

**DIRECTORY OF FACULTY RESEARCH INTERESTS**

**RESEARCH OPPORTUNITIES  
FOR RESIDENTS**

**JULY 2011**

**DEPARTMENT OF MEDICINE**

**NewYork-Presbyterian Hospital  
Weill Cornell Medical College**

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**Weill Cornell Medical College**

**┌ NewYork-Presbyterian Hospital  
└ Weill Cornell Medical Center**

# INTRODUCTION

## **Faculty Research Interests:**

The following are brief descriptions of research areas of interest by individual faculty members, organized by discipline. The final category — Other Areas of Research — includes a number of other important fields such as public health, informatics, epidemiology, cancer genetics, etc. Each of the faculty members listed here has volunteered to mentor our residents. (There are likely to be many others at Weill Cornell, MSKCC, Rockefeller, and HSS who are equally enthusiastic about the possibility of working on research projects with our residents, but who have not yet responded to our requests for information.) Most of the descriptions of research areas were provided by the faculty members directly. Descriptions are followed by the names of recent residents mentored, if any: these residents are also cross-referenced alphabetically at the end of the guide, and we encourage you to contact any of them who might be able to provide you with further insight. Contact information is listed as provided by faculty members.

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## CARDIOLOGY

### **William B. Borden, MD**

Assistant Professor of Medicine and Public Health

Nanette Laitman Clinical Scholar in Public Health

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My research focuses on healthcare policy, examining how best to apply evidence-based medicine into practice. I have a project assessing the medical therapy of patients undergoing percutaneous coronary intervention. I also study a Medicare proposal for hospital value-based purchasing and how the formula may affect hospitals in locationally disadvantaged areas of the country. Lastly, as a clinical preventive cardiologist and lipidologist, I write review articles on cardiovascular risk reduction.

**Recent Residents Mentored:** Tshaka Muchiteni

### **Jim Cheung, MD, FACC**

Assistant Professor of Medicine

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My current research focus is on three areas of cardiac electrophysiology: (1) the utility of adenosine testing in identifying dormant pulmonary vein conduction in patients undergoing catheter ablation of atrial fibrillation; (2) PVC-induced cardiomyopathy; and (3) cardiac resynchronization therapy. I have been exploring the basic mechanism of adenosine-induced pulmonary vein reconnection and its clinical implications. I have also started a project tracking the natural history of patients with high PVC burden and elucidating clinical predictors for the development of cardiomyopathy. Finally, I am investigating the feasibility and utility of ECG-guided V-V optimization of cardiac resynchronization devices (biventricular pacemakers and defibrillators).

### **David J. Christini, PhD**

Professor of Medicine

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Our laboratory studies cardiac electrophysiological dynamics from the cellular level to the organ level. We are primarily interested in understanding the mechanisms underlying arrhythmia initiation (from the cellular to whole-heart levels) and in developing new arrhythmia therapies. We use computational, *in vitro*, and clinical methods in an interdisciplinary approach that interweaves concepts from physics, biophysics, and bioengineering. More details can be found at our lab website: [www-users.med.cornell.edu/~dchristi](http://www-users.med.cornell.edu/~dchristi).

### **Dmitriy N. Feldman, MD**

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As an interventional cardiologist, my research interest is focused on percutaneous coronary interventions outcomes research, including extensive work with the New York State Department of Health PCI database, the national American College of Cardiology NCDR registry, and the Weill Cornell

Catheterization Laboratory institutional database. Clinical research expertise includes post-PCI outcomes research; the use of peri-procedural pharmacological agents; and peri-procedural platelet function testing.  
**Recent Residents Mentored:** Subhi AlAref, Foluso Fakorede, Jonathan Gordin, Scott Greenberg, Lauren Hofmann, Lindsay Lief

**Jorge R. Kizer, MD**

Associate Professor of Medicine and Public Health

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Research interests are in the clinical and genetic epidemiology of diabetes and cardiovascular disease. Areas of particular focus are: (1) cryptogenic ischemic stroke, and the roles of cardioaortic abnormalities (especially PFO) and hypercoagulable disorders in the pathogenesis of this condition; and (2) adipokines as determinants of diabetes mellitus and cardiovascular disease.

