

Lisa R. Treviño, PhD

Vice President for Research and Development
DHR Health
DHR Health Institute for Research and Development
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Employment

Doctors Hospital at Renaissance, Edinburg, TX 78539;
January 2014-present
Vice President
Research and Development

Baylor College of Medicine
Human Genome Sequencing Center, Houston TX 77030;
January 2010-January 2014
Project manager/Staff Scientist

Education and Training

St Jude Children's Research Hospital, Memphis, TN; 2006-2009
Postdoctoral Research fellow
Pharmacogenomics
Pharmaceutical Science Department

University of California, Santa Cruz; Santa Cruz, CA; 2000-2006
PhD Molecular, Cellular and Developmental Biology

University of Texas at San Antonio; San Antonio, TX; 1997-2000
MS Biotechnology; Molecular Endocrinology

University of Texas at San Antonio; San Antonio, TX; 1992-1996
BS Biology

Areas of expertise

Clinical Trial Office Management: Departmental management; staff hiring; hospital administration; clinical trial management; clinical trial patient recruitment; clinical trial contract and budget negotiation; clinical trial recruitment marketing strategies; physician outreach; patient outreach; sponsor liaison;

Professional Partnerships within Clinical Trials Office

Large PhRMA industry
Biotechnology industry
CRO industry
Academic Research Institutions

IRB Office Management: Identification of IRB members; IRB member training management; IRB management system setup and training (IRBNet).

Discipline Expertise:

Genomics; Cancer genomics; Next generation DNA/RNA sequencing; Medical genomics; Pharmacogenomics; Biology; Molecular biology; Genetics; Cancer biology; Bioinformatics; Population genetics;

Technical expertise

Laboratory expertise: PCR; Nucleic acid extraction; Western, Northern blot analyses; gel electrophoresis; two-dimensional gel electrophoresis; oligonucleotide microarray analysis (Affymetrix); SNP-array analysis (Affymetrix); Cell and tissue culture; pharmacokinetic and pharmacodynamics mouse studies; Sanger sequencing;

Software proficiency: Microsoft Office; Statistica; Haploview; JMP; Adobe Illustrator; IGV; Nexus Biodiscovery;

Languages spoken

English; fluent
Spanish; native speaker; fluent;

Certifications

Texas Hospital Association Leadership Fellows Program Class of 2015
Lean Six Sigma Green Belt, Doctors Hospital at Renaissance 2014
Bilingual interpreter (Spanish) for Texas Children's Hospital, 2013

Teaching Experience

Cell Biology Bio 110;
University of California, Santa Cruz; 2002

Human Genome Bio 80H
University of California, Santa Cruz; 2001

Scientific Journal Reviewer

Scientific reviewer for manuscripts submitted for publication in scientific peer-reviewed journals

Publications (Manuscripts in reverse chronological order)

