

CARLOS E. MARROQUIN

Office Address:

Duke University Medical Center, Department of Surgery
Box 3512, 109 Bell Bdg.
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EDUCATION:

2002-2004	Delford Stickel Memorial Transplant Surgery Fellow Solid Organ Transplantation, Duke University Medical Center
2001-2002	General Surgery Chief Resident, Georgetown University
1999-2001	General Surgery Residency, Georgetown University
1997-1999	Surgical Oncology Fellow, Surgery Branch National Cancer Institute, National Institutes of Health
1996-1997	Immunotherapy Fellow, Surgery Branch National Cancer Institute, National Institutes of Health
1995-1996	General Surgery Residency, Georgetown University
1994-1995	General Surgery Internship, Georgetown University
1989-1994	Doctor of Medicine, UCLA/DREW School of Medicine
1991-1992	Post-Sophomore Fellow in Pathology, UCLA School of Medicine Department of Pathology and Laboratory Medicine
1985-1989	Chemistry, California State University, Northridge
1982-1985	Bachelor of Science, University of Maryland

FACULTY POSITIONS:

- 2005 – Present Assistant Professor, Department of Surgery
Duke University Medical Center
- 2004-2005 Clinical Associate, Department of Surgery
Duke University Medical Center

HOSPITAL/ SCHOOL OF MEDICINE COMMITTEES:

- 2007 – Present Executive Admissions Committee
Duke University School of Medicine
- 2007 – Present Education Subcommittee/Task Force for Re-accreditation
Duke University School of Medicine
- 2006 – Present Surgical Education and Activities Laboratory (SEAL)
Educational Development Committee
- 2006 – Present Minimally Invasive Surgery (MIS) Committee
- 2005- Present Second Year Medical Education Curriculum
Duke University School of Medicine
- 2005- Present Fourth Year Medical Education Curriculum
Duke University School of Medicine
- 2005- Present Minimally Invasive Surgery Committee
Duke University Medical Center, Department of Surgery

CERTIFICATION:

- 2007 American Board of Surgery
Certificate Number 52305
- 2004 American Society of Transplant Surgeons
Certificate of Training In Abdominal Transplant Surgery
- 2001-2005 Advanced Trauma Life Support – initial issue 1994
Re-certified March 2001 Expiration March 2005
- 2002-2004 Advanced Cardiac Life Support Provider – Initial issue 1994
- 2002-2004 Basic Life Support - Course C – Initial issue 1994
- 1996 USMLE-Step 3, NRMP #: 34299651

CERTIFICATION (Cont.):

1994 USMLE-Step 2, NRMP #: 34299651

1992 USMLE-Step 1, NRMP #: 34299651

LEADERSHIP:

2008 Current Status of Renal Transplantation
Duke University Medical Center, Conference Director

2005-Present Surgical Clerkship Director
Duke University School of Medicine

2005 – Present Bollinger Research Scholarship, Administrator
Department of Surgery, Duke University Medical Center

2004-Present Director, Transplant Academia, Department of Surgery
Duke University Medical Center

LICENSE:

2002-Present North Carolina Medical License # 2002-00953
Initial Issue 6/28/2002 Expiration 11/09/2009

2001-Present District of Columbia Medical License # MD000030049
Initial Issue 2/12/1997 Inactive Status 3/09/2007

AWARDS AND HONORS:

2005 Medical Student Teaching Award for Professionalism
Duke University School of Medicine

2002-2004 Delford Stickel Memorial Transplant Surgery Fellow
Duke University Medical Center

2002 Outstanding Resident Teaching Award
Department of Surgery, Georgetown University Medical Center

2002 Distinguished Service Award
Sibley Memorial Hospital, Washington, D.C.

2002 Mother of Pearls Award for Excellence in Medical Student
Education, Georgetown University School of Medicine

AWARDS AND HONORS (cont.):

