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Welcome to Duke! That you have chosen to dedicate your time to visit Duke and consider our program for your residency training indicates you are seeking a high-caliber experience that will prepare you for a rewarding career in academic surgery. That you have been selected for an interview should provide affirmation you have the capacity to excel in surgery, and both derive benefit from and contribute to the field. I am thus very glad that you are here, and hope that your visit will help you determine whether Duke is the best fit for you. Your choice of training program will define your career, and indeed, our choice of residents defines our institution. As such, this is an important decision for us both.

During your visit to Duke, you will have an opportunity to meet our residents and faculty, tour our facilities, and gain insights into our training philosophy. You will no doubt find both breadth and depth in the resources available to you; including state-of-the-art clinical operating and patient care facilities, comprehensive training and simulation venues; a well-organized, enthusiastic and dedicated educational faculty engaged in a comprehensive didactic curriculum; and an exceptionally developed and well-funded surgical research enterprise embedded within the larger environment of a world-class research university. The comprehensive offering of clinical, educational, and research platforms organized within a single institution makes Duke among the few institutions that can deliver on the promise to create future leaders in surgery, and it is my personal commitment to offer each trainee the opportunity to go beyond mere assimilation of the current standard, and aspire to define future paradigms.

I genuinely look forward to meeting each of you, learning what contribution you hope to make to the field of surgery, and determining how I can help you reach your career goals.

Sincerely,

Allan D. Kirk, M.D., Ph.D., F.A.C.S.
David C. Sabiston, Jr. Distinguished Professor and Chairman
Department of Surgery
Duke University School of Medicine
Surgeon-in-Chief
Duke University Health System
Message from the Residency Program Director

I would like to welcome you on behalf of the Duke Department of Surgery and I am grateful for your interest in our General Surgery Residency Program. The decision on where to train in surgery represents the most important decision in the trajectory of a surgeon’s career. Formal clinical training as well as research into basic or translational medicine will predict success in obtaining competitive fellowships and academic positions.

The Department of Surgery at Duke’s primary goal is to provide an outstanding clinical and investigative program for students, residents, and faculty. The clinical training program in general surgery is dedicated to providing comprehensive training in patient care and operative surgery. This encompasses the entire breadth of core general surgery and the general surgery subspecialties, which includes cardiothoracic, abdominal transplant, oncology, vascular, endocrine, colorectal, trauma, and pediatric surgery. The Duke General Surgery Residency Program offers diverse clinical settings for training and includes operative experiences at Duke University, Duke Raleigh, Duke Regional, and the Asheville/Durham Veteran’s Administration hospitals.

We have developed an exemplary and well-rounded educational program for residents in training. Formalized meetings include weekly conferences such as Grand Rounds, Deaths & Complications Conference, Chairman’s Rounds, and the Chief Resident Conference, which provide a curriculum geared toward both formal and self-directed learning. We also have integrated into the educational program a world-class simulation curriculum housed in the American College of Surgeons-accredited Simulation and Educational Activities Lab (SEAL) located in the medical school. Our simulation activities encompass the entire gamut of modalities including video/box trainers, fresh-tissue preparations, live animal studies, and cadaver experiences.

The cornerstone of the General Surgery Residency at Duke is the two-year research fellowship, typically integrated between the second and third clinical years. During these two years, our surgical residents begin a dedicated investigative experience designed to give each resident an opportunity to develop granular expertise in an area of their choosing. These can include basic or translational science projects, experiences in health services or clinical outcomes research, studies in global medicine, or indeed any thoughtfully conceived knowledge creation endeavor. Innumerable basic science opportunities exist not only in the Department of Surgery, but also across both the graduate and undergraduate campuses. There are also multiple dual-degree opportunities obtained via the Duke Clinical Research Training Program, the Fuqua School of Business, and the Duke Clinical Research Institute. The goal of this research experience is to create thought leaders in academic surgery at both an institutional and national level, and to provide each Duke resident with a concentrated expertise in their chosen field.
You should consider a number of factors when choosing a residency program and clearly one of the most important is the track record of the recent graduates. The training program is intentionally broad-based and has produced graduates with a wide variety of clinical and research interests. As you will find in the summaries enclosed, our graduates obtain access to the most highly sought-after academic jobs and specialty training fellowship programs, and make up a significant number of the chairs, chiefs, and program directors nationwide.

We are proud of our program and achievements, and we are honored that accomplished medical students like you have expressed interested in our residency. I hope that over the course of your interview experience you come away as excited as I am about our programs. We encourage questions and hope you enjoy your visit.

Sincerely yours,

John Migaly, MD
Program Director
General Surgery Residency
About the Duke Department of Surgery

As one of the top surgery programs in the world, the Duke Department of Surgery is dedicated to providing unparalleled clinical care, conducting pioneering research, and training the next generation of leaders in clinical and academic surgery. Patients from all over the world seek treatment from its team of experts, who have access to the clinical standard in all surgical domains, as well as experimental procedures and specialized care that extends beyond the current offerings of most hospitals. This provides the best opportunity for each patient to gain their best clinical outcome, and as such attracts a patient population representing an exceptionally broad clinical spectrum from which the trainee can learn.

Since the 1930s, Duke Surgery has led the way in medical innovations. It established the nation’s first brain tumor program in 1937 and was one of the first U.S. institutions to successfully perform a kidney transplant nearly 30 years later. Duke surgeons were the first to treat avascular necrosis of the femoral head with a free vascularized fibular graft. More recently, in 2013, surgeons implanted a bioengineered vascular graft in a patient — a first-of-its-kind operation in the United States.

The Department of Surgery’s internationally recognized faculty is focused on making gains in basic, clinical, and translational research, and it has traditionally received more NIH funding than any other surgery department in the world. The faculty is also deeply committed to preparing tomorrow’s leaders for careers in surgery with the highest level of training and access to unique research and leadership training opportunities.

The Department currently provides attending surgical coverage at Duke University Hospital, Duke Regional Hospital, Duke Raleigh Hospital, and two VA hospitals: Asheville VA and Durham VA hospitals. The faculty maintains an exceptionally busy practice, conducting over 30,000 operative procedures per year. As the Triangle area is perennially one of the fastest growing communities in the United States, Duke continues to expand with new operative platforms and a growing clinical and research faculty. This robust clinical volume combined with remarkably competitive faculty members adept in acquiring grant funding has led to a fiscally solvent department. It is this solvency that allows the Department to continue its unwavering dedication to residency training both on the wards and in the laboratory.
Duke University Medical Center History

1891
Trinity College President John Franklin Crowell makes public a plan for starting a medical college with a teaching hospital at Trinity College.

1924
James B. Duke establishes The Duke Endowment and allocates part of his $40 million gift to transform Durham's Trinity College into Duke University.

1925
James B. Duke makes an additional bequest to establish the Duke School of Medicine, Duke School of Nursing, and Duke Hospital, with the goal of improving health care in the Carolinas and nationwide.

1927
Construction begins on the medical school and Duke Hospital.

1929
Three thousand applicants apply to the new medical school. Seventy first- and third-year students are selected, including four women.
Duke University Medical Center History (continued)

1930
Duke Hospital opens July 20, 1930, attracting 25,000 visitors.
Classes begin in hospital administration, dietetics, and medical technology on August 15.
Eighteen third-year and 30 first-year medical students begin classes on October 2.

1931
The Duke School of Nursing’s first class of 24 undergraduate students begin classes on January 2.
The dedication ceremony for Duke Medical School and Duke Hospital is held on April 20.
The Private Diagnostic Clinic, Duke’s physician practice organization, is organized September 15.

1940
The first wing is added to Duke Hospital.
The 65th General Hospital is authorized as an affiliated unit of the Duke University School of Medicine on October 17.

1957
The Outpatient Clinic and Private Diagnostic Clinic as well as the Hanes and Reed private floors and operating rooms are opened.
The original medical school and hospital are renamed Duke University Medical Center.
1966
A new hospital entrance, the Woodhall Building, opens.

1980
The new $94.5 million, 616-bed Duke Hospital opens, bringing the total number of patient beds to more than 1,000.

1998
The Duke University Health System (DUHS)—an integrated academic health care system serving a broad area of central North Carolina—is officially created as Duke establishes partnerships with Duke Regional Hospital, Raleigh Community Hospital, and other regional health care providers. DUHS today includes three hospitals, ambulatory care and surgery clinics, primary care medical practice clinics, home health services, hospice services, physician practice affiliations, managed care providers, and other related facilities and services.

2007
Future DUHS expansion includes the development of the Hospital Addition for Surgery (HAFS) building.

The Emergency Department (ED) Expansion project provides 71 treatment spaces accommodating over 60,000 annual visits, including a full Pediatric ED, 4 trauma resuscitation rooms, CT scanner, X-ray, decontamination area, ambulance garage, a daylit waiting area, and a linear exam area arrangement for increased efficiency.

2009
DUHS moves forward with the construction of a dedicated, state-of-the-art cancer center and the new Duke Medicine Pavilion, a major expansion of surgery and critical care services at Duke University Hospital.
Duke University Medical Center History (continued)

2012
On February 27, a new landmark opens its doors on Duke’s medical center campus—the seven-story, 267,000-square-foot Duke Cancer Center. More than just a modern space, it’s an environment designed to transform the experience of every patient welcomed inside. The center consolidates outpatient cancer services and clinical research from across the campus into a patient-centered, multidisciplinary facility. The building adjoins the current Morris Cancer Clinic and is equipped with, among other features, 140 examination rooms, 75 infusion stations, a pharmacy, and an outdoor garden terrace where chemotherapy patients can go while receiving their infusions.

2013
The Mary Duke Biddle Trent Semans Center for Health Education opens in January. The six-floor, 104,000-square foot building houses a meeting hall, a team-based learning auditorium, teaching labs, and clinical skills and medical simulation space, including the Surgical Education and Activities Lab (SEAL).
The Duke Medicine Pavilion at Duke University Hospital opens in June. The eight-floor, 608,000-square foot pavilion includes 160 critical care rooms, 18 operating rooms, and an imaging suite. The operating suites feature the latest in surgical technologies, as well as intraoperative magnetic resonance and computed tomography (CT) imaging capabilities that enable greater real-time precision and safety in complex procedures. With Duke University Hospital having to turn more than 900 patients away the previous year due to lack of space, the newly created critical care beds were urgently needed. Also, the 64 new intermediate care beds allow for optimal transition of patients from intensive care beds to standard hospital rooms.

The expanded Duke clinical facilities also provide state-of-the-art training and education for the nearly 900 residents and fellows at Duke—one of the largest training programs in the United States.

This major expansion project follows several recent significant capital projects throughout Duke Medicine, including renovations at Duke Raleigh Hospital and Duke Regional Hospital, and the opening of several new clinics in Wake County (Brier Creek, Morrisville, Knightdale, and North Raleigh).

2016
Duke University begins construction of a third Medical Sciences Research Building (MSRB). The $103 million, 155,000-square-foot building will exclusively house bench lab research.
Duke Surgery Milestones

Blazing Trails in Medicine for More Than Seven Decades

1936  J. Deryl Hart, MD, introduces ultraviolet lamps into operating rooms to kill airborne germs that cause postoperative Staph infections, dramatically reducing the number of infections and related deaths.

1937  Duke establishes nation's first brain tumor program.

1955  Duke initiates children's amputation clinic for prostheses and management as part of nationwide network.

1956  Duke becomes the first institution to use systemic hypothermia during cardiac surgery. This technique of cooling patients to less than 50 degrees Fahrenheit to minimize tissue damage during lengthy surgical procedures is now standard practice worldwide.

J. DERYL HART AND SURGICAL TEAM IN PROTECTIVE CLOTHING OPERATING ON A PATIENT UNDER THE STERILAMP IN 1937 (DUMC ARCHIVES)

OPEN HEART SURGERY, DR. WILL CAMP SEALY OPERATING, CIRCA 1956 (DUMC ARCHIVES)
### Duke Surgery Milestones (continued)

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>1965</td>
<td>Duke is one of the first institutions in the country to successfully perform a kidney transplant.</td>
</tr>
<tr>
<td>1968</td>
<td>Duke cardiac surgeon performs first operation to treat Wolf-Parkinson-White Syndrome.</td>
</tr>
<tr>
<td>1969</td>
<td>Duke orthopaedic surgeon performs first total hip replacement in the South.</td>
</tr>
<tr>
<td>1971</td>
<td>Duke Comprehensive Cancer Center becomes one of the nation's first cancer centers.</td>
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<tr>
<td>1972</td>
<td>Duke surgeons are the first to reattach a severed thumb more than eight hours after it was amputated.</td>
</tr>
<tr>
<td>1979</td>
<td>Duke surgeons are the first to treat avascular necrosis (AVN) of the femoral head with free vascularized fibular graft.</td>
</tr>
<tr>
<td>1982</td>
<td>Duke conducts first and only randomized trial comparing radical surgery to radiation for adenocarcinoma of the prostate gland.</td>
</tr>
<tr>
<td>1984</td>
<td>Duke surgeons perform first liver transplant in the state of North Carolina.</td>
</tr>
<tr>
<td>1992</td>
<td>Duke physicians perform the first lung transplant and the first heart/lung transplant in hospital history.</td>
</tr>
<tr>
<td>1993</td>
<td>The anti-HIV drug therapy (Fuzeon) is developed by Trimeris as a direct result of research conducted in the Duke Surgical Oncology Labs. Duke Endosurgery Center opens.</td>
</tr>
</tbody>
</table>
Duke Surgery Milestones (continued)

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>Duke Human Fresh Tissue Lab opens.</td>
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<tr>
<td>2004</td>
<td>Duke Center for Translational Research is established.</td>
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</tbody>
</table>
Duke Surgery Milestones (continued)

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>Duke Thoracic Surgery and Duke Urology specialty clinics open in Raleigh, NC. Duke Weight Loss Surgery Center is designated as a Center of Excellence by the American Society of Bariatric Surgery.</td>
</tr>
<tr>
<td>2007</td>
<td>Duke Otolaryngology — Head and Neck specialty clinic opens in Raleigh, NC.</td>
</tr>
<tr>
<td>2008</td>
<td>Duke's Surgical Education and Activities Lab receives accreditation by the American College of Surgeons as Comprehensive Education Institute.</td>
</tr>
<tr>
<td>2011</td>
<td>Duke Neurosurgery specialty clinic opens in Raleigh, NC.</td>
</tr>
<tr>
<td>2012</td>
<td>Surgical Education and Activities Lab receives first in state robotic trainer.</td>
</tr>
<tr>
<td>2013</td>
<td>Duke surgeons begin first ever clinical trial with bioengineered blood vessel.</td>
</tr>
<tr>
<td>2014</td>
<td>Duke Heart Transplant team performs the 1000th heart transplant at Duke.</td>
</tr>
<tr>
<td>2015</td>
<td>Duke pediatric surgeons separate conjoined twins.</td>
</tr>
<tr>
<td>2016</td>
<td>Duke surgeons perform the first hand transplant in North Carolina.</td>
</tr>
</tbody>
</table>

DUKE'S FIRST HAND TRANSPLANT WAS PERFORMED ON MAY 27, 2016 (CREDIT: SHAWN ROCCO)
ABOUT THE
DUKE DEPARTMENT
OF SURGERY

Duke Surgery Department Chairs

A Tradition of Excellence
The rich history and high standards that bore Duke University are also deeply rooted within the Department of Surgery.

Duke Hospital’s first dean, Dr. Wilburt Davison, appointed a Johns Hopkins surgeon, Dr. J. Deryl Hart, to be professor of surgery and the first chairman of the department in 1930. After stepping down as chairman in 1960, Dr. Hart served as president of Duke University. During his tenure as chairman, Dr. Hart expected faculty members to assume major clinical and teaching responsibilities and to pursue laboratory research. He recruited the founding members of the surgical faculty and established Duke’s surgery residency. Dr. Hart is also credited with originating the use of ultraviolet radiation to control airborne infections in surgical operating rooms.
The emphasis Dr. Hart placed on achieving excellence in patient care and teaching by integrating research with development laid the foundation for an institution that remains one of the top medical centers in the country. His philosophy was central to the department’s mission in 1930 and continues today. Under the leadership of the successive chairs — Drs. Clarence E. Gardner (1960-1964), David C. Sabiston, Jr. (1964-1994), Robert W. Anderson (1994-2003), Danny O. Jacobs, (2003-2012), and Allan D. Kirk (2014- present) — the model system of integrating the fundamental missions of academic medical centers (patient care, education, research, and administration) was enhanced within the Department of Surgery at Duke. Dr. Gardner was Dr. Hart’s first chief resident and continued on as a Duke faculty member after completing his surgical training.

Dr. David C. Sabiston, Jr. completed medical school and surgical training at Johns Hopkins Hospital under the mentorship of Dr. Alfred Blalock. He distinguished himself in the field of cardiovascular diseases. Notable among his academic achievements were his pioneering work in the surgical management of coronary artery disease and, while at Duke, groundbreaking work in the diagnosis and management of pulmonary embolism. Dr. Sabiston will be remembered most for his profound effect on surgical education, both nationally and internationally. This is most evident when reviewing the list of successful graduates who have gone on to lead departments, divisions, and programs and whose portraits adorn the hallways outside of the department offices.

Dr. Robert W. Anderson followed Dr. Sabiston as chairman and returned to the site of his surgical training. Social and economic influences were rapidly altering academic medicine in 1994. Dr. Anderson, an accomplished cardiothoracic surgeon with additional training in business administration, successfully led a department seeded as the epitome of traditional education and training, research, and clinical excellence while addressing the major changes in practice reimbursement that had occurred. This leadership solidified Duke's fiscal stature and has facilitated a continued dedication to a tripartite mission of clinical, educational, and investigational achievement.
Dr. Danny Jacobs was recruited to Duke in 2003, where he served as the David C. Sabiston, Jr. professor and chair until October 2012. Dr. Jacobs currently is the executive vice president, provost, and dean of the School of Medicine at the University of Texas Medical Campus in Galveston. During his 10 years at Duke, Dr. Jacobs proved himself to be a highly effective leader, committed to the success of all three missions within the Department of Surgery. He left Duke in a good position for his successor to continue the legacy of excellence that is Duke Surgery.

Dr. Allan D. Kirk was named chair of the Department of Surgery at Duke University in May 2014. He also was named as the inaugural Surgeon-in-Chief for the Duke University Health System. Dr. Kirk received his MD from Duke University School of Medicine in 1987 and completed his PhD in immunology at Duke in 1992. He completed his general surgery residency at Duke in 1995, and his multiorgan transplant fellowship at the University of Wisconsin in 1997. An accomplished scientist and surgeon, Dr. Kirk is recognized by his peers for his pioneering work in transplantation and for his outstanding ability to lead. Prior to returning to Duke, he served as a Commander in the United States Navy at the Naval Medical Research Institute, became the inaugural Chief of the Transplantation branch at the National Institutes of Health, and served as Vice Chair for Research for the Department of Surgery at Emory University. His commitment to rigorous education and training, innovative research, and the most advanced patient care make him an excellent leader for Duke Surgery.
Facilities

The Department of Surgery’s residency program gives students the opportunity to gain hands-on experience providing care for diverse populations and treating a wide range of conditions. With five world-class facilities, surgical residents can take advantage of valuable training opportunities, from pediatric through geriatric procedures, including comprehensive experiences in hepatobiliary surgery, transplantation, vascular surgery, and advanced laparoscopic procedures. The program includes experience in community and VA-based care, which is crucial for surgeons interested in academic careers. Residents become equipped with the knowledge and skills needed to be competitive in the workforce.

**Duke University Hospital (DUH)**

Consistently ranked as one of the top ten hospitals by *U.S. News & World Report*, the 989-bed Duke University Hospital is a tertiary and quaternary care hospital and Level I trauma center. On its 210 acres, it houses comprehensive diagnostic and therapeutic facilities that serve a multistate region, drawing patients routinely from the Carolinas, eastern Tennessee, southern Virginia, Georgia, and Florida. Many of its programs also attract patients from other national and international sites. The main hospital is complemented by a state-of-the-art ambulatory surgery center situated two blocks away. Recent additions to Duke Hospital continue to add operative capacity and the patient volume continues to grow, consistent with the booming population moving to the Triangle area.

**Duke Regional Hospital (DRH)**

DRH is a 369-bed acute care hospital that has been serving the community’s health care needs since 1976. A comprehensive facility, it offers Duke surgical residents experience in inpatient, outpatient, surgical, and emergency care. The medical facility also features a level II intensive care nursery, the 30-bed Durham Regional Rehabilitation Institute, and the Davis Ambulatory Surgical Center. It also has a nine-bed coronary care unit and a 17-bed intensive care unit. Other training opportunities include the highly acclaimed Duke Bariatric Surgery and Advanced Laparoscopic programs.
Facilities (continued)

**Durham Veterans Administration Hospital (DVAMC)**
This 274-bed general medical and surgical facility is located just across the street from Duke Hospital. The DVAMC provides general and specialty medical, surgical, psychiatric inpatient, and ambulatory services and is a major referral center for veterans in North Carolina, southern Virginia, northern South Carolina, and eastern Tennessee. In this capacity, the DVAMC accommodates veterans from these regions with complex general, vascular, and cardiothoracic needs and, in addition, serves local veterans requiring care for common general surgical disorders.

**Asheville Veterans Administration Hospital (AVAH)**
The Asheville VA Medical Center is a tertiary care, 112-bed acute care facility located in western North Carolina. Asheville VA operates a separate 120-bed Extended Care and Rehabilitation Center, serving the western North Carolina area and portions of South Carolina, Tennessee, and Georgia. General surgical residents rotating through AVAH gain additional experience in vascular surgery, general surgery, cardiac surgery, and endoscopy.

**Duke Raleigh Hospital (DRaH)**
This is a 148-bed general medical and surgical hospital in Raleigh. The Duke Raleigh rotation provides residents with a community-based general surgery experience that includes what would be considered “bread and butter” general surgery, such as cholecystectomy, hernia, breast biopsy, mastectomy, and colectomy. It is currently expanding to include a comprehensive weight management program and enhanced general surgical oncology.
Duke Medicine and Duke University

With a top-ranked medical school, health system, and university, Duke University is a hub for academic excellence and innovation. Located in Durham, N.C. — one of the fastest growing areas in the country and a center of biomedical research — it produces leaders in fields ranging from business to engineering to public policy. Duke Medicine, which comprises Duke University Health System, Duke University School of Medicine, and Duke University School of Nursing, consistently ranks as one of U.S. News & World Report's best medical centers.

