

Dr. Gregory W. Buck

Texas A&M University-Corpus Christi
Science & Engineering, Life Sciences

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Education

PhD, Georgia State University, 1999.

MS, Georgia State University, 1992.

BS, Morehouse College, 1981.

Licensures and Certifications

Certificate, Steps Toward Academic Research in Health Disparities, The University of North Texas Health Science Center. (2008 - Present).

Level T7 Teaching Certificate, Georgia Professional Standards Commission. (1988 - 2017).

Responsible Conduct of Research, Collaborative Institutional Training Initiative (CITI). (2013 - 2016).

Protecting Human Research Participants (PHRP), National Institutes of Health. (2012 - 2015).

Professional Employment

Associate Professor, Texas A&M University-Corpus Christi. (September 2010 - Present).

Assistant Professor with Tenure, Texas A&M University-Corpus Christi. (September 2007 - August 2010).

Assistant Professor, Texas A&M University-Corpus Christi. (September 2001 - August 2010).

Visiting Scientist, The University of Texas Medical Branch. (May 2005 - August 2005).

Did research in Departments of Biochemistry
and Genetics under Dr. Sankar Mitra and Microbiology & Immunology under Dr. David Niesel

Postdoctoral Fellow, Emory University. (September 1999 - August 2001).

Graduate Teaching and Research Assistant, Georgia State University. (June 1994 - September 1999).

Taught two labs per quarter (1994-98) or semester (1998-99); also did research

Science Teacher, Douglas County Schools-Lithia Springs HS. (April 1989 - June 1994).

Research Specialist I, Emory University. (September 1985 - April 1988).

Performed genetic research on *Salmonella enterica* serovar Typhimurium

Laboratory Analyst, Dekalb County Public Works. (March 1985 - September 1985).

Sampled water from new construction

Filtered water from samples

performed QA/QC on drinking water

Administrative Appointments

Department

Program Coordinator (2013 - Present)

Coordinate Biomedical Sciences program (curriculum, monitoring of adjuncts, scheduling, WEAVE reports, correct catalogue through ACALOG and website) consisting of 4-6 faculty and ~700 undergraduates (637 BIMS + 63 CLS); manage and delegate tasks regarding program reviews

Professional Memberships

American Association of Anatomists
Sigma Xi Scientific Research Society
Texas Association for the Advisors of Health Professions
American Society for Microbiology
Society for Chicanos and Native Americans in Science
Network of Minority Research Investigators
National Environmental Health Association

TEACHING

Teaching Experience

BIMS 2200, PROFESSIONAL SKILLS
BIMS 4370, MEDICAL BACTERIOLOGY
BIMS 4374, MEDICAL MICROBIOLOGY
BIMS 4396, DIS: The Role of Iron in Growth *Vibrio vulnificus*
BIMS 4406, IMMUNOLOGY
BIMS 5374, MOLECULAR MEDICAL MICROBIOLOGY
BIOL 2200, PROFESSIONAL SKILLS
BIOL 2421, MICROBIOLOGY
BIOL 4304, BIOLOGY OF VIRUSES
BIOL 4396, DIS: Antimicrobial Properties of Chiral Amino Acid Surfactant Substitutes
BIOL 4406, IMMUNOLOGY
BIOL 5102, GRADUATE DEFENSE SEMINAR
BIOL 5304, VIROLOGY
BIOL 5392, THESIS PROPOSAL
BIOL 5393, THESIS RESEARCH
BIOL 5394, THESIS SUBMISSION
BIOL 5396, Development of procedures manual for real-time PCR platforms for the evaluation of *Vibrio* and *Enterococcus*
BIOL 5397, Directed Research: Antimicrobial control of *Vibrio Vulnificus*
BIOL 5406, IMMUNOLOGY
BIOL 5940, PROJECT RESEARCH
HONR 4195, PROJECT OF EXCELLENCE
SMTE 4320, SECONDARY SCIENCE LAB TECHNIQUE

Non-Credit Instruction

Vibrio vulnificus: Gene regulation and control of environmental isolates from south Texas estuaries, University of North Texas Health Science Center. (June 2013).
Flipping the classroom: one type of active learning strategy. (March 2012).
JUMP to JAMP, Joint Admissions Medical Program-THCEB. (August 2011).

Gene regulation and control of environmental isolates from south Texas estuarine waters. (November 2010).
Microbiology Boot Camp: Cell Structure, Metabolism, Growth, Genetics, and Antibiotics, South Coastal Area Health Education Center (AHEC). (August 2010).
How our students learn: strategies for teaching honors students, but instructing them on how to think, TAMU-CC Honors Program. (June 2009).
Real-time Polymerase Chain Reaction. (2008).
Cardiovascular and Musculoskeletal systems. (2005).
DNA repair in *E. coli*. (September 2004).
Cardiovascular Pathology and Heart Disease. (2002).
Mechanisms of bacterial pathogenesis in *Staphylococcus* and *Streptococcus*, University of the Pacific, Stockton, California. (January 2001).

Teaching Awards and Honors

Exemplar of Student Success, TAMU-CC Office of the Provost. (2016).
Mary Stevens Award--Campus Nominee, Piper Foundation. (2016).
Honorary Member, Alpha Epsilon Delta Pre-Professional Honor Society (Texas Xi). (2016).
Why I Teach Featured video, TAMU-CC. (2015).
Outstanding Islander of the Month, Texas A&M University-Corpus Christi. (2014).
Outstanding Mentor, TAMUCC Honors Program. (2014).
Fellow, Howard Hughes Medical Institute and Mountain West Summer Teaching Institute, National Academies of Science and Howard Hughes Med. Institute. (2012).
National Academies Education Fellow in Life Sciences, Howard Hughes Institute/National Academies Education. (2011).
Texas A&M System Teaching Award, Texas A&M System. (2011).
Piper Professor Nominee-COSE, Mary Stevens Piper Education Foundation. (2010).
Texas A&M System Teaching Excellence Award, Texas A&M System. (2009).
University Faculty Excellence in Teaching Award, Texas A&M University-Corpus Christi. (2007).
Excellence in Teaching, College of Science and Technology. (2007).
Honors Program Faculty, Texas A&M University-Corpus Christi. (2007).
"Most Challenging Professor" Award, Alpha Epsilon Delta. (2003).
"Most Challenging Professor" Award, Alpha Epsilon Delta. (2003).
Regents' Academy of Professional Educator Development, Texas A&M System. (2001).
Phi Delta Kappa Education Honor Society, University of West Georgia. (1991).