- 2002 String of Pearls Award for Excellence in Medical Student Education, Georgetown University School of Medicine
- 2002 First Prize, Surgical Resident's Competitive Forum Metropolitan Washington Chapter, American College of Surgeons Washington Academy of Surgery, Washington, D.C.
- 2002 Alpha Omega Alpha, Medical Honor Society
- 2000 American Society of Transplantation, Trainee Travel Award
- 2000 String of Pearls Award for Excellence in Medical Student Education, Georgetown University School of Medicine
- 1997-1999 Surgical Oncology Fellow, Surgery Branch National Cancer Institute, National Institutes of Health
- 1996-1997 Immunotherapy Fellow, Surgery Branch National Cancer Institute, National Institutes of Health
- 1994 Scholastic Achievement Award In Surgery, Department of General Surgery, UCLA/DREW School of Medicine
- 1994 Scholastic Achievement Award In Medicine, Department of Internal Medicine, UCLA/DREW School of Medicine
- 1994 The Herbert G. Cave, M.D. Award In Anesthesia, Department of Anesthesiology, UCLA/DREW School of Medicine
- 1994 Dr. Carlos Juan Finlay Award for Excellence In Community Service & Public Health, UCLA/DREW School of Medicine
- 1994 Who's Who Among Students In American Universities & Colleges, Charles R. Drew University of Medicine & Science
- 1991-1992 Sophomore Fellowship in Pathology, UCLA School of Medicine Department of Pathology and Laboratory Medicine
- 1985 Outstanding Education Achievement Award, Strategic Airlift Command
- 1985 Alpha Sigma Lambda, Academic Honor Society, University of Maryland

AWARDS AND HONORS (cont.):

1984 Airman of The Quarter, Strategic Airlift Command
1984 Airman of The Quarter, Military Airlift Command
1982-1984 Dean's List, University of Maryland

RESEARCH EXPERIENCE:

2002- Present Clinical research in the field of solid organ transplantation.

Clinical Studies at DUMC Abdominal Organ Transplant Program, Co-Investigator:

IRB No. Pro00001584 Novartis AEB

A 12-month open-label, randomized, multicenter, sequential cohort, dose finding study to evaluate the efficacy, safety and tolerability of oral AEB071 versus tacrolimus in combination with myfortic, Simulect and corticosteroids in de novo adult renal transplant recipients Protocol No. CAEB071A2207 dated 2/16/07

IRB No. Pro00001767 DUMC Clinical Study

23-Hour-Stay Protocol for Laparoscopic Living Donor Nephrectomy

IRB No. Pro00002578 SQ Astellas

A Phase 2, Randomized, Open-Label, Parallel Group, Multicenter Study to Assess the Safety and Efficacy of Alefacept in de novo Kidney Transplant Recipients

IRB No. Pro00004663 Novartis Umbrella

A facilitated access program to provide Everolimus (RAD) for maintenance for patients completing therapy in RAD trials in solid organ transplantation

IRB No. Pro00006661 Raptiva

A Phase II/III, Randomized, Open-Label, Active Controlled, Multicenter Trial to Evaluate the Safety and efficacy of Efalizumab Compared with Cyclosporine, Both In Combination with Mycophenolate Mofetil and Corticosteroids, as an Immunosuppressant Regimen in De Novo Renal Transplantation ACD4230g 2/1/08

IRB No. Pro00006663 Raptiva DNA

DNA Repository Substudy in Association with Protocol ACD4230g: A Phase II/III, Randomized, Open-Label, Active Controlled, Multicenter Trial to Evaluate the Safety and efficacy of Efalizumab Compared with Cyclosporine, Both In Combination with Mycophenolate Mofetil and Corticosteroids, as an Immunosuppressant Regimen in De Novo Renal Transplantation ACD4230g 2/1/08

RESEARCH EXPERIENCE (Cont.):

