

## CURRICULUM VITAE

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Nashville, TN 37215  
Spouse: Kimberley M. Chung  
Children: Kaley & Camryn

### **EDUCATION:**

#### Undergraduate

1980 – 1984 University of Texas, Austin, Texas; B.A.

#### Graduate

1984 – 1988 University of Texas Medical Branch, Galveston, Texas; M.D.

2017 – 2019 Brandeis University, Boston, MA; MBA  
(anticipated graduation May 2019)

#### Postgraduate Training

1988 – 1989 Internship in Surgery, University of Texas Medical Branch, Galveston, TX  
1989 – 1994 Residency in Surgery, University of Texas Medical Branch, Galveston, TX  
1990 – 1992 NIH Research Fellowship (T32), Shriners Burns Hospital, Galveston, TX  
1994 – 1996 Fellowship in Pediatric Surgery, Children's Hospital Medical Center,  
University of Cincinnati, OH  
1998 – 1999 NIH Research Fellowship (T32), University of Texas Medical Branch,  
Galveston, TX

### **MEDICAL LICENSURES:**

1994 Pennsylvania (# MD-052594-L; Inactive)  
1994 Ohio (# 66904; Inactive)  
1996 Alabama (#19867; Inactive)  
1998 Texas (# K7516)  
2009 Tennessee (#45297)

### **BOARD CERTIFICATIONS:**

1996 – American Board of Surgery (#41873)  
1998 – American Board of Surgery, Certification in Pediatric Surgery (#707)

**ACADEMIC APPOINTMENTS:**

1996 – 1998 Assistant Professor of Surgery  
University of Alabama at Birmingham

1996 – 1998 Staff Pediatric Surgeon  
Children’s Hospital of Alabama at Birmingham

1996 – 1998 Medical Director-Pediatric Burn Intensive Care Unit  
Children’s Hospital of Alabama at Birmingham

1998 – 2003 Assistant Professor of Surgery and Pediatrics  
University of Texas Medical Branch, Galveston, TX

1998 – 2007 Co-Director, Extracorporeal Membrane Oxygenation Program  
University of Texas Medical Branch, Galveston, TX

1998 – 2009 Chief, Section of Pediatric Surgery  
University of Texas Medical Branch, Galveston, TX

1999 – 2009 Scientific and Medical Consultant Staff  
Shriners Burns Hospital-Galveston, TX

2003 – 2008 Associate Professor of Surgery and Pediatrics (tenured)  
University of Texas Medical Branch, Galveston, TX

2005 – 2009 Associate Faculty, Department of Biochemistry and Molecular Biology  
University of Texas Medical Branch Graduate School of  
Biomedical Sciences, Galveston, TX

2004 – 2009 Faculty Member, Texas Gulf Coast Digestive Diseases Center

2005 – 2009 Scientist, Sealy Center for Cancer Cell Biology  
University of Texas Medical Branch, Galveston, TX

2007 – 2008 Chela & Jimmy Storm Distinguished Professorship  
University of Texas Medical Branch, Galveston, TX

2008 – 2009 Professor, Departments of Surgery and Pediatrics  
University of Texas Medical Branch, Galveston, TX

2008 – 2009 James C. Thompson, MD Distinguished Chair in Surgery  
University of Texas Medical Branch, Galveston, TX

2009 – Professor (tenured), Department of Pediatric Surgery  
Vanderbilt University Medical Center, Nashville, TN

2009 – 2011 Vice-Chair, Department of Pediatric Surgery  
Vanderbilt University Medical Center, Nashville, TN

2009 – Professor, Departments of Cancer Biology and Pediatrics  
Vanderbilt University Medical Center, Nashville, TN

2009 – Director, Center of Excellence in Neuroblastoma Research  
Vanderbilt University Medical Center, Nashville, TN

2010 – Member, Vanderbilt-Ingram Cancer Center  
Signal Transduction Research Program  
Vanderbilt University Medical Center, Nashville, TN

2010 – 2017 Janie Robinson & John Moore Lee Endowed Chair  
Vanderbilt University Medical Center, Nashville, TN

2011 – Chair, Department of Pediatric Surgery  
Vanderbilt University Medical Center, Nashville, TN

2011 – Program Director, Pediatric Surgery Residency  
Vanderbilt University Medical Center, Nashville, TN

2013 – Director, Pediatric Trauma Program  
Vanderbilt Children’s Hospital, Nashville, TN

2017 – Carolyn Perot Rathjen Endowed Chair  
Vanderbilt University Medical Center, Nashville, TN

**EMPLOYMENT:**

1996 – 1998 Faculty Surgeon, University of Alabama at Birmingham, AL

1996 – 1998 Faculty Pediatric Surgeon, Children’s Hospital of Alabama at Birmingham, AL

1998 – 2009 Faculty Surgeon, University of Texas Medical Branch, Galveston, TX  
2009 – Faculty Surgeon, Vanderbilt University Medical Center and  
Vanderbilt Children's Hospital, Nashville, TN

### **POSTGRADUATE CAREER DEVELOPMENT**

2011 Robotic Surgery Certification, Intuitive Training Facility, Cleveland, OH  
2011 – 2012 Academic Leadership Program, Vanderbilt University Medical Center,  
Nashville, TN  
2012 Executive and Continuing Professional Education  
Program for Chiefs of Clinical Services  
Harvard School of Public Health, Boston, MA  
2013 Robotic Single Site Surgery Certification, Intuitive Training Facility, Orlando, FL

### **PROFESSIONAL ORGANIZATIONS (\*elected):**

1992 – Association of American Medical Colleges  
1996 – American Burn Association  
1996 – Singleton Surgical Society  
1998 – Society of American Gastrointestinal Endoscopic Surgeons  
1998 Pediatric Surgery Biology Club  
1999 – American College of Surgeons, Fellow\*  
1999 – 2009 American College of Surgeons, South Texas Chapter  
1999 – Association for Academic Surgery\*  
2000 – Society of University Surgeons\*  
2000 – American Academy of Pediatrics, Section of Surgery, Fellow\*  
2000 – Texas Pediatric Society  
2000 – American Pediatric Surgical Association\*  
2000 – Children's Oncology Group  
2000 – American Gastroenterological Association  
2001 – American Association for Cancer Research  
2002 – Surgery Biology Club\*  
2003 – Southern Surgical Association\*  
2007 – Texas Surgical Society\*  
2008 – American Surgical Association\*  
2010 – American College of Surgeons, Tennessee Chapter  
2011 – Assoc. of Pediatric Surgery Training Program Directors  
2011 – American Society for Cell Biology  
2011 – Society of Clinical Surgery (honorary)\*  
2011 – The Halsted Society\*  
2014 – Pediatric Trauma Society  
2015 – International Society of Paediatric Surgical Oncology\*  
2017 – H. William Scott Jr., Surgical Society\*

### **AWARDS:**

1983 Alpha Epsilon Delta Premedical Honor Society, University of Texas at Austin  
1984 University of Texas at Austin, *cum laude*  
1991 Resident's Prize at the Society for Surgery of the Alimentary Tract  
1992 Alpha Omega Alpha Medical Honor Society  
1992 Resident's Prize at the Singleton Surgical Society  
1992 – 1994 Association of American Medical Colleges, Resident Representative  
2000 Outstanding Teacher, Department of Surgery, UTMB  
2001 Outstanding Teacher, Department of Surgery, UTMB  
2004 Outstanding Teacher, Department of Surgery, UTMB  
2004 Shipley Award, Southern Surgical Association

2006 – 2010 Texas Super Doctors-Pediatric Surgery  
2008 America's Top Surgeons  
2008 – 2012 NIH Bioengineering, Technology and Surgical Sciences Study Section  
2009 Werner Creutzfeldt Lectureship, Inter. Regulatory Peptide Society  
2009 President-Elect, Society of University Surgeons  
2009 Society of University Surgeons Travel Award to  
Surgical Research Society of South Africa, Johannesburg  
2010 President, Society of University Surgeons  
2011 – 2017 Best Doctor in Middle Tennessee  
2011 – 2018 Best Doctor in America  
2011 – 2017 Top Doctors in Nashville  
2011 SUS Travel Award to European Society of Surgical Research, Geneva  
2011 SUS Travel Award to Society of Academic & Research Surgery, Dublin  
2012 SUS Travel Award to Japan Surgical Society, Tokyo  
2013 – 2018 President, Society of University Surgeons Foundation  
2013 – 2019 Director, The American Board of Surgery, Pediatric Surgery Board  
2013 – 2019 Director, The American Board of Surgery  
2015 Society of University Surgeons Representative to  
Surgical Research Society of South Africa, Bloemfontein  
2016 Society of University Surgeons Representative to  
Surgical Research Society of South Africa, Cape Town  
2017 Society of University Surgeons Travel Award to  
Surgical Research Society of South Africa, Johannesburg

### **PROFESSIONAL ACTIVITIES:**

#### Vanderbilt University Medical Center

2009 – 2010 Search Committee for Vanderbilt Transplant Center Director  
2010 – 2011 Search Committee for Director, Pediatric Intensive Care Unit  
2010 – Perioperative Services Committee, VCH  
2010 – Nomination Committee for Monroe Carell Jr. Endowed Chair  
2010 – MCJCHV 7<sup>th</sup> & 8<sup>th</sup> Floor User Group Committee, Vanderbilt Children's Hospital  
2010 – General Surgery Residents Mentoring Committee  
2011 – Medical Director, Surgical Ward, Vanderbilt Children's Hospital  
2011 – Performance Management & Improvement, Surgical Services, VCH  
2011 – Director, Pediatric Surgery Clerkship for Vanderbilt Medical Students  
2012 – Performance Management & Improvement, Vascular Access, VCH  
2009 – 2013 Dissertation Committee for Ph.D. candidate, Cancer Biology (S. Lee)  
2009 – 2013 Dissertation Committee for Ph.D. candidate, Cancer Biology (P. Paul)  
2013 – Injury Prevention Steering Committee, Vanderbilt Children's Hospital  
2013 – Leader, Pediatric Trauma Liaison Group, Vanderbilt Children's Hospital  
2014 – Special Advisory Committee, Section of Surgical Sciences  
2014 – Edge Reviews for Scholars (Internal Study Section Grant Reviews)  
2014 – 2015 Dissertation Committee for M.D./Ph.D. candidate (A. Mrazek; UTMB)  
2015 – Emergency Operations Committee  
2015 – 2016 Procedure Pipeline Initiative Operations Committee  
2016 Chair, Nomination Committee for Cornelius Vanderbilt Endowed Chair in  
Clinical Pharmacology  
2016 Chair, Search Committee for Division Chief, General Surgery  
2016 – 2017 Search Committee for Vanderbilt Chair of Department of Plastic Surgery  
2017 – Perioperative Executive Committee, Vanderbilt Children's Hospital  
2017 Chair, Nomination Committee for Jeffrey W. Mast Endowed Chair in  
Orthopaedics Trauma and Hip Surgery

### University of Texas Medical Branch

1998 – 2001	Chairman's Education Task Force Committee
1998 – 2001	General Surgery Billing Committee
1998 – 2006	Medical Student Clerkship Education Committee
1998 – 2009	General Surgery Residency Evaluation Committee
1999	Day Surgery Unit Processing Task Force Committee
1999	Supervisory Committee for Master of Medical Science (Papaconstantinou)
2000	House Committee for GI Task Force
2001	Basic Science Integrating Group Task Force
2002	Dissertation Committee for M.D./Ph.D. candidate (R. Ethridge)
2002 – 2009	Singleton Award Committee
2003 – 2005	General Surgery Residents Call Scheduler
2003 – 2009	General Surgery Residents Duty Hour Monitor
2001 – 2005	Gross Anatomy and Radiology Course Committee, School of Medicine
2005	Graduate Medical Education Committee-General Surgery
2006	Residency Internal Review Subcommittee-Critical Care/Pulmonary
2006 – 2008	Chair, Ph.D. Dissertation Committee for Titilope Ishola
2006 – 2009	John Sealy Operations Committee
2007	Supervisory Committee for Master of Medical Science (N Baregamian.)
2007	Senior Medical Student Honor Thesis Ad-Hoc Committees (C.H.K.; J.C.)
2007 – 2008	Medical Student Honor Thesis Ad-Hoc Committee (L. Gillory)
2007 – 2009	Jean B. Kempner Fellowship Committee
2007 – 2009	Mentoring Committee, Sealy Center for Cancer Cell Biology
2007 – 2009	M.D./Ph.D. Advisory Committee
2009	Chair, School of Medicine Fellowship Committee
2007 – 2011	Dissertation Committee for M.D./Ph.D. candidate (P.G.)