Duke Medicine is an international leader in health care, research, and training. Its state-of-the-art facilities include the flagship Duke Hospital and two community hospitals, Durham Regional and Duke Raleigh. It’s also affiliated with other health care facilities, including local hospitals, community-based primary care physician practices, and hospice care. The School of Medicine has 31 departments, centers, and institutes, and employs more than 2,000 faculty members. Duke logs more than 61,000 inpatient stays and 1.8 million outpatient visits each year.

Duke Medicine offers world-class education for some of the brightest minds in medicine. Programs promote multidisciplinary collaboration between basic science, translational, and clinical faculty. Trainees are encouraged to pursue research in their area of interest and, upon graduation, are uniquely positioned for sought-after clinical or research positions.
Durham, North Carolina

Located halfway between the stunning Blue Ridge Mountains and the spotless beaches of the Outer Banks, Durham is the fourth largest municipality in North Carolina. Visitors come to Durham for its sports teams, eclectic restaurants, and diverse culture; residents live here for its reasonable cost of living, strong sense of community, and agreeable weather. From Forbes to USA Today, the Raleigh-Durham area consistently lands on the major top 10 lists of best places in the country to visit, live, and do business.

Durham has the charm of a Southern college town with the amenities of a larger city. The nearby Research Triangle Park, the largest research park in the country, is a wellspring of advancements and career opportunities in biotechnology, environmental sciences, and pharmaceuticals. The annual Full Frame Documentary Film Festival brings together people from all over the world to showcase the work of new and established filmmakers. With more than 60 parks, an extensive network of running and biking trails, and several major waterways, the city offers abundant activities for outdoors enthusiasts. Access to and from Durham is convenient, as the RDU airport just 12 miles outside the city.
Community Engagement

**General Surgery Interest Group**
The Duke Department of Surgery sponsors the General Surgery Interest Group, a student-run organization that allows students to learn more about careers in general surgery through information sessions, case discussions, hands-on experiences, and professional mentorship facilitated by student-resident partnerships.

**ASSET Program**
The Department of Surgery has partnered with the Durham Nativity School to provide surgical skills workshops as part of the Academic Success Through Surgical Education and Training (ASSET) program. This program aims to foster high achievement in science through surgical education for financially disadvantaged students at the school.

**Duke Cycling Team**
The Department of Surgery sponsors the Duke University Cycling Team coached by Ben Turits. The triangle area is an exceptional area for cycling and outdoor activities in general. There are numerous cycling events year round, including group rides with the team and faculty.
Residency Programs

General Surgery Residency

The General Surgery Residency Training Program at Duke focuses on both clinical and research education, producing competitive graduates who are prepared for careers in academic surgery. Residents gain broad experience in operative surgery as they learn to evaluate and manage a high number of patients requiring all types of procedures, from vascular to hepato-pancreatic biliary surgery.

Rotations in both community and VA medical centers mean that residents get valuable, unique, and comprehensive training for a career in academic surgery. The program is broad, but trainees have the opportunity to focus on one or more specialties, such as endocrine surgery or transplantation. General surgery residents are expected to complete at least two years of focused research, and opportunities for laboratory or other discovery experiences are available within and outside of the department. Most trainees choose specialization and seek fellowship training upon completion of the residency program, and the research experience is universally cited as a major reason that Duke residents are highly competitive for academic fellowships and faculty positions.

Cardiovascular and Thoracic Surgery Residency

Duke offers two training opportunities in cardiothoracic surgery: a traditional residency program and an integrated residency program that was recently approved by the ACGME.

The Traditional Thoracic Surgery Residency Training Program is a three-year program that prepares graduates for careers in academic cardiothoracic surgery, providing them with direct experience in all clinical aspects of cardiothoracic surgery and extensive training in clinical research. Residents gain experience with adult cardiac surgery, congenital cardiac surgery, and general thoracic surgery. A core focus of the program is a mentorship system that emphasizes consistent relationships with faculty members.

The Integrated 6-Year (I-6) Thoracic Surgery Residency Training Program leads to eligibility for certification by the American Board of Thoracic Surgery. With an educational curriculum created to augment operative and clinical training, residents in this program gain experience in general and vascular surgery, critical care, cardiac anesthesia, and cardiac catheterization, as well as cardiac and thoracic surgery.
Surgical Education at Duke

Duke surgical residents experience a wide variety of educational settings by rotating through Duke University Hospital, Durham Regional, Duke Raleigh, Durham VA, and Asheville VA hospitals. Residents during their first two years develop a solid foundation in patient care, ICU management, and consultations. Junior residents finish their first two years with well over the minimum 250 operative cases required by the ACGME, thanks in part to the Department's growing number of excellent physician-extenders.

Junior and lab residents will also develop their operative skills by participating in an advanced simulation curriculum developed with input from faculty and residents. Our innovative simulation program optimizes the educational experience to better suit residents' schedules and shifts it earlier in our residents' training, where it is most effective. This curriculum allows residents to master complex operative skills earlier in their training and safely prepares them for the autonomy and operative responsibilities required during their upper-level rotations.

Senior residents lead interdisciplinary surgical teams and learn to manage the complex, high-acuity patient services one would expect at a high-volume academic institution. Their role is to act predominantly as service chiefs for rotations in hepatobiliary, surgical oncology, trauma/acute care, pediatric, transplant, thoracic, vascular, colorectal, breast, and endocrine surgery. At Duke University Hospital, all services use a night float system, which means patient care is covered by a consistent overnight team led by a night in-house chief. By graduation, Duke general surgery residents have an excess of operative experience well beyond the ACGME requirement of 850 cases minimum.

Additionally, our unique, collaborative environment is dedicated to continually improving the educational experience. This collaborative purpose is exemplified by a new Surgical Education Research Group formed in the past year. SERG has already represented Duke at three national conferences, and the group has supported numerous new initiatives to improve the recruitment and training of medical students. For example, the group’s proposal for a Surgical Technique and Review (STAR) elective was recently approved by the School of Medicine and is scheduled for Spring 2017. These efforts have been driven by the advocacy of the surgery residents, the growing enthusiasm from our medical students, and the generous support from the faculty and department. Overall, SERG highlights Duke Surgery’s commitment to evolve and improve surgical education for the betterment of all learners.

It’s not just the case numbers, the challenging patients, or the simulation curriculum that will make you a great surgeon. The intangible, unquantifiable attributes of a program shape trainees not only into skillful technicians but also cultivates them into future surgical leaders. At Duke, our greatest unmeasurable strength is our faculty and residents. The supportive leadership of our faculty and the enthusiastic involvement of our residents make Duke an exceptional place to train as a surgeon and develop as a leader.
How Does Duke Compare?

### 2015 FRIEDA Data

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<thead>
<tr>
<th></th>
<th>National Average</th>
<th>Duke</th>
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<tbody>
<tr>
<td><strong>Academic year</strong></td>
<td></td>
<td></td>
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<tr>
<td>Length of accredited training</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Required length</td>
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<td>7</td>
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<tr>
<td>Average number of PY1 interviews</td>
<td>84.1</td>
<td>85</td>
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<tr>
<td><strong>Residents</strong></td>
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</tr>
<tr>
<td>Average number of residents/fellows</td>
<td>31.9</td>
<td>32</td>
</tr>
<tr>
<td>Average percent female</td>
<td>36.1%</td>
<td>28.1%</td>
</tr>
<tr>
<td>Average percent international medical graduates</td>
<td>18.4%</td>
<td>6.25%</td>
</tr>
<tr>
<td><strong>Faculty</strong></td>
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<td></td>
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<tr>
<td>Average number of full-time physician faculty</td>
<td>32.8</td>
<td>69</td>
</tr>
<tr>
<td>Average number of part-time physician faculty</td>
<td>3.5</td>
<td>0</td>
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<tr>
<td>Average percent female full-time physician faculty</td>
<td>18.3%</td>
<td>27.0%</td>
</tr>
<tr>
<td>Average ratio of full-time physician faculty to resident/fellow</td>
<td>1.0</td>
<td>2.1</td>
</tr>
<tr>
<td><strong>Resident work hours (PY1)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average hours on duty per week</td>
<td>74.0</td>
<td>75.2</td>
</tr>
<tr>
<td>Average maximum consecutive hours on duty</td>
<td>17.9</td>
<td>16</td>
</tr>
<tr>
<td>Average days off duty per week</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td><strong>Work environment and compensation (PY1)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average percent of training in hospital outpatient clinics</td>
<td>17.4%</td>
<td>15.00%</td>
</tr>
<tr>
<td>Average percent of training in non-hospital ambulatory care community settings</td>
<td>8.1%</td>
<td>NA</td>
</tr>
<tr>
<td>Average resident/fellow compensation</td>
<td>$52,607</td>
<td>$53,580</td>
</tr>
<tr>
<td>Average number weeks of vacation</td>
<td>3.3</td>
<td>2</td>
</tr>
</tbody>
</table>
Conferences

Schedule

**Monday**
Intern (PGY-1) Conference (Intern School) 5:30 p.m. – 6:30 p.m.

**Tuesday**
Duke Regional Hospital Conference 6:30 a.m. – 7:30 a.m.

**Wednesday**
Surgical D&C Case Conference* 6:00 a.m. – 7:00 a.m.
Surgical Grand Rounds* 7:00 a.m. – 8:00 a.m.
SCORE Curriculum Conference* 8:15 a.m. – 9:15 a.m.
Simulation Lab* 9:30 a.m. – 12:30 p.m.

**Thursday**
Durham VA Conference 7:00 a.m. – 8:00 a.m.
Duke Raleigh Hospital Conference 7:00 a.m. – 8:00 a.m.
Chairman Walk Rounds 4:30 p.m. – 5:30 p.m.

**Friday**
Asheville VA Conference 7:30 a.m. – 8:30 a.m.
Chief Resident Conference 4:30 p.m. – 5:30 p.m.

*General Surgery Core Conferences*
Clinical residents are required to attend a minimum of 80 percent of core conferences (D&C, Grand Rounds, SCORE, SEAL). Research residents are required to attend the core conferences plus Chairman’s Rounds and Friday Chief’s Conference.

**D&C, Grand Rounds, SCORE**
Required for all research and clinical residents rotating at Duke and the Durham VA. Those on night shift the night prior are required to attend.

Exceptions: ACU, SICU residents, Thoracic SAR, JTP residents rotating on cardiac, residents rotating at Asheville

**SEAL**
Required for all residents when assigned, including DRH and Duke Raleigh.

Exceptions: Any resident who was on a night shift the night prior, ACU, SICU residents, Thoracic SAR, JTP residents rotating on cardiac, residents rotating at Asheville

**Chairman’s Rounds**
All research residents and all clinical residents (at Duke and the Durham VA) not in the operating room or engaged in urgent clinical care.

**Chief’s Conference (Friday)**
All research residents and all clinical residents (at Duke and the Durham VA) not in the operating room or engaged in urgent clinical care.
Educational Laboratories

Surgical Education and Activities Lab (SEAL)
The Surgical Education and Activities Lab (SEAL) is a state-of-the-art surgical simulation center designed to provide advanced and innovative training for physicians, residents, fellows, physician assistants, nurses, medical students, health care providers, and industry professionals in a risk-free environment. Simulation training provides learners the opportunity to develop skills and practice minimally invasive procedures without the pressures of the operating room to advance medical education and improve patient safety.

Human Fresh Tissue Laboratory
The Duke Human Fresh Tissue Laboratory is a state-of-the-art medical skills lab where residents, attending physicians, and medical students can perform advanced surgical training on fresh tissue. The lab has been used to provide training to medical professionals from Duke and throughout the country since 1997.

Duke Vivarium
A key component of the Duke Animal Care and Use Program is the Surgical Pavilion that consists of four operating rooms as well as rooms for surgical preparation, anesthetic monitoring, post-operative recovery and surgical instrument processing. This facility provides resources for teaching and research endeavors and is supplied with state-of-the-art equipment and information technology.

3D Printing Lab
The Duke 3D printing lab offers unique research and educational experiences for surgical trainees. We have many printers that can be accessed remotely from anywhere and higher end printers located just next to the Duke Medicine Pavilion. We also have state-of-the-art software and a partnership with the multi-D lab for help with segmentation, which is the process of picking out particular areas of anatomical interest for printing.
InnovateMD is a program that provides residents and fellows with an educational and experience-based opportunity to collaborate with engineering students and faculty in the field of medical device innovation. The program was co-founded in early 2016 by David Ranney, MD, Resident in General Surgery, and Ken Gall, PhD, Associate Director of Duke MEDx and Chair of the Department of Mechanical Engineering and Materials Science. The primary mission of InnovateMD is to provide each participant with working knowledge of topics related to medical device development and the opportunity to apply that knowledge to a real-world medical device project. In addition to educational objectives, dedicated resources will be made available to participants to facilitate innovation and accelerate the device development process.

**Program Highlights**

- Opportunities for clinical observation
- Seminars from faculty, entrepreneurs, and industry experts
- Networking events on and off campus
- Mentorship from medical, surgical, and engineering faculty
- Dedicated resources and workshops
Innovate MD (continued)

Program Leadership
- David Ranney, MD, Director
- Ken Gall, PhD, Assistant Director
- Allan Kirk, MD PhD, Advisory Team
- Shelley Hwang, MD MPH, Advisory Team
- Ranjan Sudan, MD, Advisory Team
- Nandan Lad, MD PhD, Advisory Team
- Suresh Balu, MBA, Advisory Team
- Bill Walker, PhD, Advisory Team

Current Fellows
- David Ranney, MD, General Surgery
- Soni Nag, MD, General Surgery
- Muath Bishawi, MD, Cardiothoracic Surgery
- Marat Fudim, MD, Cardiology
- Kim Hoang, MD, Neurosurgery
- Jacquelyn Corley, MD, Neurosurgery
- Alexa Bramall, MD PhD, Neurosurgery
- Phillip Liu, MD MBA, Internal Medicine

Ongoing Collaborations
- Duke MEDx
- Duke Institute for Health Innovation
- Department of Surgery
- Pratt School of Engineering

Contact Us
Please direct questions to David Ranney at david.ranney@duke.edu.
Residents

Duke surgery residents are standouts in their field. Graduates consistently go on to land prestigious fellowships and highly sought-after clinical positions and academic professorships. Some focus on teaching, garnering awards for training and mentoring the next generation of surgeons. Others devote their careers to research, making significant advancements in surgical care.

The residents are typically highly productive during their time in training. Most establish themselves as bona fide authorities in a chosen field and exemplify this through significant contribution to the medical literature. This productivity indicates not only the high level of talent and ingenuity typical of the Duke Surgery resident, but also speaks to the quality of mentorship in time management, prioritization, and other skills critical to academic success delivered during the residency period. The publications of the Chief Residents in Surgery from the past two years (over 200) are presented as an example of the ongoing productivity of Duke surgical trainees.
Positions of Chief Residents of Surgery

The most important metric of a residency program is the success of its trainees. This is best captured by the most prominent position in one’s career (for established surgeons) and the initial position obtained after residency (either faculty or fellowship for junior faculty). To assist applicants in understanding the breadth and height of the careers of trainees of the Department of Surgery, we provide the most prominent positions of all graduates of the program since 1970, and the initial appointments of new graduates for the past 20 years. You will note that approximately 70 percent of graduates follow academic careers, with numerous individuals rising to the level of Department Chair, Dean, and other executive leadership positions.

2016

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthony Castleberry</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Kristy Rialon Guevara</td>
<td>Pediatric Surgery Fellowship, Hospital for Sick Children</td>
<td>Pediatric Surgery Fellowship, Hospital for Sick Children</td>
</tr>
<tr>
<td>Jennifer Hanna</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Georgios Kokosis</td>
<td>Plastic &amp; Reconstructive Surgery Fellowship, Johns Hopkins</td>
<td>Plastic &amp; Reconstructive Surgery Fellowship, Johns Hopkins</td>
</tr>
<tr>
<td>Michael Lidsky</td>
<td>Surgical Oncology Fellowship, Memorial Sloan Kettering Cancer Center</td>
<td>Surgical Oncology Fellowship, Memorial Sloan Kettering Cancer Center</td>
</tr>
<tr>
<td>Kevin Southerland</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
</tr>
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</table>
## Positions of Chief Residents of Surgery (continued)

### 2015

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<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicholas Andersen</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
</tr>
<tr>
<td>Michael Barfield</td>
<td>Critical Care Fellowship, Duke University Medical Center</td>
<td>Vascular Surgery Fellowship, New York University</td>
</tr>
<tr>
<td>Georgia Beasley</td>
<td>Surgical Oncology Fellowship, Ohio State Medical Center</td>
<td>Surgical Oncology Fellowship, Ohio State Medical Center</td>
</tr>
<tr>
<td>Marcus Darrabie</td>
<td>Surgical Research Fellowship, Duke University Medical Center</td>
<td>Critical Care Fellowship, University of Florida</td>
</tr>
<tr>
<td>David Lo</td>
<td>Plastic Surgery Fellowship, Emory University Medical Center</td>
<td>Plastic Surgery Fellowship, Emory University Medical Center</td>
</tr>
<tr>
<td>Lindsay Talbot</td>
<td>Critical Care Fellowship, Nationwide Children’s Hospital</td>
<td>Pediatric Surgery Fellowship, University of Chicago</td>
</tr>
<tr>
<td>Ryan Turley</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
</tr>
</tbody>
</table>

### 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrew Barbas</td>
<td>Transplant Surgery Fellowship, University of Toronto</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Syamal Bhattacharya</td>
<td>Pediatric Surgery Fellowship, Vanderbilt University Medical Center</td>
<td>Assistant Professor of Surgery, UT College of Medicine</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asad Shah</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Private Practice, REX Cardiac Surgical Specialists</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Robert Smith</td>
<td>Vascular Surgery Fellowship, University of Alabama</td>
<td>Clinical Assistant Professor, Scott and White Memorial Hospital Associate Program Director, Vascular Surgery Fellowship Texas A&amp;M College of Medicine</td>
</tr>
<tr>
<td>Judson Williams</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Private Practice, WakeMed Heart Center</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Giorgio Zanotti</td>
<td>Cardiothoracic Surgery Fellowship, University of Colorado</td>
<td>Cardiothoracic Surgery Fellowship, University of Colorado</td>
</tr>
</tbody>
</table>

### 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kyla Bennett</td>
<td>Vascular Surgery Fellowship, Duke University</td>
<td>Assistant Professor, University of Wisconsin School of Medicine and Public Health</td>
</tr>
<tr>
<td>Nicole DeRosa</td>
<td>Surgical Oncology Fellowship, MD Anderson, TX</td>
<td>Assistant Professor of Surgery, University of Nebraska Medical Center</td>
</tr>
<tr>
<td>Dawn Elfenbein</td>
<td>Endocrine Fellowship, Madison, WI</td>
<td>Clinical Instructor, University of Wisconsin</td>
</tr>
<tr>
<td>Sarah Evans</td>
<td>Plastic Surgery Fellowship, University of Cincinnati</td>
<td>Assistant Professor of Surgery, St. Peter's Hospital</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keri Lunsford</td>
<td>Abdominal Transplant Fellowship, UCLA Medical Center</td>
<td>Clinical Instructor, UCLA Medical Center</td>
</tr>
<tr>
<td>Vanessa Schroder</td>
<td>Critical Care Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
</tbody>
</table>

### 2012

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melissa Danko</td>
<td>Pediatric Surgery Fellowship, Vanderbilt University</td>
<td>Assistant Professor of Surgery, Vanderbilt University</td>
</tr>
<tr>
<td>Sapan Desai</td>
<td>Vascular Surgery Fellowship, UT Houston</td>
<td>Assistant Professor of Surgery, Southern Illinois University; Director of the Quality Alliance and Predictive Analysis, Memorial Medical Center; Chief Executive Officer, Surgisphere Corporation</td>
</tr>
<tr>
<td>Loretta Erhunmwunsee</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, City of Hope Cancer Center</td>
</tr>
<tr>
<td>Sean Lee</td>
<td>Minimally Invasive Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Medical College of Georgia</td>
</tr>
<tr>
<td>James Padussis</td>
<td>Minimally Invasive Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Nebraska Medical Center</td>
</tr>
<tr>
<td>Elisabeth Tomlinson-Tracy</td>
<td>Pediatric Surgery Fellowship, Boston Children's Hospital</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Nestor Villamizar</td>
<td>Thoracic Surgery Fellowship, Brigham &amp; Women's Hospital</td>
<td>Assistant Professor of Surgery, University of Miami Hospital</td>
</tr>
</tbody>
</table>
Positions of Chief Residents of Surgery (continued)

### 2011

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mani Daneshmand</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Diana Diesen</td>
<td>Pediatric Surgery Fellowship, UT Southwestern</td>
<td>Assistant Professor of Surgery, UT Southwestern Medical Center</td>
</tr>
<tr>
<td>John Haney</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Kelley Hutcheson</td>
<td>Cardiothoracic Surgery Fellowship, Washington University</td>
<td>Assistant Professor of Surgery, Baylor University Medical Center</td>
</tr>
<tr>
<td>Luigi Pascarella</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Iowa</td>
</tr>
<tr>
<td>Immanuel Turner</td>
<td>Cardiothoracic Surgery Fellowship, University of Michigan</td>
<td>Assistant Professor of Surgery, Carolinas Medical Center</td>
</tr>
<tr>
<td>Brian Untch</td>
<td>Surgical Oncology Fellowship, Memorial Sloan-Kettering Cancer Center</td>
<td>Assistant Professor of Surgery, Memorial Sloan-Kettering Cancer Center</td>
</tr>
</tbody>
</table>

### 2010

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keki Balsara</td>
<td>Critical Care Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Washington University School of Medicine in St. Louis</td>
</tr>
<tr>
<td>Errol Bush</td>
<td>Cardiothoracic Surgery Fellowship, UCSF</td>
<td>Assistant Professor of Surgery, UCSF</td>
</tr>
<tr>
<td>Eugene Ceppa</td>
<td>Minimally Invasive Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Indiana University</td>
</tr>
</tbody>
</table>
Position of Chief Residents of Surgery (continued)