SCHOLARLY AND CREATIVE ACTIVITIES

Publications

Refereed

Conference Proceedings

Mehrubeoglu, R., Buck, G. W., Livingston, D. W. (2014). Differentiation of bacterial colonies and temporal growth patterns using hyperspectral imaging. In Pantazis Mouroulis and Thomas S Pagano (Ed.), *Imaging Spectrometry* (922206th ed., vol. 9222, pp. 1-15). San Diego CA: SPIE.

Vasquez, E. R., Schwarz, H. L., Egan, P. A., Buck, G. W. (2013). Elucidating a Specific Minimal Concentration of Taurine Chloramine that Inhibits Growth of Skin Commensal *Staphylococcus epidermidis*. In Mila LeMaster (Ed.), *Proceeding of the National Council for Undergraduate Research* (vol. 2013, pp. 513-520). Asheville, NC: National Council for

Undergraduate Research.
www.ncurproceedings.org/ojs/index.php/NCUR2013/article/view/665/441

Journal Articles

Haslun, J. A., Strychar, K. B., Buck, G. W., Sammarco, P. (2011). Coral Bleaching Susceptibility is Decreased Following Short-Term (1-3 Year) Prior Temperature Exposure and Evolutionary History. *Journal of Marine Biology*, 2011(406812), 13.
www.hindawi.com/journals/jmb/

Ramirez, G. D., Buck, G. W., Gordon, K. V., Mott, J. B. (2009). Incidence of *Vibrio vulnificus* in estuarine waters of the south Texas Coastal Bend region. *Journal of Applied Microbiology*, 107, 2047-2053.

Imam, S. Q., Gonzales Rivera, C., Buck, G. W., Mott, J. B., Ramirez, G. D. (2007). Differential response of *Vibrio vulnificus* isolates from south Texas waters to oxidative stress. *Journal of Young Investigators*, 16(4). www.jyi.org/research/re.php?id=966

Romero, C. D., Chopin, S. R., Buck, G. W., Garcia, M., Martinez, E., Bishop, L. (2005). Antibacterial properties of common herbal remedies of the southwest. *Journal of Ethnopharmacology*, 99(2), 253-257.

Periodicals

Chopin, S. R., Buck, G. W., Romero, C., Michelle, G., Elvia, M., Lisa, B. (2005). *Antibacterial properties of common herbal remedies of the southwest*. (vol. 99, pp. 253-257). *Journal of Ethnopharmacology*.

Technical Reports

Mott, J. B., Ramirez, G., Buck, G. W. (2008). *Vibrio vulnificus monitoring in recreational waters. Final Report* (pp. 83). Corpus Christi, Texas: Coastal Bend Bays and Estuaries Program. www.cbbep.org/publications/virtuallibrary/2008table/0624.pdf

Non-Refereed

Journal Articles

Egan, P. A., Buck, G. W., Vasquez, E. R. (2013). Effects of Taurine Chloramine to *Staphylococcus aureus* as a potential treatment to pathogenicity. *Texas A&M Univ.-Corpus Christi McNair Scholars Journal*, 4, 92-99.

Periodicals

Buck, G. W. (2005). *Anatomy, anthropology training good base for forensic science* (2nd ed., vol. 14, pp. 26). Rockville, MD: American Association of Anatomists.

Technical Reports

Cammarata, K., Buck, G. W., Larkin, P. D., Lehman, R. L., Mott, J. B., Waldbeser, L. S. (2005). *Final Report: "Acquisition of a Digital Imaging System to Support Research and Research Training in Applications of Molecular Biology" NSF-MRI*.

Presentations

Egan, P. A. (Author), Buck, G. W. (Author), Vasquez, E. (Presenter), "Effect of taurine chloramine on *Staphylococcus epidermidis* as a potential treatment," 21st Annual National McNair Conference and Graduate Fair, McNair, Univ. of Wisconsin-Milwaukee.

Buck, G. W., "What is Biology?," TAMUCC Office of Recruitment and Admissions, TAMUCC. (February 20, 2017).

Buck, G. W., "DNA: The Beginnings," Island Day, TAMUCC, TAMUCC. (October 15, 2016).

Buck, G. W. (Author & Presenter), Shank, E. (Author), Hulede, I. (Author), Gibbons, L. (Author), Rodela, R. (Author), "Developing effective poster and oral presentations for ABRCMS," American Society for Microbiology. (October 12, 2016).

Buck, G. W. (Author & Presenter), "The ABCs of great posters! A guide on how to create great posters and do memorable presentations.," American Society for Microbiology. (June 2, 2016).

Buck, G. W., "Microbiology as a career choice: options and possibilities," Career Day, School of Science and Technology Charter School, Corpus Christi. (May 20, 2016).

Buck, G. W., "DNA: The Beginnings," Island Day, TAMUCC, TAMUCC. (April 2, 2016).

Lovato, D. (Author & Presenter), glesias, J. (Author), Turner, J. (Author), Billiot, E. J. (Author), Billiot, F. H. (Author), Buck, G. W. (Author), "Antibacterial Analysis of an Isoleucine Based Surfactant," 251 ACS National Meeting, American Chemical Society, San Diego. (March 13, 2016).