### National Organizations

1999 – 2001	Education Committee, Association for Academic Surgery
2000 – 2001	Committee on Pediatric Emergency Medicine, Texas Pediatric Society
2000 – 2001	Committee on Injury and Poison Prevention, Texas Pediatric Society
2000	Advisory Board for Fibrin Sealant, American Red Cross
2001 – 2002	Education Committee, Society of University Surgeons
2002 – 2005	Chair, Education Committee, Society of University Surgeons
2002 – 2005	Publication Committee, American Pediatric Surgical Association
2002 – 2005	Publication Committee, American Academy of Pediatrics, Surgical Section
2004 – 2006	Councilor, Association for Academic Surgery
2005 – 2008	Councilor, Society of University Surgeons
2005 – 2008	Chair, Finance Committee, Academic Surgical Congress
2007 – 2009	Vice Chair, Publications Committee, Am Pediatric Surgical Assoc.
2008 – 2009	Member, Southern Texas District #1 Committee on Applicants, FACS
2009 – 2011	Chair, Publications Committee, Am Pediatric Surgical Assoc.
2006 –	Chair, Data & Safety Monitoring Board, NIDDK, NIH Teens-Longitudinal Adolescent Bariatric Surgery Project
2009 – 2014	Nominating Committee, Society of University Surgeons
2009 – 2010	Education Committee, Society of University Surgeons
2009 – 2014	Scholarship Committee, Society of University Surgeons
2009 – 2010	President-Elect, Society of University Surgeons
2010 – 2014	Publications Committee, Society of University Surgeons
2010 – 2011	President, Society of University Surgeons
2011 – 2014	Membership Committee, Society of University Surgeons
2013 – 2015	Program Committee, Southern Surgical Association, At-Large member
2013 –	President, Society of University Surgeons Foundation
2016	Chair, Audit committee, Southern Surgical Association

National Scientific Sessions Organized/Chaired

6/6/98	The Sixth World Congress of Endoscopic Surgery, Rome, Italy Chair, Laparoscopic Paediatric Surgery, Session 48
11/3/00	Association for Academic Surgery, 34 <sup>th</sup> Annual Meeting, Tampa, FL Moderator: Pediatrics Session
2/14/02	Society of University Surgeons 63 <sup>rd</sup> Annual Meeting, Honolulu, HI Moderator: Gastrointestinal Session
2/14/03	Society of University Surgeons 64 <sup>th</sup> Annual Meeting, Houston, TX Education Panel: "Surgical Curriculum Reform"
2/13/04	Society of University Surgeons 65 <sup>th</sup> Annual Meeting, St. Louis, MO Education Panel: "How do teachers of surgery learn to teach?"
2/13/05	Society of University Surgeons 66 <sup>th</sup> Annual Meeting, Nashville, TN Chair, Education Panel Discussion
10/19/05	American College of Surgeons 91 <sup>st</sup> Annual Congress, San Francisco, CA Chair, Surgical Forum, Alimentary Tract II: Small Bowel and Colon
2/10/06	Academic Surgical Congress, 67 <sup>th</sup> Annual SUS Meeting, San Diego, CA Chair, Pediatrics II Session-Differentiation and Development
2/9/07	Academic Surgical Congress, 68 <sup>th</sup> Annual SUS Meeting, Phoenix, AZ Moderator, Clinical Trials/Outcomes V Poster Session
6/08/10	European Society for Surgical Research, 45 <sup>th</sup> Congress, Geneva, Switzerland Co-Chair, Plenary Session; Judge, Walter Brendel Award
10/25/13	Am. Academy of Pediatrics, Section on Surgery, 34 <sup>th</sup> Annual Pediatric Surgery Residents' Conference, Orlando, FL, October 25, 1013.

**OTHER PROFESSIONAL ACTIVITIES:**

Am. Board of Surgery:

2/25/02 – 2/27/02	Associate Examiner for Certifying Exam, Houston, Texas
2/14/05 – 2/16/05	Associate Examiner for Certifying Exam, Houston, Texas
3/23/09 – 3/25/09	Associate Examiner for Certifying Exam, Houston, Texas
2011 – 2013	Consultant, Pediatric Surgery In-Training Examination
2013 – 2019	Director, The American Board of Surgery
2013 – 2019	Director, Pediatric Surgery Component Board
2013 – 2019	Member, Maintenance of Certification Examination Committee
2013 – 2019	Member, General Surgery Residency Committee
2017 – 2019	Chair, Maintenance of Certification Examination Committee
2017 –	Member, SPRINT team, revising MOC Examination

Journal Reviewer (ad-hoc):

*Oncogene; J Biol Chem; J Immunol; J Cellular Biochem; Carcinogenesis; Cancer Res; Clin Cancer Res; Biochim Biophys Acta; Int J Cancer; Cancer Lett; Am J Physiol; Crit Care Med; Ann Surg; Surgery; Neuroscience Lett; Pediatr Res; PLoS ONE*

Editorial Board:

2013 –	<i>Current Surgery Reports</i>
2013 –	<i>Am Journal of Robotic Surgery</i>
2014 –	<i>Cancer Research Frontiers</i>
2014 –	<i>Children</i>
2017 –	<i>Children, Associate Editor for Pediatric Surgery Section</i>
2017 –	<i>JAMA Surgery</i>

Editorial Activity:

2010 Atlas of Pediatric Surgical Techniques, Editor, Elsevier, Philadelphia, PA  
2010 – 2012 *J Pediatr Surg*, Society Editor for Am. Pediatric Surgical Assoc. Jan 2011 Issue  
2010 – 2012 *J Pediatr Surg*, Society Editor for Am. Pediatric Surgical Assoc. Jan 2012 Issue

Grant Reviews

1999 Roy J. Carver Charitable Trust-Research Grant  
2000 National Student Research Forum-UTMB  
2004 Action Medical Research-Project Grant, West Sussex  
2006 John Sealy Memorial Endowment Fund for Biomedical Research-UTMB  
2006 Am. Cancer Society-Institutional Research Grant-UTMB  
2005 – 2009 Sealy Center for Cancer Cell Biology-Predoctoral Fellowship  
2007 – 2009 Kempner Fellowship Award Committee-UTMB  
2008 NIH-NIDDK-C Subcommittee Study Section, Ad-hoc Member  
2006 – 2008 Ad-hoc, NIH-Bioengineering, Technology and Surgical Sciences Study Section,  
2008 – 2012 Member, NIH-Bioengineering, Technology and Surgical Sciences Study Section  
6/14/09 NIH Special Emphasis Panel Study Section, Panel member  
9/22-24/10 Department of Defense, Chair, PRMRP Neuroblastoma Panel, AIBS  
Reston, VA  
3/28/11 NIH ZHD1-DR-K (10), Special Emphasis Panel member  
Rockville, MD  
10/19/12 NIH ZRG1 SBIB-V 82S, Special Emphasis Panel member  
2012 – Turner Hazinski Research Award, Vanderbilt Children’s Hospital  
2/26/13 NIH ZRG1 SBIB-V 82S, Special Emphasis Panel member  
3/5/14 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
6/16-17/14 NIH ZCA1 RPRB-J (01) P NCI Program Project Meeting II (P01), Member  
Rockville, MD  
6/26/14 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
2/25/15 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
6/9-10/15 NIH ZCA1 RPRB-J (01) P NCI Program Project Meeting III (P01), Member  
Rockville, MD  
6/18/15 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
10/21/15 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
2/18/16 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
6/16/16 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
10/19/16 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
1/31/17 NIH ZCA1 RPRB-J (01) P NCI Program Project Meeting III (P01), Member  
Rockville, MD  
2/15/17 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
Bethesda, MD  
5/31/17 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
Bethesda, MD  
10/11/17 NIH ZRG1-SBIB-V 82S, Special Emphasis Panel, Chair  
Bethesda, MD

TEACHING ACTIVITIES:

Vanderbilt University Medical Center:

2009 – 2013 Pritha Paul; Ph.D. Candidate; Cancer Biology Depart., VUMC  
“PTEN dysregulation in neuroblastoma”  
2009 – 2013 Sora Lee; Ph.D. Candidate; Cancer Biology Depart., VUMC  
“Cdc42 in neuroblastoma tumorigenesis”

2009 – 2011	Chase Taylor; Medical Student, UT Health Science Center “Role of integrin-linked kinase in neuroblastoma”
2009 – 2011	SunPhil Choi, Ph.D.; Postdoctoral Research Fellow “Glucose metabolism in cancer”
2010 – 2011	Nadja Colon, M.D.; Surgical Research Fellow “Aurora A Kinase in neuroblastoma”
2010 –	Lecturer, Medical Student Surgical Clerkship
2010 –	General Surgery Residents Mentoring Committee
2011 –	Lecturer, Department of Cell Biology Graduate Students
2010 – 2011	Erlena Josifi; Vanderbilt University Neuroscience Research Elective “Retinoic acid in neuroblastoma”
2010 – 2012	Taylor Triana; Vanderbilt University Neuroscience Research Elective “GRP-R immunofluorescent imaging in NB”; Honors
2010 – 2011	Cameron Schlegel; Vanderbilt University, School of Medicine (MS-IV) Clinical Research Scholar
2010 – 2012	Ha-Yong Song, Ph.D.: Postdoctoral Research Fellow “Histone Deacetylase in Neuroblastoma”
2011 – 2013	Natasha Volny; Vanderbilt University Neuroscience Research Elective “Angiogenesis in neuroblastoma”
2011 – 2013	Lauren Theiss; Vanderbilt University Undergraduate Student “miRNA in neuroblastoma”
2011 – 2013	Joshua Tiao; Vanderbilt University Undergraduate Student “Differentiation in neuroblastoma”
2012 – 2014	Carmelle Romain, M.D. Surgical Research Fellow “Angiogenesis in Neuroblastoma”
2013	Faculty Lecturer, Cancer Biology Retreat Vanderbilt University Medical Center
2013 –	Surgical Resident Mentorship, Vanderbilt General Surgery Residency
2013 –	Surgical Resident Award Committee, Vanderbilt General Surgery Residency
2013 –	Chief Resident Award Committee, Vanderbilt Pediatric Surgery Residency
2014 –	Alpha Epsilon Delta Premedical Honor Society Mentor Program
2014 –	Program Evaluation Committee, Vanderbilt Pediatric Surgery Residency
2014 –	Program Evaluation Committee, Vanderbilt General Surgery Residency
2014 –	Clinical Competency Committee, Vanderbilt Pediatric Surgery Residency
2015 –	Section of Surgical Sciences Education Committee (SEC)
2016	Ortho Specific Aims Olympics, Judge
2016 –	Executive Committee for Adult Clinical Research Support Core (SCORR)