2010

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sebastian de la Fuente</td>
<td>Surgical Oncology Fellowship, Moffitt Cancer Center</td>
<td>Physician Research Coordinator and Director of Research of the General Surgery Residency Program, Florida Hospital, Orlando; Assistant Professor of Surgery, University of Central Florida and Florida State University</td>
</tr>
<tr>
<td>Jeffrey Nienaber</td>
<td>Vascular Surgery Fellowship, Mayo Clinic (Rochester)</td>
<td>Attending Surgeon, Asheville VA Medical Center</td>
</tr>
<tr>
<td>Srinevas Reddy</td>
<td>Surgical Oncology Fellowship, University of Pittsburgh</td>
<td>Assistant Professor of Surgery, University of Maryland</td>
</tr>
<tr>
<td>Tamarah Westmoreland</td>
<td>Pediatric Surgical Oncology Fellowship, St. Jude Hospital (Memphis)</td>
<td>Assistant Professor of Surgery, Nemours Children’s Hospital, FL</td>
</tr>
</tbody>
</table>

2009

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Lima</td>
<td>Cardiothoracic Surgery Fellowship, Cleveland Clinic</td>
<td>Assistant Professor of Surgery, Baylor University Medical Center</td>
</tr>
<tr>
<td>Vanessa Olcese</td>
<td>Abdominal Transplant Fellowship, University of Wisconsin</td>
<td>Assistant Professor of Surgery, Ohio State University</td>
</tr>
<tr>
<td>Mayur Patel</td>
<td>Surgical Critical Care and Acute Care Surgery Fellowship, Vanderbilt Medical Center</td>
<td>Assistant Professor of Surgery; Assistant Professor of Neurological Surgery, Vanderbilt University</td>
</tr>
<tr>
<td>Rebecca Prince-Petersen</td>
<td>Minimally Invasive Surgery Fellowship, University of Washington, Seattle</td>
<td>Assistant Professor of Surgery, University of Washington</td>
</tr>
</tbody>
</table>
### Positions of Chief Residents of Surgery (continued)

#### 2009

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>Keshava Rajagopal</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Maryland</td>
</tr>
<tr>
<td>Jacob Schroder</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Jin Yoo</td>
<td>MIS/Bariatric Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>David Sindram</td>
<td>HPB Surgery Fellowship, Carolinas Medical Center</td>
<td>Faculty, Carolinas Medical Center</td>
</tr>
</tbody>
</table>

#### 2008

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Appel</td>
<td>Plastic Surgery Fellowship, Vanderbilt Medical Center</td>
<td>Private Practice, Calabretta Cosmetic Surgery, Charlotte, NC</td>
</tr>
<tr>
<td>Matthew Hartwig</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Erich Huang</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Adjunct Assistant Professor, Duke University, Director of Cancer Research, Sage Bionetworks, Seattle, WA</td>
</tr>
<tr>
<td>Anthony Lemaire</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Robert Wood Johnson University Hospital</td>
</tr>
<tr>
<td>Mimi Pham</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Indiana University</td>
</tr>
</tbody>
</table>
### 2008

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jose Trani</td>
<td>Vascular Surgery Fellowship, University of North Carolina at Chapel Hill</td>
<td>Assistant Professor of Surgery, Cooper University Health System, Philadelphia, PA/ Camden, NJ</td>
</tr>
</tbody>
</table>

### 2007

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Jennifer H. Aldrink</td>
<td>Pediatric Surgery Fellowship, Columbus Children's Hospital</td>
<td>Assistant Professor of Surgery, Nationwide Children's Hospital, Columbus, OH</td>
</tr>
<tr>
<td>Edward Cantu</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, University of Pennsylvania</td>
</tr>
<tr>
<td>Denise Ching</td>
<td>Surgical Oncology Fellowship, MD Anderson Cancer Center</td>
<td>Palo Alto Medical Foundation/ Sutter Medical Network</td>
</tr>
<tr>
<td>Steve Hanish</td>
<td>Abdominal Transplant Fellowship, University of Wisconsin</td>
<td>Associate Professor of Surgery, University of Maryland Medical Center</td>
</tr>
<tr>
<td>Jonathan Hata</td>
<td>MIS Fellowship, Duke University Medical Center</td>
<td>Private Practice, Hickory Surgical Clinic, NC</td>
</tr>
<tr>
<td>Melissa Poh</td>
<td>Plastic Surgery Fellowship, Vanderbilt Medical Center</td>
<td>Private Practice, Los Angeles, CA</td>
</tr>
<tr>
<td>Joseph Turek</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor, Cardiothoracic Surgery, University of Iowa</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 2006

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelli Brooks</td>
<td>Trauma/Critical Care Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Elizabeth Grubbs</td>
<td>Surgical Oncology Fellowship, MD And Anderson Cancer Center</td>
<td>Assistant Professor of Surgery, MD Anderson Cancer Center</td>
</tr>
<tr>
<td>Aftab Kherani</td>
<td>Consultant, McKinsey &amp; Company, New York</td>
<td>Principal of Aisling Capital Group</td>
</tr>
<tr>
<td>Jason Petrofski</td>
<td>Colorectal Fellowship, Cleveland Clinic</td>
<td>Private Practice, Atlanta Colon and Rectal Surgery</td>
</tr>
<tr>
<td>Shiva Sarraf-Yazdi</td>
<td>Instructor and Clinical Fellow, Duke-National University of Singapore</td>
<td>Assistant Dean of Recruitment and Admissions, Assistant Professor, Duke NUS</td>
</tr>
<tr>
<td>Richard Thompson</td>
<td>Cardiothoracic Surgery Fellowship, UVA, Charlottesville, VA</td>
<td>Faculty, Bryan Health, NE</td>
</tr>
</tbody>
</table>

### 2005

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Jeffrey Gaca</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Matthew Kalady</td>
<td>Colorectal Fellowship, Cleveland Clinic</td>
<td>Assistant Professor of Surgery, Cleveland Clinic, among other appointments</td>
</tr>
<tr>
<td>Jamie Nathan</td>
<td>Pediatric Surgery Fellowship, Cincinnati Children's Hospital</td>
<td>Assistant Professor of Surgery, Director of Intestinal Transplantation Program, University of Cincinnati</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 2005

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Shawn Safford</td>
<td>United States Navy</td>
<td>Assistant Professor of Surgery, Penn State, Milton S. Hershey Medical Center</td>
</tr>
<tr>
<td>John Scarborough</td>
<td>Abdominal Transplant Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, University of Wisconsin School of Medicine and Public Health</td>
</tr>
<tr>
<td>Rebekah White</td>
<td>Surgical Oncology Fellowship, Memorial Sloan-Kettering Cancer Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
</tr>
</tbody>
</table>

### 2004

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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</thead>
<tbody>
<tr>
<td>Rolf Barth</td>
<td>Abdominal Transplant Fellowship, University of Wisconsin</td>
<td>Associate Professor of Surgery, University of Maryland Medical Center</td>
</tr>
<tr>
<td>Patrick Domkowski</td>
<td>Private practice, Palm Bay, FL</td>
<td>Private Practice, Sebastian River Medical Center, Sebastian, FL</td>
</tr>
<tr>
<td>Sitaram Emani</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Children's Hospital Boston</td>
</tr>
<tr>
<td>Jay Lee</td>
<td>Cardiothoracic Fellowship, Brigham &amp; Women's Hospital</td>
<td>Associate Professor of Surgery, Chief of Thoracic Surgery, UCLA Medical Center</td>
</tr>
<tr>
<td>Mark Onaitis</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Gretchen Purcell</td>
<td>Pediatric Surgery Fellowship, Children's Hospital of Pittsburgh</td>
<td>Assistant Professor of Surgery, Vanderbilt University</td>
</tr>
<tr>
<td>Christopher Touloukian</td>
<td>Assistant Professor of Surgery, Indiana University</td>
<td>Associate Professor of Surgery, Indiana University</td>
</tr>
</tbody>
</table>


### Positions of Chief Residents of Surgery (continued)

#### 2003

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>Thomas Aloia</td>
<td>Surgical Oncology Fellowship, MD Anderson Cancer Center</td>
<td>Associate Professor of Surgery, MD Anderson</td>
</tr>
<tr>
<td>Shankha Biswas</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private Practice, Partner, Synergy CT Surgery Partnership, Riverside, CA</td>
</tr>
<tr>
<td>G. Gonzalez-Stawinski</td>
<td>Cardiothoracic Fellowship, Cleveland Clinic</td>
<td>Chief of Heart Transplantation and MCS, Baylor University Medical Center-Dallas</td>
</tr>
<tr>
<td>G. Robert Stephenson</td>
<td>Abdominal Transplant Fellowship, University of Pennsylvania</td>
<td>Private Practice, Texas Health Care PLLC, Ft. Worth, TX</td>
</tr>
<tr>
<td>David White</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
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#### 2002

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>B. Zane Atkins</td>
<td>United States Air Force/ Cardiothoracic Fellowship Duke University</td>
<td>Clinical Assistant Professor of Surgery, UC Davis Medical Center; Chief of CT Surgery, USAF David Grant Medical Center</td>
</tr>
<tr>
<td>G. Chad Hughes</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery and Director, Aortic Surgery Program, Duke University Medical Center</td>
</tr>
<tr>
<td>Christine Lau</td>
<td>Cardiothoracic Fellowship, Washington University</td>
<td>Associate Professor of Surgery and Director Lung Transplant Program, University of Virginia</td>
</tr>
<tr>
<td>Kendra Merine</td>
<td>Vascular Surgery Fellowship, Washington Hospital Center</td>
<td>Private practice, Miramar, FL</td>
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## Positions of Chief Residents of Surgery (continued)

### 2002

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<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>Paul Mosca</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Duke University Medical Center; Vice Chair, General Surgery Network</td>
</tr>
<tr>
<td>Aurora Pryor</td>
<td>MIS Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery and Vice Chair for Clinical Affairs, Chief General Surgery Division, Director Bariatric and Metabolic Weight Loss Center, Stony Brook School of Medicine</td>
</tr>
<tr>
<td>Ashish Shah</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Surgical Director of Heart and Lung Transplant, and Associate Director of Cardiac Surgery, The Johns Hopkins Hospital</td>
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### 2001

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>William Burfeind</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Chief of Thoracic Surgery, St. Luke's Health Network</td>
</tr>
<tr>
<td>Paul Chai</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Clinical Surgery, Columbia University Medical Center</td>
</tr>
<tr>
<td>Lisa Clark Pickett</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Assistant Professor of Medicine and Chief Medical Officer, Duke University Medical Center</td>
</tr>
<tr>
<td>Pierre Dematos</td>
<td>Private practice, Asheville, NC</td>
<td>Private practice, Regional Surgical Specialists, Asheville, NC</td>
</tr>
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</table>
## Positions of Chief Residents of Surgery (continued)

### 2001

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
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<tbody>
<tr>
<td>Thomas Hayward</td>
<td>Trauma/Critical Care Fellowship, Maryland Shock Trauma</td>
<td>Assistant Professor of Surgery, Indiana University</td>
</tr>
<tr>
<td>Shu Lin</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Associate Professor in Pathology and Assistant Professor in Immunology, Duke University Medical Center</td>
</tr>
<tr>
<td>John Maurice</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private practice, Newport Beach, CA</td>
</tr>
<tr>
<td>Kirsten Wilkins</td>
<td>Colorectal Fellowship, UMDNJ–Robert Wood Johnson Hospital</td>
<td>Private practice, New Jersey</td>
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### 2000

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<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Shabab Akhter</td>
<td>Cardiothoracic Fellowship, University of Michigan</td>
<td>Professor of Surgery and Chairman Division of Cardiothoracic Surgery, University of Wisconsin</td>
</tr>
<tr>
<td>Larkin Daniels</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private practice, Cardio-Thoracic and Vascular Surgical Associates, Mobile, AB</td>
</tr>
<tr>
<td>Kimberly Gandy</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Adjunct Associate Professor, Biomedical and Health Informatics, UMKC; Associate Clinical Professor, Pediatrics, Medical College of Wisconsin; Founder and CEO, Play-it Health; CMO, Infusion Express</td>
</tr>
<tr>
<td>Cleveland Lewis Jr.</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Private practice, Hudson Valley Thoracic Associates, NY</td>
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</table>
### Positions of Chief Residents of Surgery (continued)

#### 2000

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Andrew Lodge</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery and Associate Professor of Pediatrics, Duke University Medical Center</td>
</tr>
<tr>
<td>Alan Kypson</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, East Carolina University Brody School of Medicine</td>
</tr>
<tr>
<td>Robert Noone</td>
<td>Colorectal Fellowship, Cleveland Clinic</td>
<td>Private practice, Main Line Health, Wynnewood PA</td>
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#### 1999

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>R. Eric Lilly</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Surgery, Medical College of Wisconsin</td>
</tr>
<tr>
<td>James St. Louis</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Co-Director, Division of Pediatric Cardiology; Associate Professor, Division of Cardiothoracic Surgery; Aldo Castaneda Professorship in Congenital Heart Surgery, University of Minnesota</td>
</tr>
<tr>
<td>Christopher Suhr</td>
<td>Private practice, Aiken, SC</td>
<td>Private practice, Onslow Surgical Clinic, Jacksonville, NC</td>
</tr>
<tr>
<td>Bryan Weidner</td>
<td>Surgical Critical Care Fellowship, Duke University Medical Center</td>
<td>Chief of Pediatric Surgery and Surgeon-in-Chief, Children’s Hospital at Sacred Heart, Pensacola, FL</td>
</tr>
<tr>
<td>Jeffrey H. Lawson</td>
<td>Vascular Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery, Professor in Pathology, and Program Director for Surgery Research, Duke University Medical Center</td>
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### Positions of Chief Residents of Surgery (continued)

#### 1999

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Charles Hoopes</td>
<td>Cardiothoracic Fellowship, University of Michigan</td>
<td>Associate Professor of Surgery, Jason Alexander Gill Professor in Thoracic Surgery, Section Chief Cardiopulmonary Transplant, Director Heart Mechanical Circulator Support, and Director Comprehensive Transplant Institute, University of Kentucky College of Medicine</td>
</tr>
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#### 1998

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Scott C. Silvestry</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Division of CT Surgery, Washington University, St. Louis, MO</td>
</tr>
<tr>
<td>R. Anthony Perez-Tamayo</td>
<td>Surgical Critical Care Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery, Associate Program Director, Rush University; Senior Attending, Stroger Hospital of Cook County (former Chief of CT 2006–2012); Associate Professor of Surgery, Loyola University, Chicago, IL</td>
</tr>
<tr>
<td>Adrian H. Cotterell</td>
<td>Transplantation Surgery Fellowship, University of Miami/Jackson Memorial Hospital</td>
<td>Associate Professor of Surgery, Division of Transplant Surgery, Virginia Commonwealth University Health System</td>
</tr>
<tr>
<td>Louis DiBernardo</td>
<td>Cardiothoracic Fellowship, Duke University Medical Center</td>
<td>Assistant Professor of Pathology, Duke University Medical Center</td>
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</table>
Positions of Chief Residents of Surgery (continued)

### 1998

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Paul Kirshbom</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery and Chief Pediatric Cardiac Surgery, Yale School of Medicine</td>
</tr>
<tr>
<td>Christopher Mantyh</td>
<td>Colorectal Surgery Fellowship, Cleveland Clinic Foundation</td>
<td>Professor of Surgery and Chief of Gastrointestinal and Colorectal Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Bryan Clary</td>
<td>Surgical Oncology Fellowship, Memorial Sloan Kettering Cancer Center</td>
<td>Professor and Chair of the Department of Surgery, M.J. Orloff Family Endowed Chair in Surgery, Surgeon-in-Chief, UC San Diego Health System</td>
</tr>
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### 1997

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Carmelo Milano</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery and Surgical Director of Cardiac Transplant and LVAD Programs, Duke University Medical Center</td>
</tr>
<tr>
<td>Scott H. Pruitt</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
<td>Senior Principal Scientist, Merck Research Labs</td>
</tr>
<tr>
<td>Lynne Skaryak</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Attending Surgeon, Medstar Georgetown University Hospital, Baltimore, MD</td>
</tr>
<tr>
<td>Harmuth Bittner</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Director of Heart and Lung Transplantation, Florida Hospital, Orlando, FL</td>
</tr>
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</table>
### Positions of Chief Residents of Surgery (continued)

#### 1997

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Bradley H. Collins</td>
<td>Transplant Surgery Fellowship, University of Wisconsin Hospital and Clinics</td>
<td>Associate Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Mark Davies</td>
<td>Vascular Surgery Fellowship, University of Washington</td>
<td>Professor of Surgery, Vice Chairman of Cardiovascular Surgery, The Methodist Hospital; Associate Quality Officer, The Methodist Hospital System, Houston, TX</td>
</tr>
<tr>
<td>Joseph M. Forbess</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery and Chairman of the Division of Pediatric Cardiothoracic Surgery, UT Southwestern Medical Center; Co-Director of the Heart Center, Children’s Medical Center Dallas; Pogue Distinguished Chair in Pediatric Cardiac Surgery Research</td>
</tr>
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#### 1996

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Cary H. Meyer</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private practice, Cardiovascular Associates, Kingsport, TN</td>
</tr>
<tr>
<td>Clarence H. Owen</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Private practice, Triad Cardiac and Thoracic Surgery, Greensboro, NC</td>
</tr>
<tr>
<td>Jeffrey C. Pence</td>
<td>Cardiothoracic Surgery Fellowship, Duke University Medical Center</td>
<td>Associate Professor of Surgery and Associate Residency Program Director, Childrens Medical Center of Dayton, OH</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 1996

<table>
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<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
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<tbody>
<tr>
<td>Christina Weltz</td>
<td>Assistant Professor of Surgery, Mt. Sinai School of Medicine, NY</td>
<td></td>
</tr>
<tr>
<td>Mark Tedder</td>
<td>Cardiac Surgery Fellowship, Duke University Medical Center</td>
<td>Attending, St. Thomas Health, Nashville TN; Private practice, Cardiovascular Associates, Nashville, TN</td>
</tr>
<tr>
<td>Mark Anstadt</td>
<td>Cardiac Surgery Fellowship, Duke University Medical Center</td>
<td>Private practice, Miami Valley Heart &amp; Lung Surgeons; Holds voluntary faculty positions at Boonshoft School of Medicine, Wright State, OH; Formerly Professor of Surgery, Associate Professor of Pharmacology and Toxicology, Chair of CT Surgery, and Vice Chair of Department of Surgery</td>
</tr>
<tr>
<td>Ravi Chari</td>
<td>Hepatobiliary and Abdominal Transplant Fellowship, University of Toronto</td>
<td>Vice President of Clinical Excellence, Clinical Services Group, Hospital Corporation of America (HCA)</td>
</tr>
<tr>
<td>Michael Demaio</td>
<td>Cardiac Surgery Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery, Director of the Lung/Heart-Lung Transplant Program, and Director of Research, Department of CT Surgery, UT Southwestern Medical Center; Founder, Spectral MD</td>
</tr>
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### 1995

<table>
<thead>
<tr>
<th>Name</th>
<th>Initial Position</th>
<th>Most Prominent Position</th>
</tr>
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<tbody>
<tr>
<td>James R. Mault</td>
<td>Cardiac Surgery Fellowship, Duke University Medical Center</td>
<td>Vice President and CMO of Qualcomm Life</td>
</tr>
</tbody>
</table>
### Positions of Chief Residents of Surgery (continued)

#### 1995

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>David S. Peterseim</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Private practice, Charleston, SC</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>William N. Pugh</td>
<td>Private practice</td>
<td>Private practice, American Fork Surgical Associates, American</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fork, UT</td>
</tr>
<tr>
<td>Cemil M. Purut</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>Private practice, Hickory Heart Lung and Vascular, NC</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Paul M. Aheanne</td>
<td>Surgical Oncology Fellowship, MD Anderson</td>
<td>Private practice, Regional Surgical Specialists, Asheville, NC</td>
</tr>
<tr>
<td>Francis Duhaylongsod</td>
<td>Cardiothoracic Surgery Fellowship, Duke University</td>
<td>VP and Chief Medical Director, Edwards Lifesciences</td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Allan D. Kirk</td>
<td>Multi-Organ Transplant Fellowship, University of</td>
<td>Chair of Surgery and Surgeon-in-Chief, Duke University Medical</td>
</tr>
<tr>
<td></td>
<td>Wisconsin</td>
<td>Center</td>
</tr>
<tr>
<td>Theodore Koutlas</td>
<td>Fellowship, Duke University Medical Center</td>
<td>Professor of Surgery, Pediatric Cards, ECU</td>
</tr>
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#### 1994

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas A. D'Amico</td>
<td>Professor of Surgery; Chief, Section of General Thoracic Surgery;</td>
</tr>
<tr>
<td></td>
<td>Vice Chair of Surgery; and Chief Medical Officer of Duke Cancer Institute, Duke</td>
</tr>
<tr>
<td></td>
<td>University Medical Center</td>
</tr>
<tr>
<td>Andrew Davidoff</td>
<td>Chair of Surgery, St. Jude’s Children Research Hospital, Memphis, TN</td>
</tr>
<tr>
<td>Stanley A. Gall Jr.</td>
<td>Prairie Thoracic and Cardiovascular Surgeons, Prairie Heart Institute, Springfield</td>
</tr>
<tr>
<td></td>
<td>Illinois</td>
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</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 1994

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeffrey S. Heinle</td>
<td>Pediatric Cardiovascular Surgery, Cook Children’s Medical Center, Fort Worth, TX</td>
</tr>
<tr>
<td>Scott H. Johnson</td>
<td>Assistant Professor, Department of Surgery, Washington University School of Medicine</td>
</tr>
<tr>
<td>Kevin P. Landolfo</td>
<td>Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Lewis B. Schwartz</td>
<td>Assistant Professor, Section of Vascular Surgery, University of Chicago</td>
</tr>
<tr>
<td>Mark W. Sebastian</td>
<td>Assistant Professor, Department of Surgery, Duke University Medical Center</td>
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### 1993

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gene D. Branum</td>
<td>Assistant Professor, Department of Surgery, Emory University Hospital</td>
</tr>
<tr>
<td>Nancy J. Crowley</td>
<td>Tolnitch Surgical Associates, Raleigh, NC</td>
</tr>
<tr>
<td>Joseph R. Elbeery</td>
<td>Assistant Professor of Surgery, Division of Cardiovascular Surgery, East Carolina University School of Medicine</td>
</tr>
<tr>
<td>J. Scott Kabas</td>
<td>AnMed Health Heart and Vascular Center, Anderson, SC</td>
</tr>
<tr>
<td>Theodore C. Koutlas</td>
<td>Assistant Professor, Division of Cardiovascular Surgery, East Carolina University School of Medicine</td>
</tr>
<tr>
<td>John C. Lucke</td>
<td>Assistant Consulting Professor, Duke University Medical Center</td>
</tr>
<tr>
<td>Mark D. Plunkett</td>
<td>Fellow in Congenital Cardiac Surgery, Division of Cardiothoracic Surgery, UCLA Medical Center</td>
</tr>
<tr>
<td>Phillip D. Shadduck</td>
<td>Clinical Assistant Professor of Surgery, Duke University Medical Center</td>
</tr>
</tbody>
</table>
### Positions of Chief Residents of Surgery (continued)