Buck, G. W., "DNA: The Beginnings," Island Day, TAMUCC, TAMUCC. (February 6, 2016).

Idowu, O. F. (Author & Presenter), Vo, P. (Author), Smith, S. (Author), Buck, G. W. (Author), Mehrubeoglu, R. (Author), "Use of hyperspectral imaging to compare colonial morphology of bacteria normally found within environmental samples.," 12th Annual Pathways Student Research Symposium, Texas A&M University System, Texas A&M University-Corpus Christi. (October 23, 2015).

Carbaugh, J. (Author & Presenter), Pham, T. D. (Author), Buck, G. W. (Author), "Presence of *vcg* gene locus as a potential genotype marker in environmental and clinical isolates of *Vibrio vulnificus* from the Gulf of Mexico.," 12th Annual TAMUS Pathways Student Research Symposium, Texas A&M University System, Texas A&M University-Corpus Christi. (October 23, 2015).

Vo, P. H. (Author & Presenter), Idowu, O. F. (Author), Smith, S. (Author), Buck, G. W. (Author), Mehrubeoglu, R. (Author), "Use of hyperspectral imaging to distinguish between bacterial species commonly seen in foodborne illnesses," 12th Annual TAMUS Pathways Student Research Symposium, Texas A&M University System, Texas A&M University-Corpus Christi. (October 23, 2015).

Bortz, S. (Author & Presenter), Mills, S. (Author), Mott, J. B. (Chair), Buck, G. W. (Co-Chair), Turner, J. (Author), "Can reliable characterization of non-point fecal inputs be achieved using qPCR?," 115th General Meeting, American Society for Microbiology, New Orleans, LA. (May 30, 2015).

Buck, G. W., "*Vibrio vulnificus*: Gene regulation and control under stress of environmental isolates from south Texas estuarine waters," Group Meeting, Borlaug Institute, Texas A&M University, College Station. (May 29, 2015).

Buck, G. W., Baynham, P. J. (Author), Hulede, I. (Author), Fonseca, T. (Author), Gibbons, L. (Author), "Congratulations! You are making a poster presentation at the American Society for Microbiology General Meeting: a guide for ASM fellows.," American Society for Microbiology. (April 28, 2015).

Buck, G. W., "Personal reflections of a former STAR Fellow," International Symposium on Minority Health and Health Disparities, National Institute of Minority Health and Health Disparities, National Harbor, MD. (December 1, 2014).

Buck, G. W., "DNA: The Beginnings," Island Day, Texas A&M Univ-Corpus Christi, Corpus Christi, TX. (October 18, 2014).

Buck, G. W., "DNA: The Beginnings," Island Day, Texas A&M Univ-Corpus Christi, Corpus Christi, TX. (April 5, 2014).

Livingston, D. (Author & Presenter), Mehrubeoglu, R. (Author), Buck, G. W., "Hyperspectral imaging of bacteria," 13th Annual Undergraduate Symposium, Sigma Xi, Texas A&M Univ-Corpus Christi. (October 12, 2013).

Giagnocavo, S. D. (Author), Livingston, D. (Author & Presenter), Mott, J. B. (Author), Buck, G. W. (Author), "Occurrence of *vcgC* in clinical and environmental strains of *Vibrio vulnificus*," 13th Annual Undergraduate Symposium, Sigma Xi-South Texas Chapter, Texas A&M Univ-Corpus Christi. (October 12, 2013).

Narendra, N. (Author), Vasquez, E. R. (Author & Presenter), Buck, G. W. (Leader), "Induction of the *GehD* phospholipase in non-clinical strains of *Staphylococcus epidermidis* under heat-stress," Kingsville. (August 2013).

Giagnocavo, S. (Author & Presenter), Livingston, D. (Author), Buck, G. W. (Author), "Occurrence of *vcgC* in clinical and environmental strains of *Vibrio vulnificus*," Summer Undergraduate Research Focus Symposium, Texas A&M University-Corpus Christi, Corpus Christi, TX. (August 8, 2013).

Adams, K. (Author & Presenter), Dubberke, C. M. (Author), Richards, J. (Author), Guardiola, J. H. (Author), Buck, G. W. (Author), Leeson, K. A. (Author), "Differences in infection rates of diabetics with methicillin-resistant *Staphylococcus aureus* (MRSA) from a hospital-based study.," Annual National Scientific Meeting, American Podiatry Medical Association, Las Vegas, Nevada. (July 22, 2013).

Buck, G. W., "Vibrio vulnificus: Gene regulation and control of environmental isolates from south Texas estuaries," Undergraduate Role Models Seminar, University of North Texas Health Science Center, Fort Worth, TX. (June 11, 2013).

Vasquez, E. R. (Author & Presenter), Egan, P. A. (Author), Buck, G. W. (Author), "Elucidating a specific minimal concentration of taurine chloramine that inhibits growth of skin commensal *Staphylococcus epidermidis*," 27th National Council of Undergraduate Research Meeting, NCUR, Univ. of LaCrosse, Wisconsin. (April 11, 2013).

Buck, G. W., "DNA: The Beginnings," Island Day, College of Science and Engineering, Texas A&M University-Corpus Christi. (April 6, 2013).

Planas-costas, G. (Author & Presenter), Crow, B. A. (Author), Mott, J. B. (Author), Diaz, M. A. (Author), Buck, G. W. (Author), "Phenotypic differences among concentration variable hypersaline-stressed *V. vulnificus*," Emory University STEM Research and Career Symposium, Emory University, Atlanta, GA. (April 4, 2013).