IRB No. Pro00006664 Raptiva PK/PD

Pharmacokinetics/Pharmacodynamics Substudy in Association with Protocol ACD4230g: A Phase II/III, Randomized, Open-Label, Active Controlled, Multicenter Trial to Evaluate the Safety and efficacy of Efalizumab Compared with Cyclosporine, Both In Combination with Mycophenolate Mofetil and Corticosteroids, as an Immunosuppressant Regimen in De Novo Renal Transplantation ACD4230g 2/1/08

IRB No. Pro00006934 Certican RAD2309

A Phase IV, Randomized, Open-Label, Comparative, Multicenter Study to Assess the Safety and Efficacy of Induction Agents Alemtuzumab (Campath 1HO, Basiliximab (Simulect), or Rabbit Anti-Thymocyte Globulin (Thymoglobulin) in Combination with Tacrolimus

IRB No. Pro00007335 INTAC- Campath

A Phase IV, Randomized, Open-Label, Comparative, Multicenter Study to Assess the Safety and Efficacy of Induction Agents Alemtuzumab (Campath 1HO, Basiliximab (Simulect), or Rabbit Anti-Thymocyte Globulin (Thymoglobulin) in Combination with Tacrolimus (P

IRB No. Pro00007493 MRFK – Kidney

A Phase III, Randomized, Open-Label, Comparative, Multi-Center Study To Assess the Safety and Efficacy Of Prograf (Tacrolimus)/ MMF, Modified Release (MR) Tacrolimus/MMF and Neoral (Cyclosporine)/MMF in de Novo Kidney Transplant Recipients

- 1997-1999 Performed in vitro analyses on peripheral blood mononuclear cells from patients with a history of metastatic melanoma and renal cell cancer undergoing therapy with fms like tyrosine kinase 3 ligand (Flt3L) under the guidance of Steven A. Rosenberg, M.D, Ph.D., and Patrick Hwu, M.D. Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 1996-1997 Conducted clinical trials studying biologic therapy in the treatment of metastatic melanoma and renal cell cancer under the guidance of Steven A. Rosenberg, M.D,Ph.D. Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD.
- 1991-1993 Applied immunohistochemical techniques to the study of arteriovenous malformations under the guidance of Harry V. Vinters, M.D. UCLA School of Medicine, Department of Pathology and Laboratory Medicine.

RESEARCH EXPERIENCE (Cont.):

1988-1989 Compared cerebrovascular doppler and high resolution ultrasound studies with angiography and oculo-pneumoplethysmography under the guidance of Sergio Salles-Cunha, Ph.D., Non-invasive Vascular Laboratory, Saint Joseph's Medical Center, Burbank, CA

PUBLICATIONS:

Scarborough JE, Tuttle-Newhall JE, Pietrobon R, **Marroquin CE**, Collins BH, Desai DM, Kuo PC, Pappas TN. Supply and demand for liver transplant surgery: Are we training enough surgeons? *HPB (Oxford)*. 2008;10(1):

Scarborough JE, Pietrobon R, Tuttle-Newhall JE, **Marroquin CE**, Collins BH, Desai DM, Kuo PC, Pappas TN. Relationship between provider volume and outcomes for orthotopic liver transplantation. *J Gastrointest Surg*. 2008 Sep;12(9):1527-33. Epub 2008 Jul 9

Reddy SK, **Marroquin CE**, Kuo PC, Pappas TN, Clary BM. Extended hepatic resection for gallbladder cancer. *Am J Surg*. 2007 Sep;194(3):355

Reddy SK, Barbas AS, **Marroquin CE**, Morse MA, Kuo PC, Clary BM
Resection of noncolorectal nonneuroendocrine liver metastases: a comparative analysis. *J Am Coll Surg*. 2007 Mar;204(3):372-82.

Scarborough JE, Pietrobon R, **Marroquin CE**, Tuttle-Newhall JE, Kuo PC, Collins BH, Desai DM, Pappas TN. Temporal trends in early clinical outcomes and health care resource utilization for liver transplantation in the United States. *J Gastrointestinal Surg* 2007, 11(1): 82-88.

