

DELFINA CISNEROS DOMINGUEZ

The University of Texas at El Paso
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EDUCATION

Ph.D. Molecular Biology New Mexico State University, Las Cruces, NM 1997
M.S. Biology University of Texas at El Paso, El Paso, TX 1988
B.S. Medical Technology University of Texas at El Paso, El Paso, TX 1982
B.S. Biology University of Texas at El Paso, El Paso, TX. 1980

PROFESSIONAL EMPLOYMENT

2010 to present Professor, Clinical Laboratory Sciences Program Faculty
2010 to present Adjunct Professor Biological Sciences UTEP
2008 to present Adjunct Professor Bioinformatics Program UTEP
2008 to present Border Biomedical Research Center Team Member UTEP
2003-2009 Associate Professor Clinical Laboratory Sciences UTEP
2003-2006 Clinical Laboratory Science Program Director, UTEP
1996-2002 Assistant Professor, Clinical laboratory Science Program UTEP
2003 Postdoctoral Fellow, School of Medicine, Division of Infectious Diseases
University of Virginia, Charlottesville, VA.
1995-1996 Clinical Laboratory Scientist, Clinical Chemistry Department, Providence Memorial
Hospital, El Paso, TX.
1991 Intern Fellow, Research and Development, Clinical Microbiology Division, Baxter
Health Corporation, Chicago IL
1989-1991 Clinical Specialist, Clinical Laboratory Science (CLS) Program Faculty, The
University of Texas at El Paso, El Paso, TX .
1987-1989 Clinical Laboratory Instructor, Medical Laboratory Technician (MLT) Program El
Paso Community College, El Paso, TX
1982-1987 Microbiologist (MT, ASCP), Microbiology and Serology Department Hotel Dieu
Medical Center

ADMINISTRATIVE EXPERIENCE

2003-2006 Program Director, Clinical Laboratory Science Program, College of Health Sciences
Responsibilities included: Restructuration and reorganization of the CLS program. Development
of new CLS program curriculum, student handbook, contract renewals of clinical facilities and
program accreditation (self-study preparation and site visit) for the cycle 2005-2010, accrediting
agency: National Accrediting Agency for Clinical Laboratory Science (NAACLS). Intensive

recruitment efforts were planned and implemented in El Paso High schools, EPCC, UTEP, and NMSU freshman students in order to increase student enrollment.

HONORS AND AWARDS

2013	Graduate School University Marshal
2010	Texas Association of Cincial Laboratory Science Service Award
2009	Sembrador del Bien Award Community Service Sin Fronteras Project
2009	College Marshall, College of Health Sciences
2008	Distinguished Author Award American Society for Clinical Laboratory Science
2008	Outstanding Performance Research Faculty Achievement, College of Health Sciences
2005, 2006, 2008	Who's Who among Americas Teachers
2002-2003	Ford Foundation Fellowship
2003-2004	College Marshall Commencement Ceremony
1999, 2003, 2005	Who's Who Among America's Teachers
1998	Outstanding Alumni The National Consortium for Graduate Degrees for Minorities in Engineering and Science
1997	Distinguished Graduate Research Award, New Mexico State University
1995-1996	Pre-doctoral Scholarship, National Institute of Health
1991-1991	Pre-doctoral Scholarship, The National Consortium for Graduate Degrees for Minorities in Engineering and Science Inc.
1988	Sigma Xi The Scientific Research Society
1986	Beta Beta Beta Biological Honor Society

Other Experience and Professional Memberships

2012	<i>H. pylori</i> culture training, Michael DeBakey VA Hospital, Houston, Texas
2008	Intracellular calcium measurements in bacteria Cardiff University, Biochemistry, UK
2005	Bioinformatics Workshop Mellon Institute, Pittsburg, PA
2004	Calcium and Cell Function FASEB Summer Course, Snowmass, CO
2002	Ford Fellow University of Virginia School of Medicine, Charlottesville, VA
2001	Molecular Diagnostics A Course for Educators University of Nebraska, Omaha Nebraska
1997	Genome Project a Short Course, National Institute of Health, Bethesda, MD,
1992,1996,1997,1998,1999, 2000	DNA Technology in the Clinical Laboratory, Beaumont Hospital, Royal Oak Michigan
1992	Immunoglod Electron Microscopy, UT Austin, Austin Texas,
1988	Morphometry and Stereology Course, Woods Hole Educational Associates, Philadelphia, PA.

PROFESSIONAL CERTIFICATION

Board of Registry American society of clinical Pathologists Medical Technologist

SCHOLARLY AND CREATIVE ACTIVITIES

Chapters in Books

S. Antony and **Dominguez, D. C.** (2014). Lactobacillemia: Epidemiology, Clinical Features, Diagnosis and Treatment in Bacteremia: Risk Factors, Treatment and Potential Complications. Bacteriology Research Developments
Nova Science Publishers, Inc., New York.

Dominguez, D.C., and Raparla, M (2014). Neurometabolic Aspects of sports-Related Concussion. *Seminars in Speech and Language*. 35: (3) 159-165. Thieme Medical Pub., N.Y.

D.C. Dominguez and M. Patrauchan. Bacterial Calcium binding Proteins. (2012). Encyclopedia of Metalloproteins. R.H. Krestinger and E.A. Permiakov eds. Doi 10.1007/978-1-4614-1533-6.

Articles

Domínguez, D. C. (2015). Calcium Binding Proteins and Calcium Signaling in Prokaryotes. *Cell Calcium* 57:151-165. doi:10.1016/j.ceca.2014.12.006 .

Ley, B., **Domínguez, D.C.** et al. (2014) Evaluation of commonly used products for disinfecting clipper blades in veterinary practice. *To appear in Journal of American Animal Hospital Association. In Press*

Dou, M., **Domínguez, D. C.**, Li, X., Sanchez, J., Scott, G. (2014). A versatile PDMS/paper hybrid microfluidic platform for rapid and sensitive infectious diseases diagnosis. *Analytical Chemistry*, 86 (15), 7978-7986. (Impact factor 5.8). pubs.acs.org/doi/abs/10.1021/ac5021694

Dou, M., **Domínguez, DC.** and X. Li (2014) Design of a Point of care Device for the Rapid Detection of Pertussis. The University of Texas at El Paso. *Journal of the American Society for Clinical Laboratory Science* 27:131. National Meeting Abstracts.

Li, X., Zuo, P., **Dominguez, D. C.** (2013). A PDMS / Paper hybrid microfluidic device integrated with graphene oxide-based nano-biosensors for multiplexed pathogen detection. *Proc. Micro Total Analysis Systems*, 17, 705-707.

Zuo, P., Li, X., **Dominguez, D. C.**, Ye, B.C. (2013). A PDMS /paper /glass hybrid microfluidic biochip integrated with aptamer-functionalized graphene oxide nano-biosensors for one-step multiplexed pathogen detection. *Lab Chip*, 13, 3921-3928.