Rodriguez, L. A., Mahmoud, Y., Teng, M. Y., Buck, G. W., Mehrubeoglu, R., "Hyperspectral Investigation of Arterial Sections," 12th Annual Undergraduate Research Symposium, College of Science and Engineering and South Texas Chapter of Sigma Xi, Harte Research Institute, Texas A&M University-Corpus Christi. (March 2, 2013).

Idowu, M. B. (Author & Presenter), Vasquez, E. R. (Author & Presenter), Planas-Costas, G. (Author), Egan, P. A. (Author), Buck, G. W. (Author), "Preliminary characterization of *Vibrio vulnificus* susceptibility to halogenated taurine compounds in vitro," Twelfth Annual Undergraduate Research Symposium, Sigma Xi South Texas Chapter, Texas A&M Univ.-Corpus Christi. (March 2, 2013).

Vasquez, E. R. (Author & Presenter), Schwarz, H. L. (Author), Idowu, M. B. (Author), Egan, P. A. (Author), Buck, G. W. (Author), "Taurine Chloramine concentration screening of *Staphylococcus epidermidis*," Twelfth Annual Undergraduate Research Symposium, Sigma Xi South Texas Chapter, Texas A&M Univ.-Corpus Christi. (March 2, 2013).

Buck, G. W., "DNA: The Beginnings," Island Day, College of Science and Engineering, Texas A&M Univ-Corpus Christi. (February 16, 2013).

Planas-Costas, G. (Author & Presenter), Crow, B. A. (Author), Lee, L. S. (Author), Mott, J. B. (Author), Diaz, M. A. (Author), Buck, G. W. (Author), "Use of two genes within *Vibrio vulnificus* environmental strains as markers of detection," 12th Annual Biomedical Research Conference for Minority Students, American Society for Microbiology, San Jose, CA. (November 8, 2012).

Buck, G. W. (Author & Presenter), Harrington, J. (Author & Presenter), Bernard, A. (Author), Burleson, M. (Author), Candas, M. (Author), Garrity, D. (Author), Leatherman, J. (Author), Orchinik, M. (Author), Pravosudora, E. (Author), Prezler, R. (Author), Suchman, E. (Author), Taylor, J. (Author), Yao, T. (Author), "Ideal campus conditions for implementing scientific teaching.," Mountain West Summer Institute on Undergraduate Education in Biology, Howard Hughes Institute, University of Colorado-Boulder. (August 4, 2012).

Buck, G. W. (Author & Presenter), Guardiola, J. H. (Author), Adams, K. M. (Author), Gest, A. (Author), Leeson, K. (Author), Drescher, E. (Author), Montis, J. (Author), Ulbrich, A. (Author), Eisenberg, C. (Author), "Differences in infection rates of diabetics with methicillin-resistant *Staphylococcus aureus* (*S. aureus*) from a hospital-based study in Corpus Christi, Texas.," Network of Minority Research Investigators 10th Annual National Workshop, National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), Bethesda, MD. (April 19, 2012).

Buck, G. W. (Author & Presenter), "Flipping the classroom: one type of active learning strategy," Alternative Teaching Strategies, College of Science and Engineering, Texas A&M Univ-Corpus Christi. (March 30, 2012).

Buck, G. W. (Author & Presenter), "DNA: The Beginnings," Island Day, College of Science and Engineering, TAMU-CC. (March 24, 2012).

Vidal, G. (Author & Presenter), Thiyagarajan, M. (Author), Pham, H. K. (Author), Doyungan, A. M. (Author), Mott, J. B. (Author), Buck, G. W. (Author), "Cold plasma inactivation of *E. coli* and *S. aureus* on solid surfaces for infection treatment," 38th SACNAS Meeting, Society for Chicanos and Native Americans in Science, San Jose, CA. (October 27, 2011).

Diaz, M. A. (Author & Presenter), Buck, G. W. (Author), Chopin, S. R. (Author), Mott, J. B. (Author), "Co-resistance to Selected Heavy Metals and Antibiotics in *Vibrio vulnificus*," 111th General Meeting, American Society for Microbiology, New Orleans, LA. (May 23, 2011).

Lindsey, O. M. (Author & Presenter), Sealy, R. D. (Author), Harwood, V. J. (Author), Gordon, K. V. (Author), Buck, G. W. (Author), Mott, J. B. (Author), "Comparison of Four Molecular Assays for

Human Fecal Contamination in Texas Coastal Waters," 111th General Meeting, American Society for Microbiology, New Orleans, LA. (May 22, 2011).

Buck, G. W. (Author & Presenter), Lyle, L. M. (Author & Presenter), Jones, Z. J. (Author & Presenter), Galvan, A. A. (Author), Mott, J. B. (Author), Ramirez, G. D. (Author), "Understanding the role of *V. vulnificus* in the waters of the Coastal Bend," 54th Annual Winter Lecture Series, Corpus Christi Museum of Science and History, Corpus Christi, TX. (March 8, 2011).

Chopin, S. R., Buck, G. W., Romero, C., Muhl, J., Setterbo, N., Alcantara, D., Maldonado, Y., "Efficacy of herbal remedies," Museum of Science and History, Corpus Christi, Texas. (2010).

Shi, L., Stunz, G. W., Gordon, K. V., Buck, G. W., Mott, J. B., "Vibrio vulnificus strains associated with fish and their potential virulence compared with Texas clinical strains," Vibrios in the Environment 2010, Biloxi, MS, (November 2010).

Buck, G. W., Lyle, L. M. (Author & Presenter), Willias, S. P. (Author), Jones, Z. J. (Author), Ramirez, G. D. (Author), Mott, J. B. (Author), "Analysis of *rpoS* gene expression comparing a south Texas environmental and a clinical isolate of *Vibrio vulnificus* under hyperosmolar conditions using the Cepheid® Smart-Cycler," Vibrios in the Environment Conferenc, Biloxi, MS, USA. (November 2010).