Wai PY, Mi Z, Gao C, Guo H, **Marroquin C**, Kuo PC.
Ets-1 and runx2 regulate transcription of a metastatic gene, osteopontin, in murine colorectal cancer cells. *J Biol Chem*. 2006 Jul 14;281(28):18973-82. Epub 2006 May

Novak JE, Butterly DW, Desai DM, **Marroquin CE**, Greenberg A.
Familial Hypocalciuric Hypercalcemia in the Donor and Recipient of a Living Related Donor Kidney Transplant. *Am J Transplant*. 2007 Jan 11

Schroeder RA, **Marroquin CE**, Bute BP, Khuri S, Henderson WG, Kuo PC.
Predictive indices of morbidity and mortality after liver resection. *Ann Surg*. 2006 Mar;243(3):373-9.

Marroquin CE, Kuo PC, Wai PY, Guo HT.
Redox-mediated upregulation of hepatocyte iNOS transcription requires coactivator PC4. *Surgery*. 2005 July;138(1):93-9.

PUBLICATIONS (Cont.):

Carlos E. Marroquin, Erick B. Edwards, Bradley H. Collins, Dev M. Desai, Janet E. Tuttle-Newhall, Paul C. Kuo. Half-Life Analysis of Pancreas and Kidney Transplants. *Transplantation*. 80(2):272-275, July 27, 2005.

Diane Bai², **Carlos E. Marroquin**¹, Alastair Smith², Betsy Tuttle¹, Dev Desai¹, Brad Collins¹, Paul Kuo¹, and Don C. Rockey² Gastrointestinal hemorrhage due to severe gastroduodenal ulcer disease in liver transplant patients taking sirolimus. *Clin Transplant*. 2005 Apr;19(2):250-4.

Bradley H. Collins¹, **Carlos E. Marroquin**¹, Janet E. Tuttle-Newhall¹, Paul C. Kuo¹, Glenn M. Preminger¹, and David W. Butterly² Acute kidney transplant failure following transurethral bladder polyp fulguration. *J Natl Med Assoc*. 2005 Mar; 97(3):414-6.

Wai PY, Mi Z, Guo H, Sarraf-Yazdi S, Gao C, Wei J, **Marroquin CE**, Clary B, Kuo PC. Osteopontin silencing by small interfering RNA suppresses in vitro and in vivo CT26 murine colon adenocarcinoma metastasis. *Carcinogenesis*. 2005 Apr;26(4):741-51. Epub 2005 Jan 20.

Guo H, **Marroquin CE**, Cai C, Kuo PC. Nitric oxide induces expression of the metastases protein, osteopontin, in HepG2 cells. *Dig Dis Sci* (in press)

Marroquin CE, Downey L, Kuo PC. Osteopontin (OPN) increases CD44 expression and cell adhesion in RAW264.7 murine leukemia cells. *Immunology Letters*, Vol. 95, No 1 pp 109-112, 2004

Gao C, Guo H, Downey L, **Marroquin C**, Wei J, Kuo PC. Osteopontin-dependent CD44v6 expression and cell adhesion in HepG2 cells. *Carcinogenesis*. 2003 Dec;24(12):1871-8. Epub 2003 Aug 29.

Schroeder RA, **Marroquin CE**, Kuo, PC
Tolerance and the "Holy Grail" of Transplantation
Journal of Surgical Research, Vol. 111, No. 1, May 2003:109-119

Carlos E. Marroquin, J. Elizabeth Tuttle-Newhall, Bradley H. Collins, Paul C. Kuo, Rebecca A. Schroeder. Emergencies following liver transplantation *Seminars in Gastrointestinal Diseases*, Vol.14, No 2 June, 2003:101-110

Marroquin, C.E., Westwood, J., Lapointe, R., Rosenberg, S.A., Hwu, P. "Mobilization of dendritic cell precursors in patients with cancer by Flt3 ligand allows the generation of higher yields of cultured dendritic cells." *Journal of Immunotherapy*, 2002 May-June;25 (3):278-88.

