

CURRICULUM VITAE

NAME: BRIJESH S. "BILLY" GILL, M.D., F.A.C.S.

PRESENT TITLE: Associate Professor of Surgery

OFFICE ADDRESS: The University of Texas Medical School at Houston
Department of Surgery
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Houston, Texas 77030
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brijesh.s.gill@uth.tmc.edu

DATE OF BIRTH: April 3, 1972

PLACE OF BIRTH: Montgomery, Alabama

CITIZENSHIP: USA

MARITAL STATUS: Married - Michelle McNutt, M.D.

UNDERGRADUATE EDUCATION: 1989-1993 Harvard University
Cambridge, MA - S.B. (Biomedical Engineering)

GRADUATE EDUCATION: 1993-1997 The University of Alabama School of Medicine
Birmingham, AL - M.D.

POST GRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1997-2003 Residency – General Surgery
The University of Texas Medical School
Houston, TX

2003-2004 Critical Care Fellowship
The University of Texas Medical School
Houston, Texas

ACADEMIC APPOINTMENTS:

2003-2004 Clinical Instructor
Department of Surgery
Division of Trauma/Critical Care
The University of Texas Medical School at Houston
Houston, Texas

2004-2011 Assistant Professor of Surgery
Department of Surgery
Division of Trauma/Critical Care
The University of Texas Medical School at Houston
Houston, Texas

2008-present Adjoint Assistant Professor
Department of Biomedical Engineering,

The University of Texas at Austin
Austin, Texas

2011-present Associate Professor of Surgery
Department of Surgery
Division of Trauma/Critical Care
The University of Texas Medical School at Houston
Houston, Texas

HOSPITAL APPOINTMENTS:

2004-present Active Staff and Surgeon
Memorial Hermann Hospital
Houston, Texas

2004-present Active Staff & Surgeon
Lyndon Baines Johnson General Hospital
Houston, Texas

2004- 2007 Director of Trauma
Lyndon B. Johnson General Hospital
Houston, Texas

LICENSURE: Texas License - K9284 (Active)

CERTIFICATION: Advanced Cardiac Life Support
Advanced Trauma Life Support - Instructor
Extracorporeal Life Support
1995 USMLE Step 1
1996 USMLE Step 2
1998 USMLE Step 3
2005 American Board of Surgery
2007 Surgical Critical Care

PROFESSIONAL ORGANIZATIONS:

1994-2000 American Medical Association
2003-2005 Society of Critical Care Medicine
2006-present Association for Academic Surgery
2007-present American College of Surgeons
2007-present American Society for Artificial Internal Organs
2008-present University of Texas Center for Biomedical
Engineering
2009-present Houston Surgical Society
2009-present Southwestern Surgical Society
2012-present Biomedical Engineering Society

AWARDS, HONORS, AND MEMBERSHIPS IN HONORARY SOCIETIES:

1992-1993 Teaching Fellow, Department of Physics, Harvard:

Danforth Center Award for Excellence in Teaching
(x4)

1996 Tinsley Harrison Society, UASOM
2001 Top Clinical Paper-American College of Surgeons,
South, Texas Chapter
2008 ASAIO Young Innovator Fellowship

EDITORIAL POSTIONS:

American Society for Artificial Internal Organs Journal:

2008-present Military Medicine: Reviewer
2009-present Editorial Board
2010-present Journal of Biomedical Science and Engineering:
Reviewer
2010-present Tissue Engineering: Reviewer
2010-present Journal of Biosensors & Bioelectronics: Editorial
Board
2011-present Journal of Biotechnology & Biomaterials: Editorial
Board

SERVICE ON UNIVERSITY OF TEXAS-HOUSTON MEDICAL SCHOOL

AFFILIATED HOSPITAL COMMITTEES:

2003-2007 Trauma Committee - Chairman
Lyndon B. Johnson General Hospital
2005-2007 Medical Executive Committee
Harris County Hospital District
2007-present Multidisciplinary Peer Review Committee
Memorial Hermann Hospital

**SERVICE ON UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER
COMMITTEES:**

2010-present Intellectual Property Committee

MENTORSHIP OF POST-DOCTORAL FELLOWS

The University of Texas Medical School at Houston:

2004-2006 Ravi Radhakrishnan, M.D.
2006-2008 Matthew Harting, M.D.
2008-2010 Shinil Shah, M.D.
2008-2010 Peter Walker, M.D.