#### 1992

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>R. Duane Davis Jr.</td>
<td>Professor of Surgery, Director Transplant Services, Department of Surgery, Duke UMC</td>
</tr>
<tr>
<td>Gregory P. Fontana</td>
<td>Assistant Clinical Professor, Department of Thoracic and Cardiovascular Surgery, UCLA School of Medicine</td>
</tr>
<tr>
<td>Robert C. Harland</td>
<td>Chief of Surgical Immunology and Transplantation, Brody School of Medicine</td>
</tr>
<tr>
<td>David H. Harpole Jr.</td>
<td>Professor of Surgery, Associate Professor in Pathology, Vice Chief Division of Surgical Sciences, Duke UMC</td>
</tr>
<tr>
<td>Douglas A. Tyler</td>
<td>Chairman of Surgery, University of Texas Medical Branch</td>
</tr>
<tr>
<td>Ronald J. Weigel</td>
<td>Assistant Professor of Surgery, Stanford University Medical Center</td>
</tr>
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#### 1991

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louis A. Brunsting</td>
<td>Associate Professor, University of Alabama at Birmingham</td>
</tr>
<tr>
<td>Robin G. Cummings</td>
<td>Medicaid Director, NC Dept. of Health &amp; Human Services</td>
</tr>
<tr>
<td>James W. Gaynor</td>
<td>Associate Professor of Surgery, Perelman School of Medicine, University of Pennsylvania</td>
</tr>
<tr>
<td>Robert L. Quigley</td>
<td>Regional Medical Director and Senior Vice President of Medical Assistance, Americas at International SOS</td>
</tr>
<tr>
<td>Michael A. Skinner</td>
<td>Professor of Surgery, Washington State University</td>
</tr>
<tr>
<td>Craig L. Slinghuff</td>
<td>Professor of Surgery, University of Virginia School of Medicine</td>
</tr>
<tr>
<td>Christopher R. Watters</td>
<td>Clinical Associate, Department of Surgery, Duke University Medical Center</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 1990

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas D. Christopher</td>
<td>Cardiothoracic Surgical Associates, Richmond, VA</td>
</tr>
<tr>
<td>Michael E. Jessen</td>
<td>Professor and Chairman of the Department of Cardiovascular and Thoracic Surgery, UT Southwestern Medical Center</td>
</tr>
<tr>
<td>James J. Morris</td>
<td>Associate Professor of Surgery, University of North Carolina School of Medicine</td>
</tr>
<tr>
<td>Charles E. Murphy</td>
<td>Assistant Professor of Surgery, Director Cardiothoracic ICU and Stepdown Units, Duke University Medical Center</td>
</tr>
<tr>
<td>John A. Spratt</td>
<td>Cardiothoracic Surgery of Charleston, Charleston, SC</td>
</tr>
<tr>
<td>Bert A. Bowers</td>
<td>Sarasota Memorial Hospital, Sarasota, FL</td>
</tr>
<tr>
<td>H. Kim Lyerly</td>
<td>Professor of Surgery, Assistant Professor in Immunology and Associate Professor of Pathology, Duke University Medical Center</td>
</tr>
<tr>
<td>Raymond G. Makhoul</td>
<td>Surgical Associates of Richmond, Richmond, VA</td>
</tr>
<tr>
<td>George W. Maier</td>
<td>Carolina Cardiovascular &amp; Thoracic Surgery Associates, Gastonia, NC</td>
</tr>
</tbody>
</table>

### 1989

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Ralph H. Damiano Jr.</td>
<td>Professor of Surgery and Chief Division of Cardiothoracic Surgery, Washington University School of Medicine</td>
</tr>
<tr>
<td>James M. Douglas Jr.</td>
<td>Peacehealth Medical Group, Bellingham, WA</td>
</tr>
<tr>
<td>Donald D. Glower Jr.</td>
<td>Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Richard J. Peterson</td>
<td>Riverview Cardiac Surgery, FL</td>
</tr>
<tr>
<td>Stuart J. Knechtle</td>
<td>Professor of Surgery, Emory University School of Medicine</td>
</tr>
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</table>
## Positions of Chief Residents of Surgery (continued)

### 1989

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>S. Chace Lottich</td>
<td>Center for Women’s Health, Greenwood, IN</td>
</tr>
<tr>
<td>David H. Mahvi</td>
<td>Professor of Surgery, President Northwestern Medical Group, Northwestern University</td>
</tr>
<tr>
<td>Francis S. Rotolo</td>
<td>Finney Trimble Surgical Associates at Greater Baltimore Medical Center</td>
</tr>
</tbody>
</table>

### 1988

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
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<tbody>
<tr>
<td>T. Bruce Ferguson</td>
<td>East Carolina Heart Institute at ECU, Brody School of Medicine</td>
</tr>
<tr>
<td>Richard D. Floyd IV</td>
<td>St. Joseph Hospital, Lexington, KY</td>
</tr>
<tr>
<td>George S. Tyson Jr.</td>
<td>Thoracic Surgeon, St. Petersburg, FL</td>
</tr>
<tr>
<td>John F. Lucas III</td>
<td>Lucas Surgical Group, Greenwood, MS</td>
</tr>
<tr>
<td>Walter B. Vernon</td>
<td>SurgOne, P.C., Englewood, CO</td>
</tr>
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</table>

### 1987

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>William L. Holman</td>
<td>Professor of Surgery, University of Alabama at Birmingham; Chief Surgical Services, Birmingham VA Medical Center</td>
</tr>
<tr>
<td>Robert B. Peyton</td>
<td>Clinical Associate Professor of Surgery, University of North Carolina School of Medicine</td>
</tr>
<tr>
<td>Peter K. Smith</td>
<td>Professor of Surgery and Division Chief, Cardiovascular and Thoracic Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Ross M. Ungerleider</td>
<td>Professor of Surgery, Wake Forest Baptist Health</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 1987

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warren J. Kortz</td>
<td>Private practice, Denver, CO</td>
</tr>
<tr>
<td>Douglas S. Reintgen</td>
<td>Professor of Surgery, Director of Cancer Initiatives, University of South Florida</td>
</tr>
<tr>
<td>Laurence H. Ross</td>
<td>Finney Trimble Surgical Associates at Greater Baltimore Medical Center</td>
</tr>
</tbody>
</table>

### 1986

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gary K. Lofland</td>
<td>Children's Mercy Hospitals and Clinic, Kansas City, MO</td>
</tr>
<tr>
<td>J. Mark Williams</td>
<td>Chairman, Department of Cardiovascular Sciences, East Carolina Heart Institute at ECU</td>
</tr>
<tr>
<td>Craig O. Olsen</td>
<td>Cardiovascular &amp; Chest Surgical Associates, Boise, ID</td>
</tr>
<tr>
<td>Peter Van Trigt III</td>
<td>Triad Cardiac &amp; Thoracic Surgeons, Greensboro, NC</td>
</tr>
<tr>
<td>Stephen K. Rerych</td>
<td>Pleasant Valley Hospital, Point Pleasant, WV</td>
</tr>
<tr>
<td>Thomas L. Novick</td>
<td>Southeast Surgical Specialists, Charlotte, NC</td>
</tr>
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### 1984

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert L.R. Wesly</td>
<td>North Florida Regional Med Ctr, Gainesville, FL</td>
</tr>
<tr>
<td>L. George Alexander</td>
<td>Locums Physician, Catawba Piedmont Cardiovascular and Thoracic Surgery, Rock Hill, SC</td>
</tr>
<tr>
<td>Walter R. Chitwood Jr.</td>
<td>Director, East Carolina Heart Institute; Senior Associate Vice Chancellor for Health Sciences, Brody School of Medicine</td>
</tr>
</tbody>
</table>
### Positions of Chief Residents of Surgery (continued)

#### 1984

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard A. Hopkins</td>
<td>Endowed Chair in Pediatric Surgery Research and Director, Cardiac Regenerative Surgery Research Laboratories, Children’s Mercy Kansas City</td>
</tr>
<tr>
<td>J. Dirk Iglehart</td>
<td>Director, Susan F. Smith Center for Women’s Cancers, Dana-Farber Cancer Institute</td>
</tr>
<tr>
<td>Erle H. Austin III</td>
<td>Professor of Surgery, University of Louisville School of Medicine</td>
</tr>
<tr>
<td>James D. Sink</td>
<td>Professor of Surgery, Allegheny University of the Health Sciences, Philadelphia, PA</td>
</tr>
<tr>
<td>Ronald C. Hill</td>
<td>VA Medical Hospital, Asheville, NC</td>
</tr>
<tr>
<td>Robert N. Jones</td>
<td>MidMichigan Physicians Group, Midland, MI</td>
</tr>
<tr>
<td>Peter M. Thurlow</td>
<td>Associated Physicians, Madison, WI</td>
</tr>
<tr>
<td>Bruce D. Schirmer</td>
<td>Professor of Surgery and Vice Chair, Department of Surgery, University of Virginia School of Medicine</td>
</tr>
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#### 1983

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lary A. Robinson</td>
<td>Director, Division of Cardiovascular and Thoracic Surgery, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL</td>
</tr>
<tr>
<td>Peter Scholz</td>
<td>Professor of Surgery, Robert Wood Johnson Medical School</td>
</tr>
<tr>
<td>Jon F. Moran</td>
<td>ECU Physician, Thoracic Surgery, Brody School of Medicine</td>
</tr>
<tr>
<td>Thomas L. Spray</td>
<td>Chief, Division of Cardiothoracic Surgery, Endowed Chair in Pediatric Cardiothoracic Surgery, The Children’s Hospital of Philadelphia</td>
</tr>
<tr>
<td>Charles E. Cox</td>
<td>CEO, Breast Health CRISP (Clinical and Research Integrated Strategic Program); McCann Foundation Endowed Professor of Breast Surgery, USF Health, Tampa, FL</td>
</tr>
</tbody>
</table>
Positions of Chief Residents of Surgery (continued)

1983

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard L. McCann</td>
<td>Professor of Surgery, Duke University Medical Center; Assistant Chief of Surgery, Veterans Administration Medical Center</td>
</tr>
<tr>
<td>William C. Meyers</td>
<td>Founder, Vincera Institute, Philadelphia, PA</td>
</tr>
<tr>
<td>Arthur J. Ross III</td>
<td>Dean, West Virginia University School of Medicine</td>
</tr>
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</table>

1980

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>John C. Alexander</td>
<td>Professor of Clinical Surgery, University of Chicago</td>
</tr>
<tr>
<td>Stephen A. Mills</td>
<td>Associate Professor of Surgery, University of North Carolina School of Medicine</td>
</tr>
<tr>
<td>Norman A. Silverman</td>
<td>Henry Ford Health System, Detroit, MI</td>
</tr>
<tr>
<td>R. Randal Bollinger</td>
<td>Professor of Surgery, Duke University Medical Center (Retired)</td>
</tr>
<tr>
<td>R. Morton Bolman</td>
<td>Professor of Surgery, Harvard Medical School</td>
</tr>
<tr>
<td>George A. Parker</td>
<td>Commonwealth Surgeons, Richmond, VA</td>
</tr>
<tr>
<td>James E. Lowe</td>
<td>Professor of Surgery and Professor of Pathology, Duke University Medical Center</td>
</tr>
<tr>
<td>W. Robins Howe</td>
<td>Founder, Director Cardiac Surgery Program, Western Baptist Hospital, Paducah, KY; Clinical Faculty, University of Louisville &amp; University of Kentucky</td>
</tr>
<tr>
<td>J. Scott Rankin</td>
<td>Associate Clinical Professor, Vanderbilt University Medical Center</td>
</tr>
<tr>
<td>Walter D. Holder Jr.</td>
<td>Polyclinic, Seattle, WA</td>
</tr>
<tr>
<td>Richard M. Larson</td>
<td>Clinical Associate Professor, East Carolina University</td>
</tr>
<tr>
<td>Charles H. Edwards II</td>
<td>Hawthorne Cardiovascular Surgeons, Charlotte, NC</td>
</tr>
</tbody>
</table>
Positions of Chief Residents of Surgery (continued)

1980

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. Peter Graper</td>
<td>Sarasota Cardiovascular-Thoracic, Sarasota, FL</td>
</tr>
<tr>
<td>Thomas H. Marsicano</td>
<td>Cardiac surgeon, Savannah, GA</td>
</tr>
<tr>
<td>John B. Hanks</td>
<td>Professor of Surgery, University of Virginia School of Medicine</td>
</tr>
<tr>
<td>Jeffrey A. Norton</td>
<td>Professor of Surgery and Chief of Oncologic and General Surgery, Stanford University</td>
</tr>
<tr>
<td>Worthington G. Schenk III</td>
<td>Professor of Surgery, University of Virginia School of Medicine</td>
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1979

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lynn H. Harrison</td>
<td>Professor and Chief, Cardiothoracic Surgery, University of Massachusetts Medical School</td>
</tr>
<tr>
<td>William C. DeVries</td>
<td>Clinical Professor of Surgery, George Washington School of Medicine and Health Sciences</td>
</tr>
<tr>
<td>Dana K. Anderson</td>
<td>Professor and Vice-Chair of Surgery, Johns Hopkins; Surgeon-in-Chief, Johns Hopkins-Bayview Medical Center</td>
</tr>
<tr>
<td>George S. Leight Jr.</td>
<td>Professor of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Bruce M. Smith</td>
<td>Associate Professor of Surgery, Georgetown University School of Medicine</td>
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1978

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>James L. Cox</td>
<td>Chairman and Chief Executive Officer, World Heart Foundation; Emeritus Professor of Surgery, Washington University School of Medicine</td>
</tr>
</tbody>
</table>
## Positions of Chief Residents of Surgery (continued)

### 1978

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>John W. Hammon</td>
<td>Professor of Surgery, Wake Forest University School of Medicine</td>
</tr>
<tr>
<td>John P. Grant</td>
<td>Professor of Surgery and Director of the Bariatric Surgery Program, Duke University Medical Center</td>
</tr>
<tr>
<td>Gregory S. Georgiade</td>
<td>Professor of Surgery, Chief of Division of Plastic Surgery, and Vice Chair of Department of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>David K. Wellman</td>
<td>Chief Medical Officer, United Emergency Services, Durham, NC</td>
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### 1977

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Kent W. Jones</td>
<td>Clinical Professor of Surgery, University of Utah; Surgeon, Intermountain Healthcare and Intermountain Medical Center</td>
</tr>
<tr>
<td>Roger C. Millar</td>
<td>Intermountain Cardiovascular, St. George, UT</td>
</tr>
<tr>
<td>William R. Beltz</td>
<td>Susquehanna Health Wound Healing Center, Williamsport, PA</td>
</tr>
<tr>
<td>Richard A. Perryman</td>
<td>Chief of Cardiac Surgical Service, Memorial Healthcare System, Hollywood, FL</td>
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### 1976

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fred A. Crawford Jr.</td>
<td>Distinguished University Professor, Medical University of South Carolina</td>
</tr>
<tr>
<td>M. Wayne Flye</td>
<td>Chief, Thoracic Surgery, St. Louis Veterans Administration Hospital; Chief of Surgery, Saint Louis Connect Care Health Systems</td>
</tr>
<tr>
<td>John W. Yarbrough</td>
<td>Thoracic Cardiovascular Assoc, Columbia, SC</td>
</tr>
<tr>
<td>Lewis H. Stocks III</td>
<td>Stocks Surgical Center, Raleigh, NC</td>
</tr>
</tbody>
</table>
Positions of Chief Residents of Surgery (continued)

### 1976

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Robert P. Barnes</td>
<td>Department Chair, Cardiovascular Services, St. Luke’s Hospital, Boise, ID</td>
</tr>
<tr>
<td>Richard O. Gregory</td>
<td>Private practice, plastic surgery, Orlando, FL</td>
</tr>
</tbody>
</table>

### 1975

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
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<tbody>
<tr>
<td>Thomas M. Daniel</td>
<td>Chief, Section of General Thoracic Surgery, University of Virginia</td>
</tr>
<tr>
<td>Robert H. Jones</td>
<td>Professor of Surgery, Duke University Medical Center</td>
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### 1974

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>James A. Alexander</td>
<td>Professor of Surgery, University of Florida College of Medicine</td>
</tr>
<tr>
<td>Andrew S. Wechsler</td>
<td>Professor of Surgery, Drexel University College of Medicine</td>
</tr>
<tr>
<td>Kenneth P. Ramming</td>
<td>Professor of Surgery, UCLA</td>
</tr>
</tbody>
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### 1973

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewell H. Dixon</td>
<td>President &amp; CEO, St. Kitts Medical, Inc.</td>
</tr>
<tr>
<td>S. Kirby Orme</td>
<td>Cardiovascular &amp; Chest Surgical Associates, Boise, ID</td>
</tr>
<tr>
<td>James C.A. Fuchs</td>
<td>Union Memorial Hospital, Baltimore, MD</td>
</tr>
<tr>
<td>Bradley M. Rogers</td>
<td>Primary Care Center, Charlottesville, VA</td>
</tr>
</tbody>
</table>
### Positions of Chief Residents of Surgery (continued)

#### 1972

<table>
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<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>Don E. Detmer</td>
<td>University Professor of Health Policy Emeritus and Professor of Medical Education, UVA</td>
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#### 1971

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. Linwood Puckett</td>
<td>University of Missouri Health System, Columbia, MO</td>
</tr>
<tr>
<td>Robert E. Cline</td>
<td>President of Cline Cardiovascular Associates, FL</td>
</tr>
<tr>
<td>William A. Gay Jr.</td>
<td>Professor Emeritus of Surgery, Washington University School of Medicine</td>
</tr>
<tr>
<td>Robert W. Anderson</td>
<td>Chairman of Surgery, Duke University Medical Center</td>
</tr>
<tr>
<td>Walter G. Wolfe</td>
<td>Professor of Surgery, Duke University Medical Center; Chief of Thoracic Surgery, VA MC</td>
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#### 1970

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Prominent Position</th>
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<tbody>
<tr>
<td>H. Newland Oldham Jr.</td>
<td>Professor of Surgery, Duke University Medical Center (Retired)</td>
</tr>
<tr>
<td>John M. Porter</td>
<td>Chief of Vascular Surgery, University of Oregon</td>
</tr>
<tr>
<td>Samuel A Wells Jr.</td>
<td>Chairman of Surgery, Washington University</td>
</tr>
</tbody>
</table>
Hamza Aziz, MD

Education:
MD, Duke University School of Medicine, 2010

Training:
General Surgery (PGY1), 6/24/2010-6/30/2011
General Surgery (PGY2), 7/1/2011-6/30/2012
Surgery Research Fellowship – Duke (PGY3), 7/1/2012-7/31/2012
Surgery Research Fellowship – Johns Hopkins (PGY3), 8/1/2012-6/30/2013
Surgery Research Fellowship – Johns Hopkins (PGY4), 7/1/2013-6/30/2014
General Surgery (PGY5), 7/1/2014-6/30/2015
General Surgery (PGY6), 7/1/2015-6/30/2016
General Surgery (PGY7), 7/1/2016-Present

Research Interests:
Genetic etiologies of ascending aortic aneurysm

Clinical Interests:
Cardiothoracic

Publications:


Brian Englum, MD

Education:
MD, Johns Hopkins University School of Medicine, 2010

Training:
General Surgery (PGY1), 6/24/2010-6/30/2011
General Surgery (PGY2), 7/1/2011-6/30/2012
Surgery Research Fellowship (PGY3), 7/1/2012-6/30/2013
Surgery Research Fellowship (PGY4), 7/1/2013-6/30/2014
General Surgery (PGY5), 7/1/2014-6/30/2015
General Surgery (PGY6), 7/1/2015-6/30/2016
General Surgery (PGY7), 7/1/2016-Present

Research Interests:
Pediatric surgery; pediatric surgical oncology; variation in care; pragmatic clinical trials

Clinical Interests:
Pediatric surgery; pediatric surgical oncology; congenital anomalies

Publications:


Ganapathi AM, Speicher PJ, Englum BR, Castleberry AW, Migaly J, Hsu DS,
Mantyh CR. Adjuvant chemotherapy for t1 node-positive colon cancers provides significant survival benefit. Diseases of the colon and rectum 2014:57(12):1341-8.


Englum BR, Pura J, Reed SD, Roman SA, Sosa JA, Scheri RP. A bedside risk calculator to preoperatively distinguish follicular thyroid carcinoma from follicular variant of papillary thyroid carcinoma. World journal of surgery 2015:39(12):2928-34.


Chief Resident Profiles (continued)


Schechter MA, Ganapathi AM, Englum BR, Speicher PJ, Daneshmand MA, Davis RD, Hartwig MG. Spontaneously breathing extracorporeal membrane oxygenation support provides the optimal bridge to lung transplantation. Transplantation 2016.

Schechter MA, Shah AA, Englum BR, Williams JB, Ganapathi AM, Davies JD, Welsby IJ, Hughes GC. Prolonged postoperative respiratory support


Asvin Ganapathi, MD

Education:
MD, Case Western Reserve University, 2010

Training:
General Surgery (PGY1), 6/24/2010-6/30/2011
General Surgery (PGY2), 7/1/2011-6/30/2012
Surgery Research Fellowship (PGY3), 7/1/2012-6/30/2013
Surgery Research Fellowship (PGY4), 7/1/2013-6/30/2014
General Surgery (PGY5), 7/1/2014-6/30/2015
Jt General Surgery and Thoracic Surgery (PGY6), 7/1/2015-6/30/2016
Jt General Surgery and Thoracic Surgery (PGY7), 7/1/2016-Present

Research Interests:
Cardiac bioengineering; animal models of cardiac research; clinical outcomes specific to variations and quality of care

Clinical Interests:
Adult cardiac surgery; critical care; therapies for organ failure, specifically mechanical support and transplantation

Publications:


Chief Resident Profiles (continued)


Hanna JM, Andersen ND, Ganapathi AM, McCann RL, Hughes GC. Five-Year Results for Endovascular Repair of Acute Complicated Type B Aortic Dissection. *J Vasc Surg* 2014; 59:96-106.