PUBLICATIONS (Cont.):

Marroquin C.E., Marino G, Rustgi V.K, Jeffrey S, Plotkin J.S, Edwards E, Kuo P.C, Johnson L.B. "Transplantation Of Hepatitis C-Positive Livers To Hepatitis C-Positive Recipients Is Equivalent To Transplanting Hepatitis C-Negative Livers"
Liver Transpl. 2001 Sep;7(9):762-8.

Marroquin C.E, White, D.E., Steinberg, S.M., Rosenberg, S.A., Schwartzenuber, D.J.
"Decreased Tolerance To Interleukin-2 With Repeated Courses Of Therapy In Patients With Metastatic Melanoma And Renal Cell Cancer"
Journal of Immunotherapy, 2000 May-Jun; 23 (3): 387-92

Greenway SE, Buckmire MA, **Marroquin C**, Jadon L, Rolandelli RH.
"Clinical Subtypes of Crohn's Disease According to Surgical Outcome."
Journal of Gastrointestinal Surgery 1999 Mar;3(2):145-151.

Johnson E.E, **Marroquin C.E**, Kossovsky N.
"Synovial Metallosis Resulting From Intra-articular IM Nailing of a Distal Femoral Nonunion." Journal of Orthopaedic Trauma, Vol. 7, No.4, 320-324.

Schweitzer J.S, Chang B.S, Madsen P, Vinuela F, Martin N.A,
Marroquin C.E, Vinters H.V. "The Pathology Of Encephalic Arteriovenous Malformations Treated By Prior Embolotherapy." Neuroradiology (1993) 35:468-474.

Rubino G.J, King W.A, Quinn B, **Marroquin C.E**, Verity M.A.
"Malignant Melanoma Of The Pineal Gland."
Neurosurgery, Vol. 33, No. 3:511-515, September 1993.

PUBLICATIONS (IN PREPARATION):

Carlos E. Marroquin¹, Bradley H. Collins¹, Dev M. Desai¹, Janet E. Tuttle-Newhall¹, Lehigh RW², Steven R. Smith², David W. Butterly², Arthur Greenberg², Paul C. Kuo¹, Nancy Reismoen³, DongFeng Chen³ "Reporting Unacceptable Antigens Improves Rate of Kidney Transplantation"
Am J Transplantation

Barbas A, Sweeney T, Collins, BH, Kuo, PC, Tuttle-Newhall, JE, **Marroquin, CE**
"Kidney-Pancreas Transplantation in The Setting of Donor Ethylene Glycol Poisoning"
Am J Transplantation

CHAPTERS IN BOOKS:

Hanisch SI, **Marroquin CE**, Kuo PC, Desai DM Laparoscopic Donor Nephrectomy in Pappas, Theodore N., [Harnisch, Michael P. Pryor, Aurora D.](#) (eds.) Atlas of Laparoscopic Surgery. Third Edition, Springer, New York

Marroquin CE, Collins BH, Tuttle-Newhall JE, Kuo PC. Adult cadaver liver transplantation. In Kuo PC, Dafoe D, Bollinger R, Davis RD. (eds.) Comprehensive Atlas of Organ Transplantation. Philadelphia, Lippincott, Williams and Wilkins, Aug. 2004

Marroquin CE, Kuo PC. Cadaver organ procurement- liver, kidney and pancreas. In Kuo PC, Dafoe D, Bollinger R, Davis RD. (eds.) Comprehensive Atlas of Organ Transplantation. Philadelphia, Lippincott, Williams and Wilkins, Aug. 2004

BOOKS:

Carlos E. Marroquin, MD (Author and Editor) & J. Elizabeth Tuttle-Newhall, MD Duke University Handbook of Transplantation
Duke University Web-based Text, 1st Edition