Pre-doctoral Research Fellows:

2009 – 2011	Chase Taylor; Medical Student, UT Health Science Center
2009 – 2011	Erlena Josifi, Vanderbilt University
2009 – 2012	Triana Taylor, Vanderbilt University, Graduated with Honors in Neuroscience
2010 – 2013	Natasha Volny, Vanderbilt University
2010 – 2013	Lauren Theiss, Vanderbilt University
2010 – 2012	Cameron Schlegel; Vanderbilt University School of Medicine
2010 – 2012	Jamie Robinson, Vanderbilt University School of Medicine
2011 – 2013	Joshua Tiao, Vanderbilt University
2012 – 2013	Andrew Kong, Vanderbilt University
2013 – 2014	Andrew Mims, Vanderbilt University
2015	Sarah Hua, Vanderbilt University
2014 – 2016	Alexandra Alvarez, Vanderbilt University
2015 – 2016	Yu Qiao, Harbin University, China
2015 – 2016	Haley Dusek, Vanderbilt University
2017	Andrew Scott, Notre Dame University (Summer Student Research Fellowship)
2017 –	Camille Powers, Vanderbilt University



Post-doctoral Research Fellows:

2009 – 2011	SunPhil Choi, Ph.D. Postdoctoral Fellow
2010 – 2011	Nadja Colon, M.D.; Surgical Research Fellow
2010 – 2012	Yueming Zhou, Ph.D.; Postdoctoral Fellow
2010 – 2012	Ha-Yong Song, Ph.D.; Postdoctoral Research Fellow
2012 – 2013	Lan Qiao, Ph.D.; Postdoctoral Research Fellow
2012 – 2014	Carmelle Romain, M.D. Surgical Research Fellow
2013 – 2014	Sora Lee, Ph.D.; Postdoctoral Fellow
2014 – 2016	Brian Craig, M.D.; Surgical Research Fellow T32 NIH research fellowship awardee Rally Foundation for Cancer Research Fellowship (2015 – 2016)
2014 – 2017	Eric Rellinger, M.D.; Surgical Research Fellow ACS Resident Research Scholarship awardee 2014-2016 Rally Foundation for Cancer Research Fellowship (2015 – 2016)
2015 – 2017	Cameron Schlegel, M.D.; Surgical Research Fellow T32 NIH research fellowship mentoring committee
2015 –	April Weissmiller, Ph.D.; Postdoctoral fellow, Department of Cell & Developmental Biology, Vanderbilt University Medical Center

Faculty Mentees (outside Department of Pediatric Surgery):

2010 – 2014	Bret Mobley, M.D., Ph.D.; Assistant Professor, Department of Pathology
2012 –	Wes Thayer, M.D., Ph.D.; Associate Professor, Department of Plastic Surgery
2012 –	Doug Clayton, M.D.; Assistant Professor, Department of Urology, Division of Pediatric Urology
2014 –	Mayur Patel, M.D.; Assistant Professor, Department of Surgery, Division of Trauma & Critical Care
2014 –	Kamran Idrees, M.D.; Assistant Professor, Department of Surgery, Division of Surgical Oncology
2014–	Naira Baregamian, M.D.; Assistant Professor, Department of Surgery, Division of Surgical Oncology
2015 –	John Wilson, Ph.D.; Assistant Professor, Department of Chemical & Biomolecular Engineering, Vanderbilt University
2017 –	Allan Peetz, M.D.; Assistant Professor, Department of General Surgery, Division of Trauma & Critical Care

Clinical Fellows in Pediatric Surgery

2009 – 2010	Joshua Glenn, M.D. (Faculty, Medical College of Georgia)
2010 – 2011	Tom Rauth, M.D. (Staff Pediatric Surgeon, Centennial Hosp. Nashville, TN)
2010 – 2012	Colin Martin, M.D. (Faculty, Univ. of Alabama at Birmingham)
2011 – 2013	Nathan Novotny, M.D. (Faculty, Beaumont School of Medicine, Detroit, MI)
2012 – 2014	Melissa Danko, M.D. (Faculty, Vanderbilt Children's Hospital)
2013 – 2015	Brian Bucher, M.D. (Faculty, Univ. of Utah Health Care)
2014 – 2016	Dave Bhattacharya, M.D. (Faculty, UT Chattanooga)
2015 – 2017	Adam Brinkman, M.D. (Univ. of Wisconsin at Madison)
2016 – 2018	Kyle Van Arendonk, M.D., Ph.D.
2017 – 2019	Maggie Clark, M.D.
2018 – 2020	Lauren Gillory, M.D.

University of Texas Medical Branch:

1998 – 2001	Chairman's Education Task Force Committee
1998 – 2003	Co-Director, Senior Medical Student Surgery Clerkship
1998 – 2003	Facilitator, Medical Student Small Group, General Surgery Clerkship

1998 – 2006 Medical Student Clerkship Education Committee  
1999 CME Community Outreach Program  
1999 – 2000 Facilitator, Practice of Medicine Course, School of Medicine  
1998 – 2009 Resident Evaluation Committee, Department of Surgery  
2000 Judge, National Student Research Forum  
2000 Coordinator, Mock Oral Exams for General Surgery Residents  
2001 – 2009 Course Director, Pediatric Surgery Research Elective  
2003 – 2009 Director, Pediatric Surgery Sub-internship  
2004 Judge, National Student Research Forum  
2005 – 2006 Facilitator, Practice of Medicine Course, School of Medicine  
2006 Judge, 15<sup>th</sup> Annual Pediatric Resident Research Forum

Post-doctoral Research Fellows:

1999 – 2002 Sunghoon Kim, M.D.; Postdoctoral research fellow; UCSF-East Bay  
“GRP receptors in neuroblastoma”  
2003 – 2004 Hermes Oliveira, M.D.; Postdoctoral research fellow; Gastroenterologist, Brazil  
“Cyclooxygenase pathway during burn-induced gut injury”  
2005 – 2007 Kathrym Espana, M.D.; Pediatric resident research fellow; UTMB  
“Role of blood cultures in soft tissue infections in pediatric patients”  
2005 – 2008 Naira Baregamian, M.D.; Postdoctoral surgical research fellow;  
“Signal transduction pathways involved in necrotizing enterocolitis”  
Awards:  
*1<sup>st</sup> place, Singleton Surgical Society, UTMB, June 2006, 2009, 2010*  
*1<sup>st</sup> place, 14<sup>th</sup> Annual Molecular Biology Symposium, UTMB, June 2006*  
*2<sup>nd</sup> place, Singleton Surgical Society, UTMB, June 2007*  
*John P. McGovern Academy of Oslerian Medicine Travel Grant, 2009*

Pre-doctoral Research Fellows:

Graduate Students:

2005 – 2008 Titilope Ishola, M.D./Ph.D.; UTMB, 2010  
Dissertation: “Gastrin-releasing peptide activation of phosphatidylinositol  
3-kinase pathway in neuroblastoma”  
Awards:  
*NIH F31 Ruth L. Kirschstein Pre-doctoral Fellowship Award, 2007-2009*  
*Minority Scholar in Cancer Research Award, AACR, 2006*  
*ACS Institutional Research Grant Student Award, SCCC, UTMB, 2006*  
*Graduate School Basic Science Assoc. Scholarship, UTMB, 2007-08*  
*Katherina Siebert Award for Excellence in Oncologic Research, 2007-08*  
2008 – 2013 Pritha Paul; Ph.D. Candidate  
Vanderbilt University Medical Center, Department of Cancer Biology  
“Chemosensitivity of GRP-R silencing in neuroblastoma”  
2008 – 2013 Sora Lee; Ph.D. Candidate  
Vanderbilt University Medical Center, Department of Cancer Biology  
“Focal adhesion kinase in neuroblastoma tumorigenesis”

Medical Students:

2000 Courtney Chupik; MS-I;  
Pediatric Surgery Preclinical Preceptorship; UTMB  
2001 Mimi Kim; MS-IV; Donald Duncan Memorial Scholarship; UTMB  
“Anatomic basis of right hepatectomy”  
2002 Diana Wang; MS-II; Medical Student Summer Research Program; UTMB  
“Mitogenic actions of GRP in neuroblastomas”

2003 – 2004	Jay Dujon; MS-IV; Senior Medical Student Research; UTMB “IGF-1 protection against necrotizing enterocolitis”
2004	Kathryn Espana; MS-IV; Senior Medical Student Research; UTMB “Molecular mechanisms involved in the pathogenesis of NEC”
2004	Rajan Parikh; MS-II; Medical Student Summer Research Program; UTMB “Histone deacetylase inhibitors downregulate MYCN”
2006 – 2008	Joshua Mourot; MS-II: Medical Student Summer Research Program; UTMB “Anti-tumor effects of PI3-K inhibition in neuroblastoma” <i>Award: Best Science Poster</i>
2007	Nima Patel; MS-II: Medical Student Summer Research Program; UTMB “Oxidative stress increases IGF-1R expression and PI3K activation” <i>Award: Best Science Poster</i>
2007 – 2008	Lauren Gillory; MS-IV: Honors Research Program; UTMB Galveston “Silencing Gastrin-Releasing Peptide as an Adjuvant to Chemotherapy in Human Neuroblastoma Cells”; <i>Award: summa cum laude</i>
2007 – 2009	Nathaniel Ng; MS-II: Medical Student Summer Research Program; UTMB, 2007 “GRP knockdown in BE(2)-C neuroblastoma cells” Senior research elective, 2009: “GRPR silencing enhances chemosensitivity of neuroblastoma cells”
2008 – 2009	Joseph Karam; MS-IV “PI3-K pathway regulation of N-myc”
2009 – 2009	Andrew Watson; MS-IV “Retinoic acid-induced differentiation of neuroblastoma”

Undergraduate Students:

2000	Amie Street; Summer Undergraduate Research Program; Texas Christian Univ. “Role of COX-2 in the pathogenesis of NEC” <i>Award: Excellence in Basic Science</i>
2003	Jeremy Cree; Summer Undergraduate Research Program; Univ. of Puget Sound “Transcription factor ETS-1 regulation of GRP-R” <i>Award: Best Neuroscience Paper</i>
2004	Jeremy Cree; Summer Undergraduate Research Program; Univ. of Puget Sound “ETS-1 regulation of angiogenesis in neuroblastoma” <i>Award: Excellence in Basic Science</i>
2004 – 2005	Andy Lulla; Summer Undergraduate Student Research; UT at Austin “Protein kinase D during oxidative stress-induced gut injury”
2009	Alice Zhang; Summer Preceptorship “Metastatic potential in neuroblastoma”