Cardenas, MV., Salazar, J., Snyder, L., **Dominguez, DC** and Ortiz M. (2012). Greater than 95% success with 14-day bismuth quadruple anti H. pylori therapy: A pilot study in US Hispanics. *Helicobacter*. 17:382-390

Cardenas, MV., Salazar, J., Snyder, L., **Dominguez, DC.** and Ortiz M. (2012). Greater than 95% success with 14-day bismuth quadruple anti *H. pylori* therapy: A pilot study in US Hispanics. *Helicobacter*. Accepted May 2012

D.C. Domínguez, R. Lopes, B.I. Holland, A.K. Campbell (2011). Proteome Analysis of *B. subtilis* in response to Calcium S6:1-9 ISSN:2155-9872, *Analytical and Bioanalytical Techniques*

Double-Blind Randomized Trial of Quadruple Sequential *H. pylori* Eradication Therapy in Asymptomatic, Infected Children in El Paso, Texas. (2011). Prieto-Jimenez C., Cardenas, MV., Mulla, ZD., Rivera, JO., **Domínguez, DC.**, Fischback, L., Graham, DY.,and Oritiz, M. *Journal of Pediatric Gastroenterology and Nutrition* 52(3):326-32

H. pylori Eradication and Change in Markers of Iron Stores Among Non-Iron Deficient Children in El Paso, Texas: an Etiologic Intervention Study (2011). Prieto-Jimenez C., Cardenas, MV., Mulla, ZD., Rivera, JO., **Domínguez, DC.**, Fischback, L., Graham, DY.,and Oritiz, M. *Journal of Pediatric Gastroenterology and Nutrition*. 52(3):319-25.

Dominguez, D.C., R. Lopez, GM Donato, EH Hewlett, ZD Mulla, and KC Cabrera (2010.) Pertussis Among Adolescents and Adults with Persistent Cough in El Paso-Cd. Juarez. *TPHA Journal*, 62 (2): 32-37.

Rivera, J., H. Hoi,* **DC Domínguez***, A.H. Tyroch, R. Lopes, S. Antony, J. Rodriguez, A. Norte, M. Ortiz. (2009) "Prevalence of MRSA in the Largest US/Mexico border Population: A Pilot Study" *Travel Med Infect Dis* 7:30-34

Antony, N., and **D.C. Domínguez**. (2008). Disseminated *Corynebacterium Propiniquum* Infection in a Patient with Reactivated Tuberculosis. *Int J Infect Dis* Vol 9 (1)

Antony, S., **D.C. Domínguez**, J. Jackson, and, G. Meseinheimer (2008) . Evaluation and Treatment of *Candida* species in Prosthetic Joint Infections: Two Case Reports and review of the literature. *Infectious Diseases in Clinical Practice* 16(6):354-359, November 2008.

Antony, S. and **D.C. Dominguez**. (2008). Use of a Novel Antibiotic (Tigecycline) in the Treatment of Peritoneal Dialysis associated MRSA Peritonitis Dialysis and Transplantation 37(1) 30

Cardenas, V. **Dominguez, D.C.**, A. Campos. (2008). Evaluation of a novel stool native catalase antigen test for *Helicobacter pylori* infection in asymptomatic north American children. *Journal of Pediatric Gastroenterology and Nutrition* 44:1-4

Domínguez, DC., Lopes, R., and M.L. Torres. (2007). Focus: Introduction to Proteomics *Journal of Clinical Laboratory Science* 20:234-23

Domínguez, DC., Lopes, R., and ML Torres. (2007). Focus: Proteomics Technology *Journal of Clinical Laboratory Science* 20:239-244

Domínguez, DC., Lopes, R., and ML Torres. 2007 Focus: Proteomics: Clinical Applications
Journal of Clinical Laboratory Science 20: 245-248

Patel, K., Wison, H and **D. C. Domínguez** (2007). Case studies with Flow Cytometry for Leukemia Diagnosis, El Paso Physician 30 (1) 23-26

Domínguez, DC. (2005). The Reemergence of Pertussis in Immunized Populations
CLSJ 18(4) 233-237.

Domínguez, DC (2004). Calcium Signaling in Bacteria. Molecular Microbiology
54:291-297.

Antony S, and DC Domínguez,(2003). Use of Liposomal Amphotericin B in the Treatment of Disseminated Coccidioidomycosis.) J. Nat. Med. Assoc. 95:982-985

Domínguez, D.C. Torres, LM and Antony, S. (2003) “Is HHV-6, A link to Kikuchi-Fujimoto’s Disease? The Importance of consistent Molecular and Serological analysis Southern Medical Journal, 96:226-233 2003

Gonzalez, LM, Lindsey AE, Hjelle B, **Domínguez, D.C.** Brown, J. Goade, D, and Jonsson CB. (2001). Prevalence of antibodies to Sin Nombre virus in humans living in rural areas of southwestern New Mexico and western Texas 74:177-179.

Domínguez, D.C. (2001) Pertussis: A Mini-Review and Update. El Paso Physician. 24:18-21

Domínguez, D.C. M.L. Torres and S. Antony. (2001) Kikuchi’s-Fujimoto’s disease: Clinical and Pathological Presentation. El Paso Physician 24:6-11

Domínguez, D.C. and S. Antony (1999). Actinomyces and Nocardia Infections in Immunocompromised and Nonimmunocompromised Patients. J. Nat. Med. Assoc. 91:35-39

Antony, S. **Domínguez, D.C.** Bacteremia resulting from an insertion site infection with Mycobacterium chelonae. Infectious Disease Practice May (1999).

Domínguez, D.C. and J.H. Hageman (1999). Immunocytochemical Localization of a Calmodulin-like Protein from *Bacillus subtilis*. J. Bacteriol. 181:4605-4610

PROFESSIONAL AND COMMUNITY SERVICE

Membership in Professional Organizations

American Society for Clinical Laboratory Science
 American Society for Microbiology
 American Society of Clinical Pathologists
 Texas Association for clinical laboratory Sciences
 European Calcium Society

Reviewer

Books

Reviewer New Edition Diagnostic Microbiology by Mahon et al. will be published Fall 2013

Bacterial Cell Structure, Physiology, Metabolism, and Genetics
 Use of Colonial Morphology for the Presumptive Identification of Microorganisms
 Host-Parasite Interaction
 Zoonotic Diseases
 Microscopic Examination of Infected Materials
 Infections in Special Populations

New Edition of Diagnostic Microbiology Baileys and Scott Book Elsevier 2011

7 Chapters reviewed
 Bacterial Genetics, Metabolism and Structure
 Laboratory Safety
 Traditional Cultivation of Microorganisms
 Specimen Management
 Overview of Bacteria Identification Methods and Strategies
 Bordetella pertussis
 Overview of Fungal Identification Methods and Strategies