**Recent Residents Mentored:** Michael Mulock

**Bruce B. Lerman, MD**

Professor of Medicine; Chief, Greenberg Division of Cardiology

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Our laboratory's focus is on delineating the regulation of G proteins that couple cell-surface receptors to intracellular cAMP and their role in mediating adrenergically dependent ventricular tachycardia, also known as right and left ventricular outflow tract tachycardia.

**Fay Y. Lin, MD, MSc**

Assistant Professor of Medicine

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My interest is in the utility of advanced cardiac imaging modalities, including coronary CT angiography and advanced echocardiography, for mechanisms of disease in heart failure with normal ejection fraction, and in risk stratification in CAD.

**Steven Markowitz, MD**

Associate Professor of Medicine

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Our group studies the mechanisms and therapies for atrial arrhythmias, including atrial fibrillation and atrial tachycardias. We are interested in defining the sites of origin and properties of atrial tachycardias as well as predictors of successful ablative therapy.

**Recent Residents Mentored:** James Horowitz, Alex Mauskop, Ashwani Sastry

**Peter Okin, MD**

Professor of Medicine

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My research focuses on the use of the standard 12-lead ECG to improve risk stratification and on the development of new ECG predictors of disease and outcomes. Most recently, we have firmly established the value of regression of left ventricular hypertrophy on ECG for prediction of decreased risk of MI, stroke, cardiovascular death, sudden death, new atrial fibrillation, new heart failure, and the development of new diabetes.

**Recent Residents Mentored:** Seth Bender (currently Weill Cornell Cardiology Fellow), Valaine Hewitt

**Mary J. Roman, MD**

Professor of Medicine

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I am involved in three areas of clinical research. The first area is Marfan syndrome and other genetically-mediated aortic aneurysm syndromes. I am the PI of a multicenter, NIH-funded treatment trial to prevent aneurysm progression in children and young adults with Marfan syndrome, and co-investigator of a multicenter, NIH-funded registry of genetically triggered thoracic aortic aneurysms. The second area concerns cardiovascular involvement in rheumatologic diseases, particularly systemic lupus erythematosus and rheumatoid arthritis, and the importance of chronic inflammation in directly causing premature atherosclerosis, vascular stiffening, and ventricular hypertrophy in these patients. Finally, I am part of an NIH-funded team studying cardiovascular risk factors and disease in American Indians.

**Wendy Schaffer, MD**

MSKCC, Cardiology Service

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My research is related to cancer patients and their cardiac function.

Current projects include evaluation of: (1) appropriate anticoagulation for cancer patients with mechanical heart valves; (2) right ventricular dysfunction in patients after pericardial window or pericardiocentesis; (3) cardiac toxicity of peripheral blood stem cell transplant in patients with underlying CAD. There are a number of small, easily publishable projects related to this work that would be amenable to the time/resources of a resident.

**Jonathan W. Weinsaft, MD**

Associate Professor of Medicine; Director, Cardiac MR/CT Imaging Program

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I look forward to ongoing opportunities to work with residents interested in my research area of non-invasive cardiac imaging as a tool to assess myocardial performance, tissue composition, and cardiac remodeling. While much of the research is focused on use of cardiac magnetic resonance imaging (CMR), studies typically integrate other modalities such as echocardiography, nuclear, or CT-based imaging. Residents will have the opportunity to participate in all aspects of ongoing clinical research studies, including image processing, interpretation, and data analysis.

**Recent Residents Mentored:** Jason Chinitz, Christopher Chu, Christopher Gade, Taral Patel, Michael Ross

## CLINICAL EPIDEMIOLOGY & EVALUATIVE SCIENCES RESEARCH

### **Carla Boutin-Foster, MD, MS**

Associate Professor of Medicine and Public Health

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I would like to participate in the mentoring of residents in clinical research. General areas of interest include health disparities and vulnerable populations research; identifying psychosocial determinants of health disparities in cardiovascular disease and other chronic conditions; working with faith-based and other community-based organizations to develop and evaluate health interventions using a community-based participatory research model; and applying social science theories in developing health behavior interventions.