University of Alabama at Birmingham:

1996 – 1998	Faculty, Medical Student Summer Research Program Lecturer, ECMO Training Course Mentor, Medical Student Mentor Program Mentor, Surgical Physician Assistant Student Program Coordinator, Pediatric Surgery Resident Lectures Mentor, Minority Medical Education Program
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Clinical Fellows in Pediatric Surgery

1996 – 1998	Mark Wulkan, M.D. (Surgeon-in-Chief, Children’s Hospital of Atlanta)
1997 – 1998	Chris Blewett, M.D. (Chief, Pediatric Surgery, Univ. of Mississippi)

**Pediatric Surgeons Mentored (as general surgery and/or pediatric surgery residents)**

<u>NAME</u>	<u>TRAINING PERIOD</u>	<u>CURRENT POSITION</u>
Mark Wulkan	1996 – 1998	Prof of Surgery, Emory; Children’s Hosp of Atlanta
Chris Blewett	1997 – 1998	Prof of Surgery, Univ of Mississippi
Tom Inge	1998	Prof of Surgery, Univ of Cincinnati
Sunghoon Kim	1999 – 2003	Staff pediatric surgeon, Children’s Hosp. Oakland, CA
Ambrosio Hernandez	2001 – 2003	Staff pediatric surgeon, Driscoll Children’s Hosp, TX
Robert Thomas	2002 – 2004	Staff pediatric surgeon, San Antonio, TX
Kanika Bowen	2005 – 2009	Assist Prof, UTMB, Galveston, TX
Andrew Murphy	2007 – 2014	PS fellow, Boston Children’s Hosp, MA
Jason Axt	2007 – 2014	PS fellow, Mercy Children’s Hosp, KC
Matt Landman	2009 – 2011	Assist Prof, Univ of Indiana
Julia Shelton	2009 – 2011	Assist Prof, Univ of Iowa
Joshua Glenn	2009 – 2010	Assist Prof, Medical College of Georgia
Tom Rauth	2009 – 2011	Staff pediatric surgeon, Centennial Hosp. Nashville, TN
Colin Martin	2010 – 2012	Assist Prof, Univ. of Alabama at Birmingham
Nathan Novotny	2011 – 2013	Assist Prof, Beaumont School of Medicine, Detroit, MI
Melissa Danko	2012 – 2014	Assist Prof, Vanderbilt Univ Medical Center, TN
Brian Bucher	2013 – 2015	Assist Prof, Univ of Utah Med Ctr. UT
Dave Bhattacharya	2014 – 2016	Assist Prof, UT Chattanooga, TN
Adam Brinkman	2015 – 2017	Assist Prof, Univ of Wisconsin at Madison
Carmelle Romain	2016 – 2018	PS fellow, Miami Children’s Hosp.
Kyle Van Arendonk	2016 – 2018	PS fellow, Vanderbilt Children’s Hosp.
Maggie Clark	2017 – 2019	PS fellow, Vanderbilt Children’s Hosp.
Brian Craig	2018 – 2020	PS fellow, Lurie Children’s Hospital, Chicago
Eileen Duggan	2018 – 2020	PS fellow, Montreal Children’s Hosp.
Natasha Corbitt	2018 – 2020	PS fellow, UM Ann Arbor Children’s Hosp.
Lauren Gillory	2018 – 2020	PS fellow, Vanderbilt Children’s Hosp.

**RESEARCH FUNDING:**

**Active Grant Support:**

1/2003 – 3/2019	2 R01 DK61470-12; National Institutes of Health “Role of gastrin-releasing peptide in neuroblastoma” Role: PI, 15% effort; Total direct cost \$1,633,797
7/2010 – 6/2019	T32 CA 106183-09 (PI: Goldenring); National Institutes of Health Surgical Oncology Training Grant Role: Faculty; no salary support
7/2017 – 6/2019	Rally Foundation for Cancer Research (PI: Weissmiller) “Probing MYC Recruitment to Chromatin in Pediatric Cancer” Role: Mentor

**Pending Grant Support:**

7/2018 – 6/2023	R01 National Institutes of Health “Role of ER-stress-mediated autophagy in tumorigenesis” Role: PI, 15% effort; Direct cost requested \$1,518,038
9/2018 – 10/2023	1T32CA154267-06 (Co-PI: Friedman) Conducting Research in Pediatric Hematology/Oncology Role: Co-PI, Direct cost: \$229,790

- 7/2018 – 6/2020 R21 National Institutes of Health (PI: Wilson)  
“Engineering biomaterial Depots for Inside-Out Neuroblastoma Immunotherapy”  
Role: Co-Investigator, 5% effort
- 7/2018 – 6/2019 Pediatric Cancer Research Foundation (PI: Wilson)  
“Inside-out Immunotherapy for Neuroblastoma”  
Role: Co-Investigator, 5% effort
- 7/2018 – 6/2020 AACR Neuroendocrine Tumor Research Grant (PI: Mahadevan-Jansen)  
“Novel optical imaging for intraoperative guidance of neuroblastoma excision”  
Role: Co-Investigator, 10% effort

**Past Grant Support:**

- 7/2015 – 6/2017 Rally Foundation for Cancer Research Fellowship (PI: Rellinger)  
“Role of NADPH Oxidases in Neuroblastoma Tumorigenesis”  
Role: Mentor, Direct cost: \$30,000
- 7/2015 – 6/2017 Rally Foundation for Cancer Research Fellowship (PI: Craig)  
“Reactive Oxygen Species Regulation of Neuroblastoma Stem Cells”  
Role: Mentor, Direct Cost: \$30,000
- 7/2016 – 6/2017 Bear Necessities Pediatric Cancer Foundation (PI: Rellinger)  
“Preclinical Evaluation of a Novel Class of MYCN Inhibitors in Neuroblastoma”  
Role: Mentor, Direct Cost: \$25,000
- 5/2011 – 6/2016 Rally Foundation for Cancer Research  
“Carbon nano-tube delivery of siGRPR in neuroblastoma”  
Role: PI, 10% effort; Direct cost \$135,000
- 7/2011 – 6/2016 T32 CA154267 (PI: Friedman); National Institutes of Health  
Pediatric Oncology Training Grant  
Role: Associate Program Director; 5% effort; no salary support
- 7/2009 – 3/2015 2 R01 DK61470; National Institutes of Health  
“Role of gastrin-releasing peptide in neuroblastoma”  
Role: PI, 15% effort; Total cost \$1,662,750
- 9/2009 – 8/2014 R01 HD57036-04 (PI: W. Chung, M. Arkovitz); National Institutes of Health  
Molecular genetic analysis of congenital diaphragmatic hernia  
Role: Institutional PI, 5% effort; no salary support
- 7/2003 – 12/2013 T32 DK007639 (PI: Evers); National Institutes of Health  
“Surgical Research Training in Gastrointestinal Endocrinology”  
Role: Faculty
- 9/2010 – 8/2011 Rally Foundation for Cancer Research  
“Neural crest stem cells in neuroblastoma”  
Role: PI, 5% effort; Total cost \$20,000
- 1/2003 – 6/2009 R01 DK61470-10; National Institutes of Health  
“Role of gastrin-releasing peptide in neuroblastoma”  
Role: PI, 15% effort; Total cost \$1,125,000
- 6/2005 – 8/2009 P01 DK35608; National Institutes of Health  
“Studies in Gastrointestinal Endocrinology”

- Role: Co-I on Project 1, 1.5% effort; PI: Courtney M. Townsend, Jr.
- 1/2009 – 6/2009      John Sealy Endowment Research Award, UTMB  
“GRP in Neuroblastoma”  
Role: PI; Total cost \$50,000
- 7/5/07 – 7/5/09      F31 DK079422; National Institutes of Health  
“Elucidating the mechanisms of gastrin-releasing peptide-mediated neuroblastoma growth”  
Role: Mentor; PI: Titilope Ishola
- 1/2006 – 6/2009      #8580; Shriners Burns Hospital Research Grant  
“Role of protein kinase D during oxidative stress-induced gut injury in severe burns”  
Role: PI, 20% effort; Total cost \$442,638
- 1/2004 – 12/2008      R01 DK65615; National Institutes of Health  
“Surgical Studies of Prostaglandins in Intestinal Biology”  
Role: Consultant; PI: H. Sheng
- 1/2003 – 12/2005      #8800; Shriners Burns Hospital Research Grant  
“Studies of hepatic acute phase response to severe burns”  
Role: PI, 20% effort; Total cost \$300,041
- 1/2002 – 12/2004      #8560; Shriners Burns Hospital Research Grant  
“Surgical studies on the role of cyclooxygenase/prostaglandin pathway in the pathogenesis of ischemia-reperfusion injury of the gut in severe burns”  
Role: PI, 20% effort; Total cost \$366,465
- 9/2001 – 8/2002      #2002-01; American Cancer Society Institutional Research Grant  
“Role of gastrin-releasing peptide in neuroblastomas”  
Role: PI, 20% effort; Total cost \$15,000
- 6/2000 – 12/2001      #8250; Shriners Burns Hospital Research Grant  
“Role of cyclooxygenase/prostaglandin pathway in the pathogenesis of ischemia-reperfusion injury of the gut in severe burns”  
Role: PI, 20% effort; Total cost \$32,500

## **PUBLICATIONS:**

### **A. Articles:**

1. Poston GJ, Saydjari R, Lawrence JP, **Chung DH**, Townsend CM Jr., Thompson JC. Aging and the trophic effect of cholecystokinin, bombesin, and pentagastrin on the rat pancreas. *Pancreas*. 1991 Jul;6(4):407-411. PMID: 1715085
2. **Chung DH**, Evers BM, Shimoda I, Townsend CM Jr., Thompson JC. Differential trophic effects of neurotensin on small bowel mucosa. *Surg Forum*. 1992;42:128-130.
3. **Chung DH**, Evers BM, Townsend CM Jr., Herndon DN, Thompson JC. Endotoxin-mediated regulation of gut ornithine decarboxylase enzyme activity. *Surg Forum*. 1992;43:149-151.
4. Evers BM, **Chung DH**, Townsend CM Jr., Thompson JC. Molecular mechanisms of intestinal adaptation after resection. *Surg Forum*. 1992;42:130-132.