Manuscript Reviewer for the following **Professional Journals**

Microbiology BMC 2014
 Cell calcium 2013
 Cancer 2013
 Analytical and Bioanalytical Chemistry 2012
 Clinical Infectious Diseases 2011
 Boletin Medico HIM, (Mexico City) 2011
 Journal Analytical and Bioanalytical Chemistry, 2010
 Biochemical Journal, 2010
 Biochemistry Journal 2010
 Analytical and Bioanalytical Chemistry 2010
 Journal of Molecular Biology 2009
 Infections in Medicine 2009
 Molecular Microbiology 2008
 Molecular Microbiology 2008
 Applied Microbiology 2007

Clinical Infectious Diseases 2006
 Journal of American Medical Association 2006
 Southern Medical Journal 2005
 Infections in Medicine 2005
 Microbiology 2004
 Journal of Pediatrics 2004

Community Service

El Paso Catholic Diocese Science Fair January 25, 2014
 El Paso High Science Fair February 8, 2014
 CommUNITY en ACCION Young Achievers Forum March 7, 2014
 Migrant Health Fair Centro Sin Fronteras
 COURI Symposium Judge April 26, 2014
 San Elizario Health Fair October 25, 2014
 Health Sciences Professional Panel October 21, 2014
 Presentations and tour to CHS for Silva Magnet Students October 13 and 14, 2014
 Advisory Board Member Silva Magnet School May 2014
 Distinguish Achievement Program EPCC research training October to December 2014
 Blue and Orange Day, college of Health Sciences September 28, 2013
 San Elizario Community November 2, 2013
 Advisory Board for the Siva Magnet School to present
 Project Move community of El Paso volunteer day. First Presbyterian Church, March 9, 2013
 Migrant workers Health Fair April 12, 2013
 Science Fair coordinator for St Joseph Catholic Schools in El Paso, February 7, 2013
 Science Fair coordinator for St Joseph Catholic Schools in El Paso February 11 2012
 Health Fair coordinator for the Center of Farm-workers Sin Fronteras April 16 2012
 ST. Pius X Science Fair coordinator January 26, 2012
 Science Fair St. Pius X Middle School CLS Program Students served as Judges 1-21-11
 Science Fair Diocese of El Paso Schools Final competition CLS Program Students participated as Judges 2-5-11
 Science Fair Mentor for Nancy Lujan 4th grade Mesita Elementary School 2-2011
 Maxine Silva Magnet School Advisory Board Member (**to present**)
 Sin Fronteras Migrant Workers Center Health Fair April 2011
 Science Fair St. Pius School January 2010
 St. Joseph el Paso Catholic Diocese Science Fair Feb 2010
 Sin Fronteras Migrant Workers Center Science Fair April 2010
 Assisted 2 Students with their Science Fair Project
 Health Fair for Center for Housing and Urban Development Colonias Project, El Paso TX, May 2009
 Mentor Science Projects students from Cathedral High School, San Elizario, St. Pis X Middle School, Americas High school (2004-2009)
 Community Service Career Day El Paso High Schools 2005-2006 (Socorro, Americas) Judge
 Science Fairs El Paso Middle Schools 2001 to present (St. Pius, St Joseph)
 Career Day Bell Air Center for Health Professions and Texas Tech (2006, 2007) Mentor for Science Fairs (5 high school students, 1 Coronado, 2 Americas, 1 Socorro, 1. St. Pius) (2004, 2006, 2007, 2008, 2009)

Health Fairs Farm workers (2003-to present)
 Advisory Board Sin Fronteras Centro de Trabajadores Agricolas (2005- to present)
 Advisory Board El Paso Community College (2000-2001)
 Mentor RISE Program, El Paso Community College 2003 to present
 Mentoring Conference for High School Girls, Latinas 100 2003-2004

Service to Profession

Review of the Body of Knowledge ASCLS 2013
 CLS Program Self-Study for Accreditation 2009
 Texas Association for Clinical Laboratory Science (TACLS) organizing committee for State meeting in El Paso Texas April 2010
 City of El Paso Health Department Mobilization Force, public information H1N1 2009 Self Study Reviewer for CLS Program Accreditation
 University of Puerto Rico CLS Program Metropolitan Campus, San Juan Puerto Rico 2005
 Pontifical Catholic University of Puerto Rico 2006

RESEARCH

Funded Projects

“Detection of Multi Drug Resistant Organisms by a Multiplex Microfluidics Platform”

PI Dominguez, Delfina C.

Agency ASCLS

Amount \$ 5000.00 (July 2015)

“Design of Point of Care Device for the Rapid Diagnosis of Pertussis”

PI Dominguez, D.C. PI XiuJun Li

Agency: NIH NIAD grant # 1R21AI107415-01A1

Amount \$ 405, 305 (2015-2017)

“Defining the bacterial oral flora in periodontal disease and dental caries in children and adolescents in El Paso Texas”

PI Dominguez, D.C.

Agency: The City of El Paso

Amount \$ 100,000 (2015-2016)

“Low Cost Point of Care Devices for Fast Diagnosis of Respiratory Diseases”

PI XiuJun, Co-I Delfina C. Dominguez

Agency: UTEP College of Science Research Enhancement Fund

Amount: \$20,000. May 2014

“Development of a Point of Care Device for the Rapid Identification of Pertussis”

PI Delfina C. Dominguez; PI XiuJun Li

Agency: American society for Clinical Laboratory Science

Amount \$5000 August 2013

Serum Markers in the Evaluation of Mild Traumatic Brain Injury in Athletes

Delfina C. Dominguez, PhD, PI. Collaborator Anthony Salvatore PhD

Agency: Texas Speech Language-Hearing foundation. June 1, 2010 Amount \$ 3,000.00

Studies on the Role of Calcium in Bacteria: A Proteomic and Genomic Approach”

Principal Investigator: **Delfina C. Dominguez PhD**, Collaborators: Barry Holland, DSc, Beronda Montgomery, PhD and Rosana Lopes, PhD

Agency NIH June 2007 Amount \$ 492,66

“Randomized field Intervention trial of *H. pylori* eradication to reduce iron deficiency anemia among children in El Paso, Texas” *Principal Investigator:* Victor Cardenas, MD

Collaborators: Melchor Ortiz, PhD; Karen Goodman, PhD; **Delfina C. Dominguez, PhD**; Jose Rivera, PhD; Manuel de la Rosa, MD; Carmen Prieto. Agency: Trahsner Foundation 2006 \$ 304,948

“Incidence of Pertussis among Children with Persistent cough in the El Paso del Norte Region and Variation in *Bordetella pertussis* genes” *Principal Investigator:* **Delfina C. Dominguez, PhD**, Co-Investigators: Erik Hewlett, MD, Gilbert A. Handal, MD, Armando Campos, MD and Gina Donato, PhD. Agency: Center for Border Health
2005 \$75,000

“US Mexico Interdisciplinary Research Training Program” Principal Investigator: Robert Anders, PhD *SubProject Principal Investigator* **Delfina C. Dominguez, PhD**: Immflamatory Diarrheal Disease and Polymorphysims in the IL-8 gene. Agency: NIH
2005 \$ 10,000