The University of Texas at Austin:

2010-2011 Sang-soo Je, Ph.D.

MENTORSHIP OF GRADUATE STUDENTS:

The University of Texas Medical School at Houston:

2003-2005 Carter Smith, M.D.

The University of Texas at Austin:

2004 Nate Kemp, Ph.D. (BME)
2004-2005 Ozgur Ekici, M.S. (ME)
2004-2006 Kevin Aroom, M.S. (BME)
(Thesis Committee)
2005-2007 Alex Bjelica, M.S. (ME)
(Thesis Committee)
2005-2010 Albert Espinoza, M.S.(BME)
(Thesis Committee)
2006-2009 Scott Collins, Ph.D. (BME)
(Ph.D. Committee)
2008-2010 Dongwhan Kim (ME)
(Thesis Committee)
2010-2012 Tushar Sharma (BME)
(Ph.D. Committee)

MENTORSHIP OF UNDERGRADUATE STUDENTS:

The University of Texas at Austin:

2005 Sima Yazdani (BME)
2005 David Rainosek (BME)
2005 Kunal Shah (BME)
2006 Lindsey Fogle (BME)
2006 Lindsey Villarubbia (BME)
2006-2007 Chris King (BME)
2006-2007 Sheena Black (BME)
2006-2007 Santhisri Kodali (BME)
2006-2007 Kaiwun Lee (BME)
2007 Mike Yin (BME)
2007 Huram Mok (BME)
2010 Stephen Williams (BME)

John Hopkins University:

2008 Tanmay Ghokale (BME)

Case Western Reserve University:

2008 Gregory Minwell (BME)

Rice University:

2009 Sean Paschall (BME)

Universidad de Puerto Rico:

2009 Natalia Velez Ramos (BME)

CLINICAL DUTIES:

Staff Trauma Surgeon, Memorial Hermann Hospital
Surgical Intensivist, Memorial Hermann Hospital

CURRENT GRANT SUPPORT:

1. “Portable Warming Systems”: \$40k, U.S. Special Operations Command, H92236-10-P-3134, 2010—**Principal Investigator**
2. “Active Thermal Resuscitation”: \$561k, U.S. Army Telemedicine and Advanced Technology Research Center, W81XWH-10-1-01060, 2010-2012—**Principal Investigator**

PAST GRANT SUPPORT:

1. “Portable Fluid Warming System”: \$98k, U.S. Army Telemedicine and Advanced Technology Research Center, W81XWH-04-1-0729, 2004—**Principal Investigator**
2. “Portable Fluid Warming System”: \$20k, UT Center for Biomedical Engineering/Charles W. and Judy Spence Tate Foundation, 2005—**Principal Investigator**
3. “Active Thermal Resuscitation”: \$600k, U.S. Army Telemedicine and Advanced Technology Research Center, 2005-2007—**Co- Investigator** (Principal Investigator: Charles S. Cox, Jr., M.D.)
4. “Proteomic Evaluation of Urine for Renal Failure in Trauma”: \$30k direct costs/year, **Support Faculty** in NIGMS P50 GM038529-16 “Pathogenesis of Multiple Organ Failure,” \$2.1m, Principal Investigators Frederick A. Moore, M.D. and David W. Mercer, M.D., 2004-2007.
5. "A System for Automated Field Tube Thoracostomy": \$20k, UT Center for Biomedical Engineering/Charles W. and Judy Spence Tate Foundation, 2006—**Principal Investigator**
6. “Active Thermal Resuscitation”: \$872k, U.S. Army Telemedicine and Advanced Technology Research Center, W81XWH-07-1-0496, 2007-2009—**Principal Investigator**

PUBLICATIONS

Abstracts:

1. **Gill BS**, Hardin WD: Computerized atlas of neonatal surgery. *Proceedings of the International Society for Optical Engineering*, 2435:24-27, 1995.
2. **Gill BS**, MacFadyen BV: Ultrasonic dissectors in minimally invasive surgery. *Seminars in Laparoscopic Surgery*, 6:229-234, 1999.
3. Neville HL, Seymour-Dempsey K, Slopis J, **Gill BS**, Moore BD, Lally KP, Andrassy RJ: The Role of Surgery in Children with Neurofibromatosis. *Journal of Pediatric Surgery*, 36(1):25-29, 2001.
4. Liu TH, Consorti ET, Kawashima A, Tamm EP, Kwong KL, **Gill BS**, Sellin JH, Peden EK, Mercer DW: Patient evaluation and management with selective use of magnetic resonance cholangiography and endoscopic retrograde cholangiopancreatography prior to laparoscopic cholecystectomy. *Annals of Surgery*, 234(1):33-40, 2001.
5. **Gill BS**, Neville HL, Khan AM, Cox CS, Lally KP: Delayed institution of extracorporeal membrane oxygenation is associated with increased mortality rate and prolonged hospital stay. *Journal of Pediatric Surgery*, 37(1):7-10, 2002.
6. Liu TH, Kwong KL, Tamm EP, **Gill BS**, Brown SD, Mercer DW: Acute pancreatitis in intensive care unit patients: value of clinical and radiologic prognosticators at predicting clinical course and outcome. *Critical Care Medicine*, 31(4):1026-30, 2003.
7. Radhakrishnan RS, Shah K, Xue H, Moore FA, Weisbrodt NW, Allen SJ, **Gill BS**, Cox CS, Jr. Measurement of Intestinal Edema using an Impedance Analyzer Circuit. *Journal of Surgical Research*, 138(1):106-10, 2007. Epub 2006 Dec 8.
8. Radhakrishnan RS, Shah K, Xue H, Moore FA, Weisbrodt NW, Allen SJ, **Gill BS**, Cox CS, Jr. Minimally Invasive Measurement of Intestinal Edema using an Impedance

- Analyzer Circuit. *Gastroenterology*, (4 Suppl 2):A1-911, 2006 Apr 13.
9. Cox CS, Radhakrishnan RS, Villarrubia L, Xue H, Uray K, **Gill BS**, Stewart R, Laine G. Hypertonic Saline Modulation of Intestinal Tissue Stress and Fluid Balance. *Shock*, 29(5):598-602, 2008. Epub 2008 Jan 9.
 10. Fischer UM, **Gill BS**, Fogle L, Xue H, Cox CS. Portable Arterio-venous Rewarming for Hypothermia: Cardiovascular Considerations. *ASAIO Journal*, 54(3): 278-83, 2008.
 11. Aroom KR, Cox CS, Radhakrishnan RS, Smith CT, **Gill BS**. Bioimpedance analysis: A guide to simple design and implementation. *Journal of Surgical Research*, 153(1):23-30, 2009. Epub May 7, 2008.
 12. **Gill BS**, Cox CS. Thermodynamic and Logistical Considerations for Active Thermal Resuscitation in Hypothermia. *Military Medicine*, 173(8):743-748, 2008.
 13. Harting MT, Smith CT, Radhakrishnan RS, Dash PK, **Gill BS**, Cox CS. Regional Differences in Cerebral Edema after Traumatic Brain Injury Identified by Impedance Analysis. *Journal of Surgical Research*, 159(1):557-564, 2010. Epub November 27, 2008.
 14. Walker PA, Aroom KR, Jimenez F, Shah SK, Harting MT, **Gill BS**, Cox CS. Advances in Progenitor Cell Therapy Using Scaffolding Constructs for Central Nervous System Injury. *Stem Cell Reviews and Reports*, 5(3):283-300, 2009.
 15. Walker PA, Jimenez F, Gerber M, Aroom K, Shah SK, Harting MT, **Gill BS**, Savitz S, Cox CS Jr. Effect of needle diameter and flow rate on mesenchymal stromal cell characterization and viability. *Tissue Engineering*, 16(5):989-97, 2010. Epub January 30, 2010.
 16. Shah SK, Fogle LN, Aroom KR, **Gill BS**, Moore-Olufemi SD, Jimenez F, Uray KS, Stewart RH, Laine GA, Cox CS Jr. Hydrostatic intestinal edema induced signaling pathways: potential role of mechanical forces. *Surgery*, 147(6):772-9, 2010. Epub January 25, 2010.
 17. Shah SK, Cox CS Jr, Xue H, Aroom KR, Walker PA, **Gill BS**, Jimenez F, Moore-Olufemi SD. Non-occlusive mesenteric hypertension: Elucidating the pathophysiology of gastroschisis-related intestinal dysfunction. *Journal of Surgical Research* 2011; 165(2): 180.
 18. Sang-Soo,Je, Sharma T, Lee Y, **Gill BS**, Zhang J. Fabrication and characterization of Air-Fluidic Thin-film PVDF-TrFE Pressure Sensors. Abstract published in 2011 IEEE 24th International Conference Micro Electro Mechanical Systems, pp.644-647.
 19. Sharma T, Je S, **Gill BS**, Zhang J. Patterning piezoelectric thin film PVDF-TrFE based pressure sensor for catheter application. *Sensors & Actuators A: Physical* 2012; 177: pp 87-92.
 20. Shah, SK, Cox, CS, Jr., Aroom, KR, Xue, H, Walker, PA., , **Gill, BS.**, Jimenez, F, Moore-Olufemi, SD. Non-Occlusive mesenteric hypertension on Intestinal Function: Implications for Gastroschisis-Related Intestinal Dysfunction. *Pediatric Research* (in press)