Andersen ND, Keenan JE, Ganapathi AM, Gaca JG, McCann RL, Hughes GC. Current Management and Outcome of Chronic Type B Aortic Dissection: Results with Open and Endovascular Repair since the Advent of Thoracic Endografting. *Ann Cardiothorac Surg* 2014; 3: 264-74.


Englum BR Pavlisko E, Mack M, Ganapathi AM, Schechter MA, Hanna JM, Hughes GC. Catastrophic Immunologic Reaction and Pseudoaneurysm


Chief Resident Profiles (continued)


Englum BR, Ganapathi AM, Schechter MA, Harrison JK, Glower DD, Hughes GC. Changes in Risk Profile and Outcomes of Patients Undergoing Surgical Aortic Valve Replacement from the Pre- to Post-Transcatheter Aortic Valve Replacement Eras. *Ann Thorac Surg* 2015; In Press


Brandon Henry, MD, MPH

**Education:**
MD, University of Pennsylvania School of Medicine, 2010  
MPH, Rollins School of Public Health, Emory, 2010

**Training:**
General Surgery (PGY1), 6/24/2010-6/30/2011  
General Surgery (PGY2), 7/1/2011-6/30/2012  
Surgery Research Fellowship (PGY3), 7/1/2012-6/30/2013  
Surgery Research Fellowship (PGY4), 7/1/2013-6/30/2014  
General Surgery (PGY5), 7/1/2014-6/30/2015  
General Surgery (PGY6), 7/1/2015-6/30/2016  
General Surgery (PGY7), 7/1/2016-Present

**Research Interests:**
Surgical education; surgical simulation

**Clinical Interests:**
Vascular surgery

**Publications:**


Mohan Mallipeddi, MD

Education:
MD, Vanderbilt University School of Medicine, 2010

Training:
General Surgery (PGY1), 6/24/2010-6/30/2011
General Surgery (PGY2), 7/1/2011-6/30/2012
Surgery Research Fellowship (PGY3), 7/1/2012-6/30/2013
Surgery Research Fellowship (PGY4), 7/1/2013-6/30/2014
General Surgery (PGY5), 7/1/2014-6/30/2015
General Surgery (PGY6), 7/1/2015-6/30/2016
General Surgery (PGY7), 7/1/2016-Present

Research Interests:
Health services research – i.e., health care economics, resource utilization, outcomes; basic science – i.e., nascent interest in GI physiology after bariatric surgery

Clinical Interests:
Foregut surgery; bariatric surgery

Publications:


Matthew Schechter, MD

Education:
MD, Duke University School of Medicine, 2010

Training:
General Surgery (PGY1), 6/24/2010-6/30/2011
General Surgery (PGY2), 7/1/2011-6/30/2012
Surgery Research Fellowship (PGY3), 7/1/2012-6/30/2013
Surgery Research Fellowship (PGY4), 7/1/2013-6/30/2014
General Surgery (PGY5), 7/1/2014-6/30/2015
General Surgery (PGY6), 7/1/2015-6/30/2016
General Surgery (PGY7), 7/1/2016-Present

Research Interests:
Molecular mechanisms of heart failure; primary graft dysfunction; outcomes of mechanical circulatory support and cardiac transplant

Clinical Interests:
Heart failure; transplantation

Publications:


Englum BR, Ganapathi AM, Schechter MA, Harrison JK, Glower DD, Hughes GC. Changes in Risk Profile and Outcomes of Patients Undergoing Surgical Aortic Valve Replacement from the Pre- to Post-Transcatheter Aortic Valve Replacement Eras. Ann Thorac Surg. 2015 [In Press]


**Paul Speicher, MD**

**Education:**
MD, Northwestern University Feinberg School of Medicine, 2010

**Training:**
General Surgery (PGY1), 6/24/2010-6/30/2011
General Surgery (PGY2), 7/1/2011-6/30/2012
Surgery Research Fellowship (PGY3), 7/1/2012-6/30/2013
Surgery Research Fellowship (PGY4), 7/1/2013-6/30/2014
General Surgery (PGY5), 7/1/2014-6/30/2015
Jt General Surgery and Thoracic Surgery (PGY6), 7/1/2015-6/30/2016
Jt General Surgery and Thoracic Surgery (PGY7), 7/1/2016-Present

**Research Interests:**
Health services research; comparative effectiveness; resource utilization and decision-making; phase I/II clinical trials; statistical modeling

**Clinical Interests:**
Thoracic oncology; lung transplantation

**Publications:**


Speicher PJ, Aziz H, Bhattacharya S, Baerman K. “Septic thrombophlebitis


Rialon KL, Speicher PJ, Ceppa EP, Rendell T, Vaslef SN, Beaven A, Tyler DS,


Yang CJ, Meyerhoff RR, Mayne NR, Singhapricha T, Toomey CB, Speicher PJ, Hartwig MG, Tong BC, Onaitis MW, Harpole DH Jr, D’Amico TA, Berry MF. “Long-term survival following open versus thoracoscopic lobectomy
Chief Resident Profiles (continued)


Current Residents

PGY-1

David Becerra, MD
Medical school:
Indiana University School of Medicine
College/university:
Rose-Hulman Institute of Technology

Norma Farrow, MD
Medical school:
Johns Hopkins University School of Medicine
College/university:
University of Virginia

Zachary Fitch, MD
Medical school:
Eastern Virginia Medical School
College/university:
College of William and Mary

Oliver Jawitz, MD
Medical school:
Yale University School of Medicine
College/university:
Washington University in St. Louis
Current Residents (continued)

PGY-1

Vignesh Raman, MD
Medical school:
Geisel School of Medicine at Dartmouth
College/university:
University of California San Diego

Christopher Reed, MD
Medical school:
Virginia Tech Carilion School of Medicine
College/university:
Johns Hopkins University

David Thompson, MD
Medical school:
Tulane University School of Medicine
College/university:
New York University

PGY-2

Justin Barr, MD, PhD
Medical school:
University of Virginia School of Medicine
College/university:
Washington University in St. Louis (BA)
and Yale University (PhD)
Current Residents (continued)

PGY-2

Whitney Lane, MD
Medical school:
Duke University Medical School
College/university:
Duke University

Carrie Moore, MD
Medical school:
Vanderbilt University School of Medicine
College/university:
Vanderbilt University

Paul Schroder, MD
Medical school:
The University of Toledo College of Medicine
College/university:
John Carroll University

Karenia Soto, MD
Medical school:
University of Miami Leonard M. Miller School of Medicine
College/university:
Harriet Wilkes Honors College, Florida Atlantic University
Current Residents (continued)

PGY-2

Joshua Watson, MD  
Medical school:  
Johns Hopkins University School of Medicine  
College/university:  
Georgetown University

John Yerxa, MD  
Medical school:  
Duke University School of Medicine  
College/university:  
Boston College

PGY-3

Ehsan Benrashid, MD  
Medical school:  
University of Virginia School of Medicine  
College/university:  
Clemson University

Jina Kim, MD  
Medical school:  
University of Michigan Medical School  
College/university:  
Massachusetts Institute of Technology
Current Residents (continued)

PGY-3

Daniel Nussbaum, MD
Medical school:
Keck School of Medicine of the University of Southern California
College/university:
University of Wisconsin-Madison

Linda Youngwirth, MD
Medical school:
University of Wisconsin Medical School
College/university:
University of Wisconsin

PGY-4

Mohamed Adam, MD
College/university:
Omdurman Islamic University

Brian Gulack, MD
Medical school:
University of Pittsburgh
College/university:
Union College
Current Residents (continued)

PGY-4

Jeffrey Keenan, MD
Medical school:
University of Maryland School of Medicine
College/university:
University of North Carolina at Chapel Hill

Christopher McCoy, MD
Medical school:
Emory University School of Medicine
College/university:
Duke University

Mithun Shenoi, MD
Medical school:
University of Minnesota Medical School
College/university:
Carnegie Mellon University

Chi-fu Jeffrey Yang, MD
Medical school:
Harvard Medical School
College/university:
Harvard College
Current Residents (continued)

PGY-5

Hamza Aziz, MD
Medical school:
Duke University School of Medicine
College/university:
Duke University

Brian Englum, MD
Medical school:
Johns Hopkins University School of Medicine
College/university:
Indiana University

Asvin Ganapathi, MD
Medical school:
Case Western Reserve University School of Medicine
College/university:
Stanford University

Brandon Henry, MD, MPH
Medical school:
University of Pennsylvania School of Medicine
College/university:
Rollins School of Public Health - Emory University
Current Residents (continued)

PGY-5

Mohan Mallipeddi, MD
Medical school:
Vanderbilt University School of Medicine
College/university:
Stanford University

Matthew Schechter, MD
Medical school:
Duke University School of Medicine
College/university:
Haverford College

Paul Speicher, MD
Medical school:
Northwestern University Feinberg School of Medicine
College/university:
University of Virginia

Surgical Research Fellows
Year 1

Morgan Cox, MD
Medical school:
Indiana University School of Medicine
College/university:
Butler University
Current Residents (continued)

Surgical Research Fellows Year 1

**Robert Davis, MD, PhD**
*Medical school:* Michigan State University
*College/university:* Kalamazoo College

**Brian Ezekian, MD**
*Medical school:* University of Virginia School of Medicine
*College/university:* Pennsylvania State University

**Brian Gilmore, MD**
*Medical school:* Duke University School of Medicine
*College/university:* Emory University

**Uttara Nag, MD**
*Medical school:* University of Pittsburgh School of Medicine
*College/university:* Columbia University
Current Residents (continued)

Surgical Research Fellows
Year 1

Cecilia Ong, MD
Medical school:
Duke University School of Medicine
College/university:
Yale University

Megan Turner, MD
Medical school:
University of Washington School of Medicine
College/university:
University of Washington

Surgical Research Fellows
Year 2

Michael Mulvihill, MD
Medical school:
Duke University School of Medicine
College/university:
Pomona College

David Ranney, MD
Medical school:
University of Michigan
College/university:
University of Michigan
Current Residents (continued)

Surgical Research Fellows
Year 2

**Shanna Sprinkle, MD**
Medical school:
University of Pennsylvania
**College/university:**
Johns Hopkins University

**Alice Wang, MD**
Medical school:
Duke University School of Medicine
**College/university:**
University of Chicago

**Babatunde Yerokun, MD**
Medical school:
The Pritzker School of Medicine, University of Chicago
**College/university:**
Stanford University
Current Residents (continued)

**Surgical Research Fellows**

**Year 3**

**Adam Shoffner, MD**

Medical school: Yale University School of Medicine

**College/university:** University of Kansas

**Zhifei Sun, MD**

Medical school: University of Texas Southwestern Medical School

**College/university:** Rice University
Dedicated Resident Research Program in General Surgery

The General Surgery Residency Program offers a two-year research experience following the PGY2 year that is dedicated both to research experiences and learning.

The research experiences are under the guidance of experienced mentors and include clinical and/or basic science research projects, applications for funding, and meeting abstract and paper submissions. Research topic and mentor selection officially begins during the PGY1 year and is aided through quarterly meetings with the Program Director for the research program and the Associate Director for Research Education. Together the resident and their mentor(s) design a research plan, which is presented to the Chair of Surgery during the PGY2 year.

Funding for the research years is shared between the Department of Surgery and the mentor's division. All PGY2 residents develop and submit a Kirchstein National Research Service Award (NRSA) proposal for the April deadline prior to their first research year.

The unique interaction between basic science and clinical faculty within the Department of Surgery, which includes the Division of Surgical Science and other education initiatives (Duke SCORES and DUKE MERITS), allows the resident to choose from a wide range research topics that can include cardiovascular, oncology, biomedical engineering, immunology, and transplant sciences. This interdisciplinary research and clinical education provides an essential academic experience—applying for a grant from the NIH—and gives fellows the opportunity to develop a research plan for internal NIH-funded fellowship (institutional T32) grants, the DCRI Research Fellowship Training Program, or foundation fellowships such as the Thoracic Surgery Foundation for Research and Education (TSFRE), Ethicon-SUS (Society of University Surgeons), American College of Surgeons Clinical Scholars in Residence Program, or American Cancer Society, amongst others.

Progress is monitored by quarterly meetings with the residents and their mentors with the Research Residency Director and Associate Director for Research Education. Adjustments can be made along the way, depending on progress and interest. This oversight ensures a rewarding and successful experience for each resident. Metrics for success include project funding application submission, meeting abstract submissions and presentations, and paper writing, submission, and publications.

If you have questions, contact:

David H. Harpole, MD
Resident Research Director
Professor of Surgery
Cardiovascular and Thoracic Surgery

Gayathri R. Devi, MS., PhD
Associate Professor of Surgery
Associate Director for Research Education
Surgical Sciences
Research Laboratories

An internationally recognized leader in laboratory and clinical investigation, the Duke Department of Surgery receives over $35 million dollars of grant and award funding each year. It has been the top department of surgery recipient of NIH awards for over 20 years.

Our team of over 200 faculty members publish hundreds of articles annually in peer-reviewed journals, disseminating key findings and insights far beyond our walls. We welcome the contributions of our residents in advancing the science of surgery in our research labs.

Highlights of research performed at Duke Surgery follow. Find more information at surgery.duke.edu.
Duke Endocrine Neoplasia Diseases Research Group

**Principal Investigator**
Julie Sosa, MD

Research in the Duke Endocrine Neoplasia Research Group focuses on benign and malignant diseases of the thyroid, parathyroid, pancreas, and adrenal glands. Although our primary emphasis is health services research and health outcomes, we are also interested in examining different issues along the continuum of patient care, including translational research, the psychological and economic impact on patients of endocrine diseases and their subsequent treatment, and patients’ decisions regarding the different diagnostic and treatment strategies available to them. The group comprises surgeons, endocrinologists, medical and radiation oncologists, residents, fellows, health services researchers, epidemiologists, pathologists, biostatisticians, surgical scientists, pharmacologists, and environmental health scientists at Duke, as well as surgery and biomedical engineering faculty from UNC-Chapel Hill and NC State.

**Website**

**Recent Publications**


Determinants of Progression in Early Breast and Ovarian Cancer

**Principal Investigators**
Jeffrey Marks, PhD  
Eun-Sil Shelley Hwang, MD, MPH

Research in the Marks-Hwang laboratory focus on the earliest stages of breast cancer, exploring the genetics, microenvironment, and evolution of early breast cancer. We are studying primary human ductal carcinoma in situ (DCIS) lesions that have not progressed to invasive cancer and comparing these to lesions that have progressed to invasive and metastatic disease. Our central hypothesis regarding progression is that principles of evolution applied to human cancer can help to predict which lesions should be aggressively treated from those that are indolent and unlikely to progress. The lab is highly interdisciplinary and integrates scientific collaborators from UCSF, OHSU, Stanford University, USC, and member institutions of the TBCRC, a clinical trials translational research network.

**Website**  

**Publications**


Cardiothoracic Surgery Translational Research Laboratory

Principal Investigator
Carmelo Milano, MD

The mission of the Cardiothoracic Surgery Translational Research Laboratory is to gain knowledge that will directly impact the clinical practice of cardiac surgery, heart failure therapy, heart transplantation, and mechanical circulatory support. We conduct translational research by utilizing clinical specimens obtained through the Duke Human Heart Repository and large and small animal models. The lab has expertise and experience with molecular assays, cell culture studies, tissue banking, biomarker development, viral-based gene therapy and large animal models of disease states. We welcome undergraduates, graduate and medical students, postgraduates, and medical residents interested in research investigation in these areas.

Website

Recent Publications
Cooper, LB, Milano, CA, Williams, M, Swafford, W, Croezen, D, Van Bakel, AB, Rogers, J, and Patel, CB. “Thyroid hormone use during cardiac transplant organ procurement.” Clinical transplantation (October 11, 2016).


Luo, N, Rogers, JG, Dodson, GC, Patel, CB, Galanos, AN, Milano, CA, O’Connor, CM, and Mentz, RJ. “Usefulness of palliative care to complement the management of patients on left ventricular assist devices.” The American journal of cardiology 118, no. 5 (September 2016): 733-738.

Cardiovascular and Pulmonary Biology Laboratory

Principal Investigator
Shu Shiu-Shi Lin, MD, PhD

Research in the Cardiovascular and Pulmonary Biology Laboratory has investigated various aspects of chronic aspiration-induced lung injury in non-transplant settings by using a rodent model of chronic gastric fluid aspiration. Our ongoing studies have revealed that the development of obliterative bronchiolitis in this model, a major cause of chronic lung allograft dysfunction (CLAD) in patients, is dependent on a three-hit injury involving: (a) ischemia-reperfusion injury, (b) alloimmunity, and (c) chronic aspiration. In collaboration with Dr. William Parker at Duke, we also conduct research into factors present in post-industrial society that lead to aberrant immune function.

Website

Recent Publications


Duke Center for Aortic Disease Research Program

**Principal Investigator**
G. Chad Hughes, MD

The goal of the Duke Center for Aortic Disease Research Program is to further our understanding of the pathophysiology of aortic diseases, develop better surgical and non-surgical treatments, and improve short- and long-term outcomes after thoracic aortic surgery. Our key projects include treatment and outcomes of acute and chronic aortic dissection; improving outcomes after proximal aortic surgery; improving outcomes after thoracic endovascular aortic repair; and developing and advancing transcatheter aortic valve replacement.

**Website**

**Recent Publications**

Andersen, ND, and Hughes, GC. “Concomitant replacement of the ascending aorta is free-for some.” The Journal of thoracic and cardiovascular surgery 152, no. 3 (September 2016): 799-800.


Mechanical Support for Heart and Lung Disease Research

Principal Investigator
Mani Daneshmand, MD

Our research focuses on the use of mechanical circulatory support for individuals with acute treatable conditions causing lung or heart failure. Dr. Daneshmand and co-investigators seek to study important clinical questions regarding variables that influence outcomes for therapies for advanced heart or lung failure and how mechanical support is best applied in various clinical settings. We’ve used large databases and registries such as the Interagency Registry for Mechanical Assisted Circulatory Support (INTERMACS), United Network for Organ Sharing (UNOS), and the Nationwide Inpatient Sample (NIS) to evaluate cost-effectiveness, safety, and quality of life for mechanical circulatory support therapies.

Website

Recent Publications


Fibrosis and Wound Healing

**Principal Investigator**
Howard Levinson, MD

This laboratory investigates the mechanisms of fibrosis and tissue remodeling and aims to develop a novel small molecule inhibitor to prevent fibrocontractile disease progression. There is a large unmet need for an effective pharmaceutical to prevent fibrosis. The main projects in the laboratory currently seek to: (1) evaluate the clinicopathologic correlation between expression of NMMII (isoforms IIA, IIB, IIC), myosin light chain kinase (MLCK), Rho kinase, MRLC, MYPT, and α-SMA as they relate to scar contracture progression and (2) clarify the relationship between NMMII regulation in fibroblasts, protomyofibroblasts, and myofibroblasts and tractional force generation.

**Website**

**Recent Publications**


Laboratory for Effectiveness, Quality, Implementation & Policy in Health Care (EQUIP)

**Principal Investigator**
Alexander C. Allori, MD

The Laboratory for Effectiveness, Quality, Implementation & Policy in Health Care (EQUIP) utilizes epidemiology, research-design principles, biostatistics, and computational data-science methods to focus on these areas of research: comparative effectiveness research; pragmatic health-systems research; health-technology assessment; quality assessment, control and improvement; dissemination and implementation science; geospatial analysis; disparities of care; health policy; and health care economics.

**Website**

**Publications**


Tissue Engineering and Implantable Devices

Principal Investigator
Bruce Klitzman, PhD

Researchers in this lab are currently working on the attachment of endothelial cells to vascular grafts in order to impart a more blood-compatible surface. We are also studying methods to implant glucose sensors for diabetics, developing a new generation of glaucoma drainage devices, and improving the biocompatibility of implants through the coating of a special material that releases nitric oxide. Our projects receive funding from the National Institutes of Health and the Department of Defense.

Website

Recent Publications


Immune Management Laboratory

**Principal Investigator**
Allan Kirk, MD, PhD

Research in the Immune Management Laboratory is directed toward understanding transplant rejection and translating this understanding into less morbid therapies for transplant recipients. Our group uses in vitro and animal models to develop transplant strategies and then investigates them in clinical trials. We also receive samples from patients in clinical trials to help understand what the next questions should be. We have successfully targeted several costimulatory molecules with monoclonal antibodies in primates and in humans, and are currently working to determine the best means of using these molecules to prevent kidney transplant rejection.

**Website**

**Recent Publications**

Chinnadurai, R, Copland, IB, Garcia, MA, Petersen, CT, Lewis, CN, Waller, EK, Kirk, AD, and Galipeau, J. “Cryopreserved mesenchymal stromal cells are susceptible to T-cell mediated apoptosis which is partly rescued by IFNγ Licensing.” Stem cells (Dayton, Ohio) 34, no. 9 (September 2016): 2429-2442.


Knechtle Lab

Principal Investigator
Stuart Knechtle, MD

Research in the Knechtle Lab focuses on the immunology of organ transplantation. Two unsolved problems in transplantation are: (1) injury caused by antibody directed at the donor organ and (2) recurrence of autoimmune disease after transplantation. Neither of these immunologic injuries is well addressed by current immunosuppressive therapy, and both prevent successful long-term allograft function. Our laboratory works in animal models to address the first of these problems and is engaged in human clinical trials to address the second.

Website
https://surgery.duke.edu/divisions/abdominal-transplant-surgery/research/research-laboratories/knechtle-lab

Recent Publications


Vascularized Composite Allograft Laboratory

Principal Investigator
Linda Cendales, MD

Our research facilitates the translation of vascularized composite allotransplantation (VCA) from the bench to the bedside. VCA refers to the transplantation of multiple tissues, such as skin, muscle, tendon, nerve, and bone, as a functional unit (e.g., a hand). Several recent advances in clinical organ transplant immunosuppression and experimental VCA have now made it feasible to consider clinical VCA for functional restoration in patients with the loss of one or both hands or large tissue defects that may not be reconstructed with autologous tissue.