Comparison of Bacterial Resistance Patterns Between El Paso, Ciudad Juarez and National Trends: A Pilot Study. *Principal investigator:* Jose Rivera, co Investigators: Hoi Ho, M elchor Ortiz, Carlos Fierro, Arturo Norte, **Delfina C. Dominguez**
Funding source Center for Border Health 2004
Amount \$75,000

“US Mexico Interdisciplinary Research Training Program”

Principal Investigator: Robert Anders

Sub-project : Inflammatory Diarrheal disease and SNIP on IL-8 gene Study **Delfina C. Dominguez, PhD**
The purpose of this subproject is to determine the proportion of cases of inflammatory diarrhea (ID) seen at the rehydration unit in Hospital General in Cd. Juarez, Mexico, to estimate the prevalence of etiologic agents among ID and to explore the association between the presence of a SNIP in the IL-8 gene

Agency: NIH 2004-2006 Amount \$10,000

Instrumentation Grant for a Microarray Analyzer College of Science, Principal Investigator: Liza Bain, PhD. Subproject *Collaborator*, **Delfina C. Dominguez PhD**, Calcium binding proteins in *Bordetella pertussis*” Agency: NSF 2004 \$132,000

“Biochemical Analysis of Calcium binding proteins in *Bordetella pertussis*”

PI Delfina C. Dominguez. The purpose of this research was to utilize two-dimensional electrophoresis and mass spectroscopy analysis to identify two calcium binding proteins in *Bordetella pertussis* and to determine if these proteins were regulated by the *Bvg* system.

Agency: Ford Foundation 2003 Amount \$5000

“El Paso Virtual Development Center” *Principal Investigator:* Patricia A. Nava, PhD, Benjamin Flores and **Delfina C. Dominguez, PhD** Agency: Institute for Women Technology 2001
\$ 100,000

“Seroprevalence of Hantavirus Infection in southern New Mexico and Northern Mexico”
University Research Institutional Grant, *Principal Investigator:* **Delfina C. Dominguez, PhD**
1998 \$3, 750.00

“Seroprevalence of Hantavirus Infection in the US-Mexico border”
University Research Institutional Grant, *Principal Investigator:* **Delfina C. Dominguez, PhD**
1997 \$ 3, 250.00

Grant Proposals submitted Not funded period 2011-2014

“Clonal analysis of *H. pylori* strains isolated from multiple biopsy sites in a Hispanic population in el Paso Texas”

PI Delfina C. Dominguez, Co-I Victor Cardenas

Agency NIH R-15 February, 2014

“Low cost microfluidic devices for Rapid diagnosis of Hepatitis B”

PI XiuJun Li; Collaborator: **D. C. Dominguez**

Agency: NIH mHealth R21, February 2014

“Discovery of Novel Plant-derived antimicrobial compounds against *P. aeruginosa* biofilms and search for new therapeutic targets” Delfina C. Dominguez, PI, M. Patrauchan PI, Narayan, M, Co-I, Rivera Jose CoI

Agency NIH R21 May 2012

Addressing Health Disparities in Children through Translational Research: The Problem of Staphylococcal and Streptococcal Disease. NIH R03. Collaboration with University of Hawaii. Hermes, E.PI **Domínguez DC** Collaborator NIH RO3NOT funded May 2011

International Research Collaborations

2014 Universidad Autonoma de Tamaulipas Unidad Academica Multidisciplinaria Reynosa-Aztlan Dra. Anabel Bocanegra Alonso, Laura Ramirez Quintanilla, Coordinadora de la Carrera

Quimico FarmacoBiologo “PROYECTO PILOTO” “EVALUACIÓN DE LA ACTIVIDAD DE LAS BOMBAS DE EFLUJO EN CEPAS DE *Staphylococcus aureus* METICILINA RESISTENTES EN LA UNIVERSIDAD DE TEXAS EN EL PASO

2014 PROYECTO PILOTO: EVALUACIÓN DEL POLÍMERO: N-(11-HIDROXIUNDECANIL)PIRIDINA COMO AGENTE ANTIMICROBIANO EN CEPAS MULTIRESISTENTES DE *P. AERUGINOSA* PROVENIENTES DE DIVERSOS HOSPITALES DE LA CD. DEL PASO-JUAREZ

2014 Universidad de Costa Rica, San Jose. Dra.Kenia Barrentes Dra. Luz Maria Chacon
Resistencia Antimicrobiana en Costa Rica

2013 Universidad Nacional de Asuncion, Paraguay Projects:
Desarrollo y validacion de un ensayo de campo para diagnostico del syndrome pulmonar por hantavirus en el Paraguay. Investigador principal Dr. Liza Gonzalez, D. C Dominguez colaborador

Desarrollo de una vacuna recombinante termostable para el virus Dengue. Investigador principal Dr. Liza Gonzalez, DC. Dominguez colaborador

2013 Hispanic Health Disparities across Cultures in Latin America: Collaborative Research for the 21st Century., Costa Rica, Panama.

2008 Intracellular Calcium Measurements in Bacteria Cardiff University, Biochemistry, UK
Anthony Campbell Collaborator

2006-2011 The Role of Calcium in Bacteria Univeriste de Paris, France, Barry I. Holland
Collaborator

2004 Intracellular Calcium techniques, Universidad Autonoma de Madrid, Cantoblanco,
Madrid Spain, Francisca Fernandez Pinas Collaborator

Pending projects/papers

Evaluation of Bio-polymers as antimicrobial agents in both susceptible and multi-resistant microorganisms. Dominguez, DC, Rivera, J and Noveron, J.

Evaluation of efflux pumps in Methicillin resistant *S. aureus* trains recovered from El Paso-Cd. Juarez Area. Dominguez, D.C., and Rivera, J.

Resistance to antimicrobials mediated by calcium ions: a pilot project. D.C. Dominguez

Synergy of antimicrobials against Multi-drug resistant organisms pilot proyect Rivera Jose and D. C. Dominguez

POC device for the rapid detection of multi-drug resistant organisms Li and Dominguez

PRESENTATIONS

A PDMS/Paper hybrid device for the rapid diagnosis of *Bordetella pertussis*. Annual Meeting Clinical laboratory Sciences Chicago IL August 2014

Genes Associated with Transport Systems are Regulated by Calcium ions. Najwah A. Almesleh, Yi Son-Young and Delfina C. Domínguez. International Meeting for the American Society for Microbiology Boston, MA May 2014

Effects of XIRMa a Novel Treatment in Wound Care. Wound Care El Paso .El Paso, TX May 2014

Antimicrobial Activity of Biopolymers. Santiago Cabrera, Lauren Betance and D.C. Dominguez EPCC distinguish Achievement Program, El Paso Texas December 2014

Dou, Maowei (Author Only), Dominguez, Delfina C. (Author Only), Li, XiuJun (Presenter & Author), "A Paper/PDMS hybrid microfluidic biochip for instrument-free infectious disease diagnosis," Oral Presentation, IEEE Nanomedicine, Kaosiung, Taiwan. Conference, Academic, International, peer-reviewed/refereed, published in proceedings, Invited. (November 9, 2014)