PRESENTATIONS

Invited Presentations:

1. Hardin WD, **Gill BS**, Georgeson KE: Computerized anorectal manometry and profilometry. Presented at the Annual Meeting of the American Academy of Pediatrics, Dallas, TX, October 23, 1994.
2. Killian J, Conklin M, **Gill BS**, Hardin WD: Pediatric pathologic gaits. Presented at the Annual Meeting of the American Academy of Pediatrics, Dallas, TX, October 23, 1994.
3. **Gill BS**, Georgeson KE, Hardin WD: Digital enhancement of laparoscopic video. Poster presented at SPIE/Medical Imaging 1995, San Diego, CA, February 28, 1995.
4. **Gill BS**, Georgeson KE, Halpern NB, Hardin WD: Digital video presentations of laparoscopic surgical procedures. Presented at the Annual Scientific Session of the Society of American Gastrointestinal Endoscopic Surgeons, Orlando, FL, March 13, 1995.
5. D' Antonio M, Hedlund G, Royal SA, **Gill BS**, Hardin WD: Association of diaschisis with mirror movements in children with Klippel-Feil deformity. Presented at the Annual Meeting of the Society for Pediatric Radiology, Washington, DC, April 27, 1995.
6. Hedlund G, Royal SA, **Gill BS**, Hardin WD: Computerized radiology case presentations. Interactive poster presented at the Annual Meeting of the Society for Pediatric Radiology, Washington, DC, April 27, 1995.
7. **Gill BS**, Georgeson KE, Hardin WD: Image acquisition in laparoscopic and endoscopic surgery. Poster presented at the IV International Congress for Endosurgery in Children, Orlando, FL, May 17, 1995.
8. **Gill BS**, Sozer SO, Potts JR: Surgical Management of Infected Pancreatic Necrosis. Presented at the Fall Semi-Annual Meeting of the Texas Surgical Society, Austin, TX, October 5, 1998.
9. **Gill BS**, Sozer SO, DePrang C, Hoffman KK, Potts JR. Management of Infected Pancreatic Necrosis. Poster presented at the Annual Meeting of the Southwestern Surgical Congress, Coronado, CA, April 18, 1999.
10. **Gill BS**, Neville HL, Khan AM, Cox CS, Lally KP. Delayed Institution of ECMO Increases Morbidity and Mortality in Meconium Aspiration Syndrome. Presented at the Annual Meeting of the Pacific Association of Pediatric Surgeons, Las Vegas, NV, May 17, 2000.
11. Lally KP, Neville HL, Khan AM, **Gill BS**, Cox CS. Delayed Institution of ECMO Increases Morbidity in Meconium Aspiration Syndrome. Presented at the 11th Annual Meeting of the Extracorporeal Life Support Organization, New Orleans, LA, September 17, 2000.
12. Kwong KL, Liu TH, Tamm EP, **Gill BS**, Brown SD, Mercer DW. Do Clinical and Radiographic Prognosticators Reliably Predict Outcomes for ICU Patients With Acute Pancreatitis? Poster presented at 30th International Educational and Scientific Symposium of the Society of Critical Care Medicine, San Francisco, CA, February 12, 2001.
13. **Gill BS**, Liu TH, Consorti ET, Kawashima A, Tamm EP, Kwong KL, Mercer DW. Patient Triage Prior to Laparoscopic Cholecystectomy Improves the Utilization of ERCP and Magnetic Resonance Cholangiography. Presented at the Annual Meeting of the American College of Surgeons, South Texas Chapter, San Antonio, TX, March 2, 2001. Winner, Resident Competition for Clinical Papers.
14. **Gill BS**, Liu TH, Kwong KL, Mercer DW: Do Younger Patients With Cholelithiasis Present Differently From Older Patients? Poster presented at the Annual Meeting of the Southwestern Surgical Congress, Cancun, Mexico, April 30, 2001.