Website
https://surgery.duke.edu/divisions/abdominal-transplant-surgery/research/research-laboratories/vascularized-composite-allograft-laboratory

Recent Publications


Vascular Surgery Research Laboratory

**Principal Investigator**
Jeffrey Lawson, MD, PhD

The Vascular Surgery Research Laboratory is actively pursuing basic, translational, and clinical research activities related to the fields of blood coagulation, vascular biology, and vascular surgery. The laboratory has become a leader in the field of vascular translational research and has successfully developed a number of molecular, cellular, and tissue engineered technologies through translational animal studies to first-in-man clinical trials. Projects include preclinical and clinical evaluation of human tissue engineered blood vessels; venous remodeling after arterial bypass and vascular access creation; and human blood coagulation response to trauma and elective surgery.

**Website**
https://surgery.duke.edu/divisions/vascular-surgery/research/research-laboratories/vascular-surgery-research-laboratory

**Recent Publications**


Antiviral Drug Discovery Laboratory

Principal Investigator
Chin Ho Chen, PhD

The Laboratory of Antiviral Drug Discovery conducts research for the development of novel therapeutics against HIV-1 and influenza viruses. Projects include novel small molecules against HIV-1 and influenza viruses; identification of biological active principles from natural products; lead optimization of antivirals; and molecular mechanisms of antiviral actions. Among our achievements is the discovery of HIV-1 entry inhibitors through the study of HIV-1 Env-mediated cell-cell fusion.

Website

Recent Publications
Zhao, Y, Gu, Q, Morris-Natschke, SL, Chen, CH, and Lee, KH. “Incorporation of privileged structures into Bevirimat can improve activity against wild-type and Bevirimat-resistant HIV-1.” Journal of medicinal chemistry (September 22, 2016).
Zhong, JD, Zhao, XW, Chen, XQ, Li, HM, Chen, CH, Xia, XS, and Li, RT. “Two new ursane-type triterpenoid saponins from Elsholtzia bodinieri.” Archives of pharmacal research 39, no. 6 (June 2016): 771-777.
Cardiovascular Biology Laboratory

**Principal Investigator**
Bruce Sullenger, PhD

The Cardiovascular Biology Laboratory is focused on multidisciplinary translational research approaches to the study of blood coagulation, inflammation, and atherogenesis at the molecular level. Novel anti-coagulation approaches developed within the program are presently undergoing preclinical and clinical evaluation. Ongoing studies are aimed at exploring molecular therapeutic approaches in the treatment of cardiovascular disease. We strive to develop novel, safe, and effective nucleic acid therapeutics. The lab currently focuses on two areas: (1) RNA and DNA repair via targeted trans-splicing and (2) the development of RNA ligands to protein targets to block or alter their function.

**Website**

**Recent Publications**
Jackman, JG, Juwarker, H, Poveromo, LP, Levinson, H, Leong, KW, and Sullenger, BA. “Polycationic nanofibers for nucleic acid scavenging. (Published online)” Biomacromolecules (October 14, 2016).


Lee, Y, Urban, JH, Xu, L, Sullenger, BA, and Lee, J. “2'fluoro modification differentially modulates the ability of RNAs to activate pattern recognition receptors.” Nucleic acid therapeutics 26, no. 3 (June 2016): 173-182.
Cell Death Laboratory

Principal Investigator
Gayathri R. Devi, PhD

Our research group focuses on translational and clinical applications of programmed cell death signaling. We are particularly interested in elucidating molecular mechanisms of stress-induced cell survival/death signaling in normal and cancer cells and how this process regulates immune response. Current funded research projects in the lab focus on innovative approaches toward immunosuppressive minimization; in vitro and in vivo tumor biology models; novel approaches toward islet xenotransplantation; and innovative preclinical models and strategies to modulate this anti-cell death.

Website
https://surgery.duke.edu/divisions/surgical-sciences/research/research-laboratories/cell-death-laboratory

Recent Publications


Center for Applied Therapeutics

Principal Investigator
H. Kim Lyerly, MD

The Center for Applied Therapeutics encompasses a broad array of research activities involved in the development, preclinical testing, and clinical testing of novel therapies targeting cancer or precancerous conditions. Major research areas of focus are early cancer genomics and biology; in vivo detection of malignant cells; immune therapy of cancer; population sciences; environmental health scholars; and international/global studies.

Website
https://surgery.duke.edu/divisions/surgical-sciences/research/research-laboratories/center-applied-therapeutics

Recent Publications
Quiroga, D, Lyerly, HK, and Morse, MA. “Deficient mismatch repair and the role of immuno-therapy in metastatic colorectal cancer.” Current treatment options in oncology 17, no. 8 (August 2016): 41-. (Review)

Vaidyanathan, G, McDougald, D, Choi, J, Koumarianou, E, Weitzel, D, Osada, T, Lyerly, HK, and Zalutsky, MR. “Preclinical evaluation of 18F-labeled anti-HER2 nanobody conjugates for imaging HER2 receptor expression by immuno-PET.” Journal of nuclear medicine: official publication, Society of Nuclear Medicine 57, no. 6 (June 2016): 967-973.


Endocrine Neoplasia Laboratory

**Principal Investigator**
James Koh, PhD

In collaboration with Dr. Julie Sosa, the Endocrine Neoplasia Laboratory employs a combination of molecular, murine modeling, and live-cell imaging approaches to examine the underlying mechanisms of disrupted calcium sensing in parathyroid tumors. Our group has shown recently that parathyroid adenomas are comprised of functionally discrete and separable cellular subpopulations that respond differentially to extracellular calcium stimulation and that arise in many cases following polyclonal expansion of progenitor cells within the parathyroid gland. Our goal is to understand how perturbed biochemical signaling can contribute to the development of preneoplastic lesions in human endocrine neoplasia.

**Website**
https://surgery.duke.edu/divisions/surgical-sciences/research/research-laboratories/endocrine-neoplasia-laboratory

**Recent Publications**


Immune Dysfunction and Evolutionary Mismatch Laboratory

**Principal Investigators**
William Parker, PhD

The primary focus of our laboratory is the concept of “evolutionary mismatch” and how that affects immune function in the modern world. An evolutionary mismatch is simply described as a condition in which an organism’s current environment leads to disease because it does not match the environment which drove the evolution of that organism’s genes. We are interested in normalizing immune function in Western society, in particular by dealing with one of the most profound and impactful consequences of evolutionary mismatch, “biome depletion”—the loss of biodiversity from the ecosystem of the human body.

**Website**
https://surgery.duke.edu/divisions/surgical-sciences/research/research-laboratories/immune-dysfunction-and-evolutionary-mismatch-laboratory

**Recent Publications**


“Lessons learned from drug design and development.” Perspectives in public health 136, no. 4 (July 1, 2016): 195-196.


Immune Mechanisms of Disease Pathogenesis Laboratory

Principal Investigator
John S. Yi, PhD

The Immune Mechanisms of Disease Pathogenesis laboratory is focused on developing a comprehensive understanding of the cell-mediated immune responses to diseases spanning from cancer to autoimmune diseases. This disease spectrum is an example of the benefits and consequences of the immune response and the critical balance that is required to achieve immune homeostasis. In our laboratory, we are deeply interested in how this balance in the immune response gets skewed in favor of autoimmunity or skewed in the opposite direction to elicit a strong immune response to eliminate pathogens without damaging the host. To profile the immune response, we utilize high dimensional flow cytometry and multiplex cellular assays to define the phenotype and functional capacity of immune cell subsets.

Website

Recent Publications


Immune Responses and Virology Laboratory

**Principal Investigator**
Georgia Tomaras, PhD

The goal of the Immune Responses and Virology Laboratory is to understand the cellular and humoral immune response to HIV-1 infection and vaccination that are involved in protection from HIV-1. Research in our laboratory centers around the following three main projects: (1) antiviral CD8+ T cell responses in HIV-1 infection and post-vaccination, (2) mucosal and systemic antibody responses to infection and vaccination in both non-human primates and humans, and (3) the ontogeny of neutralizing antibodies in HIV-1 infection.

**Website**

**Recent Publications**


Immunologic Signatures Laboratory

**Principal Investigator**
Kent J. Weinhold, PhD

The Immune Signatures Laboratory is the academic home for the Duke Immune Profiling Core (DIPC), a School of Medicine Shared Resource. In addition to our ongoing HIV/AIDS research projects, we’re presently focused on utilizing a comprehensive repertoire of highly standardized and formerly validated assay platforms to profile the human immune system in order to identify immunologic signatures that predict clinical outcomes. These are the very same assay platforms that have proven extraordinarily useful in profiling immunologic changes during acute and chronic HIV infection as well as in the context of elite virologic control.

**Website**
https://surgery.duke.edu/divisions/surgical-sciences/research/research-laboratories/immunologic-signatures-laboratory

**Recent Publications**


Immunology, Inflammation, and Immunotherapy Laboratory

**Principal Investigator**
Smita Nair, PhD

The research in our laboratory focuses on the design and testing of novel vaccines against cancer and viral infections using murine and human assay systems. In a pioneering study, our group demonstrated that dendritic cells, pulsed with unfractionated total RNA isolated from tumor cells, stimulates tumor immunity both in murine tumor models and in vitro human assays. A large number of our preclinical strategies have been translated into Phase I clinical trials in cancer patients. The focus and challenge of our laboratory, both at the preclinical and clinical level, is to augment the clinical benefit associated with immunotherapy. Our long-term goals are to: (1) evaluate the combined effects of individual strategies, (2) extend the clinical exploration to multiple cancers, and (3) combine immunotherapy and immune modulation with targeted cytotoxic therapy (radiotherapy, chemotherapy, immunotoxin therapy, and oncolytic poliovirus therapy).

**Website**

**Recent Publications**


Innate and Adaptive Cellular Cytotoxicity Laboratory

**Principal Investigator**
Guido Ferrari, MD

The overall goal of the laboratory is to understand the ontogeny of HIV-1 specific MHC class I-restricted and non-restricted immune responses that work by eliminating HIV-1 infected cells and how these can be induced by AIDS vaccine candidates. The studies gravitate around class I-mediated cytotoxic CD8+ T cell responses, antibody-dependent cellular cytotoxicity (ADCC), gene expression in effector cellular subsets, and development of Ab-based molecules that can engage cytotoxic effector subsets.

**Website**

**Recent Publications**


Laboratory for AIDS Vaccine Research and Development

Principal Investigator
David Montefiori, PhD

Our major research interests are viral immunology and HIV vaccine development, with a special emphasis on neutralizing antibodies. One of our highest priorities is to identify immunogens that generate broadly neutralizing antibodies for inclusion in vaccines. Many aspects of neutralizing antibodies are studied in our laboratory, including mechanisms of neutralization, viral escape from neutralization, and epitope diversity among the many different genetic subtypes and geographic distributions of the virus.

Website
https://surgery.duke.edu/divisions/surgical-sciences/research/research-laboratories/laboratory-aids-research-and-development

Recent Publications


Faculty

Duke Surgery faculty members are both expert practitioners and valuable mentors. They have been trained at some of the most prestigious institutions in the country, and many are regarded internationally as experts in their field. Every year, they perform more than 30,000 procedures, publish hundreds of articles in peer-reviewed journals, and treat some of the rarest and most challenging medical conditions.

At the same time, they are committed to providing comprehensive training and education to medical students, residents, and fellows. Faculty members show a high level of responsibility for trainees’ futures, taking the time to develop relationships that support a collaborative learning environment. Residents are encouraged to begin mentorship relationships with faculty in the first year of their training and to develop these into lasting collaborative associations. This direct access to experts allows residents to gain direct knowledge that cannot be found through classroom instruction.

In addition to being the academic home for faculty in the traditional general surgical specialties, the Department houses faculty in Cardiovascular and Thoracic Surgery, Otolaryngology, Plastic Surgery, Urologic Surgery, and Vascular Surgery, as well as basic science faculty within the Division of Surgical Sciences. This enhances the breadth of experience afforded the general surgery resident. Members of the General Surgery and Cardiovascular and Thoracic faculty are listed below, as rotations on these specialties are most prevalent for the general surgery resident.
Advanced Oncologic and GI Surgery

Dan G. “Trey” Blazer III, MD
Associate Professor of Surgery

**Title:**
Director, Hepatopancreatobiliary (HPB) Fellowship

**Training:**
MD, Duke University School of Medicine, 1999

**Residency:**
General Surgery, University of Michigan, 1999–2006

**Fellowship:**
Surgical Oncology, National Cancer Institute, Maryland, 2002–2004
Surgical Oncology, University of Texas, MD Anderson Cancer Center, 2006–2008

**Clinical Interests:**
Diagnosis and surgical management of solid tumors, including colorectal, hepatobiliary, and pancreatic malignancies; soft tissue sarcomas; regional perfusion strategies including hyperthermic intraperitoneal chemotherapy (HIPEC)

**Research Interests:**
Biology and therapeutic approaches toward sarcomas

Gayle Ackerman DiLalla, MD
Assistant Professor of Surgery

**Training:**
MD, University of Missouri–Kansas City School of Medicine, 1987
Oluwadamilola Motunrayo Fayanju, MD, AB, MA
Assistant Professor of Surgery

Training:
MD, Washington University School of Medicine, 2007

Residency:
General Surgery Resident, Surgery, Washington University School of Medicine, 2007–2015

Fellowship:
Breast Surgical Oncology Fellow, Surgery, University of Texas MD Anderson Cancer Center, 2015–2016

Other Training:
A.B., Harvard University, 2001
M.A., Harvard University, 2001
MPHS, Washington University School of Medicine, 2011

Rachel Adams Greenup, MD, MPH
Assistant Professor of Surgery

Title:
Director, Breast Fellowship

Training:
MD, Medical College of Wisconsin, 2004

Residency:
General Surgery, Medical College of Wisconsin and Affiliated Hospitals, 2004–2011

Fellowship:
Breast Surgical Oncology, Massachusetts General Hospital, Dana-Farber Cancer Institute and Brigham and Women's Hospital, 2011–2012

Other Training:
MPH, University of Wisconsin-Madison School of Medicine and Public Health, 2010

Clinical Interests:
Surgical treatment of breast disease, nipple-sparing mastectomies, clinical outcomes in young women with breast cancer, quality of life after breast cancer treatment
Advanced Oncologic and GI Surgery (continued)

M. Benjamin Hopkins, MD
Assistant Professor of Surgery

Training:
MD, Wake Forest University School of Medicine, 2004

Residency:
General Surgery, Ochsner Clinic Foundation, Louisiana, 2009

Fellowship:
Colon and Rectal Surgery, Ochsner Clinic Foundation, Louisiana, 2010

Clinical Interests:
Colorectal surgery, laparoscopic colorectal surgery, surgery for inflammatory bowel disease, endorectal ultrasound, benign anorectal disease, sphincter-saving procedures, ileal-pouch procedures, rectal-prolapse repair, fecal incontinence, diverticulitis, presacral tumors, anal cancer

Eun-Sil Shelley Hwang, MD, MPH
Professor of Surgery

Title:
Vice-Chair of Research
Chief, Section of Breast Surgery

Training:
MD, University of California-Los Angeles David Geffen School of Medicine, 1991

Residency:
General Surgery, Cornell University New York Hospital, 1992–1996

Fellowship:
Breast Surgery, Memorial Sloan-Kettering Cancer Center, New York, 1996–1997
Surgical Oncology, Singapore General Hospital, 1997–1998

Clinical Interests:
Diagnosis and treatment of early-stage breast cancer, management of patients at high risk for breast cancer, surgical treatment of patients with breast disease

Research Interests:
Biology of early-stage breast cancer and evolution of metastatic disease.
Sandhya Anand Lagoo-Deenadayalan, MD, PhD
Associate Professor of Surgery

Training:
MD, B.J. Medical College, University of Poona, India, 1981

Residency:
General Surgery, University of Mississippi Medical Center, 1995–2000

Fellowship:
Endosurgery, Duke University Medical Center, 2000–2002

Training:
PhD, Immunology, MD Anderson Cancer, Texas, 1990

Clinical Interests:
Gastrointestinal surgery (open and laparoscopic), including inguinal and ventral hernia repair; cholecystectomy; splenectomy; anti-reflux procedures; Heller myotomy for achalasia

Research Interests:
Surgical geriatrics, global health

Billy Y. Lan, MD
Assistant Professor of Surgery

Training:
MD, Tufts University School of Medicine, 2007

Residency:
Categorical General Surgery Resident, Surgery, University of Hawaii, John A. Burns School of Medicine, 2007–2009
Categorical General Surgery Resident, Surgery, Cleveland Clinic Lerner College of Medicine of Case Western University, 2010–2015

Fellowship:
Colorectal Surgery Fellow, Surgery, Cleveland Clinic Lerner College of Medicine of Case Western University, 2015–2016

Other Training:
BS, Tufts University, 2001
Laura Lazarus, MD
Assistant Professor of Surgery

Training:
MD, Drexel University College of Medicine, 1996
Residency:
General Surgery Residency, Surgery, Louisiana State University School of Medicine in New Orleans, 1996–2001
Fellowship:
Breast Surgery Fellowship, Northwestern University Feinberg School of Medicine, 2001–2002
Other Training:
BS, Tufts University, 1992

Christopher Ritchie Mantyh, MD
Professor of Surgery

Title:
Chief, Section of Gastrointestinal and Colorectal Surgery
Training:
MD, University of Wisconsin Medical School, 1991
Residency:
Fellowship:
Colorectal Surgery, Cleveland Clinic Foundation, Ohio, 1998–1999
Clinical Interests:
Colorectal surgery; surgery for inflammatory bowel disease; benign anal/rectal surgery; sphincter-saving procedures for rectal cancer; fecal incontinence surgery; rectal prolapse repair; familial polyposis surgery; laparoscopic colon surgery; treatment of diverticulitis, anal cancer, Crohn's disease, ulcerative colitis, ileus, motility, and neurogenic inflammation
Research Interests:
Neurogenic inflammation, ulcerative colitis, Crohn's disease, neuropeptides, receptors, vanilloid receptor, substance P, intestinal motility, colorectal cancer outcomes, colon cancer, rectal cancer
Advanced Oncologic and GI Surgery (continued)

**John Migaly, MD**  
Associate Professor of Surgery  

**Title:**  
Director, General Surgery Residency Program  

**Training:**  
MD, New York University School of Medicine, 1996  

**Residency:**  
General Surgery, Temple University Health Sciences Center, 1997–2004  

**Fellowship:**  
Colon and Rectal Surgery, Cleveland Clinic Foundation, Florida, 2005  

**Clinical Interests:**  
Surgical treatment of colon and rectal cancer, Crohn’s disease, ulcerative colitis, diverticulitis, and benign anorectal diseases; laparoscopic colon and rectal surgery; sphincter-saving procedures; ileal-pouch procedures.

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**Harvey Gorden Moore, MD**  
Assistant Professor of Surgery  

**Training:**  
MD, Medical University of South Carolina School of Medicine, 1994  

**Residency:**  
Surgical Resident, Surgery, Yale University School of Medicine, 1994–1999  


**Other Training:**  
BA, Furman University, 1990
Paul Joseph Mosca, MD, PhD, MBA
Associate Professor of Surgery

Training:
MD, University of Virginia School of Medicine, 1995

Residency:
General Surgery, Duke University Medical Center, 2002

Other Training:
PhD, Biophysics, University of Virginia, 1994
MBA, Healthcare Systems Management, DeSales University, Pennsylvania, 2011

Clinical Interests:
General surgery and surgical oncology, with special interest in melanoma and tumors of the liver, pancreas, upper and lower GI tract, skin, and soft tissues

Research Interests:
Dr. Mosca’s research focuses on two areas. One is the development of more effective and entirely novel treatments for melanoma. He has a special interest in immunotherapy, novel targeted molecular therapies, and regional chemotherapy for advanced melanoma of the arm or leg. Another area of interest is palliative surgery for cancer, with an emphasis on understanding the optimal role and application of this type of surgery in the care of advanced malignancy.