Dou, Maowei (Presenter & Author), Dominguez, Delfina C. (Author Only), Li, XiuJun (Presenter & Author), "Paper/PDMS hybrid microfluidic biochips for low-cost global infectious disease diagnosis," Poster, μ TAS 2014 Conference(The 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences), San Antonio, TX, USA. Conference, Academic, International, peer-reviewed/refereed, published in proceedings, Accepted. (October 26, 2014)

Dou, Maowei (Presenter & Author), Dominguez, Delfina C. (Author Only), Li, XiuJun (Author Only), "A PDMS/Paper Hybrid Microfluidic Biochip for Multiplexed Instrument-Free Bacterial Meningitis Diagnosis," Oral Presentation, UTEP Graduate Expo, UTEP, El Paso, TX, USA. Conference, Academic, Regional, peer-reviewed/refereed, Accepted. (October 1, 2014)

Macias, Natalie (Presenter & Author), Dou, M (Author Only), Dominguez, Delfina C. (Author Only), Li, XiuJun (Author Only), "A versatile PDMS/paper hybrid microfluidic platform for rapid and sensitive *Bordetella pertussis* diagnosis," Poster, UTEP COURI symposium, UTEP, El Paso, TX, USA. Conference, Academic, Regional, peer-reviewed/refereed, Accepted. (August 3, 2014)

Dominguez, Delfina C., "A hybrid microfluidic POC device for the rapid detection of pertussis," Poster, National society for CLS, ASCLS, Chicago, IL. Conference, Academic, National, published in proceedings, (July 30, 2014)

Dou, Maowei (Author Only), Dominguez, Delfina C. (Presenter & Author), Li, XiuJun (Author Only), "Design of a Point of Care Device for the Rapid Diagnosis of Pertussis," Oral Presentation, National Meeting for the American society of Clinical laboratory Science and the American Chemical Society, Chicago, IL, USA. Conference, Academic, International, peer-reviewed/refereed, Accepted. (July 29, 2014)

Li, XiuJun (Presenter & Author), Zuo, Peng (Author Only), Dominguez, Delfina C. (Author Only), "A PDMS/Paper Hybrid Microfluidic Biochip Integrated with Graphene Oxide-based Nanosensors for Rapid Pathogen Dete," Poster, Gordon Bioanalytical Biosensors, Newport, RI, USA. Conference, Academic, International, peer-reviewed/refereed, Accepted. (June 22, 2014)

Li, XiuJun (Presenter & Author), Zuo, Peng (Author Only), Dominguez, Delfina C. (Author Only), "A PDMS/Paper Hybrid Microfluidic Biochip Integrated with Graphene Oxide-based Nanosensors for Multiplexed Pathogen Detection," Oral Presentation, Conf. Can. Soc. Chem.(CSC) 2014, Vancouver, BC, Canada. Conference, Academic, International, peer-reviewed/refereed, paper under review, Accepted. (June 1, 2014)

Dou, Maowei (Presenter & Author), Dominguez, Delfina C. (Author Only), Li, XiuJun (Author Only), "A PDMS/Paper Hybrid Microfluidic Biochip for Multiplexed Instrument-Free Bacterial Meningitis Diagnosis," Oral Presentation, UTEP IDR symposium, UTEP, El Paso, TX, USA. Conference, Academic, Regional, peer-reviewed/refereed, Accepted. (May 1, 2014)

Li, XiuJun (Presenter & Author), Zuo, Peng (Author Only), Dominguez, Delfina C. (Author Only), "A PDMS/Paper Hybrid Microfluidic Biochip Integrated with Graphene Oxide-based Nanosensors for Multiplexed Pathogen Detection," Oral Presentation, Pittcon 2014 conference, Chicago, IL, USA. Conference, Academic, International, peer-reviewed/refereed, Accepted. (March 2, 2014)

“Whooping Cough an Update and Design of a Point of Care Device for Pertussis Identification”
National Meeting for the American society for Clinical Laboratory Science Houston , Texas,
Podium presentation August 2013

Design of a Point of Care Device for the detection of pertussis. College of Health Sciences,
Healthy Exchanges Seminar, UTEP March 13, 2013

Whooping cough Update and Design of a point of care device for the detection of pertussis
Seminar for the Victoria University, Australia October 16, 2013

A PDMS/Paper hybrid microfluidic Device integrated with grapheme-oxide based nano-biosensors for multiplexed pathogen detection Li, Zuo, Dominguez. 17th conference on Minaturized Systems for Chemistry and Life Sciences Freinburg, Germany October 2013.

A versatile PDMS/paper hybrid microfluidic platform for rapid and sensitive meningitidis diagnosis. Dou, Li and Dominguez. Graduate Student Fair Symposium 2013

Nuestra Casa "Clinical Diagnosis of Tuberculosis" Centennial Museum April 25, 2012 CLS Students

E. Villa and D. C. Dominguez . 2012. "The use of Bioinformatics and proteomics to study Calcium and protein expression in *Bacillus subtilis*," Poster, Bioinformatics Symposium, Santa Fe, NM. Conference, Academic, Regional, peer-reviewed poster presentation

Dominguez D.C. and E. Villa "Calcium Regulation in *B. subtilis*," Poster, American Society for Microbiology Meeting, ASM, New Orleans, LA. Conference, Academic, International poster presentation (May 23, 2011)

"Pertussis Among children and Adolescents with persistent cough in El Paso Texas" April 2010 TACLS

Calcium Regulation in *B. subtilis* a Genomic Approach, Biology Seminar October 21, 2010 UTEP

American Society for Microbiology International meeting
Calcium Influences Protein Expression in *Bacillus subtilis*
D.C. Domínguez, R. Lopes, I. Holland, A.K. Campbell. Poster Presentation May 25, 2010. San Diego, CA.

Bioinformatics Symposium. The use of Bioinformatics and proteomics to study Calcium and protein expression in *Bacillus subtilis*. Nerella, S., D.C. Domínguez, R. Lopes October, 2010. Santa Fe, New Mexico March 265-26

Calcium Influences Protein Expression in *Bacillus subtilis*. American Society for Microbiology, San Diego, CA May 23, 2010

Elongation Factor-Tu binds Calcium Ions. American Society for Biochemistry and Molecular Biology, New Orleans, April 22, 2009

The influence of Molecular Technology in Understanding Disease. College of Health Sciences, Interdisciplinary PhD Program April 2, 2009, UTEP.

The Role of Calcium in Bacteria: A proteomic Approach, American Society for Microbiology, National Meeting, Boston, MA June 1, 2008. Poster presentation; R. Lopes and D.C. Domínguez.