15. **Gill BS.** Extreme Surgery: Ethics and Surgical Decision Making in World War II. Grand Rounds presented at the University of Texas-Houston Department of Surgery, Houston, TX, June 3, 2003.
16. **Gill BS.** Multidisciplinary Management of Severe Pelvic Fractures. Grand Rounds presented at the University of Texas-Department of Surgery, Houston, TX, August 26, 2003.
17. **Gill BS.** Ethics and Surgical Decision Making in American History. Grand Rounds Presented at the University of Texas-Houston, Department of Surgery, Houston, TX, July 25, 2004.
18. **Gill BS.** Thermodynamics of Rewarming in Hypothermia. Grand Rounds Presented at the University of Texas-Houston, Department of Surgery, Houston, TX, February 10, 2005.
19. **Gill BS.** Field Treatment of Hypothermia: What's Actually Possible? Presented at Advanced Technology Applications for Combat Casualty Care 2005, St. Petersburg Beach, FL, August 12, 2005.
20. Radhakrishnan RS, Shah K, Xue H, Moore FA, Weisbrodt NW, Allen SJ, **Gill BS**, and Cox CS, Jr. Minimally Invasive Measurement of Intestinal Edema using an Impedance Analyzer Circuit. Presented at Houston Society for Engineering in Medicine and Biology 23rd Annual Meeting, Houston, TX. Feb. 10, 2006.
22. Radhakrishnan RS, Shah K, Xue H, Moore FA, Weisbrodt NW, Allen SJ, **Gill BS**, and Cox CS, Jr. Minimally Invasive Measurement of Intestinal Edema using an Impedance Analyzer Circuit. Presented at Digestive Disease Week 2006, Los Angeles, CA, May 23, 2006.
23. Harting MT, Smith CT, Radhakrishnan RS, Dash PK, **Gill BS**, Cox CS. Regional differences in cerebral edema after traumatic brain injury identified by impedance analysis. *J Am Coll Surg* 205(3S):35, 2007. Presented at the Surgical Forum, American College of Surgeons Annual Meeting, New Orleans, LA, October 14, 2007.
24. **Gill BS**, Aroom KR, Cox CS, Jr. A Portable System for Treatment of Hypothermia on the Battlefield. Presented at the Annual Meeting of the American Society for Artificial Internal Organs, San Francisco, Ca, June 20, 2008. Winner, Lippincott Williams and Wilkins Fellowship for Young Innovators.
25. Aroom KR, Cox CS, **Gill BS**. Tesla Pump Design and Optimization for Pediatric Cardiovascular Support. Poster presented at the Annual Meeting of the American Society for Artificial Internal Organs, San Francisco, CA, June 21, 2008.
26. **Gill BS**, Aroom KR, Cox CS. A Portable System for Management of Hypothermia. Presented at Advanced Technology Applications for Combat Casualty Care 2008, St. Petersburg Beach, FL, August 13, 2008.
27. **Gill BS.** Motor Vehicle Crash Dynamics. Grand Rounds presented at the University of Texas – Houston, Department of Surgery, Houston, TX, February 12, 2009.
28. **Gill BS**, Dubinsky W, McGuire M, Finkel K, Podoll A, Jastrow K, Jimenez F, Gonzalez EA, Holcomb JB. Early Serum and Urine Biomarkers Predict Acute Kidney Injury in Selected Patients After Major Trauma. Poster presented at the 32nd Annual Meeting of the Shock Society, San Antonio, TX, June 8, 2009.
29. **Gill BS.** Motor Vehicle Crash Dynamics. Presented at the Annual Meeting of the Southeastern Texas Trauma Regional Area Council, Humble, TX, August 6, 2009.
30. Shah SK, Fogle LN, Aroom KR, **Gill BS**, Uray KS, Laine GA, Stewart RH, Cox CS. Mechanotransduction as a Mechanistic Explanation for Edema-induced Intestinal Dysfunction. *Journal of the American College of Surgeons*, 209(3), page S43. Presented