Thomas Leonard Novick, MD
Assistant Professor of Surgery

Training:
MD, Duke University School of Medicine, 1978

Residency:
Residency General & Thoracic Surgery, Surgery, Duke University School of Medicine, 1978–1980
Resident Orthopaedic Surgery, Surgery, Duke University School of Medicine, 1980–1981
Resident General Surgery, Surgery, Duke University School of Medicine, 1982–1986
David Masao Ota, MD
Professor of Surgery

Training:
MD, University of Chicago, 1973

Theodore N. Pappas, MD
Professor of Surgery

Title:
The Duke Surgical Innovation Professorship
Chief, Division of Advanced Oncologic and Gastrointestinal Surgery

Training:
MD, The Ohio State University School of Medicine, 1981

Residency:
Surgery, Brigham and Women’s Hospital, Massachusetts, 1981–1988

Clinical Interests:
Gastrointestinal surgery; advanced laparoscopic surgery; surgical complications of pancreatitis; benign and malignant esophageal, biliary, pancreatic and gastric disease; complicated abdominal-wall reconstructions

Research Interests:
Dr. Pappas’ laboratory is engaged in several areas of research, all relating to gastrointestinal physiology. They are currently studying: (1) upper gut motility as it relates to the cyclooxygenase pathway; (2) colonic motility as it relates to short chain fatty acid (SCFA); (3) the role of pig small intestine as a prosthetic agent in the treatment of gastrointestinal perforation.
Advanced Oncologic and GI Surgery (continued)

**Alexander Perez, MD**
Associate Professor of Surgery

**Training:**
MD, Universidad El Bosque, Colombia, 2000

**Residency:**
Surgery, Brigham and Women's Hospital, Massachusetts, 2002–2003
Surgery, Baystate Medical Center, Massachusetts, 2003–2007

**Fellowship:**
Gastrointestinal Surgery Research, Brigham and Women's Hospital, Massachusetts, 2000–2002
Minimally Invasive Surgery, Duke University Medical Center, 2007–2008

**Clinical Interests:**
Advanced minimally invasive surgery for diseases of the stomach, intestine, gallbladder, pancreas, spleen, adrenal gland, and hernias

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**Jennifer K. Plichta, MD, MS**
Assistant Professor of Surgery

**Training:**
MD, Indiana University School of Medicine, 2008

**Residency:**
General Surgery Resident, Surgery, Loyola University Medical Center, 2008–2015

**Fellowship:**
Breast Surgery Fellowship, Surgery, Massachusetts General Hospital, 2015–2016
Breast Surgery Fellowship, Surgery, Dana Farber Cancer Institute, 2015–2016
Breast Surgery Fellowship, Surgery, Brigham and Women's Hospital, 2015–2016

**Other Training:**
BA, Depauw University, 2002
MS, Loyola University Medical Center, 2012
Advanced Oncologic and GI Surgery (continued)

Sanziana Alina Roman, MD
Professor of Surgery

**Title:**
Director, Endocrine Surgery Fellowship

**Training:**
MD, Columbia University College of Physicians and Surgeons, 1994

**Residency:**
Internship, Surgery, Yale New Haven Hospital, 1994–1995

**Other Training:**
BA, Cornell University, 1990
Fellow, American College of Surgeons

**Clinical Interests:**
Endocrine surgery, including adrenal, thyroid and parathyroid benign diseases and cancers; advanced stage cancer; medullary and anaplastic thyroid cancer; familial syndromes (i.e., multiple endocrine neoplasia 1, 2 A and B, FMTC, von Hippel-Lindau, etc.); minimal access/minimally invasive parathyroidectomy and laparoscopic techniques, including posterior retroperitoneoscopic adrenalectomy

Laura Horst Rosenberger, MD
Assistant Professor of Surgery

**Training:**
MD, Jefferson Medical College of Thomas Jefferson University, 2008

**Residency:**
General Surgery Resident, Surgery, University of Virginia School of Medicine, 2008–2015

**Other Training:**
BS, Eastern Mennonite University, 2003
Randall Paul Scheri, MD
Associate Professor of Surgery

Training:
MD, University of Virginia, 1996

Residency:
General Surgery, Barnes Hospital/Washington University in St. Louis, 1996–2003

Fellowship:
Surgical Oncology, John Wayne Cancer Institute, California, 2004–2007

Clinical Interests:
Endocrine surgery, including for disorders of the thyroid, parathyroid glands, and adrenal glands; minimally invasive techniques, including radio-guided parathyroidectomy; thyroidectomy with recurrent laryngeal nerve monitoring; laparoscopic adrenalectomy; surgical oncology, including for melanoma and malignant diseases of the breast; clinical trials; sentinel lymphnode biopsy; neoadjuvant endocrine therapy and chemotherapy for breast conservation

Kevin Naresh Shah, MD
Assistant Professor of Surgery

Training:
MD, Drexel University College of Medicine, Pennsylvania, 2007

Residency:
General Surgery, Cleveland Clinic, Ohio

Fellowship:
Surgical Oncology and Hepatobiliary Surgery, Duke University Medical Center

Clinical Interests:
Surgical treatment of upper gastrointestinal malignancies, particularly benign and malignant diseases of the liver, pancreas and bile duct; minimally invasive HPB, duodenal and gastric surgery

Research Interests:
Improving outcomes from HPB surgery; pancreatic cancer, pancreatic cysts, primary and metastatic tumors of the liver
Karen Lynn Sherman, MD
Assistant Professor of Surgery

Training:
MD, Loyola University Chicago Stritch School of Medicine, 2008

Residency:
General Surgery Resident, Surgery, Northwestern University, 2008–2011

Fellowship:
Surgical Outcomes Research Fellow, Surgery, Northwestern University, 2011–2013

Other Training:
BA, Kalamazoo College, 2004
MSc, Northwestern University, 2013
Julie Ann Sosa, MD
Professor of Surgery

Title:
Director, Surgical Center for Outcomes Research (SCORES)
Chief, Section of Endocrine Surgery

Training:
MD, Johns Hopkins University School of Medicine, 1994

Residency:
Internship, Surgery, Johns Hopkins Hospital, 1994–1995
Assistant Resident, Surgery, Johns Hopkins Hospital, 1995–1996
Senior Resident, Surgery, Johns Hopkins Hospital, 1998–2000
(Chief Resident, 2000–2001)

Fellowship:
Robert Wood Johnson Clinical Scholar, Johns Hopkins Hospital, 1996–1998
Surgical Oncology, Johns Hopkins Hospital, 2001–2002

Other Training:
AB, Princeton University, 1988
Fellow, American College of Surgeons

Clinical Interests:
Endocrine surgery, including surgery for thyroid cancer; minimally invasive parathyroidectomy and laparoscopic adrenalectomy (posterior retroperitoneal); clinical trials; surgical oncology

Research Interests:
Dr. Sosa is widely published in outcomes analysis as well as cost-effectiveness analysis, meta-analysis, and survey-based research. Her research group is multi-disciplinary, and she has collaborators in health services research and outcomes, biostatistics, geriatrics, endocrinology, oncology, vascular surgery, breast surgery, pharmacology and cancer biology, and stem cell research.
Advanced Oncologic and GI Surgery (continued)

Michael Tracey Stang, MD  
Associate Professor of Surgery  
Training:  
MD, University of Nebraska Omaha, 2000  
Residency:  
Fellowship:  
Fellow, Endocrine Surgery, Surgery, University of Pittsburgh School of Medicine, 2008–2009  
Other Training:  
BS, Creighton University, 1995

John Hubert Stewart, MD, MBA  
Associate Professor of Surgery  
Training:  
MD, Howard University College of Medicine, 1995  
Residency:  
General Surgery Resident, Surgery, Temple University School of Medicine, 1995–1998  
General Surgery Resident, Surgery, Vanderbilt University, 2002–2004  
Fellowship:  
Tumor Immunotherapy Fellow, National Institutes of Health, 1998–1999  
Surgical Oncology Fellow, National Institutes of Health, 1999–2002  
Other Training:  
BS, Louisiana Tech University, 1991  
MBA, Wake Forest University, 2014
Julie K. Marosky Thacker, MD
Associate Professor of Surgery

**Title:** Medical Director, Clinical Research Unit

**Training:**
MD, Indiana University School of Medicine, 1998

**Residency:**
General Surgery, University of Utah Health Sciences Center, 1998–2004

**Fellowship:**
Colon and Rectal Surgery, Mayo Clinic, Minnesota, 2005

**Clinical Interests:**
Surgical treatment of primary and recurrent colon and rectal cancer; laparoscopic colon and rectal surgery; surgical management of inflammatory bowel disease, polyposis syndromes, complex pelvic tumors, and anorectal disease

Lisa Anne Tolnitch, MD
Assistant Professor of Surgery

**Training:**
MD, University of Louisville School of Medicine, 1983
Sabino Zani, MD
Assistant Professor of Surgery

Training:
MD, Albany Medical College, 2003

Residency:
General Surgery, University of Connecticut Integrative, 2003–2010

Fellowship:
Surgical Oncology, Duke University Medical Center, 2010–2012

Other Training:
BS, Biology, Rensselaer Polytechnic Institute, 1997
MS, Biology, Rensselaer Polytechnic Institute, 1999

Clinical Interests:
Surgical oncology; benign and malignant hepatobiliary, pancreatic, and gastrointestinal disease; advanced laparoscopic surgery
Mitchell Wayne Cox, MD
Associate Professor of Surgery
Title:
Director, Vascular Surgery Fellowship
Training:
MD, Case Western Reserve University, 1996
Residency:
General Surgery, Wright State University, Ohio, 2001
Fellowship:
Vascular Surgery, Baylor College of Medicine, Texas, 2004
Clinical Interests:
Minimally invasive and surgical treatment of all aspects of peripheral arterial and venous disease, including aortic aneurysm, carotid stenosis, and lower-extremity occlusive disease; arteriovenous access for hemodialysis; IVC filter complications; central vein occlusion.

Ellen DeAnne Dillavou, MD
Associate Professor of Surgery
Training:
MD, University of Arizona College of Medicine, 1996
Residency:
Fellowship:
Vascular Surgery Fellowship, Surgery, University of Pittsburgh, 2002–2004
Other Training:
BA, Macalester College, 1991
Vascular Surgery (continued)

Jeffrey Harold Lawson, MD, PhD
Professor of Surgery

Training:
MD, University of Vermont, 1991

Residency:
General and Thoracic Surgery, Duke University Medical Center, 1992–1999

Fellowship:
Vascular Surgery, Duke University Medical Center, 2001–2002

Other Training:
PhD, Cell and Molecular Biology, University of Vermont, 1992

Clinical Interests:
Vascular surgery, hemodialysis access, peripheral arterial disease, aortic disease, carotid artery disease, endovascular surgery, surgical disorders of vascular thrombosis, blood coagulation

Research Interests:
The research interests of Dr. Lawson's laboratory include the study of vascular biology and cellular differentiation of vascular tissue, the proteolytic and cell-mediated regulation of blood coagulation, inflammatory mediated thrombosis, and the development of bioengineered blood vessels. The clinical interests of his laboratory include the study of novel therapies for vascular and cardiovascular surgery, thrombosis related to surgical procedures, clinical inhibitors of blood coagulation proteases, and the study of the immune response to biologics used in surgery.
Chandler Alexander Long, MD
Assistant Professor of Surgery

Training:
MD, Case Western Reserve University School of Medicine, 2007

Residency:
General Surgery Internship, Surgery, Vanderbilt University, 2007–2008
General Surgery Residency, Surgery, University of Tennessee–Knoxville, 2008–2014

Fellowship:
Post Doctoral Research Fellowship, Surgery, Harvard Medical School, 2010–2011
Vascular Surgery Fellowship, Surgery, Emory University School of Medicine, 2014–2016

Other Training:
BA, Hamilton College, 2003

Roberto Jose Manson, MD
Assistant Professor of Surgery

Training:
MD, National University of Tucuman, Argentina, 1996

Residency:
General Surgery, Hospital Italiano de Buenos Aires, 2002

Fellowship:
MIS Research Fellowship, Duke University, 2005
Vascular Research Fellowship, Duke University, 2008

Clinical Interests:
Vascular access

Research Interests:
Vascular access, surgical device preclinical trials, surgical training skills
Richard L. McCann, MD
Professor of Surgery

Training:
MD, Cornell University Medical College, 1974

Residency:
Surgery and Vascular Surgery, Duke University Medical Center, 1974–1983

Clinical Interests:
Endovascular and open surgery for abdominal and thoracic aortic aneurysms; endovascular and open surgery for peripheral vascular disease; carotid artery disease; lower-extremity vascular obstruction

Research Interests:
Current research interests involve the application of endovascular technology to the treatment of peripheral vascular diseases. These activities include the use of commercially available and experimental designs of stent grafts for abdominal aortic aneurysm and the use of angioplasty and stenting for the management of difficult carotid artery disease.

Leila Mureebe, MD, MPH
Associate Professor of Surgery

Training:
MD, Medical College of Pennsylvania, 1992

Residency:
General Surgery, Medical College of Pennsylvania, 1999

Fellowship:

Other Training:
MPH, University of North Carolina at Chapel Hill, 2011

Clinical Interests:
Vascular and endovascular surgery; diagnosis and management of the full spectrum of arterial and venous diseases; minimally invasive procedures for vascular disease, including endograft repair of aortic aneurysms, angioplasty, and stenting of the carotid, renal, and mesenteric arteries as well as angioplasty and stenting of the arteries to treat peripheral vascular disease.
Vascular Surgery (continued)

Daiva Nevidomskyte, MD
Assistant Professor of Surgery

Training:
MD, Boston University School of Medicine, 2011

Residency:

Other Training:
BA, Wellesley College, 2005

Cynthia Keene Shortell, MD
Professor of Surgery

Title:
Chief of Staff
Chief, Division of Vascular Surgery

Training:
MD, Weill Cornell Medical College, 1984

Residency:
General Surgery, University of Rochester, New York, 1984–1989

Fellowship:
Vascular Surgery, University of Rochester, 1989–1993

Clinical Interests:
Open and endovascular aortic repair, thrombolytic therapy for acute arterial and venous occlusions, endovascular and minimally invasive therapies for venous disorders, percutaneous interventions for lower-extremity occlusive disease, vascular anomalies.
Abdominal Transplant Surgery

Andrew Serghios Barbas, MD
Assistant Professor of Surgery

Training:
MD, Duke University School of Medicine, 2007

Residency:

Fellowship:
Abdominal Transplant and HPB Surgery Fellow, Surgery, University of Toronto (Canada), 2014–2016

Other Training:
BSE, Duke University, 2003

Todd Victor Brennan, MD, MS
Associate Professor of Surgery

Training:
MD, Harvard Medical School, Massachusetts, 1999

Residency:
General Surgery, UCSF Medical Center, California, 1999–2007

Fellowship:
Abdominal Transplantation, UCSF Medical Center, California, 2007–2009

Clinical Interests:
General, laparoscopic, and hepatobiliary surgery; liver-, kidney-, and pancreas-transplant surgery

Research Interests:
Dr. Brennan studies the regulation of T-cell subsets by innate immune signals. The goal of his laboratory is to understand the contribution of innate pathway stimulation on the allospecific T-cell response during organ transplantation. Through these studies, they aim to gain new insights into the molecular basis of alloimmunity and immune tolerance in order to reveal novel targets for the prevention and treatment of transplant rejection.
Bradley Henry Collins, MD
Associate Professor of Surgery

**Title:**
Medical Director, Animal Research

**Training:**
MD, Duke University School of Medicine, 1989

**Residency:**
General Surgery, Duke University Medical Center, 1989–1997

**Fellowship:**
Transplant Surgery, University of Wisconsin at Madison, 1997–1999

**Clinical Interests:**
Liver, pancreas, and kidney transplantation; general surgery in transplant patients, dialysis access surgery

**Research Interests:**
The laboratory's primary focus is the study of the feasibility of transplanting porcine islets into primates as a treatment for type 1 diabetes mellitus. In collaboration with Dr. Emmanuel Opara, an islet cell physiologist, they have purified islets from porcine pancreases, placed the islets in microcapsules, and transplanted the islets into diabetic baboons without the use of immunosuppression. Their goal is to demonstrate the utility of this system as a pre-clinical model. The laboratory is also collaborating with hepatologist Dr. Don Rockey to study senescence of the liver.
Abdominal Transplant Surgery (continued)

Allan Douglas Kirk, MD, PhD
Professor of Surgery
Title:
Chair, Department of Surgery
Training:
MD, Duke University School of Medicine, 1987
Residency:
Surgery, Duke University, 1995
Fellowship:
Multi-organ Transplantation Fellowship, University of Wisconsin, 1997
Other Training:
PhD, Immunology, Duke University, 1992
Research Interests:
Dr. Kirk’s primary research interests lie in the development and implementation of novel immunomodulatory strategies for transplantation and other surgically relevant conditions. He is principal investigator on numerous projects funded by the NIH, FDA, and Department of Defense.

Stuart Johnston Knechtle, MD
Professor of Surgery
Training:
MD, Weill Cornell Medical College, 1982
Residency:
Surgery, Duke University, 1989
Fellowship:
Multi-organ transplantation, University of Wisconsin, 1991
Research Interests:
Dr. Knechtle’s research interests lie in the development and implementation of novel strategies for preventing organ transplant rejection, preventing antibody-mediated injury, and preventing recurrence of autoimmune disease. His lab has been continually funded by the NIH for 24 years.
Abdominal Transplant Surgery (continued)

Jean Kwun, PhD
Assistant Professor of Surgery

Training:
PhD, University of Wisconsin at Madison, 2007

Kadiyala Venkata Ravindra, MBBS
Associate Professor of Surgery

Title:
Director, Abdominal Transplant Surgical Fellowship

Training:
MBBS, Jawaharlal Institute of Postgraduate Medical Education and Research, India, 1987

Residency:
General Surgery, Jawaharlal Institute of Postgraduate Medical Education and Research, India, 1988–1992
Surgical Gastroenterology, Sanjay Gandhi Post-Graduate Institute of Medical Sciences, India, 1992–1994

Fellowship:
Hepatobiliary and Pancreatic Surgery, St. James University Hospital, United Kingdom, 2000–2003
Transplant Surgery, University of Nebraska Medical Center, 2003–2005

Clinical Interests:
Hepatobiliary and pancreatic surgery, laparoscopic liver resections, cholangiocarcinoma, surgery for chronic pancreatitis, abdominal organ transplantation (liver, kidney, pancreas)
Debra Sudan, MD
Professor of Surgery

Title:
Chief, Division of Abdominal Transplant Surgery

Training:
MD, Wright State University, Boonshoft School of Medicine, Ohio, 1989

Residency:
General Surgery, Wright State University, Ohio, 1994

Fellowship:
Solid Organ Transplantation, University of Nebraska, 1996

Clinical Interests:
Abdominal organ transplantation, including liver, intestine, kidney, and pancreas; pediatric transplantation; intestinal failure; intestine-lengthening surgery (STEP and Bianchi) for patients with short-bowel syndrome; hepatobiliary surgery; laparoscopic liver resection

Deepak Vikraman Sushama, MD
Assistant Professor of Surgery

Training:
MD, Trivandrum Medical College (India), 1996
Cardiovascular and Thoracic Surgery

**Albert Chang, MD**  
Assistant Professor of Surgery  

**Training:**  
MD, Duke University, 1996

**Thomas Anthony D'Amico, MD**  
Professor of Surgery  

**Title:**  
Director, Integrated Thoracic Surgery Residency Program and Joint General Surgery and Thoracic Surgery Residency Program  
Director, Advanced Training in Cardiothoracic Surgery  

**Training:**  
MD, Columbia University College of Physicians and Surgeons, 1987  

**Residency:**  
Thoracic Surgery, Duke University Medical Center, 1987–1996  

**Fellowship:**  
Thoracic Oncology, Memorial Sloan-Kettering Cancer Center, 1996

**Clinical Interests:**  
Lung and esophageal cancer; general thoracic and thoroscopic surgery; minimally invasive thoracic surgery; thoracic oncology; lung volume reduction; photodynamic therapy (PDT); laser bronchoscopy; bronchial and esophageal stents; molecular biology of lung and esophageal cancer

**Research Interests:**  
Lung cancer: (1) the role of molecular markers in the prognosis and therapy of lung cancer; (2) genomic analysis lung cancer mutations.  
Esophageal cancer: (1) the role of molecular markers in the prognosis and therapy of esophageal cancer; (2) genomic analysis esophageal cancer mutations.
Mani Ali Daneshmand, MD
Assistant Professor of Surgery

Training:
MD, Albany Medical College, 2004

Residency:
General Surgery, Duke University Medical Center, 2004–2011

Fellowship:
Cardiothoracic Surgical Research, Duke University Medical Center, 2006–2008
Cardiothoracic Surgery, Duke University Medical Center, 2011–2013

Clinical Interests:
Cardiac and lung transplantation, left ventricular assist devices, adult cardiac surgery, mitral valve surgery, surgical treatments for end-stage congestive heart failure, aortic valve surgery

Jeffrey Giles Gaca, MD
Associate Professor of Surgery

Training:
MD, Columbia University College of Physicians and Surgeons, 1998

Residency:
General Surgery, Duke University Medical Center, 1998–2005

Fellowship:
Cardiothoracic Surgery, Duke University Medical Center, 2005–2008

Clinical Interests:
Adult cardiac surgery, thoracic aortic surgery, minimally invasive approaches to valvular heart disease.
Donald D. Glower, MD
Professor of Surgery

Training:
MD, Johns Hopkins University, 1980

Residency:
Surgery, Duke University Medical Center, 1980–1987

Fellowship:
Thoracic Surgery, Duke University Medical Center, 1987–1989

Clinical Interests:
Minimally invasive valve and coronary surgery; valve repair and replacement; robotic heart surgery; septal myectomy for hypertrophic obstructive cardiomyopathy; minimally invasive maze procedure for atrial fibrillation

Research Interests:
Current clinical research projects examine the effects of patient characteristics and surgical technique in outcomes after minimally invasive cardiac surgery, valve repair and replacement, and coronary artery bypass grafting. Prior work has examined the role of surgical therapy versus medical therapy in aortic dissection, load-independent means to quantify left and right ventricular function, and management of complex coronary disease.