Incidence of Pertussis among Children and Adolescents with Persistent Cough and Analysis of *Bordetella pertussis* Isolates in the El Paso del Norte Region, the Largest US-Mexico Border, American Society for Microbiology National Meeting, Boston, MA June 1, 2008. Poster presentation; D. C. Domínguez, R. Lopes, G. Donato, K. Cabrera, and Hewlett, EL

Evaluation of Methicillin –resistant *Staphylococcus aureus* (MRSA) isolates in El Paso, Texas and Cd. Juárez, México: Implications for health care providers along the border, USMBHA meeting, Hermosillo Sonora, México. Poster presentation; J. Rivera, H.Ho, D. C. Domínguez May 8, 2008

One Hundred Years of Pertussis an Overview and Update. Texas Association for Clinical Laboratory Science, State Meeting Austin, TX Podium presentation; D. C. Domínguez, April 3, 2008.

Incidence of Pertussis in the US_México Border El Paso-Cd. Juárez, Research at UTEP. UTEP Board of Regents, El Paso TX Poster presentation; K. Cabrera, R. Lopes, D.C. Domínguez, G. Donato, and E. Hewlett November 12, 2008.

Calcium signaling in *B. subtilis*, Annual Biomedical Research Conference for Minority Students, Orlando Florida, November, 6, 2008. Poster presentation; P. Miller, D.C. Domínguez and R. Lopes

MRSA Infections in El Paso-Ciudad Juarez Border D. C. Domínguez February 22, 2008 College of Health Sciences, Public Health Students

Analysis of calcium Binding Proteins in prokaryotes: A Proteomic and Genomic Approach Baylor College of Medicine, D. C. Domínguez, September 11, 2007 Houston TX

Etiology and Antimicrobial Susceptibility of Diarrheogenic Enteropathogens in Cd. Juárez, México, MHRIT Summer Program, K. Cabrera, S. Castillo, A. Cisneros, B. Borrego and D. C. Domínguez, Summer, 2007, El Paso Texas

Prevalence of MRSA in the Largest U.S./México Border Population: A Pilot Study American Society for Microbiology, Toronto, Canada May 23, 2007

Phenotypic and genetic Analysis of MRSA in the US-Mexico Border, first CHS/SON Research Showcase, El Paso TX I. Garcia, D. C. Domínguez, R. Lopes and J. O. Rivera, May 11, 2007.

Workforce Survey of Key Clinical Laboratories in El Paso, Texas CLS State meeting Dallas, TX Poster presentation; A. Lizcano, E. Olivas, M. Flores, L. Torres and D.C. Domínguez, March 23, 2007.

Incidence of *Bordetella pertussis* cases in the U.S.-Mexico Border, El Paso Texas-Cd. Juarez, Chihuahua, Mexico January, 2007 El Paso Texas ASM Branch Meeting

Pertussis an Overview and Update. Texas Society for Clinical Laboratory Science Traveling Seminars, El Paso Texas January 20, 2007

Pertussis in Vaccinated Populations Centro Medico de Especialidades Cd. Juarez, Mexico Colegio de Pediatría de Cd. Juárez, México Julio 11, 2006-10-25

Careers in Laboratory Medicine El Paso Community Students July 7, 2006 El Paso, Texas

Proteomic and Computational Analysis Reveal Elongation Factor Tu is a Putative Calcium Binding Protein, American Society for Microbiology, May 2006, Orlando Florida

The Return of Pertussis College of Health Sciences Faculty and PhD Program, April 2006

Biochemical and Computational Analyses Revealed Elongation Factor-Tu is a Calcium binding protein UTEP Bioinformatics Program, Mathematics Department, February, 2006

The Postdoctoral Experience, National Ford Fellows Meeting, October 2005 Washington, DC

Biochemical Analysis of Putative Calcium Binding Proteins from *Bordetella pertussis*, July 11, International Union of Microbiology Societies, San Francisco CA, 2005.

Analysis of Calcium Binding Proteins and the Use of Bioinformatics, Mathematics Department, Bioinformatics Program, the University of Texas at El Paso, April 2005

Analysis of Calcium Binding proteins in *B. pertussis*. National Meeting for Ford Fellows, October, 2003 San Juan Puerto Rico.

Biochemical Analysis of Two Calcium Binding Proteins from *Bordetella pertussis*, Dominguez, DC and E.L. Hewlett. Annual Research Fair University of Virginia, Charlottesville, VA March 2003.

La Tecnología en el Siglo XXI . asociación de Químicos y Mujeres Profesionistas, Cd. Juárez, Chihuahua México, Agosto 2003

Dominguez, D.C., "Whooping Cough: Laboratory Diagnosis and Current Research". EPCC Faculty and Students. Mission del Paso Campus. April 18, 2002.

Dominguez, D.C., "The Return of Pertussis: Clinical Aspects and Laboratory Diagnosis". American Society for Clinical Laboratory Science. State Meeting, Albuquerque New Mexico, April 11, 2002.

J. Espinoza and D.C. Dominguez, "An Endogenous and Secreted Calcium binding Protein from *Bordetella pertussis*" American Society for Microbiology Rio Grande Branch Meeting. February 8, 2002.

Dominguez, D.C. "Molecular Diagnosis" Nurse Women Association for Health. El Paso, Texas. February 5, 2002.

Dominguez, D.C., A.Chavez, G. Salas. "An Endogenous and secreted Calcium binding Protein from *Bordetella pertussis* and *Bordetella bronchiseptica*" American Society for Microbiology, Orlando Florida May 2001

"Viral Infections: Hepatitis from A to E", El Paso Community College faculty and students April 2001

"Pathogenesis of *Bordetella pertussis* Annual Borderland Educational Conference, Memorial Hospital, Las Cruces NM March 2001

Chavez, A and D.C. Dominguez "Study of A Calmodulinlike protein from *B. pertussis*. American Society for Microbiology Annual Branch Meeting, Albuquerque, N.M. January 2001

"Principles of Molecular Biology" Clinical Laboratory Science First Annual Continuing Education Seminar, Molecular Diagnostics Series. University of Texas at El Paso, College of Health Sciences June 2000

"Reemergence of *Bordetella pertussis* in vaccinated populations" CHS Advisory Council April 7, 2000

"The Genome Project" Annual Borderland Educational Conference, Memorial Hospital, Las Cruces NM January 2000

"Viral Hepatitis a Short Overview" Park College, Fort Bliss, El Paso TX December 1999

"Seroepidemiologic Study of Hantavirus Infection" Oral presentation to Community Health Research, El Paso Community College, EPCC Campus Rio Grande April 9 1999

"DNA Technology and The Genome Project" College Health Sciences, UTEP, March 1999

Dominguez, D.C., Arias, J., J.B. Jonsson "Seroepidemiologia de Hantavirus en Puerto Palomas, Ascencion, Chihuahua". Convencion Nacional de Epidemiologia Jalisco, Mexico. April 1998

"The Human Genome Project" Texas Tech Clinical Faculty, Texas Tech, El Paso, TX. April 1998

“Seroprevalence of Hantavirus Infection in Puerto Palomas, Chihuahua Mexico,
Binational Meeting Health Council, Puerto Palomas Chihuahua, Mexico. August 1998

“Safety and Bloodborne pathogens an OSHA Overview” College of Health Sciences, UTEP,
June 1998