Shi, L. (Author & Presenter), Stunz, G. W. (Author), Gordon, K. V. (Author), Buck, G. W. (Author), Mott, J. B. (Author), "Vibrio vulnificus concentrations associated with sport-fish and water in Coastal Bend Bays of Texas," Gulf Estuarine Research Society, Gulf Estuarine Research Society, Port Aransas, TX. (November 4, 2010).

Muhl, J. (Author & Presenter), Setterbo, N. (Author), Chopin, S. R. (Author), Buck, G. W. (Author), Garza, M. (Author & Presenter), Billiot, F. H. (Author), "Antimicrobial inhibition by cranberry and amino acid derivative surfactants," 10th Undergraduate Research Symposium, Corpus Christi, Texas. (October 2010).

Buck, G. W. (Author & Presenter), "Gene regulation in *Vibrio vulnificus* isolates from south Texas estuaries: potential targets for pharmacologic interventions," Departmental Seminar, Texas A&M Health Sciences Center-Rangel College of Pharmacy, Kingsville, TX. (September 16, 2010).

Lyle, L. M. (Author & Presenter), Willias, S. P. (Author & Presenter), Jones, Z. J. (Author), Smith, A. D. (Author), Mott, J. B. (Author), Buck, G. W. (Author), "Comparison of the effects of environmental stress on *Vibrio vulnificus* isolates: monitoring of *rpoS* gene expression with quantitative real-time PCR.," 2nd Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens, American Society for Microbiology, Toronto, Ontario, CANADA. (June 2010).

Buck, G. W. (Author & Presenter), Guardiola, J. H. (Author), Vanderheiden, D. (Author), Hendricks, M. (Author), Hamisch, B. T. (Author), Trottier, S. (Author), "Diabetic Hispanic populations and MRSA infection rates in Corpus Christi, Texas.," 8th Annual National Workshop, National Institute of Diabetes, Digestive and Kidney Diseases--Network of Minority Research Investigators, Bethesda, MD. (April 22, 2010).

Lyle, L. (Author & Presenter), Willias, S. (Author & Presenter), Jones, Z. (Author), Smith, A. (Author), Ramirez, G. (Author), Mott, J. B. (Author), Buck, G. W. (Author), "Real-time PCR analysis of hyperosmolar stress on *V. vulnificus* type strain and an environmental isolate.," Texas Branch American Society for Microbiology Spring Meeting, Texas Branch American Society for Microbiology, New Braunfels, TX. (April 9, 2010).

Muhl, J., Setterbo, N., Chopin, S. R., Buck, G. W., "Antibacterial efficacy of common herbs," 9th Undergraduate Research Symposium, Texas A&M University-Corpus Christi, Corpus Christi, Texas. (2009).

Willias, S. P. (Author & Presenter), Lyle, L. M. (Author & Presenter), Jones, Z. J. (Author), Smith, A. D. (Author), Ramirez, G. D., Mott, J. B., Buck, G. W., "Osmotic stress response of *V. vulnificus* environmental isolate," 36th SACNAS (Society for Chicanos and Native Americans in Science) Meeting, SACNAS, Dallas, TX. (October 15, 2009).

Willias, S. P. (Author & Presenter), Lyle, L. M. (Author & Presenter), Ramirez, G. D. (Author), Mott, J. B. (Author), Buck, G. W. (Author), "Response of local *V. vulnificus* isolates to perturbations in osmolarity.," Ninth Annual Undergraduate Research Symposium, Sigma Xi and College of S&T, TAMU-CC. (October 10, 2009).

Willias, S. P. (Author & Presenter), Lyle, L. M. (Author & Presenter), Buck, G. W. (Author), Mott, J. B. (Author), Ramirez, G. D. (Author), Smith, A. (Author), "Phenotypic osmotic stress responses of *V. vulnificus* isolates," Summer Undergraduate Research Symposium, NSF-Undergraduate Mentoring in Research, TAMUCC. (July 30, 2009).

Buck, G. W. (Author & Presenter), Mott, J. B., Smith, A., Galvan, A. A., Ramirez, G. D., Villarreal, J., "Never mind "Jaws": Is it safe to go into the water with *Vibrio vulnificus*?," 73rd National Environmental Health Association (NEHA) Annual Educational Conference & Exhibition, NEHA, Atlanta, GA. (June 21, 2009).

Mott, J. B. (Author & Presenter), Buck, G. W. (Author), Ramirez, G. D. (Author), Smith, A. (Author), "Expansion of coastal beach monitoring to include *Vibrio vulnificus*: a pilot study," National Beach Conference, US Environmental Protection Agency, Huntington Beach, CA. (April 21, 2009).

Galan, A. (Author & Presenter), Willias, S. P. (Author), Galvan, A. A. (Author), Buck, G. W., Mott, J. B. (Author), Ramirez, G. D. (Author), "Growth of environmental *Vibrio vulnificus* in presence of osmotic stress.," Sixth Annual Pathways to the Doctorate Student Research Symposium, Texas A&M System, TAMU-Commerce, Commerce, TX. (November 7, 2008).

Ramirez, G. D. (Author & Presenter), Buck, G. W. (Author), Mott, J. B. (Author), "Incidence and distribution of *Vibrio vulnificus* in south Texas coastal waters," 108th General Meeting, American Society for Microbiology, Boston, MA. (June 3, 2008).

Galvan, A. A. (Author & Presenter), Buck, G. W. (Author), Mott, J. B. (Author), Quiroz, E. (Author), Villarreal, J. (Author), Ramirez, G. D. (Author), Smith, A. (Author), Hild, G. (Author), "Ability of Gulf Coast *V. vulnificus* isolates to withstand oxidative stresses: possible role as a public health concern.," 58th Annual James Steele Conference on Diseases in Nature Transmissible to Man, Texas Department of State Health Services, Galveston, TX. (April 2008).