### **Mary E. Charlson, MD**

William T. Foley Distinguished Professor of Medicine

Chief, Division of Clinical Epidemiology and Evaluative Sciences Research (CEESR)

Executive Director, Center for Integrative Medicine

Director T32 AHRQ Fellowship Training Program and Health Services Research

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I am a clinical epidemiologist whose research focuses on developing measures of clinical phenomena, improving outcomes among patients with chronic illness and, specifically, patients with chronic cardiopulmonary disease. I am also conducting clinical trials to help motivate patients with cardiovascular disease to make healthy lifestyle behavioral changes.

### **James Hollenberg, MD**

Associate Professor of Medicine

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I have a special interest in the application of decision analytic and artificial intelligence techniques to medicine. Areas of research include: theory and practice of decision analysis; development and integration of sophisticated artificial intelligence program to monitor an operational computerized patient care system.

### **Janey Peterson, RN, EdD, MA, MS**

Assistant Professor of Clinical Epidemiology

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As a behavioral scientist and clinical epidemiologist, I develop behavioral interventions focused on lifestyle changes in patients with chronic illness, with a focus on patients with chronic cardiopulmonary disease. I have expertise in the use of quantitative, qualitative, and mixed methods.

I currently mentor the following students in our MS in Clinical Epidemiology and Health Services Research program: Regina Jacob, Lisa Moreno, Skender Murtezani, Edwidge Thomas, Muhammad Wassem

**Erica Phillips-Caesar, MD, MS**

Assistant Professor of Medicine

Director, Research Program, Primary Care Track, Internal Medicine Residency Program

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I teach the basics of research methodology to all primary care residents and co-mentor their scholarly projects. My research interest is focused on the use of community-based participatory research in addressing healthcare disparities among ethnic minority communities. Currently, I am a co-investigator on two NIH-funded studies: SCALE (Small Changes and Lasting Effects) and CEDREC (The Comprehensive Center of Excellence in Disparities Research and Community Engagement). Through CEDREC I work on partnering residents interested in disparities research with one of our investigational teams.

## CLINICAL PHARMACOLOGY

### **Marcus M. Reidenberg, MD**

Professor of Medicine, Pharmacology, and Public Health

Chief, Division of Clinical Pharmacology

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Focus of research is on problems with medications, e.g., how the elderly differ from younger people in dose-response and genetic polymorphisms affecting dose-response. As a member of the World Health Organization (WHO) Expert Panel on the Selection and Use of Essential Medicines, I would be delighted to help residents interested in issues in clinical pharmacology develop answerable questions pertinent to these issues and then proceed to answer the questions. Residents interested in global policy concerning availability and use of essential medicines can help with WHO activities in this area. Projects can be designed to start slowly at any time during the residency and proceed at the pace the resident desires. Mentoring in publishing case reports is also provided.

## ENDOCRINOLOGY, DIABETES, & METABOLISM

### **David J. Brillon, MD**

Associate Professor of Clinical Medicine

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Dr. Brillon is engaged in clinical trials evaluating the complications of both type 1 and type 2 diabetes mellitus.

### **Azeez Farooki, MD, FACE**

MSKCC, Endocrinology Service

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As an endocrinologist at MSKCC, my research subjects are ones with osteonecrosis of the jaw (a complication of bisphosphonate therapy), bone loss due to cancer treatments, bone metastases from thyroid cancer, and the relationship between vitamin D and cancer.

**Recent Resident Mentored:** Nina Sundaram

### **Julianne Imperato-McGinley, MD**

Professor of Medicine; Chief, Division of Endocrinology, Diabetes, and Metabolism

(With Dr. Yuan-Shan Zhu, see below.)

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Clinical and translational research projects include: (1) androgens and cognitive function; (2) molecular genetics of sexual differentiation and development; (3) androgens and cardiovascular disease; (4) molecular basis of sex steroid hormone interaction in prostate diseases; (5) effects and mechanisms of diet, botanicals, and phytochemicals on prostate tumorigenesis, prostate cancer prevention, and therapy.