“A Calmodulinlike Protein from *Bacillus subtilis* cells” Fall Seminar
Biology Department UTEP September 1998

UNIVERSITY SERVICE

College of Health Sciences

Appeal Committee CHS 2014
 Research committee CHS 2012-2016
 Post Tenure Review 2014
 Research committee Chair 2012-2013
 Third Year Tenure Review 2013
 Post Tenure Review 2013
 Third year Tenure Review chair 2012
 Post Tenure Review 2011
 Faculty Recruitment and Development Committee 2009
 Welfare Committee, 2009
 Tenure track Faculty Evaluation Committee 2008
 Third year Review tenure track faculty 2008
 Dean Search committee 2007
 Tenure-Track Faculty Evaluation Committee 2007
 Interdisciplinary PhD Program College of Health Sciences 2007
 College of Health Sciences Advisory Board 2006
 Health Oriented Topics Committee 2004-2006
 Undergraduate Curriculum, Chair 2005-2006

CLS Department

Advisory Board CLS Program – **to present**
 Library liaison 2010 **to present**
 Curriculum CLS **to present**
 Faculty Search Committee 2011-2112
 Accreditation of CLS Program 2011
 Self-Study
 Site Visit

University Committees

University Biosafety Review Board Committee 2006 **to present**
 Committees on Committees 2014-2017

Student Organizations and Activities Committee, Secretary 2008-2010
 Teaching Effectiveness Committee 2006-2008
 Academic Rights, Privileges and Ethics Committee 2008-2009
 Top Ten Graduating Seniors Selection Committee 2007
 Admissions and Standards Committee, Secretary 2002-2004
 Faculty senate alternate CHS 2006-2007
 Student Opportunities Task Force 2007

CONTINUING EDUCATION

Writing and Designing NIH Proposals workshop, February 26, 2014, UTEP
 Next Generation Sequencing July 30, 2014, National Meeting of the American Society for
 Clinical Laboratory Science Chicago IL
 Standardization in Clinical Chemistry July 30, 2014, National Meeting of the American Society
 for Clinical Laboratory Science Chicago IL
 Career Options for MLS, July 30, 2014, National Meeting of the American Society for Clinical
 Laboratory Science Chicago IL
 Education Scientific Assembly July 31, National Meeting of the American Society for Clinical
 Laboratory Science Chicago IL, 2014
 The molecular profile of hematologic malignancies DNA to diagnosis August 2, 2013
 Pitfalls of Drugs of Abuse Testing: Issues with urine adulteration and designer drugs ASCLS
 meeting Houston, August 1, 2013
 Nanotechnology in Breast Cancer therapy ASCLS meeting Houston, July 31, 2013
 An emerging professional role for laboratories ASCLS meeting Houston July 31, 2013
 Genomics as part of Integrated Health care, ASCLS meeting Houston July 31, 2013
 What bacteria is teaching us about cancer August 1, 2013 ASCLS national meeting Houston
 New concepts in cell signaling and T cell diseases College of Health Sciences, UTEP February
 6, 2013
 Mentoring workshop sponsored by the graduate school January 2012, Academic services Bldg
 Interdisciplinary PhD Mini-Retreat April 6, Visiting Nurse Association
 Leadership Development Institute Fall 2012
 Can Injuries be prevented by consulting patients at the emergency room Seminar CHS
 September 2012
 Femicide and Violence in Cd. Juarez Seminar CHS, October 2012
 Deadly Allergies Recent Trends Seminar CHS October 31 2012
 Advances in molecular diagnosis, Texas Association for CLS conference, Dallas, Texas, 2012
 Tuberculosis in the 21st Century, Texas Association for CLS conference, Dallas, Texas, 2012
 An Update in Aspirin and Plavix, Texas Association for CLS conference, Dallas, Texas, 2012
 The role of Hemoglobin A1C and Lipid Profiles in diabetes, Texas Association for CLS
 conference, Dallas, Texas, 2012
 Culturing Techniques and Isolation of *H. pylori* from endoscopy biopsies. Training Session,
 2012, Michael DeBakey VA Hospital, Houston, Texas. December 17 2012.
 Cancer and Metastasis Bioinformatics Seminar February 24, 2012 UTEP
 Mentoring Graduate Students April 3, 2012 UTEP, Graduate School
 Interdisciplinary PhD Program Mini-Retreat April 6, 2012
 Challenges and Opportunities in CLS March 30, 2012 TACLS, Dallas, TX
 Advances in Molecular Diagnostics March 30, 2012 TACLS , Dallas TX

Tuberculosis in the 21st Century March 29, 2012 TACLS, Dallas TX
 An Update on Aspirin and Plavix March 29, 2012, Dallas TX
 The role of HgbA1C and lipid profiles in Diabetes March 29, 2012 Dallas TX
 Docotral Faculty and Student Mentoring Retreat UTEP January 11, 2012
 Blood Borne Pathogens and laboratory Safety Trainings 2011
 Symposium for Infectious diseases and Health Disparities, Biosciences Building El Paso, UTEP campus April 3-4 2011
 Mentoring Institute 2011 conference UNM, Albuquerque NM October 2011
 American society for Microbiology Annual conference, New Orleans, LA 5-22-24-2011
 The Global Spread of Bacteria that produce beta-lactamases May 22, ASM meeting, New Orleans LA 2011
 Genomic Epidemiology: Sequencing Multiple whole genomes to reconstruct and understand outbreaks and epidemics of infectious disease May 22, ASM meeting, New Orleans LA 2011
 A Gut Reaction: The relationship between obesity and Microorganisms, May 23, ASM meeting, New Orleans LA 2011
 What is new in Clinical Immunology and Molecular Diagnostics? May 23, ASM meeting, New Orleans LA 2011
 The Public Health challenges of surveillance for Multidrug Resistant Pathogens, May 24, ASM meeting, New Orleans LA 2011
 Even more Outrageous and contagious case presentations, May 24 ASM meeting, New Orleans LA 2011
 Biosafety Training Session: Biosafety and rDNA July 25,10
 Chemical Genomics Workshop, Gulf coast consortia, Biology Department, El Paso TX October 25,10
 El Paso Immunization Stakeholder Meeting April 28, 10EPISD El Paso, TX
 Unification of ASCPBOR and NCA: The Result Texas Association Clinical Laboratory Sciences(TACLS), El Paso, Texas, April 7, 2010
 Medical/Laboratory Programs Outside the Box TACLS. El Paso, TX April 8, 2010
 Searching for the Face of the clinical laboratory TACLS, El Paso, TX, April 9, 2010
 Forensic DNA Pat, present, and future, TACLS, El Paso, TX April 9, 2010
 It's the law: health care associated Infections, TACLS, el Paso, TX April 9, 2010
 The future role of the laboratory in personalized medicine TACLS, El Paso TX, April 9, 2010
 Global phenotypic characterization of bacteria ASM, San Diego May 23, 2010
 Best Practices for Laboratory diagnosis of invasive infections ASM, San Diego, May 24, 2010
 The Transition to Pathogenesis - symposium ASM, San Diego, May 24, 2010
 Chemotaxis from receptors, to motors to flagella - symposium ASM San Diego April 25, 2010
 National Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans April 22, 2009
 6th Annual Meeting of the US-Mexico border Health Association, June 2009 UTEP
 Clostridium difficile Infection (CDI): the changing Disease and Evolving Laboratory Diagnosis. ASCP Teleconference, CHS El Paso, TX December 8, 2008
 Training in chemiluminescence techniques Department of Biochemical Medicine, Cardiff University UK July 21-27
 Bordetella pertussis anatomy of an outbreak ASM National meeting, Boston, MA June 1 2008
 MRSA what is the role of active surveillance. ASM National meeting, Boston, MA June 2, 2008

