm D students

Fall 2011: Cancer Biology – New Mexico State University, Las Cruces, NM - co-designed course, delivered lecture and in class activities, assignments and exam for one block of the course (6 class meetings)

Spring 2012: Introduction to Biology for non-majors course team-taught at Southwestern Indian Polytechnic Institute, Albuquerque, NM – redesigned undergraduate biology curriculum to integrate active learning at this minority serving institution

Service

Student Abstract Review and Poster Judging:

- 2010, 2011 Judge for Biomedical Sciences Graduate Program Student Research Day
- 2010, 2011 Abstract review Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) annual meeting
- 2010 Judge for poster presentations for SACNAS annual meeting
- 2011, 2012 Science & Leadership. Annual Southwest High School Equivalency Program-College Assistance Migrant Program: Student Leadership Conference.

Mentoring:

- 2010, 2011 Undergraduate mentor, Undergraduate Pipeline Network as part of the UNM Biomedical Research Education Programs
- 2010-2012 Medical student research mentor, as part of medical school research project – mentored 2 students