John Carroll Haney, MD, AB, MPH
Assistant Professor of Surgery

Training:
MD, Duke University School of Medicine, 2004

Residency:
General Surgery, Duke University, 2004–2011

Fellowship:
Cardiothoracic Surgery Resident, Duke University, 2011–2014

Other Training:
MPH, Boston University, 2000

Clinical Interests:
Adult cardiac surgery including coronary artery revascularization and valve surgery; lung transplantation; extracorporeal life support therapies for cardiac and respiratory failure; ex-vivo lung perfusion; and surgical treatment of chronic thromboembolic pulmonary hypertension
David Harold Harpole, MD
Professor of Surgery

Title:
Resident Research Director

Training:
MD, University of Virginia School of Medicine, 1984

Residency:
General Surgery, Duke University Medical Center, 1984–1991

Fellowship:
Thoracic Surgery, Duke University Medical Center, 1991–1993
Thoracic Oncology, Dana Farber Cancer Institute, Harvard Medical School, 1993–1995

Clinical Interests:
Thoracic oncology; general thoracic surgery; benign and malignant disease of the lung, esophagus, and mediastinum; advanced airway and thoracoscopic surgery; hyperhidrosis palmaris; mesothelioma

Research Interests:
Non-small cell lung cancer: (1) evaluation of serum and tissue molecular biologic markers of recurrence in patients with a localized non-small cell lung cancer; (2) molecular biologic staging of lymph nodes in patients with non-small cell lung cancer; (3) the evaluation of the clonality of metastatic tumors in patients with non-small cell lung cancer
Matthew Hartwig, MD  
Associate Professor of Surgery  

Training:  
MD, Duke University School of Medicine, 2001  

Residency:  

Fellowship:  
Thoracic Surgery Research Fellow, Duke University Medical Center, 2003–2005  

Clinical Interests:  
Thoracic oncology with an emphasis on minimally invasive approaches to lung and esophageal cancer; video-assisted thoracic surgery (VATS) and robotic-assisted thoracic surgery (RATS); benign and malignant diseases of the lung, esophagus, mediastinum, and chest wall; surgical treatment of end-stage lung disease, including lung-volume reduction and lung transplantation; ex-vivo lung perfusion; donation after cardiac death; extracorporeal life support for respiratory failure  

George Charles Hughes, MD  
Associate Professor of Surgery  

Title:  
Director, Aortic Surgery Program  

Training:  
MD, Duke University School of Medicine, 1995  

Residency:  
General Surgery, Duke University Medical Center, 1995–2002  
Cardiothoracic Surgery, Duke University Medical Center, 2002–2005  

Fellowship:  
Thoracic Aortic Surgery, Hospital of the University of Pennsylvania, 2005  

Clinical Interests:  
Adult cardiac surgery; surgery of the thoracic aorta, including disorders of the aortic root, ascending aorta, aortic arch, and descending and thoracoabdominal aorta; thoracic endovascular aortic repair (TEVAR); transcatheter aortic valve implantation (TAVI); aortic valve repair
Cardiovascular and Thoracic Surgery (continued)

Jacob Klapper, MD
Assistant Professor of Surgery

**Training:**
MD, Indiana University School of Medicine, 2003

**Residency:**
General Surgery Resident, General Surgery, Indiana University at Indianapolis, 2003–2011

**Fellowship:**
Cardiothoracic Surgery Fellow, Surgery, Duke University, 2011–2014

**Other Training:**
BA, Colgate University, 1998

Masters in Clinical Research, Clinical Research, Medical University of South Carolina School of Medicine, 2014–2016

Shu Shiuh-Shi Lin, MD, PhD
Associate Professor of Surgery

**Training:**
MD, Duke University School of Medicine, 1992

**Residency:**
General Surgery, Duke University Medical Center, 1992–2001

Thoracic Surgery, Duke University Medical Center, 2001–2004

**Other Training:**
PhD, Immunology, Duke University Medical Center, 2000

**Clinical Interests:**
Cardiopulmonary transplantation (heart, lung and heart-lung transplantation), transplant immunology, adult cardiac surgery including CABG and valvular surgery

**Research Interests:**
Two challenges of cardiopulmonary transplantation are the lack of consistent long-term graft survival and the shortage of donor organs. In searching for solutions to these problems, Dr. Lin's laboratory studies: (1) mechanisms underlying the chronic rejection, especially that of lung and heart-lung allografts; (2) induction of immunologic tolerance to reduce the morbidity and improve the long-term survival of heart and lung transplantation; (3) xenotransplantation, with the ultimate goal of alleviating the problem of donor organ shortage but the more immediate goal of gaining general knowledge about transplantation immunobiology.
Cardiovascular and Thoracic Surgery (continued)

Andrew James Lodge, MD
Associate Professor of Surgery

Training:
MD, Duke University School of Medicine, 1993

Residency:
General Surgery, Duke University Medical Center, 1993–2000
Thoracic Surgery, Duke University Medical Center, 2000–2002

Fellowship:
Pediatric Cardiac Surgery, Children’s Hospital of Philadelphia, 2002–2003

Clinical Interests:
Pediatric cardiac surgery, adult congenital heart disease, heart transplantation, ventricular assist devices

Research Interests:
Extracorporeal circulation, ventricular assist, clinical outcomes after congenital heart surgery

Terry Stephen Lowry, MD
Assistant Professor of Surgery

Training:
MD, University of North Carolina at Chapel Hill, 1996
Carmelo Alessio Milano, MD  
Professor of Surgery  
**Title:**  
Surgical Director, Cardiac Transplantation and Left Ventricular Assist Device (LVAD) Programs  
Director, Advanced Scholars in Contemporary Medicine Program  
**Training:**  
MD, University of Chicago, 1990  
**Residency:**  
**Fellowship:**  
Molecular Cardiology, Howard Medical Institute, Duke University, 1992–1994  
Cardiothoracic Surgery, Duke University Medical Center, 1997–1999  
Cardiac Transplant, Papworth Hospital, England, 1999  
**Clinical Interests:**  
Cardiac transplantation, left ventricular assist devices, adult cardiac surgery, mitral valve surgery, surgical treatments for end-stage congestive heart failure, aortic valve surgery

Ryan P. Plichta, MD  
Assistant Professor of Surgery  
**Training:**  
MD, Loyola University Chicago Stritch School of Medicine, 2008  
**Residency:**  
General Surgery Residency, Surgery, Loyola University Chicago Stritch School of Medicine, 2008–2013  
Cardiothoracic Surgery Residency, Surgery, Loyola University Chicago Stritch School of Medicine, 2013–2015  
**Fellowship:**  
Advanced Aortic and Endovascular Surgery Fellowship, Cleveland Clinic, 2015–2016  
**Other Training:**  
BSE, Tufts University, 2002
Jacob Niall Schroder, MD
Assistant Professor of Surgery

Training:
MD, Georgetown University School of Medicine, 2001

Residency:
Internship, General Surgery, Duke University Medical Center, 2001–2002
Junior Assistant Resident, General Surgery, Duke University Medical Center, 2002–2003
Senior Assistant Resident, General Surgery, Duke University Medical Center, 2006–2008
Chief Resident, General Surgery, Duke University Medical Center, 2008–2009
Thoracic and Cardiovascular Surgery, Duke University Medical Center, 2009–2012

Fellowship:
Cardiothoracic Surgery Research Fellow, Duke University Medical Center, 2003–2006

Clinical Interests:
Cardiac transplantation, mechanical circulatory support devices and heart failure surgery, adult cardiac surgery, cardiothoracic surgical education
Cardiovascular and Thoracic Surgery (continued)

**Peter Kent Smith, MD**
Professor of Surgery

**Title:**
Chief, Division of Cardiovascular and Thoracic Surgery

**Training:**
MD, Duke University School of Medicine, 1977

**Residency:**
Cardiovascular Research, Duke University Medical Center, 1987
Teaching Scholar, AHA Clinician Scientist Awardee, Duke University Medical Center, 1980–1983

**Clinical Interests:**
Adult cardiac surgery with emphasis on coronary artery disease and valvular heart surgery

**Research Interests:**
Dr. Smith is the principal investigator for the Duke site in the Cardiotoracic Surgery Clinical Trials Network (CTSN) and in recent years has focused on clinical research. Topics include comparing CABG alone to CABG with mitral repair for moderate ischemic mitral regurgitation, as well as FFR and angiographically guided CABG. An integration of clinical research, publications, and scholarship with the advancement of clinically effective thoracic surgery is the goal of his research activities.

**Betty Caroline Tong, MD, MS, MHS**
Associate Professor of Surgery

**Training:**
MD, Duke University School of Medicine, 1999

**Residency:**
General Surgery, Johns Hopkins Hospital, 1999–2005

**Fellowship:**
Thoracic Surgery, Duke University Medical Center, 2005–2008

**Other Training:**
MS, Mechanical Engineering, Georgia Institute of Technology, 1995
MHS, Graduate Training Program in Clinical Investigation, Johns Hopkins Bloomberg School of Public Health, 2009

**Clinical Interests:**
Thoracic oncology including lung cancer and mesothelioma, esophageal cancer, and chest wall tumors; diseases of the mediastinum; pulmonary metastases; minimally invasive/videoassisted thoracic surgery; benign lung and chest conditions
Cardiovascular and Thoracic Surgery (continued)

David Cloid White, MD
Associate Professor of Surgery

Training:
MD, University of Virginia, 1996

Walter George Wolfe, MD
Professor of Surgery

Training:
MD, Temple University, 1963

Residency:
Intern, Surgery, Philadelphia Naval Hospital, 1963–1964
Assistant Resident, Surgery, Duke University, 1964–1965
Senior Assistant Resident, Surgery, Duke University, 1966–1967
Senior Assistant Resident, Surgery, Duke University, 1968–1970
Chief Resident, Surgery, Duke University, 1970–1971

Fellowship:
Fellow in Research, Surgery, Duke University, 1965–1966

Other Training:
Teaching Scholar, Cardiothoracic Surgery, Duke University, 1971–1972
Metabolic and Weight Loss Surgery

A. Daniel Guerron, MD  
Assistant Professor of Surgery  

Training:  
MD, Pontificia Universidad Catolica, Ecuador, 2004  

Residency:  
General Surgery Residency, General Surgery, Cleveland Clinic, 2010–2015  

Fellowship:  

Chan Woo Park, MD  
Assistant Professor of Surgery  

Title:  
Co-Director, Minimally Invasive and Bariatric Surgery Fellowship  

Training:  
MD, Jefferson Medical College of Thomas Jefferson University, Pennsylvania, 2005  

Residency:  
General Surgery, University of Hawaii Affiliated Program, 2005–2010  

Fellowship:  
Bariatric and Minimally Invasive Surgery, Duke University Medical Center, 2010–2012  

Clinical Interests:  
Minimally invasive and advanced laparoscopic, robotic, single incision, and endoscopic approaches to diseases of the esophagus, stomach, small bowel, colon, solid organs, hiatal and abdominal wall hernias; benign and malignant gastrointestinal tumors; metabolic and weight loss surgery, sleeve gastrectomy, adjustable gastric banding, Roux-en-Y gastric bypass, and revisional bariatric surgery
Metabolic and Weight Loss Surgery (continued)

Dana Dale Portenier, MD
Assistant Professor of Surgery

Title:
Chief, Division of Metabolic and Weight Loss Surgery
Co-Director, Minimally Invasive and Bariatric Surgery Fellowship

Training:
MD, Medical University of South Carolina, 1999

Residency:
General Surgery, Providence Hospital, Michigan, 1999–2004

Fellowship:
Traveling Hepato-Pancreatico-Biliary Fellow, Mayo Clinic, Minnesota; Memorial Sloan-Kettering Cancer Center, New York; Saint James University Hospital, Leeds, England, 2004–2005

Other Training:
Minimally Invasive and Bariatric Surgery, Duke University Medical Center, 2005–2006

Clinical Interests:
Minimally invasive approach to upper-GI surgery for diseases of the esophagus, stomach, liver, pancreas, adrenal glands, spleen, small bowel, and colon; complicated revisional foregut and bariatric surgery; developing new techniques in the field of single-incision surgery; weight loss surgery

Keri Anne Seymour, DO
Assistant Professor of Surgery

Training:
DO, Midwestern University, IL, 2007
Metabolic and Weight Loss Surgery (continued)

Ranjan Sudan, MD  
Associate Professor of Surgery  
**Title:** 
Vice Chair of Education  
**Training:**  
MD, Armed Forces Medical College, India, 1981  
**Residency:**  
Surgery, Wright State University, Ohio, 1999  
**Fellowship:**  
Child and Adolescent Psychiatry, Columbia University, 1993  
**Clinical Interests:**  
Laparoscopic, bariatric, GI, robotic surgery, weight loss surgery

Jin Soo Yoo, MD  
Assistant Professor of Surgery  
**Training:**  
MD, University of Virginia School of Medicine, 2002  
**Residency:**  
**Fellowship:**  
Minimally Invasive Surgery/Bariatric Surgery, Duke University Medical Center, 2009–2010  
**Clinical Interests:**  
Advanced laparoscopic and bariatric surgery, including surgical management of GERD, achalasia, benign and malignant gastric tumors, pancreatic and adrenal disease, splenectomy, Roux-en-Y gastric bypass, and adjustable gastric
Plastic, Macillofacial, and Oral Surgery

**Alexander C. Allori, MD**  
Assistant Professor of Surgery  

**Training:**  
MD, University of Texas Medical School at Houston, 2003  

**Residency:**  
General Surgery, Beth Israel Medical Center (New York), 2003–2010  
Plastic Surgery, Duke University Medical Center, 2010–2013  

**Fellowship:**  

**Other Training:**  
MPH, University of Texas School of Public Health, 1999

**Linda Carime Cendales, MD**  
Associate Professor of Surgery  

**Title:**  
Director, Duke Vascularized Composite Allotransplantation Program  

**Training:**  
MD, Universidad Autonoma Metropolitana, Mexico, 1992  

**Residency:**  
Internship/Junior Resident, Surgery, Hospital General Dr. Manuel Gea Gonzalez, Mexico, 1993–1995  
Chief Resident, Surgery, Hospital General Dr. Manuel Gea Gonzalez, Mexico, 1995–1996  

**Fellowship:**  
Clinical Fellow & Senior Fellow, Hand & Microsurgery, Christine M. Kleinert Institute, 1997–2001  
Fellow, Transplantation Surgery, National Institutes of Health, 2001–2004  
Senior Clinical Fellow, National Institutes of Health, 2004–2006  
Fellow, Translational Research, Emory University School of Medicine, 2009–2011
Plastic, Maxillofacial, and Oral Surgery (continued)

**Detlev Erdmann, MD, MHS**
Professor of Surgery

**Training:**
MD, Technical University of Munich School of Medicine, 1990

**Residency:**
Resident, Surgery, Ruprecht Karl University (Germany), 1996–2000

**Fellowship:**
Research Fellow, Institute Of Plastic Surgery, Southern Illinois University, 1994–1995

**Other Training:**
MHS, Duke University School of Medicine, 2007

**Gregory S. Georgiade, MD**
Professor of Surgery

**Title:**
Vice Chair of Clinical Practice and Chief, Division of Plastic, Maxillofacial, and Oral Surgery

**Training:**
MD, Duke University, 1973

**Scott Thomas Hollenbeck, MD**
Associate Professor of Surgery

**Training:**
MD, Ohio State University, 2000

**Residency:**
Resident in Plastic Surgery, Surgery, Duke University, 2007–2010

**Fellowship:**
Research Fellow, Surgery, Weill Cornell Medical College, 2002–2004
Plastic, Macillofacial, and Oral Surgery (continued)

Bruce Klitzman, PhD
Associate Professor of Surgery
Training:
PhD, University of Virginia, 1979

Howard Levinson, MD
Associate Professor of Surgery
Training:
MD, University of Texas, Medical Branch at Galveston, 1997
Jeffrey Robert Marcus, MD
Associate Professor of Surgery

Training:
MD, University of Michigan at Ann Arbor, 1994

Residency:
Intern General Surgery, Surgery, Northwestern Memorial Hospital, 1994–1995
Resident General Surgery, Surgery, Northwestern Memorial Hospital, 1995–1997
Resident, Plastic Surgery, Northwestern Memorial Hospital, 1998–2000
Chief Resident, Plastic Surgery, Northwestern Memorial Hospital, 2000–2001

Fellowship:
Research Fellow, Plastic Surgery, Northwestern Memorial Hospital, 1997–1998

Suhail Kamrudin Mithani, MD
Assistant Professor of Surgery

Title:
Director, Plastic and Reconstructive Surgery Residency Program

Training:
MD, Vanderbilt University School of Medicine, 2003

Residency:
Resident, The Medical Scholars Program, Vanderbilt University, 2001–2002
Resident, General Surgery, Johns Hopkins University, 2003–2006
Resident, Plastic Surgery, Johns Hopkins University, 2006–2011

Fellowship:
Fellow, Hand Surgery, Department of Orthopaedics, Duke University, 2011–2012
Plastic, Macillofacial, and Oral Surgery (continued)

David Bryan Powers, MD
Associate Professor of Surgery

Training:
MD, University of Texas Health Science Center San Antonio, 2000
Residency:
General Surgery Intern, Wilford Hall Medical Center, 2000–2001
Oral & Maxillofacial Surgery Resident, Wilford Hall Medical Center, 1996–2002

Pedro E Santiago, DMD
Associate Consulting Professor in the Department of Surgery

Training:
DMD, University of Puerto Rico (Puerto Rico), 1989

Michael Robert Zenn, MD
Professor of Surgery

Training:
MD, Cornell University, 1988
Residency:
Resident, General Surgery, New York Hospital Cornell Medical Center, 1988–1992
Chief Resident, Surgery, New York Hospital Cornell Medical Center, 1992–1993
Resident, Plastic Surgery, Massachusetts General Hospital, 1993–1995
Fellowship:
Microsurgery Fellow, Surgery, Memorial Sloan Kettering Rad Te, 1995–1995
Obinna Ogochukwu Adibe, MD
Assistant Professor of Surgery

Training:
MD, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, 2001

Residency:
General Surgery, University of Connecticut School of Medicine, 2001–2004, 2006–2008

Fellowship:
Pediatric Endosurgery, Children's Hospital of Alabama, 2008–2009

Clinical Interests:
Advanced pediatric minimally invasive surgery, neonatal surgery, anorectal malformations, inflammatory bowel disease, prenatal counseling, fetal therapy, pediatric outcomes research disease, prenatal counseling

Henry Elliot Rice, MD
Professor of Surgery

Title:
Chief, Division of Pediatric General Surgery

Training:
MD, Yale University School of Medicine, 1988

Residency:
General Surgery, University of Washington Medical Center, 1996

Fellowship:
Pediatric Surgery, Children's Hospital of Buffalo, 1998

Clinical Interests:
Neonatal surgery, prenatal counseling, general pediatric thoracic and abdominal surgery
Elisabeth Tomlinson Tracy, MD
Assistant Professor of Surgery

Training:
MD, Harvard Medical School, 2005

Residency:
General Surgery, Duke University Medical Center, 2005–2012

Fellowship:
Pediatric Surgery, Boston Children’s Hospital, 2012–2014
**Amy Rezak Alger, MD**  
Assistant Professor of Surgery  

**Training:**  
MD, Ross University School of Medicine (West Indies), 2001  
Residency:  
General Surgery Resident, Surgery, Waterbury Hospital, 2002–2007  
Fellowship:  
Surgical Critical Care Fellow, Surgery, Brigham and Women's Hospital, 2007–2008  
Acute Care Surgery Fellow, Surgery, Brigham and Women's Hospital, 2008–2009  
Other Training:  
BS, State University of New York, Albany, 1996

**Noran Maged Barry, MD**  
Assistant Professor of Surgery  

**Training:**  
MD, Saint James School of Medicine (Netherlands), 2010  
Residency:  
General Surgery Residency, Surgery, St Lukes Hospital Pa, 2010–2015  
Fellowship:  
Surgical Critical Care Fellowship, Surgery, University of North Carolina at Chapel Hill, 2015–2016  
Other Training:  
BS, University of California at Irvine, 2004

**Kelli Rachel Brooks, MD**  
Assistant Professor of Surgery  

**Training:**  
MD, Duke University School of Medicine, 1999  
Residency:  
General Surgery, Duke University Medical Center, 2006  
Fellowship:  
Surgical Critical Care, Duke University Medical Center, 2007  
Clinical Interests:  
Trauma surgery, care of the multisystem trauma patient, surgical critical care, gastrointestinal and general surgery
Trauma and Critical Care Surgery (continued)

Alison Suzanne Clay, MD
Assistant Professor of Surgery

Training:
MD, University of Chicago, 1998

Clinical Interests:
Laparoscopic hernia repair; routine and complex ventral and inguinal hernias; hernias in women; abdominal-wall reconstruction; critical care; quality and care redesign.

Research Interests:
(1) Hernias database: Dr. Pickett is reviewing all the hernias performed at Duke in the last seven years to create a resource for retrospective and prospective study of patients coming to the Duke Hernia Center; (2) Surgisis mesh: Cook Surgical has provided a $5,000 unrestricted grant for preparing a video of Surgisis mesh placement in a patient with infected ventral hernia mesh. Drs. Pickett and Pappas continue to use this mesh in patients with infected hernias and plan to publish a case series; (3) Enterra device: Drs. Pickett and Pappas continue to work with Medtronic to place Enterra gastric pacing devices in patients with severe gastroparesis.

Lisa Clark Pickett, MD
Assistant Professor of Surgery

Training:
MD, Harvard Medical School, 1994

Residency:
Critical Care, Duke University Medical Center, 1998
General Surgery, Duke University Medical Center, 2001

Clinical Interests:
Laparoscopic hernia repair; routine and complex ventral and inguinal hernias; hernias in women; abdominal-wall reconstruction; critical care; quality and care redesign.

Research Interests:
(1) Hernias database: Dr. Pickett is reviewing all the hernias performed at Duke in the last seven years to create a resource for retrospective and prospective study of patients coming to the Duke Hernia Center; (2) Surgisis mesh: Cook Surgical has provided a $5,000 unrestricted grant for preparing a video of Surgisis mesh placement in a patient with infected ventral hernia mesh. Drs. Pickett and Pappas continue to use this mesh in patients with infected hernias and plan to publish a case series; (3) Enterra device: Drs. Pickett and Pappas continue to work with Medtronic to place Enterra gastric pacing devices in patients with severe gastroparesis.
Vanessa Teaberry Schroder, MD
Assistant Professor of Surgery

Training:
MD, Duke University School of Medicine, 2006

Residency:
General Surgery Resident, Duke University School of Medicine, 2013

Fellowship:
Surgical Critical Care, Surgery, Duke University School of Medicine, 2014

Clinical Interests:
Acute care and elective general surgery, surgical critical care, and surgical nutrition

Research Interests:
Surgical nutrition

Mark Louis Shapiro, MD
Associate Professor of Surgery

Title:
Associate Director, Trauma Services
Chief, Acute Care Surgery

Training:
MD, Ross University, Dominica, 1997

Residency:
The Jewish Hospital of Cincinnati, 1997–2002

Fellowship:
Trauma and Critical Care, University of Cincinnati, 2002–2003

Clinical Interests:
Ventilator-associated pneumonia, shock, and resuscitation; blunt cerebrovascular injuries; thoracic trauma; hypertonic saline in sepsis and trauma; surgical education; evidence-based outcomes; acute care surgery; surgical infection.
Courtney Anne Sommer, MD, MPH
Assistant Professor of Surgery

Training:
MD, University of North Carolina at Chapel Hill School of Medicine, 2006
MPH, University of North Carolina at Chapel Hill Gillings School of Public Health, 2010

Residency:
General Surgery, University of North Carolina Hospitals, 2013

Fellowship:
Surgical Critical Care and Trauma, Harborview Medical Center - University of Washington, 2014

Clinical Interests:
Care of the multiply injured trauma patient, surgical infections, trauma surgery, general and emergency general surgery, surgical critical care, and surgical nutrition

Research Interests:
Surgical education, trauma systems development, education and prevention of trauma, care of the elderly trauma patient, implementation of protocols, and surgical nutrition
Steven Nicholas Vaslef, MD, PhD
Associate Professor of Surgery

**Title:**
Chief, Division of Trauma and Critical Care Surgery
Director, Surgical Critical Care Fellowship

**Training:**
MD, University of Virginia, 1984

**Residency:**

**Fellowship:**
Surgery (Research), Northwestern University, 1986–1989

**Other Training:**
PhD, Biomedical Engineering, Northwestern University, 1990

**Clinical Interests:**
Trauma, surgical critical care, gastrointestinal surgery, general surgery, surgical infections

**Research Interests:**
Current research interests include: the development of an implantable artificial lung; design and evaluation of membrane oxygenators; evaluation of blood substitutes; treatment and physiology of shock; and gastrointestinal tonometry.

Cory Joseph Vatsaas, MD
Assistant Professor of Surgery

**Training:**
MD, University of Minnesota, Twin Cities, 2008

**Residency:**
General Surgery Resident, Mayo School of Health Sciences, 2008–2014

**Fellowship:**
Surgical Critical Care Fellow, University of Michigan at Ann Arbor, 2011–2012