ABSTRACTS:

Matt T Harris, PharmD¹, Erin L McCann, PharmD, Dev M Desai, MD², Brad H Collins, MD², **Carlos E Marroquin, MD²**, Janet E Tuttle-Newhall, MD², Paul C Kuo, MD². Two-Dose Daclizumab vs Two-Dose Basiliximab in High Risk Kidney and Kidney-Pancreas Transplant. Poster @ American Transplant Congress 2007

Matt T Harris, PharmD¹, Pat L Holt¹, Kyla M Bennett, MD², Brad H Collins, MD², **Carlos E Marroquin, MD²**, John E Scarborough, MD², Janet E Tuttle-Newhall, MD², Paul C Kuo, MD² and Dev M Desai, MD². Intra-Operative Aprotinin in Liver Transplant and Renal dysfunction. Poster @ American Transplant Congress 2007

Carlos E. Marroquin¹, Bradley H. Collins¹, Dev M. Desai¹, Janet E. Tuttle-Newhall¹, Paul C. Kuo¹, Nancy Reismoen². Reporting Unacceptable Antigens Improves Rate of Kidney Transplantation. Poster @ World Transplant Congress 2006

Marroquin CE, Guo H, Kuo PC. REDOX Mediated Upregulation Of Hepatocyte iNOS Transcription Requires CO-activator PC4. Presentation @ Society of University Surgeons 2005

Bradley H. Collins, **Carlos E. Marroquin**, Janet E. Tuttle-Newhall, Dev M. Desai, Stephen R. Smith, David W. Butterly, R. Randall Bollinger, Paul C. Kuo. The Management Of End Stage Renal Disease In The Recipients of Extrarenal Transplants. Presentation @ the American Transplant Congress May 2004

ABSTRACTS (Cont.):

Marroquin CE, Downey L, Kuo PC. Osteopontin (OPN) increases CD44 expression and cell adhesion in RAW264.7 murine leukemia cells. Presentation @ Society of University Surgeons 2004

Carlos E. Marroquin, M.D., Bradley H. Collins, M.D., Paul C. Kuo, M.D., Janet E. Tuttle-Newhall, M.D. Splenic Artery Steal Syndrome after orthotopic liver transplant. Poster @ the American Transplant Congress Dec.2002

Vinod Rustgi, **Carlos E. Marroquin**, Lynt Johnson, Christine Tolleris Hepatitis C Positive Liver Transplant Recipients With Hepatitis C Positive Donors have decreased likelihood of graft failure Presented at American Association for the Study of Liver Diseases 2002

Marino G, Rustgi V.K, **Marroquin C**, Plotkin J.S, Kuo P.C, Lu A, Johnson L.B. Early Recurrence of Hepatitis C After Liver Transplantation With IL-2 Inhibitors Presentation Transplant 2001 Joint Meeting

Marroquin, C.E., Lapointe, R., Rosenberg, S.A., Hwu, P.
“Subcutaneous administration of Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation in patients with metastatic melanoma and renal cell cancer” Hufnagel Research Presentation
Abstract submitted and accepted for presentation June 1999

Marroquin, C.E., Lapointe, R., Rosenberg, S.A., Hwu, P.
Keystone Symposia Conference on Tolerance and Autoimmunity
Subcutaneous administration of Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation Abstract submitted to 1999 Keystone
Accepted for poster presentation January 1999.