5. **Chung DH**, Evers BM, Townsend CM Jr., Huang KF, Shimoda I, Herndon DN, Thompson JC. Burn-induced transcriptional regulation of small intestinal ornithine decarboxylase. *Am J Surg*. 1992 Jan;163(1):157-162. PMID: 1733364
6. Evers BM, Izukara, M., **Chung DH**, Parekh D, Yoshinaga K, Greeley GH Jr., Uchida T, Townsend CM Jr., Thompson JC. Neurotensin stimulates growth of colonic mucosa in young and aged rats. *Gastroenterology*. 1992 Jul;103(1):86-91. PMID: 1612361
7. **Chung DH**, Evers BM, Townsend CM Jr., Herndon DN, Ko TC, Uchida T, Thompson JC. Cytokine regulation of gut ornithine decarboxylase gene expression and enzyme activity. *Surgery*. 1992 Aug;112(2):364-369. PMID: 1641775
8. **Chung DH**, Evers BM, Shimoda I, Townsend CM Jr., Rajaraman S, Thompson JC. Effect of neurotensin on gut mucosal growth in jejunal and ileal Thiry-Vella fistulas. *Gastroenterology*. 1992 Oct;103(4):1254-1259. PMID:1397882
9. Evers BM, Ishizuka J, **Chung DH**, Townsend CM Jr., Thompson JC. Neurotensin expression and release in human colon cancers. *Ann Surg*. 1992 Oct;216(4):423-430. PMCID:PMC1242644
10. **Chung DH**, Evers BM, Beauchamp RD, Upp JR Jr., Rajaraman S, Townsend CM Jr., Thompson JC. Bombesin stimulates growth of human gastrinoma. *Surgery*. 1992 Dec;112(6):1059-1065. PMID: 1455308
11. Huang KF, **Chung DH**, Herndon DN. Insulin-like growth factor (IGF-1) reduces gut atrophy and bacterial translocation after severe burn injury. *Arch Surg*. 1993 Jan;128(1):47-53. PMID: 8418780
12. **Chung DH**, Evers BM, Townsend CM Jr., Huang KF, Herndon DN, Thompson JC. Role of polyamine biosynthesis during gut mucosal adaptation after burn injury. *Am J Surg*. 1993 Jan;165(1):144-149. PMID: 8418689
13. Dong Y-L, Huang KF, Xia Z-F, **Chung DH**, Yan TZ, Herndon DN, Waymack JP. Impact of exogenous Insulin-like growth factor-1 on hepatic energy metabolism in burn injury. *Arch Surg*. 1993 Jun;128(6):703-708. PMID: 8503776
14. Evers BM, Rajaraman S, **Chung DH**, Townsend CM Jr., Wang X, Graves K, Thompson JC. Developmental expression of the neurotensin gene in the rat liver. *Ann Surg*. 1993 Aug;218(2):183-188. PMCID:PMC1242928
15. Evers BM, Rajaraman S, **Chung DH**, Townsend CM Jr., Wang X, Graves K, Thompson JC. Differential expression of the neurotensin gene in the developing rat and human gastrointestinal tract. *Am J Physiol*. 1993 Sep;265(3 Pt 1):G482-G490. PMID: 8214071
16. Sato K, Ishizuka J, Cooper CW, **Chung DH**, Tsuchiya T, Uchida T, Rajaraman S, Townsend CM Jr., Thompson JC. Inhibitory effect of calcium channel blockers on growth of pancreatic cancer cells. *Pancreas*. 1994 Mar;9(2):193-202. PMID: 8190721
17. Shimoda I, Evers BM, Ishizuka J, Rajaraman S, **Chung DH**, Uchida T, Townsend CM Jr., Thompson JC. Age-dependent increase of neurotensin expression in the ileum. *Am J Physiol*. 1994 Apr;266(4 Pt 1):G706-G712. PMID: 8179005
18. **Chung DH**, Ziegler MM. Central venous catheter access. *Nutrition*. 1998 Jan;14(1):119-123. PMID: 9437697
19. Pershad J, Simmons GT, **Chung DH**, Frye T, Marques M. Two acute pediatric abdominal catastrophes from strangulated left paraduodenal hernias. *Pediatr Emerg Care*. 1998 Oct;14(5):347-349. PMID: 9814403

20. **Chung DH**, Georgeson KE. Fundoplication and gastrostomy. *Semin Pediatr Surg.* 1998 Nov;7(4):213-219. PMID: 9840901
21. Papaconstantinou HT, **Chung DH**, Townsend CM Jr., Ko TC. Glutamine-starvation induces mitochondrial damage independent of caspase activation in intestinal epithelial cells. *Surg Forum.* 1999;50:64-66.
22. **Chung DH**, Ethridge RT, Papaconstantinou HT, Evers BM. Regulation of nuclear factor- $\kappa$ B (NF- $\kappa$ B) in sodium butyrate-induced gut differentiation. *Surg Forum.* 1999;50:66-68.
23. Kim S, **Chung DH**, Escalon J, Hsieh J, Hellmich MR, Evers BM. Expression and functional regulation of the gastrin-releasing peptide (GRP) receptor in the neuroblastoma cell line IMR-32. *Surg Forum.* 2000;51:532-534.
24. Papaconstantinou HT, **Chung DH**, Zhang W, Ansari NH, Hellmich MR, Townsend CM Jr., Ko TC. Prevention of mucosal atrophy: the role of glutamine and caspases in intestinal epithelial cells. *J Gastrointest Surg.* 2000 Jul;4(4):416-423. PMID: 11058861
25. **Chung DH**, Ethridge RT, Kim S, Hernandez A., Evers BM. Molecular mechanisms contributing to oxidative injury in intestinal epithelial cells. *Surg Forum.* 2000 Oct;191(4):S45.
26. **Chung DH**, Kim S, Ethridge RT, Hashimoto K, Thomas RP, Evers BM. Inhibition of NF- $\kappa$ B by peroxisome proliferator-activated receptor  $\gamma$  (PPAR- $\gamma$ ) agonist in necrotizing enterocolitis. *Surg Forum.* 2001;52:499-501.
27. Ethridge RT, Hashimoto K, Rajaraman S, **Chung DH**, Evers BM. Selective inhibition of NF- $\kappa$ B results in attenuation of acute pancreatitis and pancreatitis-associated lung injury. *Surg Forum.* 2001;52:25-27.
28. **Chung DH**, Ethridge RT, Kim S, Hernandez A, Kelly DR, Evers BM. Molecular mechanisms contributing to necrotizing enterocolitis. *Ann Surg.* 2001 Jun;233(6):835-842. PMCID: PMC1421327
29. Hernandez A, Thomas R, Smith F, Sandberg J, Kim S, **Chung DH**, Evers BM. Butyrate sensitizes human colon cancer cells to TRAIL-mediated apoptosis. *Surgery.* 2001 Aug;130(2):265-272. PMID: 11490359
30. Murillo CA, Kim S, Thomas RP, **Chung DH**. Delayed cardiac tamponade after blunt chest trauma in a child. *J Trauma.* 2002 Mar;52(3):573-575. PMID: 11901341
31. Kim S, Hu W, Kelly DR, Hellmich MR, Evers BM, **Chung DH**. Gastrin-releasing peptide is a growth factor for human neuroblastomas. *Ann Surg.* 2002 May;235(5):621-629. PMCID: PMC1422487
32. Ethridge RT, **Chung DH**, Slogoff M, Ehlers RA, Hellmich MR, Rajaraman S, Saito H, Uchida T, Evers BM. Cyclooxygenase-2 gene disruption attenuates the severity of acute pancreatitis and pancreatitis-associated lung injury. *Gastroenterology.* 2002 Oct;123(4):1131-1322. PMID: 12360491
33. Kim S, Domon-Dell C, Wang Q, **Chung DH**, Cristofano AD, Pandolfi PP, Freund J-N, Evers BM. PTEN and TNF- $\alpha$  regulation of the intestinal-specific Cdx-2 homeobox gene through a PI3-K, PKB/Akt and NF- $\kappa$ B dependent pathway. *Gastroenterology.* 2002 Oct;123(4):1163-1178. PMID: 12360479
34. Ethridge RT, Hashimoto K, **Chung DH**, Ehlers RA, Rajaraman S, Evers BM. Selective inhibition of NF- $\kappa$ B attenuates the severity of caerulein-induced acute pancreatitis. *J Am Coll Surg.* 2002 Oct;195(4):497-505. PMID: 12375755



35. Kim S, Kang J, Hu W, Evers BM, **Chung DH**. Geldanamycin decreases Raf-1 and Akt levels and induces apoptosis in neuroblastomas. *Int J Cancer*. 2003 Jan;103(3):352-359. PMID: 12471618
36. Chappell VL, Thompson MD, Jeschke MG, **Chung DH**, Thompson JC, Wolf SE. Effects of incremental starvation on gut mucosa. *Dig Dis Sci*. 2003 Apr;48(4):765-769. PMID: 12741469.
37. Kim S, Domon-Dell C, Kang J, **Chung DH**, Freund J-N, Evers BM. Down-regulation of the tumor suppressor PTEN by the TNF- $\alpha$ /NIK/NF- $\kappa$ B pathway is linked to a default I $\kappa$ B- $\alpha$  autoregulatory loop. *J Biol Chem*. 2004 Feb;279(6):4285-4291. PMID: 14623898
38. Kim S, Kang J, Evers BM, **Chung DH**. Interferon- $\gamma$  induces caspase-8 in neuroblastomas without affecting methylation of caspase-8 promoter. *J Pediatr Surg*. 2004 Apr;39(4):509-515. PMID: 15065018
39. Kim S, Kang J, Qiao J, Thomas RT, Evers BM, **Chung DH**. Phosphatidylinositol 3-kinase inhibition down-regulates surviving and facilitates TRAIL-mediated apoptosis in neuroblastomas. *J Pediatr Surg*. 2004 Apr;39(4):516-521. PMID: 15065019
40. Qiao J, Cree J, Kang J, Kim S, Evers BM, **Chung DH**. Ets transcriptional regulation of gastrin-releasing peptide receptor in neuroblastoma. *Surgery*. 2004 Aug;136(2):489-494. PMID: 15300220
41. **Chung DH**, Herndon DN. Multiple converging mechanisms for postburn intestinal barrier dysfunction. *Crit Care Med*. 2004 Aug;32(8):1803-1804. PMID: 15286571
42. Huda R, **Chung DH**, Mathru M. Ischemic preconditioning at a distance: altered gene expression in mouse heart and other organs following brief occlusion of the mesenteric artery. *Heart Lung Circ*. 2005 Mar;14(1):36-43. PMID:16352250
43. Gustafson WC, DeBerry BB, Evers BM, **Chung DH**. Role of gastrointestinal hormones in neuroblastoma. *World J Surg*. 2005 Mar;29(3):281-286. PMID: 15706438
44. Hernandez JA, Swischuk LE, **Chung DH**, Chandler R, Lee S. Imaging of acute appendicitis: US as the primary imaging modality. *Pediatr Radiol*. 2005 Apr;35(4):392-395. PMID: 15635471
45. DeBerry BB, Lynch JE, Chernin JM, Zwischenberger JB, **Chung DH**. A survey for pain and sedation medications for pediatric patients during extracorporeal membrane oxygenation. *Perfusion*. 2005 May;20(3):139-143. PMID: 16038385
46. Qiao J, Kang J, Cree J, Evers BM, **Chung DH**. Gastrin-releasing peptide-induced downregulation of tumor suppressor protein PTEN in neuroblastomas. *Ann Surg*. 2005 May; 241(5):684-691. PMCID: PMC1357123
47. DeBerry BB, Lynch JE, **Chung DH**, Zwischenberger JB. Pertussis with pulmonary hypertension and leukocytosis treated with extracorporeal membrane oxygenation. *Pediatr Surg Int*. 2005 Aug;21(8):692-694. PMID: 15937656
48. Abouleish AE, **Chung DH**, Cohen MH. Caudal anesthesia with bupivacaine and clonidine in two extremely small premature neonates. *Pediatr Surg Int*. 2005 Sep;21(9):749-751. PMID: 16003520
49. Zhou Y, Wang Q, Evers BM, **Chung DH**. Signal transduction pathways involved in oxidative stress-induced intestinal cell apoptosis. *Pediatr Res*. 2005 Dec;58(6):1192-1197. PMCID: PMC2653865
50. Abouleish A, **Chung DH**. Simple method of gastric insufflation for pediatric laparoscopic gastrostomy placement. *Pediatr Surg Int*. 2006 Feb;22(2):208. PMID: 16331524