- at the Surgical Forum, American College of Surgeons Annual Meeting, Chicago, IL, October 13, 2009.
31. Adams SD, Cotton BA, Dipasupil E, Podbielski JM, Zaharia A, McGuire MF, Jastrow K, Ware DN, **Gill BS**, Albarado R, Kozar RA, Gonzalez EA, Duke JH, Adams PR, Dyer CB, Holcomb JB. The Unique Pattern of Complications in Elderly Trauma Patients at a Level I Trauma Center. Presented at the 40th Annual Meeting of the Western Trauma Association, Telluride, CO, March 3, 2010.
 33. Aroom K, Cox CS, **Gill BS**. "Brain based electrospun tissue scaffolds: a parametric study." The 56th Annual Meeting of the American Society for Artificial Internal Organs, Baltimore, MD, May 27, 2010.
 34. Sang-Soo,Je, Sharma T, Lee Y, **Gill BS**, Zhang J. Fabrication and characterization of Air-Fluidic Thin-film PVDF-TrFE Pressure Sensors. Abstract published in 2011 IEEE 24th International Conference Micro Electro Mechanical Systems, pp.644-647.
 35. **Gill BS**, Dubinsky W, Golunski E, Conyers J, Holcomb JB. Plasma Protein Concentrations Change During Storage After Thawing of Fresh Frozen Plasma. Poster presented at the 33nd Annual Meeting of the Shock Society, Portland, OR, June 14, 2010.
 36. Je SS, Sharma T, Lee Y, **Gill BS**, Zhang J. A Thin Film Piezoelectric PvdF-Trfe Based Implantable Pressure Sensor Using Lithographic Patterning. The 24th IEEE Conference On Micro Electro Mechanical Systems (MEMS) 2011, Cancun, Mexico, January 25, 2011.
 37. Sharma T, Je S, **Gill BS**, Zhang J. Patterning piezoelectric thin film PVDF–TrFE based pressure sensor for catheter application. Presented at the 24th IEEE International Conference on Micro Electro Mechanical Systems, Cancun, Mexico, January 2011.
 38. Shah SK, Cox CS Jr, Xue H, Aroom KR, Walker PA, **Gill BS**, Jimenez F, Moore-Olufemi SD. Non-occlusive mesenteric hypertension: Elucidating the pathophysiology of gastroschisis-related intestinal dysfunction. The 6th Annual Academic Surgical Congress, Huntington Beach, CA. February 1-3, 2011.
 39. Holcomb JB, Minei KM, Scerbo ML, Wade CE, Kozar RA, **Gill BS**, Albarado R, McNutt MK, McCarthy JJ, Cotton BA. Admission Rapid Thrombelastography (r~TEG) Can Replace Conventional Coagulation Test in the Emergency Department: Experience with 1974 Consecutive Trauma Patients” AAS Annual Meeting, San Francisco, CA April 26-28, 2012.

PATENTS:

1. United States Patent # 7,261,557: “Portable Fluid Warming System”
 Inventors: **Gill, Brijesh**; Cox, Charles
 Filed: July 7, 2004
 Published: January 12, 2006
 Issued: August 28, 2007
 Assignee: The Board of Regents of the University of Texas System
 Licensee: EMIT Corporation, Clear Lake, TX
2. Additional citations for this technology:
 10/886,191;
 11/832,415;
 PCT/US05/47209 (International);
 PCT/US08/70812 (International).
3. United States Patent Application 61/074,053: “Centrifugal pump”
 Inventors: **Gill, Brijesh**; Cox, Charles; Aroom, Kevin.

Filed: June 20, 2008.

Status: pending.

4. United States Patent Application 61/236,442: “Automated Needle Insertion System”

Inventors: **Gill, Brijesh**; Longoria, Raul; Aroom, Kevin; Espinoza, Albert; Bjelica, Alex; Cox, Charles.

Filed: August 19, 2009.

Status: Pending.

CORPORATE:

1. EMIT Corporation, Clear Lake, TX. Scientific Advisory Board. March 2009-present.