Marroquin, C.E., Lapointe, R., Mixon, A., Rosenberg, S.A., Hwu, P.
“Subcutaneous Administration Of Flt3 Ligand Increases Circulating Dendritic Cells Capable Of Stimulating T Cell Proliferation”
Accepted for presentation; National Institutes of Health Immunology Retreat 1998

RejeanLapointe, **Carlos E.Marroquin**, Ivy Altomare, Steven A. Rosenberg, and Patrick Hwu “CD40-stimulated B lymphocytes as APC in tumor immunology”
Accepted for presentation; National Institutes of Health Immunology Retreat 1998

Marroquin, C.E, White,D.E, Steinberg, S.M, Rosenberg, S.A, Schwartzentruber, D.J.
"Patient Tolerance To Interleukin-2 With Repeated Courses Of Therapy"
American Society Of Clinical Oncology 1998 Meeting, Submitted December 1997

PRESENTATIONS:

- 2008 Georgetown University Department of Surgery
Department of Surgery Third Bi-ennial Alumni Day
- Pulmonary Protection Following Lung Transplant
- 2008 Society of National Medical Association
- Invited Speaker
- 2008 Duke University Gastro-Intestinal Grand Rounds
- Emergencies After Liver Transplant
- 2008 Duke University Department of Surgery, Baron's Dinner
- Invited Speaker
- 2007 Duke University Speech and Audiology Grand Rounds
- Pulmonary Protection of Nissen Fundoplication
- 2006 Visiting Professor, UMDNJ-RWJMS Cooper University Hospital
- Transplantation Vs. Resection of Hepatocellular Carcinoma
- 2006 92nd Annual American College of Surgeons Clinical Congress
- Nissen Fundoplication Provides Pulmonary Protection Following Bilateral Lung Transplantation
- 2006 Laparoscopic Liver Resection Workshop,
Duke University Medical Center
- Laparoscopic Parenchymal Dissection
- 2005 Visiting Professor, New Hanover Medical Center, Wilmington, NC
- Management of Hepatic Colorectal Cancer Metastasis
- 2005 Society of University Surgeons, Nashville, TN
- REDOX Mediated Upregulation Of Hepatocyte iNOS Transcription Requires CO-activator PC4
- 2004 Society of University Surgeons, St. Louis, MI
- Osteopontin (OPN) increases CD44 expression and cell adhesionin RAW264.7 murine leukemia cells
- 2004 Duke University Department of Surgery Grand Rounds
- Optimizing Allograft Utilization

PRESENTATIONS (Cont.):

- 2003 Transplant Academia, Duke University Medical Center
- Transplantation Of Hepatitis C-Positive Livers To Hepatitis C-Positive Recipients Is Equivalent To Transplanting Hepatitis C-Negative Livers
 - Splenic Artery Steal Syndrome after orthotopic liver transplant
 - Liver Transplantation
- 2002 Georgetown University Obstetrics & Gynecology Grand Rounds
- Abdominal Emergencies In The Cancer Patient
- 2002 Surgical Resident's Competitive Forum,
- Metropolitan Washington Chapter, American College of Surgeons Washington Academy of Surgery *"Transplantation Of Hepatitis C Positive Livers To Hepatitis C-Positive Recipients Is Equivalent To Transplanting Hepatitis C-Negative Livers"*
- First Prize, Clinical Research**
- 1999 Hufnagel Research Presentation
- Subcutaneous administration of Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation in patients with metastatic melanoma and renal cell cancer
Abstract submitted and accepted for presentation June 1999
- 1999 Immunotherapy of Cancer V
Satellite meeting of American Association for Cancer Research
- "Subcutaneous administration of Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation"
- 1999 Keystone Symposia Conference on Tolerance and Autoimmunity
- Subcutaneous administration of Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation
- 1998 National Institutes of Health Immunology Interest Group Retreat
- Subcutaneous Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation
- 1998 Georgetown University Basic Science Conference
- Subcutaneous Flt3 ligand increases circulating dendritic cells capable of stimulating T cell proliferation

PRESENTATIONS (Cont.):