Hild, G. (Author & Presenter), Buck, G. W. (Author), Galvan, A. A. (Author), "Growth Rates of *Vibrio vulnificus* clinical and environmental isolates under varying low temperatures.," Symposium on Research and Creative Arts, University of Houston-Clear Lake, Houston, TX. (April 2008).

Buck, G. W. (Author & Presenter), Fernandez, J. D. (Author), Wisner, L. M. (Author), Pezold, F. L. (Author), "The Louis Stokes Alliance for Minority Participation: A mechanism for institutionalizing undergraduate research and strengthening minority participation in science.," Diversity in the Sciences Symposium IV, Howard Hughes Medical Institute, Chevy Chase, MD. (January 28, 2008).

Buck, G. W. (Author & Presenter), "Genetic analysis of south Texas *Vibrio vulnificus* isolates: effect of," Departmental Seminar, El Paso Community College--Transmountain Campus, El Paso, TX. (March 1, 2007).

Alcantara, D., Chopin, S. R., Eddy, K., Mancha, D., Buck, G. W., "Antibacterial efficacy of indigenous medicinal plants of northern Mexico," 5th Undergraduate Research Symposium, Texas A&M University-Corpus Christi, Corpus Christi, Texas. (2005).

Alcantara, D., Romero, C., Chopin, S. R., Buck, G. W., Hernandez, D., "Antibacterial efficacy of indigenous medicinal plants of northern Mexico," CUR Posters on the Hill, Washington, D.C. (2005).

Alcantara, D., Romero, C., Chopin, S. R., Buck, G. W., Hernandez, D., "Antibacterial efficacy of indigenous medicinal plants of northern Mexico," 2nd Annual Texas A&M System Pathways Research Symposium, Corpus Christi, Texas. (2004).

Alcantara, D., Romero, C., Chopin, S. R., Buck, G. W., Hernandez, D., "Antibacterial efficacy of indigenous medicinal plants of northern Mexico," 4th Undergraduate Research Symposium, Texas A&M University-Corpus Christi, Corpus Christi, Texas. (2004).

Buck, G. W., "Control of the DNA repair gene, *nfi*, in enteric bacteria," Research Seminar, Austin College, Sherman, TX. (March 31, 2004).

Buck, G. W. (Author & Presenter), "Control of the DNA repair gene, *nfi*, in enteric bacteria," Biomedical Seminar, Texas A&M Univ- Corpus Christi, Corpus Christi, TX. (February 18, 2004).

Buck, G. W. (Author & Presenter), "The time machine: teaching your students how you wished you had been taught," American Association of Anatomists, Federation of Societies in Experimental Biology and Medicine (FASEB), San Diego, CA. (March 2003).

Buck, G. W. (Author & Presenter), "Possible variations upon a regulatory theme: control of the DNA repair enzyme, *nfi*, in enteric bacteria," Research Seminar, University of Texas Medical Branch, Galveston, TX. (March 28, 2003).

Buck, G. W. (Author & Presenter), "Identification of the global regulatory mechanisms controlling the *nfi* gene in *E. coli*," Research Seminar, Morehouse College, Atlanta, GA. (March 19, 2002).

Buck, G. W. (Author & Presenter), "Identification of genes involved in regulation of the DNA repair enzyme Endonuclease V in *E. coli*," ResearchSeminar, Florida Gulf Coast University, Ft. Myers, FL. (February 15, 2001).

Buck, G. W. (Author & Presenter), "Characterization of genes involved in regulation of the DNA repair enzyme Endonuclease V in *E. coli*," Research Seminar, University of the Pacific, Stockton, CA. (January 25, 2001).

Buck, G. W. (Author & Presenter), Guo, Z. (Author), Houghton, J. E. (Author), "A Physiological and Regulatory Analysis of Beta-Ketoadipate Transport Mutants in *Pseudomonas putida*," 98th General Meeting, American Society for Microbiology, Atlanta, GA. (May 1998).

Buck, G. W. (Author & Presenter), Houghton, J. E., "Cloning and Sequencing of a Dicarboxylic Acid Transport Protein from *Pseudomonas putida*," 96th General Meeting, American Society for Microbiology, New Orleans, LA. (May 1996).

Spitznagel, J. K. (Author & Presenter), Buck, G. W. (Author & Presenter), Farley, M. M. (Author & Presenter), "Genetic Basis for Cross-Resistance between Polymixin B and neutrophil 57kD

cationic protein in *Salmonella typhimurium*," 87th General Meeting, American Society for Microbiology, Atlanta, GA. (March 1987).

Davis, E. J. (Author & Presenter), Buck, G. W. (Author), Henry, J. M. (Author & Presenter), "Localization of conjugally-transferred and transferring replicating plasmid DNA in *E. coli* K-12 cells," 9th Annual Minority Biomedical Support Symposium,, MBRS, Albuquerque, NM. (April 1981).

Contracts, Grants and Sponsored Research

Contract

Buck, Gregory W. (Co-Principal), Mott, Joanna Bridget (Principal), "Microbiology Analysis—special projects," \$7,956.13. (January 2011 - January 2012).

Buck, Gregory W. (Co-Principal), Chopin, Suzzette Rita (Principal), Moury, David (Co-Principal), "Undergraduate Research, Outreach," Sponsored by American Association of Anatomists, Private, \$3,000.00. (May 2003 - May 2004).