51. Kim S, **Chung DH**. Pediatric solid malignancies: Neuroblastoma and Wilms' tumor. *Surg Clin North Am*. 2006 Apr;86(2):469-487. PMID: 16580935
52. Kang J, Kamal A, Burrows FJ, Evers BM, **Chung DH**. Inhibition of neuroblastoma xenograft growth by Hsp90 inhibitors. *Anticancer Res*. 2006 May;26(3A):1903-1908. PMID: PMC2613690
53. Song J, Li J, Lulla A, Evers BM, **Chung DH**. Protein kinase D protects against oxidative-stress induced intestinal epithelial cell injury by Rho/ROK/PKC- $\delta$  pathway activation. *Am J Physiol Cell Physiol*. 2006 Jun;290(6):C1469-C1476. PMID: PMC2613753.
54. Qiao J, Kang J, Evers BM, **Chung DH**. Inhibition of transforming growth factor- $\beta$ /Smad signaling by phosphatidylinositol 3-kinase pathway. *Cancer Lett*. 2006 Oct;242(2):207-214. PMID: PMC2614268
55. Baregamian N, Song J, Jeschke M, Evers BM, **Chung DH**. IGF-1 protects intestinal epithelial cells from oxidative stress-induced apoptosis. *J Surg Res*. 2006 Nov;136(1):31-37. PMID: PMC2613687
56. Kang J, Rychahou PG, Ishola TA, Qiao J, Evers BM, **Chung DH**. *MYCN* silencing induces differentiation and apoptosis in human neuroblastoma cells. *Biochem Biophys Res Commun*. 2006 Dec;351(1):192-197. PMID: PMC2708968
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63. Wang Q, Zhou Y, Wang X, **Chung DH**, Evers BM. Regulation of PTEN expression in intestinal epithelial cells by c-Jun NH<sub>2</sub>-terminal kinase activation and nuclear factor- $\kappa$ B inhibition. *Cancer Res*. 2007 Aug;67(16):7773-7781. PMID: PMC2649758
64. Gore DC, Hawkins HK, Chinkes DL, **Chung DH**, Sanford AP, Herndon DN, Wolf SE. Assessment of adverse events in the demise of pediatric burn patients. *J Trauma*. 2007 Oct;63(4):814-818. PMID: 18090010
65. Ishola T, **Chung DH**. Neuroblastoma. *Surg Oncol*. 2007 Nov;16(3):149-156. PMID: 17976976

66. Palacio D, Swischuk C, **Chung DH**, Parada S. Posttraumatic ventricular pseudoaneurysm in a 7-year-old child diagnosed with multidetector CT of the chest: a case report. *Emerg Radiol.* 2007 Nov;14(6):431-433. PMID: 17574483
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72. Song J, Li J, Mourot J, Evers BM, **Chung DH**. Diacylglycerol kinase- $\zeta$  regulation of protein kinase D during oxidative stress-induced intestinal cell injury. *Biochem Biophys Res Commun.* 2008 Oct;375(2):200-204. PMCID: PMC2613755
73. Rychahou PG, Kang J, Gulhati P, Doan H, Chen A, Xiao S-Y, **Chung DH**, Evers BM. AKT2 overexpression plays a critical role in the establishment of colorectal cancer metastasis. *Proc Natl Acad Sci USA.* 2008 Dec;105(51):20315-20320. PMCID: PMC2629319
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76. Mourot JM, Oliveira HM, DeBerry BB, Woodson L, Herndon DN, **Chung DH**. Complications of femoral artery catheterization in pediatric burn patients. *J Burn Care Res.* 2009 May;30(3):432-436. PMID: 19349891
77. Booker L, Ishola TA, Bowen K, **Chung DH**. Recent advances in neuroblastoma immunotherapy. *Curr Pediatr Rev.* 2009 May;5(2):112-117. PMCID: PMC3629732
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35. Qiao J, Kang J, Evers BM, **Chung DH**. Ets transcription factor-induced regulation of matrix metalloproteinase in neuroblastomas. *J Am College of Surg* 199:S54, 2004.
36. Gan H, Song J, Parikh BS, Kang J, Evers BM, **Chung DH**. Signal transduction pathways involved in oxidative stress-induced intestinal epithelial cell injury. *J Surg Res* 121:304, 2004 (A100).
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47. Kang J, Ishola T, Baregamian N, Evers BM, **Chung DH**. Phosphatidylinositol 3-kinase regulates bombesin-induced angiogenesis and in vivo neuroblastoma growth. *J Am College Surg* 203:S51, 2006.

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49. Qiao J, Ishola TA, Pang L, O'Connor K, Evers BM, **Chung DH**. Gastrin-releasing peptide induced neuroblastoma cell transformation through activation of focal adhesion kinase. *J Surg Res* 137:231, 2007 (A188).
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52. Qiao J, Pang L, Evers BM, **Chung DH**. Gastrin-releasing peptide promotes cell migration by upregulation of integrins in neuroblastoma cells. *Gastroenterology* 132: A539 (T1702), 2007.
53. Baregamian, N, Song J, Evers BM, Chung DH. Activation of mitochondrial apoptotic signaling during oxidative stress in intestinal epithelial cells. *J Am College of Surg* 205:S51, 2007.
54. Kang J, Rychahou P, Ishola T, Evers BM, **Chung DH**. N-myc is a novel regulator of PI3K-mediated VEGF in neuroblastoma. *J Surg Res* 144: 251 (A167), 2008.
55. Qiao J, Kang J, Ishola T, Evers BM, **Chung DH**. Gastrin-releasing peptide receptor silencing suppresses the tumorigenesis and metastatic potential of neuroblastoma. Proceedings of the *Assoc for Cancer Research*, San Diego, CA, April 14, 2008.
56. Kang J, Ishola T, Evers BM, **Chung DH**. N-myc regulation of PI3K-mediated VEGF expression in neuroblastoma. Proceedings of the *Advances in Neuroblastoma Research*, Chiba, Japan, May 23, 2008.
57. Song J, Li J, Evers BM, **Chung DH**. Protein kinase D3 plays a pro-apoptotic role in oxidative stress-induced apoptosis in intestinal epithelial cells. *Gastroenterology* 134:A267, 2008.
58. Lee S, Qiao J, O'Connor KL, **Chung DH**. Focal adhesion kinase mediates gastrin-releasing peptide-induced neuroblastoma cell transformation. *J Surg Res* 2010;158: A342.
59. Qiao J, Lee S, Watson AM, Karam JR, Evers BM, **Chung DH**. Akt2 regulates gastrin-releasing peptide receptor-induced tumorigenesis and metastatic potential in neuroblastoma. *J Surg Res* 2010;158:A333.
60. Paul P, Kang J, Gillory L, Qiao J, **Chung DH**. Targeting gastrin-releasing peptide as a new approach to treating aggressive refractory neuroblastomas. *J Surg Res* 2010;158:A342.
61. Lee S, Qiao J, Zhang J, **Chung DH**. Silencing of CDC42 Inhibits Neuroblastoma Cell Proliferation and Transformation via Downregulation of TWIST and AKT2. *J Surg Res* 2011;165:A178.
62. Choi S, Qiao J, Colon NC, **Chung DH**. Gastrin-releasing Peptide Receptor Silencing Suppresses Neuroblastoma Tumorigenesis by Regulating Glucose Metabolism and Angiogenesis. *J Surg Res* 2011;165:A311.
63. Taylor C, Qiao J, Josifi E, **Chung DH**. Integrin-Linked Kinase (ILK) Co-Localizes with PTEN in Regulating PI3K/Akt Activity in Neuroblastoma Cells. *J Surg Res* 2011;165:A178.

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65. Long E, Lee S, Qiao J, **Chung DH**. Integrin  $\beta$ -1 is Critical for Gastrin-Releasing Peptide Receptor-Mediated Neuroblastoma Cell Migration and Invasion. *J Surg Res* 2013;179:A316.
66. Romain C, Paul P, Qiao J, **Chung DH**. Targeting Aurora Kinase A Inhibits Hypoxia-Mediated Neuroblastoma Tumor Progression. *J Surg Res* 2014;186:A685.
67. Romain C, Choi P, Qiao J, **Chung DH**. Silencing gastrin-releasing peptide receptor suppresses key regulators of aerobic glycolysis in neuroblastoma cells. *J Am College Surg* 2014;219:S74.
68. Rellinger EJ, Craig BT, Qiao J, Kim KW, **Chung DH**. NADPH oxidases modulate redox-sensitive signaling pathways in neuroblastoma. *J Am Coll Surg* 2015; 221: e112.

## **PRESENTATIONS:**

### **A. National Meetings (Oral Presentations):**

1. Injury-induced increase of small intestine ornithine decarboxylase (ODC). Society of University Surgeons Resident's Conference, Galveston, TX, Feb 6, 1991.
2. Injury-induced transcriptional regulation of small intestinal (SI) ornithine decarboxylase (ODC). Society for Surgery of the Alimentary Tract, New Orleans, LA, May 21, 1991.
3. Differential trophic effects of neurotensin on small bowel mucosa. Surgical Forum, Am. College of Surgeons, Chicago, IL, Oct 21, 1991.
4. Cytokine regulation of gut ornithine decarboxylase (ODC) gene expression and enzyme activity. Society of University Surgeons, Cincinnati, OH, Feb 14, 1992.
5. Bombesin stimulates growth of human gastrinoma. Am. Assoc. of Endocrine Surgeons, Miami, FL, Apr 13, 1992.
6. Effects of  $\alpha$ -difluoromethylornithine (DFMO) on gut mucosal adaptation after burn injury. Society for Surgery of the Alimentary Tract, San Francisco, CA, May 12, 1992.
7. Endotoxin-mediated regulation of gut ornithine decarboxylase enzyme activity. Surgical Forum, Am. College of Surgeons, New Orleans, LA, Oct 12, 1992.
8. Hydrometrocolpos: A case report and literature review. Pediatric Surgery Residents' Conference, Kansas City, MO, Oct 3, 1992.
9. Pain management in pediatric burn patients. 10th Annual Regional Burn Seminar, Chapel Hill, NC, Dec 5, 1997.
10. Safety and efficacy of the 2 U-stitch gastrostomy tube. Sixth World Congress of Endoscopic Surgery, Rome, Italy, Jun 5, 1998.
11. A new technique for laparoscopic exploration for contralateral hernias. Sixth World Congress of Endoscopic Surgery, Rome, Italy, Jun 6, 1998.
12. Successful use of ECMO in pediatric cardiac contusion. The 15<sup>th</sup> Annual ECMO Symposium, Keystone, CO, Feb 23, 1999.