1. Exome Sequencing of Hepatoblastoma Reveals Recurrent Mutations in NFE2L2. *In preparation.*
2. Genomic analysis of hepatoblastoma identifies distinct molecular and prognostic subgroups. Sumazin P, Chen Y, **Treviño LR**, et al., *Hepatology*. 2017 Jan;65(1):104-121
3. Genomic Profiling of Pediatric Acute Myeloid Leukemia Reveals a Changing Mutational Landscape from Disease Diagnosis to Relapse. Farrar JE, Schuback HL, Ries RE, Wai D, Hampton OA, **Treviño LR**, Alonzo TA, Guidry Auvil JM, Davidsen TM, Gesuwan P, Hermida L, Muzny DM, Dewal N, Rustagi N, Lewis LR, Gamis AS, Wheeler DA, Smith MA, Gerhard DS, Meshinchi S. *Cancer Res*. 2016 Apr 15;76(8):2197-205.
4. Mutually exclusive recurrent somatic mutations in MAP2K1 and BRAF support a central role for ERK activation in LCH pathogenesis. Chakraborty R, Hampton OA, Shen X, Simko SJ, Shih A, Abhyankar H, Lim KP, Covington KR, **Treviño L**, Dewal N, Muzny DM, Doddapaneni H, Hu J, Wang L, Lupo PJ, Hicks MJ, Bonilla DL, Dwyer KC, Berres ML, Poulidakos PI, Merad M, McClain KL, Wheeler DA, Allen CE, Parsons DW. *Blood*. 2014 Nov 6;124(19):3007-15.
5. Comprehensive molecular characterization of clear cell renal cell carcinoma. The Cancer Genome Atlas. *Nature*. 2013 Jul 4;499(7456):43-9
6. Identification of TP53 as an acute lymphocytic leukemia susceptibility gene through exome sequencing. Powell BC, Jiang L, Muzny DM, **Treviño LR**, Dreyer ZE, Strong LC, Wheeler DA, Gibbs RA, Plon SE. *Pediatr Blood Cancer*. 2013 Jun;60(6):E1-3.
7. Comprehensive molecular characterization of human colon and rectal cancer. The Cancer Genome Atlas Network. *Nature*. 2012 Jul 18;487(7407):330-7.
8. Rare versus common variants in pharmacogenetics: SLCO1B1 variation and methotrexate disposition. Ramsey LB, Bruun GH, Yang W, **Treviño LR**, Vattathil S, Scheet P, Cheng C, Rosner GL, Giacomini KM, Fan Y, Sparreboom A, Mikkelsen TS, Corydon TJ, Pui CH, Evans WE, Relling MV. *Genome Res*. 2012 Jan;22(1):1-8.
9. Exome sequencing of head and neck squamous cell carcinoma reveals inactivating mutations in NOTCH1. Agrawal N, Frederick MJ, Pickering CR, Bettegowda C, Chang K, Li RJ, Fakhry C, Xie TX, Zhang J, Wang J, Zhang N, El-Naggar AK, Jasser SA, Weinstein JN, **Treviño L**, Drummond JA, Muzny DM, Wu Y, Wood LD, Hruban RH, Westra WH, Koch WM, Califano JA, Gibbs RA, Sidransky D, Vogelstein B, Velculescu VE, Papadopoulos N, Wheeler DA, Kinzler KW, Myers JN. *Science*. 2011 Aug 26;333(6046):1154-7.
10. Integrated genomic analyses of ovarian carcinoma. The Cancer Genome Atlas Research Network. *Nature*. 2011 Jun 29;474(7353):609-15.
11. Integration of a splicing regulatory network within the meiotic gene expression program of *Saccharomyces cerevisiae*. Munding EM, Igel AH, Shiue L, Dorigi KM, **Treviño LR**, Ares M Jr. *Genes Dev*. 2010 Dec 1;24(23):2693-704.
12. Human growth hormone: 45-kDa isoform with extraordinarily stable interchain disulfide links has attenuated receptor-binding and cell-proliferative activities. Bustamante JJ, Grigorian AL, Muñoz J, Aguilar RM, **Treviño LR**, Martinez AO, Haro LS. *Growth Horm IGF Res*. 2010 Aug;20(4):298-304.
13. ARID5B SNP rs10821936 is associated with risk of childhood acute lymphoblastic leukemia in blacks and contributes to racial differences in leukemia incidence. Yang W, **Treviño LR**, Yang JJ, Scheet P, Pui CH, Evans WE, Relling MV. *Leukemia*. 2010 Apr;24(4):894-6.
14. Germline genetic variation in an organic anion transporter polypeptide associated with methotrexate pharmacokinetics and clinical effects. **Treviño LR**, Shimasaki N, Yang W,