Grant

Chopin, Suzzette Rita (Principal), Billiot, Eugene J (Co-Principal), Brouillard, Pamela J. (Co-Principal), Buck, Gregory W. (Co-Principal), Mehrubeoglu, Ruby (Co-Principal), Meyer, Pamela (Co-Principal), Olson, Mark Anthony (Co-Principal), leibowitz, julian (Co-Principal), jones, harlan (Co-Principal), jones, lovell (Co-Principal), niesel, david (Co-Principal), Jorgensen, Daniel J (Supporting), "Integrated Partnership for Education, Training and Mentoring to the Doctorate," Sponsored by NIH, Federal, \$218,687.00. (September 25, 2013 - March 31, 2014).

Cammarata, Kirk (Principal), Buck, Gregory W. (Co-Principal), Larkin, Patrick D (Principal), Overath, Regina D. (Co-Principal), "DNA Sequencers for Education: Beckman Genomics Education/Research Matching Funds Program," Sponsored by Beckman-Coulter Inc, Private, \$49,450.00. (2005 - 2008).

Buck, Gregory W., "MARC Grant Seminar," Sponsored by FASEB/MARC, Other, \$440.00. (August 2007).

Buck, Gregory W., "Travel Award," Sponsored by American Society for Microbiology, Private, \$1,500.00. (May 27, 2007 - May 31, 2007).

Cammarata, Kirk (Principal), Buck, Gregory W. (Co-Principal), Larkin, Patrick D (Co-Principal), Waldbeser, Lillian S (Co-Principal), Lehman, Roy Lee (Co-Principal), "Acquisition of a Digital Imaging System to Support Research and Research Training in Applications of Molecular Biology," Sponsored by USDA, Federal, \$130,000.00. (2001 - 2006).

Buck, Gregory W. (Principal), "Travel Award," Sponsored by Endocrine Society, Private, \$800.00. (May 2006).

Buck, Gregory W., "Symposium Chair/Organizer," Sponsored by FASEB, Private, \$425.00. (April 2005).

Buck, Gregory W. (Principal), "Speaker, Sigma Xi Undergrad Research symposium," Sponsored by Sigma Xi Research Honor Society, Private, \$500.00. (October 2003).

Sponsored Research

Buck, Gregory W., "NIH Extramural Associates Research Development Award (EARDA)," Sponsored by National Institutes of Health, Federal, \$5,332.00. (September 2007 - August 2009).

Buck, Gregory W., Guardiola, Jose H. (Supporting), "Differences in rates of infection with methicillin-resistant Staph. aureus (MRSA) between diabetic Hispanic and Caucasian patients in Nueces County, Texas," Sponsored by NIH/National Center for Minority Health Disparities, Federal, \$25,000.00. (July 1, 2008 - June 30, 2009).

Buck, Gregory W., "Group study of diabetic Hispanics and Caucasians for MRSA Infections," Sponsored by Texas Research Development Funds, Texas A&M University-Corpus Christi, \$5,000.00. (July 1, 2008 - June 30, 2009).

Buck, Gregory W. (Principal), "Regulation of *pca* Regulon by PcaR and Pca[S]T in *Pseudomonas putida*," Sponsored by Georgia State University, Federal, \$63,000.00. (October 1, 1994 - September 30, 1998).

Scholarly and Creative Awards and Honors

INRO Program Nominator, NIH-NIAID. (2009).
travel Grant, FASEB/MARC. (2007).
Steps Toward Academic Research Health Disparity Fellowship, Univ. of North Texas Health Science Center. (2007).
Network of Minority Investigators Workshop Travel Grant, NIH- NIDDK. (2007).
Visiting Scientist, Univ. of Texas Medical Branch, Galveston, TX. (2005).
Minority Postdoctoral Fellowship, National Science Foundation. (1999).
Minority Predoctoral Fellowship, National institutes of Health. (1994).
Honors in Research, Morehouse College Biology. (1981).
Edward Jones Prize in French, Morehouse College. (1977).

SERVICE

Department

Committee Member, LSCI Leadership Council. (August 2016 - Present).
Committee Chair, CLS Laboratory Coordinator Search Committee. (May 2016 - Present).
Committee Member, Life Science Undergraduate Committee. (August 2011 - Present).
Committee Member, LSCI Promotion and Tenure. (September 2007 - Present).
Committee Member, Undergraduate Research Symposium Organizing Committee. (2004 - Present).
Committee Member, Life Sciences New Building Committee. (2014 - 2015).
Committee Member, Marine Molecular Biology Faculty Search. (September 2013 - February 2014).
Committee Chair, Marine Microbial Ecology Faculty Search Committee. (August 2012 - May 2013).
Committee Member, Clinical Laboratory Science Program Self-Study Committee. (2004 - 2011).
Committee Chair, Clinical Lab Science Asst. Prof. Faculty Search. (2009 - 2010).
Committee Chair, Clinical Lab Science Search Committee. (October 2009 - April 2010).
Attendee, Meeting, Anatomy and Physiology Instructor Search. (2009).
Committee Member, Clinical Lab Science Director Search. (2009).
Committee Member, Life Science (LSCI) Dept. Graduate Committee. (2006 - 2009).
Committee Member, Clinical Lab Science Director Search Committee. (February 2009 - April 2009).
Committee Chair, Microbiology Instructor Search. (2007).
Committee Member, Biology Graduate Program Review Committee. (2006 - 2007).

Committee Member, Clinical Chemist Faculty Search. (2005 - 2006).
Attendee, Meeting, Physical Chemistry Faculty Search. (2005).
Committee Member, Science Education Faculty Search. (2005).
Committee Member, Biomedical Sciences Program Development Committee. (2002 - 2003).
Committee Member, Physiology Faculty Search Committee. (2002 - 2003).
Designee, Catalog Copy Intern/Editor, Physical and Life Sciences Dept. (2002).
Committee Member, Marine Biology Search Committee. (2002).
Committee Member, Owens Medical Foundation Scholarship Committee. (2002).
Committee Chair, Radiation Usage Exploratory Committee. (2001).