13. Regulation of nuclear factor- $\kappa$ B (NF- $\kappa$ B) in sodium butyrate-induced gut differentiation. Surgical Forum, Am. College of Surgeons, San Francisco, CA, Oct 13, 1999.
14. Molecular mechanisms contributing to oxidative injury in intestinal epithelial cells. Surgical Forum, Am College of Surgeons, Chicago, IL, Oct 24, 2000.
15. Molecular mechanisms contributing to necrotizing enterocolitis. Southern Surg Assoc., Palm Beach, FL, Dec 6, 2000.
16. Inhibition of NF- $\kappa$ B by peroxisome proliferator-activated receptor- $\gamma$  agonist in necrotizing enterocolitis. Surgical Forum, Am College of Surgeons, New Orleans, LA, Oct 9, 2001.
17. Gastrin-releasing peptide is a growth factor for human neuroblastomas. Southern Surgical Assoc., Hot Springs, VA, Dec 3, 2001.
18. PI3-Kinase inhibition increases Trail-induced apoptosis in neuroblastoma. Surgical Forum, Am College of Surgeons, San Francisco, CA, Oct 8, 2002.
19. Gastrin-releasing peptide induces phosphorylation of retinoblastoma protein through a PI3K/Akt/GSK-3-dependent pathway in neuroblastoma cells. Society of University Surgeons, Houston, TX, Feb 14, 2003.
20. Negative regulation of transforming growth factor- $\beta$ /SMAD by phosphatidylinositol 3-kinase pathway in neuroblastomas. Pediatric Surgery Surgical Forum, Am College of Surgeons, Chicago, IL, Oct 21, 2003.
21. ETS transcription factor regulation of gastrin-releasing peptide receptor in neuroblastomas. Society of University Surgeons, St. Louis, MO, Feb 13, 2004.
22. Histone deacetylase inhibitors down-regulate *MYCN* and decrease neuroblastoma growth. International Society of Pediatric Surgical Oncology, Ponte Vedra Beach, FL, May 26, 2004.
23. *MYCN* RNA interference decreases anti-apoptotic gene expression and proliferation of neuroblastomas. Surgical Forum, Am College of Surgeons, New Orleans, LA, Oct 11, 2004.
24. Ets transcription factor-induced regulation of matrix metalloproteinase in neuroblastomas. Surgical Forum, Am College of Surgeons, New Orleans, LA, Oct 11, 2004.
25. Signal transduction pathways involved in oxidative stress-induced intestinal epithelial cell injury. Assoc Acad Surg, Houston, TX, Nov 13, 2004.
26. Gastrin-releasing peptide-induced downregulation of tumor suppressor protein PTEN in neuroblastomas. Southern Surgical Assoc., Palm Beach, FL, Dec 6, 2004.
27. IGF-1 protects intestinal epithelial cells from oxidative stress-induced apoptosis. Academic Surgical Congress (Association of Academic Surgeons), San Diego, CA, Feb 10, 2006.
28. Protein kinase C- $\epsilon$  regulates the apoptosis and survival of intestinal epithelial cells. Am Gastroenterological Assoc., Los Angeles, CA, May 24, 2006.
29. Phosphatidylinositol 3-Kinase Regulates Bombesin-Induced Angiogenesis and *In Vivo* Neuroblastoma Growth. Pediatric Surgery Surgical Forum, Am College of Surgeons, Chicago, IL, Oct 9, 2006.

30. Phosphatidylinositol 3-kinase pathway regulates hypoxia-inducible factor-1 to protect from intestinal injury during necrotizing enterocolitis. Academic Surgical Congress (Society of University Surgeons), Phoenix, AZ, Feb 7, 2007.
31. Gastrin-releasing peptide induces neuroblastoma cell transformation through activation of focal adhesion kinase. Academic Surgical Congress (Society of University Surgeons), Phoenix, AZ, Feb 9, 2007.
32. Tumor necrosis factor- $\alpha$  induces intestinal mitochondrial dysfunction during necrotizing enterocolitis. Am Pediatric Surgical Assoc., Orlando, FL, May 27, 2007.
33. Activation of mitochondrial apoptotic signaling during oxidative stress in intestinal epithelial cells. Am College of Surgeons, New Orleans, LA, Oct 8, 2007.
34. N-myc is a novel regulator of PI3K-mediated VEGF in neuroblastoma. Academic Surgical Congress, Huntington Beach, CA, Feb 14, 2008.
35. Focal adhesion kinase mediates gastrin-releasing peptide-induced neuroblastoma cell transformation. Academic Surgical Congress (Society of Univ. Surgeons), San Antonio, TX, Feb 5, 2010.
36. Akt2 regulates gastrin-releasing peptide receptor-induced tumorigenesis and metastatic potential in neuroblastoma. Academic Surgical Congress (Society of Univ. Surgeons), San Antonio, TX, Feb 5, 2010.
37. Targeting gastrin-releasing peptide as a new approach to treating aggressive refractory neuroblastomas. Academic Surgical Congress (Society of Univ. Surgeons), San Antonio, TX, Feb 5, 2010.
38. Activation of mitochondrial apoptotic signaling during oxidative stress in intestinal epithelial cells. Int Symposium on Paediatric Surgical Research, Tokyo, Japan, Sept 12-14, 2010.
39. Downregulation of GLI1 inhibits proliferation and promotes apoptosis in neuroblastoma cells. Academic Surgical Congress, Huntington Beach, CA, Feb 3, 2011.
40. Integrin-linked kinase (ILK) co-localizes with PTEN in regulating PI3K/Akt activity in neuroblastoma cells. Academic Surgical Congress, Huntington Beach, CA, Feb 3, 2011.
41. Silencing of CDC42 inhibits neuroblastoma cell proliferation and transformation via downregulation of TWIST and AKT. Academic Surgical Congress, Huntington Beach, CA, Feb 3, 2011.
42. Gastrin-releasing peptide receptor silencing suppresses neuroblastoma tumorigenesis by regulating glucose metabolism and angiogenesis. Academic Surgical Congress, Huntington Beach, CA, Feb 3, 2011.
43. Obtaining a tissue biopsy in pediatric intra-abdominal solid tumors: Is laparoscopy way to go? Pacific Assoc. of Pediatric Surgeons, Cancun, Mexico, Apr 11, 2011.
44. Gastrin-releasing peptide as a novel marker to guide treatment of undifferentiated neuroblastomas. Pacific Assoc. of Pediatric Surgeons, Cancun, Mexico, Apr 13, 2011.
45. Effects of oxidative stress on intestinal insulin growth factor-I receptor expression. Eup Pediatric Surg Assoc., Barcelona, Spain, Jun 18, 2011.
46. Phosphatidylinositol 3-kinase-independent Rapid Activation of Vascular Endothelial Growth Factor in Neuroblastoma. Surgical Forum, San Francisco, CA, Oct 25, 2011.



47. Aurora A Kinase Regulates N-myc Activity Through Phosphorylation of GSK3-beta and beta-Catenin. Surgical Forum, San Francisco, CA, Oct 25, 2011.
48. Conveying Significance and Innovation. The Grant Writing Workshop, AAS/SUS Surgical Investigators' Course, New Orleans, Feb 4, 2013.
49. miRNA downregulates metastatic potential in neuroblastoma cells. Academic Surgical Congress (Society of Univ. Surgeons), New Orleans, LA, Feb 5, 2013.
50. Integrin  $\beta$ -1 is critical for gastrin-releasing peptide receptor-mediated neuroblastoma cell migration and invasion. Academic Surgical Congress (Society of Univ. Surgeons), New Orleans, LA, Feb 7, 2013.
51. Negotiating the Details of the Offer. Mid-Career Academic Surgery: Professional Development Course. Society of University Surgeons, New Orleans, Feb 8, 2013.
52. TIMP1 mediates neuroblastoma liver metastasis. Am Pediatr Surg Assoc., Marco Island, FL, May 3, 2013.
53. Targeting Aurora Kinase A downregulates cell proliferation and angiogenesis in neuroblastoma. Am Pediatr Surg Assoc., Marco Island, FL, May 3, 2013.
54. Targeting TIMP-1 in Neuroblastoma Metastasis. Gordon Research Conferences, Lucca (Barga), Italy, May 19-24, 2013.
55. Things Chairs Consider When Recruiting a Pediatric Surgeon. AAP Pediatric Surgery Resident Conference, Orlando, FL, Oct 25, 2013.
56. Conveying Significance and Innovation. The Grant Writing Workshop, AAS/SUS Surgical Investigators' Course, San Diego, CA, Feb 2, 2014.
57. Targeting Aurora Kinase A Inhibits Hypoxia-Mediated Neuroblastoma Cell Tumorigenesis. Academic Surgical Congress (Society of University Surgeons), San Diego, CA, Feb 6, 2014.
58. Silencing gastrin-releasing peptide receptor suppresses key regulators of aerobic glycolysis in neuroblastoma cells. Surgical Forum, San Francisco, CA, Oct 27, 2014.
59. Targeting Sirtuins Blocks Neuroblastoma Cell Proliferation and Induces Differentiation. Academic Surgical Congress, Las Vegas, NV, Feb 3, 2015.
60. BET Inhibitor Blocks Neurosphere Formation and Promotes Differentiation In Neuroblastomas. Academic Surgical Congress, Las Vegas, NV, Feb 4, 2015.
61. Antioxidant Inhibition of Steady-State Reactive Oxygen Species and Cell Growth in Neuroblastoma, Academic Surgical Congress, Las Vegas, NV, Feb 4, 2015.
62. Tumor Necrosis Factor Signaling Is Critical for Chronic Hypoxia-Conditioned Neuroblastoma Cell Tumorigenesis, Academic Surgical Congress, Las Vegas, NV, Feb 5, 2015.
63. Laparoscopic Gastrostomy and Fundoplication in Patients with Hypoplastic Left Heart Syndrome: a Single-Center Experience. American Pediatric Surgical Association. Ft. Lauderdale, FL, May 1, 2015.
64. FX11 Inhibits Aerobic Glycolysis and Promotes Apoptosis in MYCN-amplified Neuroblastomas. Academic Surgical Congress, Jacksonville, FL, Feb 2, 2016.

65. Chronic Hypoxia Promotes Hypoxia-Inducible Factor-Independent Growth Response in Neuroblastoma. Academic Surgical Congress, Jacksonville, FL, Feb 2, 2016.
66. Sphere Formation by Neuroblastoma Stem-like Cells is Blocked by 13-cis-Retinoic Acid. Academic Surgical Congress, Jacksonville, FL, Feb 2, 2016.