- Panetta JC, Cheng C, Pei D, Chan D, Sparreboom A, Giacomini KM, Pui CH, Evans WE, Relling MV. *J Clin Oncol*. 2009 Dec 10;27(35):5972-8.
15. Germline genomic variants associated with childhood acute lymphoblastic leukemia. **Treviño LR**, Yang W, French D, Hunger SP, Carroll WL, Devidas M, Willman C, Neale G, Downing J, Raimondi SC, Pui CH, Evans WE, Relling MV. *Nat Genet*. 2009 Sep;41(9):1001-5.
16. Genome-wide interrogation of germline genetic variation associated with treatment response in childhood acute lymphoblastic leukemia. Yang JJ, Cheng C, Yang W, Pei D, Cao X, Fan Y, Pounds SB, Neale G, **Treviño LR**, French D, Campana D, Downing JR, Evans WE, Pui CH, Devidas M, Bowman WP, Camitta BM, Willman CL, Davies SM, Borowitz MJ, Carroll WL, Hunger SP, Relling MV. *JAMA*. 2009 Jan 28;301(4):393-403.
17. MAP dendrimer elicits antibodies for detecting rat and mouse GH-binding proteins. Aguilar RM, Talamantes FJ, Bustamante JJ, Muñoz J, **Treviño LR**, Martinez AO, Haro LS. *J Pept Sci*. 2009 Feb;15(2):78-88.
18. Genome scan implicates adhesion biological pathways in secondary leukemia. Hartford C, Yang W, Cheng C, Fan Y, Liu W, **Treviño L**, Pounds S, Neale G, Raimondi SC, Bogni A, Dolan ME, Pui CH, Relling MV. *Leukemia*. 2007 Oct;21(10):2128-36.

Platform Presentations

- 2017 *Clinical Trial Recruitment and Retention: Successes and Challenges within the Hispanic Community in the Rio Grande Valley*. CTX Patient Recruitment and Technology Symposium. March 28-29, 2017. Houston, TX.
- 2015 “Who are Latinos Working for?” Educating the importance of diverse population participation in Clinical Trials; 2015 Hispanic Heritage Month; Organization for Latino Achievement at Bristol-Myers Squibb. October 13, 2015. Princeton, New Jersey.
- 2014 Minority-Serving Hospitals and Clinical Trials Colloquium; Guest panelist; April 29, 2014. Washington, DC; The National Minority Quality Forum
- 2013 American Association for Cancer Research (AACR). Annual Meeting, 2013. *Exome Sequencing of Hepatoblastoma Reveals Recurrent Mutations in NFE2L2*. April 6-10, 2013 Washington DC.
- 2011 Cold Spring Harbor Personal Genomes. *Germline Variation in Cancer*. September 30-October 2, 2011. Cold Spring Harbor, NY.
- 2010 Dan L. Duncan Cancer Symposium. *Identification of predisposing factor in cancer from next-generation sequencing data*. November 11, 2010. Houston, TX.

- 2008 50th ASH Annual Meeting and Exposition *A whole genome analysis identifies SLCO1B1 as a determinant of methotrexate pharmacokinetics and adverse effects.* December 6-9, 2008 San Francisco, CA
- 2007 49th ASH® Annual Meeting and Exposition *Children with t(12;21)/TEL-AML1-positive acute lymphoblastic leukemia exhibit a distinct germline genomic signature.* December 8-11, 2007 Georgia World Congress Center Atlanta, Georgia
- Invited Seminar Speaker for MBRS RISE/MARC U*STAR Seminar Series. University of Texas-San Antonio. March 30, 2007.
- 2005 *The regulation of the meiotic gene expression program in Saccharomyces cerevisiae at the level of pre-mRNA splicing.* September 29-October 2, 2005 Denver, CO
- 2003 St. Jude Children's Hospital National Graduate Student Symposium *Pre-mRNA splicing during meiosis in Saccharomyces cerevisiae.* May 7-11 2003 Memphis, TN
- 2003 Cold Spring Harbor Eukaryotic mRNA Processing meeting *The search for posttranscriptional gene regulation during meiosis in budding yeast.* August 24-28 2003 Cold Spring Harbor, NY

Academic Committees and Faculty Appointments

Member of Immunology Chair Search Committee at University of Texas Rio Grande Valley School of Medicine

Member of Biomedical Science Department Chair Search Committee at University of Texas Rio Grande Valley School of Medicine

Member of Executive Research Committee in Affiliation with the University of Texas Rio Grande Valley School of Medicine

Co-Chair of Grants Advisory Committee at DHR Health System

Adjunct Assistant Professor, University of Texas Rio Grande Valley School of Medicine, Department of Molecular Science

Adjunct Assistant Professor, University of Houston College of Pharmacy

Member of Education Committee for Texas Hospital Association

Professional Affiliations

Society for the Advancement of Chicanos and Native Americans in Science

American Association for Cancer Research

Public Responsibility in Medicine and Research

Health Care Compliance Association