- 1995-2000 Georgetown University, General Surgery Grand Rounds
- Abdominal Emergencies In The Cancer Patient
 - Hypercalcemic Crisis
 - Surgical Management of Melanoma
 - IL-2 Tolerance
 - Choledochal Cysts
 - Management of Splenic Lacerations
- 1993-1994 UCLA/DREW Primary Care Lecture Seminar
- Epstein-Barr Virus Infection and Complications
 - Sjogren's Syndrome
- 1991-1992 Post-Sophomore Fellow, UCLA School of Medicine
Department of Pathology and Laboratory Medicine
- Breast Cancer; Grading and Staging for Residents
 - Normal Anatomy for Radiology Technical Students
 - T-Cell Differentiation for Medical Technical Students
 - Hepatitis for Medical Technical Students
 - Brain Dissection Conference Autopsy Conference
- 1990 Basic Science Tutor, UCLA School of Medicine
Pre-Medical Summer Enrichment Program
- 1987-1989 Chemistry tutor, California State University, Northridge
Minority Achievers in Science

WORK EXPERIENCE:

- 2005 – Present Assistant Professor, Department of Surgery
Duke University Medical Center
- 2004-2005 Clinical Associate, Department of Surgery
Duke University Medical Center
- 2002-2004 Abdominal Organ Transplant Fellow
Duke University Medical Center
- 1999-2002 General Surgery Residency, Georgetown University
- 1997-1999 Surgical Oncology Fellow, Surgery Branch
National Cancer Institute, National Institutes of Health
- 1996-1997 Immunotherapy Fellow, Surgery Branch
National Cancer Institute, National Institutes of Health

WORK EXPERIENCE (Cont.):

1994-1996 General Surgery Residency, Georgetown University

1993-1994 Clinical Preceptorship Coordinator, UCLA School Of Medicine
Pre-Medical Summer Enrichment Program

1993-1994 Research Preceptorship Coordinator, UCLA School of Medicine
Minority High School Research Apprenticeship Program

1991-1992 Post-Sophomore Fellow in Pathology, UCLA School of Medicine
Department of Pathology and Laboratory Medicine

1990 Tutor/Program Counselor, UCLA School of Medicine
Pre-Medical Summer Enrichment Program

1988-1989 Non-Invasive Vascular Laboratory Technician
Cerebrovascular and peripheral vascular studies
Saint Joseph Medical Center, Burbank, California

1986-1989 Laboratory Technician (Phlebotomy)
Saint Joseph Medical Center, Burbank, California

1981-1985 WC-130 Aircraft Crew Chief/WC-130 Branch Production
Manager, United States Air Force, Honorable Discharge July 1985

MILITARY EXPERIENCE:

1999-Present United States Army Reserve Medical Corps-Honorable Discharge

1996-1999 United States Public Health Service-Honorable Discharge

1985-1987 United States Air Force-Inactive Reserve-Honorable Discharge

1981-1985 United States Air Force-Active Duty-Honorable Discharge

SOCIETY MEMBERSHIPS:

2008 – Present American College of Surgeons, Fellow

2007- Present Association for Surgical education

2007-Present Association for Academic Surgery

2004-2008 American College of Surgeons, Associate Member

SOCIETY MEMBERSHIPS (Cont.):

2003-Present	North Carolina Medical Society
2002-Present	American Medical Association
2002-Present	Alpha Omega Alpha, Medical Honor Society
2000-Present	American Society of Transplantation
1999-2004	United States Army Reserve Medical Corps
1997-2002	Member, Washington Area Critical Care Society Washington D.C. Chapter, Society of Critical Care Medicine
1994-2004	American College of Surgeons, Resident member
1989-1994	Student Member, American Medical Association
1989-1994	Medical Student Member, Chicano Medical Student Association UCLA/DREW Chapter
1985	Honorary Member, Air Force Sergeant's Association

COMMUNITY AND AVOCATIONAL ACTIVITIES:

2007	Health Occupations Students of America, The Duke Experience
2007	Summer Medical and Dental Enrichment Program
1996-Present	National Hispanic Health Coalition
1993-1994	Committee Member, South Central Youth Congress
1990-1992	Tutor, I Have A Dream Foundation, UCLA School of Medicine
1987-1989	Chemistry Tutor, Minority Achievers in Science California State University