Host-Pathogen interactions in Biofilm Infections. ASM National meeting, Boston, MA June 3, 2008

Molecular diagnosis in non-tertiary care hospital. ASM National meeting, Boston, MA June 3, 2008

Footcare and Furunculosis: *Mycobacteria fortuitum* TACLS, Austin, Texas April 3, 2008

QC&QA in microbiology, TACLS Austin, Texas April 3, 2008

What are the real numbers in hospital lab personnel, TACLS, Austin, Texas April 4, 2008

Career Opportunities in CLS, TACLS, Austin, Texas, April 4, 2008

DNA Technology in Clinical Microbiology, Detroit, Michigan, September 26-28, 2007

American Society for Microbiology Regional Meeting El Paso, Texas 2007

American Society for Microbiology International Meeting, Toronto Canada, May 21-24 2007.

Texas Association fro Clinical Laboratory Science Regional Meeting, Dallas Texas, March 22-23, 2007

Educational Seminar Fall 2006 New Mexico Society for Clinical Laboratory Science
Topics: Molecular Biology, Microbiology, October 20,21 2006

Recently published Provisional guidelines for Influenza and Pertussis-Expanding Targets, Preventing disease El Paso Texas, Sanofi-Pasteur Presentation October 4, 2006

Clinical Cases in Microbiology, Teleconference at UTEP September 20, 2006

TACLS Convention, San Antonio Texas March 29-April 1, 2006

Morphology that Matters, the Colorado Association for Continuing Education Medical Laboratory Education, Providence memorial Hospital, June 7, 2006,

Critical Thinking, Center for Effective Learning, the University of Texas at El Paso, September, 2005

New Strategies in Pertussis Prevention: Expanding Targets, Reducing Disease, August 18, 2005 El Paso Texas

Bioinformatics workshop, Mellon Institute, Pittsburg, PA July 2005

Calcium and Cell Function, FASEB Summer Conference, Snowmass, Colorado, June, 10 2004.

Leadership in Academe, Triangle Associates, St. Louis MO, UTEP, El Paso Texas, May 12, 2004

Scholarship and Education, UTEP, El Paso, Texas April, 16 2004

A guide to Accreditation NAACLS, Milwaukee, WI Feb, 2004

American Society for Microbiology National Meeting, Washington DC May 2003

Microbial Pathogenesis Atlantic Meeting, Wintergreen, VA March 2003

New Mexico Society for clinical Laboratory Science Spring Education Seminar. April 11-12, 2002

Molecular diagnostics a course for Educators, University of Nebraska, Omaha, Nebraska

Southwestern Association of Clinical Microbiology Annual Meeting, Wichita, Kansas September 5-8, 2001

National Meeting American Society for Microbiology, Orlando Florida May 21-25, 2001

Second Continuing Education Seminar Hematology, CLS Program, UTEP June 3, 2001

American Society for Microbiology Teleconference, Thomason Hospital "Antimicrobial Susceptibility an Update" March 14, 2001

Proteomics La Joya, CA October 26, 2000

Blood borne pathogens training session Environmental Health and Safety Office, UTEP September 18, 2000

Grant Writing Workshop, Tucson, AZ May 2000
ASM National Meeting, Los Angeles, CA May 2000
First Annual continuing Education Seminar: Molecular Diagnostics, CLS Program, UTEP June 1, 2000
Borderland Seminar Memorial Hospital, Las Cruces, NM January 20, 2000
Molecular Pathology for Educators, O'maha Nebraska December 10-13, 1999
Antimicrobial Resistance Seminar, Annual Meeting of the Southwestern Association for Clinical Microbiology September 9, 1999
Mycology/ Bioterrorism, Annual Meeting of the Southwestern Association for Clinical Microbiology September 10, 1999
Diagnostic Medical Parasitology Workshop, Annual Meeting of the Southwestern Association for Clinical Microbiology September 11, 1999
DNA Technology in the Clinical Laboratory, Beaumont Hospital, Royal Oak, Michigan March 25,26, 1999
Infectious Diseases Symposium, El Paso TX February 26,27, 1999
Borderland Educational Conference New Mexico Society for CLS, Las Cruces, NM February 20,1999
Videotaped Evaluation of Teaching, CETAL, UTEP February 22, 1999
Lecturing Well, CETAL, UTEP February 9, 1999
ASM Regional Meeting, Albuquerque, NM January 22,23 1999
Creating a Learning-Centered Syllabus, CETAL, UTEP January 11, 1999
Nature of Student Learning: A participatory workshop on learning styles, CETAL UTEP January 8, 1999
Vaccine Preventable Diseases, CDC, Teleconference UTEP December 3, 1998
Strategies for Making contact with students CETAL, UTEP August 1998
DNA Technology in the Clinical Laboratory, Beaumont Hospital, Royal Oak, Michigan March 26,27, 1998
Infectious Diseases Symposium, El Paso TX February 27,28, 1998
American Society for Microbiology (ASM) Regional Branch Meeting, El Paso, TX January 16,17, 1998
Teaching Strategies for Health Care Educators UTEP June 20, 1997
ADA Glucose Guidelines Teleconference UTEP, November 18, 1997
Evaluating Faculty performance: Teaching Portfolio: Teaching Philosophy and goals, UTEP November 7, 1997
Human Genome Database: Impact on Prevalence of Diabetes (Los Alamos National Laboratories), National Biotechnology Information Technology, NMSU, Las Cruces, NM August 11-15, 1997
Short Course in Genomics, National Institutes of Health, Bethesda MD June 4, 1997
Whooping Cough: Culture and Identification Texas Department of Health, Austin TX., 6-25-97 June 25, 1997
DNA Technology in the Clinical Laboratory, Royal Oak, Michigan March 14,15 1997
Teleconference Hematology Seminar: Anemias, University of Maryland at Baltimore March 6,1997
New Quantitative Antimicrobial Susceptibility Test, El Paso TX, January-23,1997
Second Zia Symposium on Molecular Cell Biology: Diverging and Emerging Microbes, New Mexico State University, Las Cruces, NM 1997

Immunogold Electron Microscopy, Austin Texas, 1992

DNA Technology in the Clinical Microbiology Laboratory, Beumont Hospital, Royal Oak, MI
1992