**B. National Meetings (Posters):**

1. Effect of TGF- $\beta$ 1 on cell growth and EGF receptor modulation in human gastric adenocarcinoma cells. Am. Gastroenterological Assoc., New Orleans, LA, May 1991.
2. Geldanamycin decreases Raf-1 and Akt levels and induces apoptosis in neuroblastomas. Am Assoc for Cancer Research, San Francisco, Apr 9, 2002.
3. Interferon- $\gamma$  induces caspase-8 in neuroblastoma cells: death receptor mediated apoptosis is dependent on caspase-8 and concomitant prevention of NF- $\kappa$ B activation. Am Assoc for Cancer Research, San Francisco, Apr 9, 2002.
4. Mitogenic actions of gastrin-releasing peptide in neuroblastomas. 14<sup>th</sup> International Symposium on Regulatory Peptides, Boston, MA, Sept 1, 2002.
5. Complications of femoral arterial cannulation in pediatric burn patients. Shock Society, Phoenix, AZ, Jun 10, 2003.
6. Heat shock protein 90 inhibitors reduce neuroblastoma growth in vivo. Am Assoc for Cancer Research, Washington, DC, Jul 11-14, 2003.
7. Cyclooxygenase-2 in small bowel after burns in mice. Am. Assoc for the Surgery of Trauma, Minneapolis, MN, Sept 11-13, 2003.
8. Induction of nuclear factor- $\kappa$ B and cyclooxygenase in burned mice. Am Assoc for the Surgery of Trauma, Minneapolis, MN, Sept 11-13, 2003.
9. Gastrin-releasing peptide-induced expression of matrix metalloproteinases in neuroblastomas. Am Assoc for Cancer Research, Orlando, FL, Mar 28, 2004.
10. Gastrin-releasing peptide promotes neuroblastoma cell growth by activation of phosphatidylinositol 3-kinase pathway. 15<sup>th</sup> International Symposium on Regulatory Peptides, Toulouse, France, Sept 20, 2004.
11. Transcription factor Ets regulates interleukin-8 expression in neuroblastoma cells. Am Assoc for Cancer Research, Anaheim, CA, April 17, 2005.
12. The diacylglycerol kinase (DGK) signaling molecule, acting upstream of protein kinase D (PKD), mediates oxidative stress-induced intestinal epithelial cell injury. Am. Gastroenterological Assoc., Chicago, IL, May 17, 2005.
13. p38 mitogen-activated protein kinase mediates oxidative stress-induced rat intestinal epithelial cell apoptosis. Am. Gastroenterological Assoc., Chicago, IL, May 17, 2005.
14. Overexpression of gastrin-releasing peptide receptor upregulates integrin expression in neuroblastoma cells. Academic Surgical Congress (Society of Univ Surgeons), San Diego, CA, Feb 8, 2006.

15. Phosphatidylinositol 3-kinase/Akt pathway is involved in retinoic acid-induced neuroblastoma cell differentiation. Academic Surgical Congress (Society of Univ Surgeons), San Diego, CA, Feb 8, 2006.
16. Phosphatidylinositol 3-kinase regulation of gastrin-releasing peptide-induced cell cycle progression in neuroblastoma cells. Advances in Neuroblastoma Research, Los Angeles, CA, May 17, 2006.
17. *MYCN* regulates phosphatidylinositol 3-kinase-mediated vascular endothelial growth factor expression in neuroblastoma. Am Assoc for Cancer Research, Los Angeles, CA, Apr 15, 2007.
18. Protein kinase D prevents H<sub>2</sub>O<sub>2</sub>-induced apoptosis via upregulation of NF- $\kappa$ B and downregulation of p38 in intestinal epithelial cells. Am. Gastroenterological Assoc., Washington DC, May 21, 2007.
19. Gastrin-releasing peptide promotes cell migration by upregulation of integrins in neuroblastoma cells. Am. Gastroenterological Assoc., Washington DC, May 22, 2007.
20. Oxidative stress increases IGF-IR expression and PI3-K/Akt activation in intestinal epithelial cells. Am. Gastroenterological Assoc., Washington DC, May 22, 2007.
21. Targeting inhibitor of metalloproteinases-1 attenuates neuroblastoma liver metastasis. Gordon Research Conference, Les Diablerets, Switzerland, May 2013.
22. NADPH oxidases modulate redox-sensitive signaling pathways in neuroblastoma. Surgical Forum, ACS Clinical Congress, Chicago, IL, Oct 5, 2015.

**C. Invited Lectures and Visiting Professorship:**

1. Laparoscopic pull-through procedures. Endoscopic Paediatric Surgery Parallel Session at the Sixth World Congress of Endoscopic Surgery, Rome, Italy, Jun 6, 1998.
2. Fibrin sealant: A clinical trial in neonatal ECMO. Am. Red Cross Advisory Panel, Gaithersburg, MD, Apr 8, 2000.
3. Arteriovenous CO<sub>2</sub> Removal. 11<sup>th</sup> Annual ELSO Conference, New Orleans, LA, Sept 16, 2000.
4. Fibrin sealant: A clinical trial in neonatal ECMO. Am. Red Cross Clinical Symposium, Chicago, IL, Oct 22, 2000.
5. Hyperthermia in cancer. The 17<sup>th</sup> Annual ECMO Symposium, Keystone, CO, Feb 26, 2001.
6. Pathogenesis of necrotizing enterocolitis. Surgical Grand Rounds, Univ. of Texas Health Science Center, Houston, TX, May 28, 2002 (Visiting Professor).
7. PI3-K/Akt involvement in the effects of gastrin-releasing peptide and geldanamycin in neuroblastomas. Forbeck Foundation Research Seminar-The New Biology of Enigmatic Neuroblastoma and Relevant Treatment Strategies, Boston, MA, Mar 21, 2003.
8. Gastrin-releasing peptide in cancers. The Second Molecular Surgeon Symposium: Pancreatic Cancer and Other Cancers. Department of Surgery, Baylor College of Medicine, Sept 13, 2003.
9. Molecular regulation of neuroblastoma growth. Grand Rounds, Department of Pediatrics, Memorial Sloan-Kettering Cancer Center, New York, NY, Oct 23, 2003 (Visiting Professor).
10. Gastrin-releasing peptide: An autocrine growth factor for neuroblastomas. Children's Oncology Group Neuroblastoma Biology Symposium, Dallas, TX, Nov 7, 2003.

11. Role of gastrin-releasing peptide in neuroblastomas. Surgery Biology Club, New Orleans, LA, Oct 10, 2004.
12. Gastrin-releasing peptide: an autocrine growth factor for neuroblastoma. Texas Children's Hospital Research Seminar, Houston, TX, Jan 13, 2005 (Visiting Professor).
13. Necrotizing enterocolitis: understanding its pathogenesis. Vanderbilt University School of Medicine, Department of Surgery Grand Rounds, Nashville, TN, March 9, 2007 (Visiting Professor).
14. Oncogenic properties of gastrin-releasing peptide in neuroblastomas. Vanderbilt University School of Medicine, Research Seminar, Nashville, TN, March 9, 2007 (Visiting Professor).
15. Neuroblastoma: Clinical & Research Advances. Scott & White Hospital-Texas A&M Medical School Department of Surgery Grand Rounds, Temple, Texas, March 12, 2008 (Visiting Professor).
16. N-myc is a novel regulator of PI3K-mediated angiogenesis. 1<sup>st</sup> International Scientific Workshop: Neuroblastoma. Texas Children's Cancer Center, Houston, Texas, March 25, 2008.
17. Oncogenic functions of GRP in neuroblastomas. Werner Creutzfeldt Lectureship at the 17<sup>th</sup> International Symposium on Regulatory Peptides, Santa Barbara, CA, Jan 27, 2009.
18. G-protein coupled receptor-mediated tumorigenesis. 37<sup>th</sup> Annual meeting of the Surgical Research Society of South Africa, Johannesburg, South Africa, Jun 25, 2009 (Visiting Professor).
19. Endocrine regulation of neuroblastoma. 16<sup>th</sup> Annual Kiesewetter Lecture, Department of Surgery, University of Pittsburgh and Children's Hospital of Pittsburgh, Pittsburgh, PA, Sept 23, 2009 (Visiting Professor).
20. GRP in neuroblastoma. Markey Cancer Center, University of Kentucky at Lexington, April 23, 2010 (Visiting Professor).
21. Challenges in the treatment of neuroblastoma. Annual Research Day, Department of Surgery, UC Davis at Sacramento, June 14, 2010 (Visiting Professor).
22. Neuroblastoma: A Clinical Enigma. Department of Surgery Grand Rounds, University of Wisconsin, Madison, WI, September 15, 2010 (Visiting Professor).
23. Neuroblastoma. Singleton Surgical Society, Poth Lectureship, University of Texas Medical Branch, June 10, 2011 (Visiting Professor).
24. Molecular therapies against neuroblastoma. James Talbert Lectureship, University of Florida at Gainesville, March 23, 2012 (Visiting Professor).
25. Advances in targeted therapies against neuroblastoma. The Halsted Society, San Diego, September 8, 2012.
26. Surgical Management of Necrotizing Enterocolitis. Neonatology Conference, St. Francis Hospital, Tulsa, OK, Feb 21, 2014.
27. The Future of Surgeon Scientists. The 5<sup>th</sup> Annual Arnold Leonard Endowed Lecture in Pediatric Surgery, Department of Surgery, University of Minnesota, Minneapolis, April 14, 2015 (Visiting Professor).
28. Moritz M. Ziegler Lectureship, Division of Pediatric Surgery, Department of Surgery, University of Colorado at Denver, Children's Hospital Colorado at Denver. June 19, 2015 (Visiting Professor).

29. Surgeon scientist: my personal journey and the future. Surgical Research Society of South Africa annual meeting. Bloemfontein, South Africa, June 25, 2015 (Visiting Professor).
30. Advances in neuroblastoma: perspectives from a surgeon-scientist. Department of Surgery, Indiana University Medical Center. Grosfeld Lectureship, Indianapolis, Apr 27, 2016 (Visiting Professor).
31. Advances in neuroblastoma. Department of Surgery, Seattle Children's Hospital. Tapper Lectureship in Pediatric Surgery, Seattle, WA, May 12, 2016 (Visiting Professor).
32. Training of future academic surgeon. Department of Surgery, Cincinnati Children's Hospital Medical Center. Joseph Cox Lectureship in Pediatric Surgery. Cincinnati, OH, June 8, 2016 (Visiting Professor).
33. Lessons learned from bench to bedside cancer research. Surgical Research Society of South Africa Annual Meeting. University of Cape Town, Cape Town, South Africa, July 14, 2016 (Visiting Professor).
34. Are we training the next generation of surgeon-scientists? Department of Surgery, University of Texas Medical Branch, Galveston, TX, August 17, 2016 (Visiting Professor).
35. Personal Management. SUS Mid-Career Course, 12<sup>th</sup> Annual Academic Surgical Congress. Las Vegas, NV, Feb 6<sup>th</sup>, 2017.
36. ML327 Induces H3K9 Acetylation and Differentiation in Neuroblastoma. 13<sup>th</sup> Annual Academic Surgical Congress, Las Vegas, NV, Feb 9, 2017.
37. ML327 blocks neuroblastoma tumor progression. International Neuroblastoma Research Conference: "From Molecular Pathways to Novel Therapies", Texas Children's Hospital, Baylor College of Medicine, Houston, TX, May 3-5, 2017.
38. Advances in molecular targeted therapy in pediatric cancers. Surgical Research Society of South Africa Annual Meeting. University of Witz, Johannesburg, South Africa, July 6, 2017 (Visiting Professor).
39. Isoxazole-based Small Molecule Induces Apoptosis and Sensitizes Ewing Sarcoma Cells to TRAIL. Am College of Surgeons, Pediatric Surgery Surgical Forum, San Diego, CA Oct 25, 2017.
40.  $\alpha$ -N Catenin is a novel tumor suppressor in non-MYCN amplified neuroblastomas. Academic Surgical Congress, Basic Science session, Jacksonville, FL, Jan 30, 2018.
41. Targeted therapies against neuroblastoma. Schisgall Lectureship at Children's National Medical Center, DC, Feb 7, 2018 (Visiting Professor).

**D. Regional, Local Meetings:**

Available Upon Request.