College

Committee Member, Genome Core Facility Advisory Committee. (February 2013 - Present).
Committee Member, Health Professions Advising Committee (HPAC). (2009 - Present).
Faculty Advisor, Sigma Xi Student Affiliates. (2006 - Present).
Committee Member, Teaching Assistants Advisory Committee. (2008 - 2015).
Attendee, Meeting, TAMUCC Day , State Capitol. (February 2015).
Co-Organizer, Tour For Diversity Organizing Committee. (February 2013).
Co-Organizer, Teaching Seminar Organizing Committee. (March 2012).
External Judge, Judging Committee. (February 2012).
Faculty Mentor, New Student Orientation. (2002 - 2011).
Committee Member, Science and Technology Awards Committee. (2004 - 2006).

University

Committee Member, Presidential Search Advisory Committee. (January 2017 - Present).
Committee Chair, Institutional Biosafety Committee. (January 2011 - Present).
Attendee, Meeting, Bookstore Innovation Group. (August 2015 - August 2016).
Committee Member, IBC Compliance Requirements. (July 2016).
TAMUS PATHways Symposium, Judge. (October 2015).
Committee Member, Research Compliance Search Committee. (August 2015 - September 2015).
Committee Member, University Scholarship Committee. (September 2008 - September 2015).
Chairperson, University Academic Integrity Appeal Panel. (April 2014).
Chairperson, College Grade Appeal Hearing Committee. (March 2014).
Committee Chair, Momentum 20/20, Sustainability. (May 2013 - February 2014).
Committee Member, University Academic Integrity Appeal Panel. (December 2013).
Committee Chair, Coastal Bend Science Fair, Scientific Review Committee (SRC). (March 2013).
Committee Chair, University Grade Appeal Hearing Panel. (May 2012 - December 2012).
Committee Member, University Faculty Hearing & Grievance Committee. (October 2012).
Committee Member, Coastal Bend Science Fair IRB and SRC Committee. (January 2012).
Committee Member, 27th Congressional District Intern Selection Panel. (2007 - 2008).
Committee Member, Provost Search Advisory Committee. (April 2007 - August 2007).
University Senate Service, Budget Committee. (May 2006 - April 2007).
University Senate Service, Faculty Senate. (May 2004 - April 2007).
Committee Chair, Awards, Bylaws, and Elections Committee. (May 2005 - April 2006).
University Senate Service, Executive Committee. (May 2005 - April 2006).
Committee Member, Environmental, Health and Safety Committee. (May 2004 - January 2006).
University Senate Service, Faculty Affairs Subcommittee. (May 2004 - April 2005).

Professional

Committee Member, External Advisory Committee NIH PREP. (October 2016 - November 2016).
Reviewer, Grant Proposal, National Science Foundation. (October 2016).
Reviewer, Ad Hoc Reviewer, ASM Undergraduate Research Fellowship. (2012 - 2015).
Committee Member, ASM Student Membership Committee. (April 2012 - July 2015).

Reviewer, Grant Proposal, American Society for Microbiology. (February 2014 - February 2015).
Reviewer, Grant Proposal, National Science Foundation. (December 2014 - January 2015).
Committee Member, American Society for Microbiology Undergraduate Capstone Fellowship. (January 2014).
Reviewer, Grant Proposal, National Science Foundation. (December 2013 - January 2014).
Reviewer, Conference Paper, National Council for Undergraduate Research. (May 2013 - July 2013).
Reviewer, Grant Proposal, American Society for Microbiology. (February 2013 - March 2013).
Committee Member, American Society for Microbiology Undergraduate Capstone. (December 2012).
Committee Member, Sigma Xi Research Society-Committee on Qualifications and Membership. (July 2006 - June 2012).
Reviewer, Grant Proposal, American Society for Microbiology. (April 2012).
Reviewer, Grant Proposal, American Society for Microbiology. (February 2012 - March 2012).
Committee Member, American Society for Microbiology-Committee for Minority Education. (September 2007 - September 2011).
Committee Member, NSF Graduate Research Fellowship Panel. (February 2006 - February 2011).
Session Chair, American Association of Anatomists. (April 2005).
Session Chair, Texas Association for Advisors of Health Professions. (February 2005).

Consulting

For Profit Organization, McGraw-Hill Publishing Co, Dubuque, IA. (November 8, 2012 - November 10, 2012).

Public

Discussant, SOAR-STEM Program. (February 2016 - Present).
Discussant, Corpus Christi Museum of Science and Natural History. (November 2015 - Present).
Session Chair, Science Olympiad. (March 2017).
Conducted Mock Interview, Valero Coastal Bend Science Fair. (May 2016).
Discussant, TAMUCC Chemistry Club. (April 2016).
Guest Speaker, Mentoring Flour Bluff Junior High students. (October 2013 - April 2016).
Session Chair, Science Olympiad. (March 2016).
Session Chair, Science Olympiad. (March 2015).
Session Chair, Science Olympiad. (March 2014).
Session Chair, Science Olympiad. (February 2013).
Session Chair, Sigma Xi. (March 2012).
Guest Speaker, Beta Beta Beta. (February 2012).
Session Chair, Science Olympiad. (February 2012).
Session Chair, Science Olympiad. (March 2011).
Discussant, English-Speaking Union of the US. (November 2009).
Guest Speaker, Research Design class, Moody High School. (November 2009).
Guest Speaker, Beta Beta Beta. (October 2009).
Member, Ask the Experts-American Association of Anatomists. (April 2005 - April 2009).

Service Awards and Honors

Carrier of the Mace, University Spring Commencement, TAMU-CC. (2008).
Minority Faculty Travel Grant, American Society for Microbiology. (2007).
Diversity Award, Sigma Xi. (2004).