### **Mabel Ryder, MD**

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Research is focused on understanding how the tumor microenvironment facilitates induced thyroid cancer progression (for example, by manipulating tumor-associated macrophages in models of *BRAF*-induced thyroid cancer).

### **Yuan-Shan Zhu, MD, PhD**

Associate Professor of Medicine

(With Dr. Imperato-McGinley, see above.)

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Clinical and translational research projects include: (1) androgens and cognitive function; (2) molecular genetics of sexual differentiation and development; (3) androgens and cardiovascular disease; (4)

molecular basis of sex steroid hormone interaction in prostate diseases; (5) effects and mechanisms of diet, botanicals, and phytochemicals on prostate tumorigenesis, prostate cancer prevention, and therapy.

## GASTROENTEROLOGY & HEPATOLOGY

### **Brian P. Bosworth, MD**

Assistant Professor of Medicine

Program Director, Gastroenterology and Hepatology Fellowship Program

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At the Roberts Center for Inflammatory Bowel Disease, we actively welcome and encourage residents' participation in our clinical and translational investigations. We have opportunities for residents to engage in all aspects of IBD-related research, from prospective trials of biomarker evaluation or pharmacological intervention to chart reviews to smart phone and web-based IBD education initiatives. We also have projects involving basic science and animal work with our colleagues at Rockefeller and MSKCC on both the immunologic and microbiologic etiopathogenesis of IBD.

**Recent Residents Mentored:** Nikhil Kumta, Tara Lautenslager, Mamta Mehta, Yasmin Metz, Alyssa Parian, Farid Razavi, Geethan Sivanthan, Subha Sundararajan, Raja Taunk, Himanshu Verma.

### **Carl V. Crawford, MD**

Assistant Professor of Medicine

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I have several areas of interest. My main areas of research focus is on *C. difficile* and enteric infections on specific patient populations (IBD patients, leukemia/BMT populations, and the elderly). I am also currently working with residents on the role of technology on colon polyp detection rates and the role of phytochemicals in the prevention of certain GI diseases. There are opportunities for residents to engage in lab work, chart reviews, and prospective studies as well as designing any studies they may have in mind related to the above areas.

**Recent Residents and Fellows Mentored:** Valerie Antoine-Gustave, Lianne Cavell, Nikhil Kumta, Ann Marie Liapakis, Yasmin Metz, Manan Shah.

### **Andrew Dannenberg, MD**

Professor of Medicine; Director, Cancer Center

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Our main research focus is defining the mechanism by which chronic inflammation predisposes to cancer, with the long-term goal of developing strategies to reduce risk. Studies are under way that focus on obesity, smoking, hereditary cancer, inflammatory bowel disease, and nutrigenomics. The potential use of metabolomics for biomarker development is also being investigated.

### **Ype P. de Jong, MD, PhD**

Assistant Professor of Medicine

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My research interest is to study how hepatitis C virus (HCV) evades the immune system. HCV only infects human hepatocytes and there currently exists a paucity of model systems. In the laboratory of Dr. Charles Rice at The Rockefeller University, I am working on improving an *in vivo* HCV infection system

that involves transplanting human hepatocytes into mice. Projects on which I would welcome residents to participate include: (1) generation and *in vitro* characterization of innate immune-modifying lentiviral vectors; (2) transplantation optimization of human hepatocytes into different liver injury mouse lines; (3) treatment trials of new direct-acting antivirals in mice.

**Maya Gambarin-Gelwan, MD**

Assistant Professor of Clinical Medicine

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At the Center for the Study of Hepatitis C we have several research projects involving patients with chronic hepatitis C and liver cancer. I am very interested in the role vitamin D deficiency plays in the risk of liver cancer. I am also working on several projects involving non-alcoholic fatty liver disease and chronic hepatitis B. I would like to develop a project with motivated residents, collaborating with the renal group, to study the effects of chronic HCV infection on the outcomes of renal transplantation, including non-liver-related long-term complications.

**Recent Residents/Fellows Mentored:** Rini Abraham, Delia Calo, Deborah Yvette C. Lim, Yasmin Metz, Geethan Sivananthan, Subha Sundararajan (fellow), Stephanie Tang, Amy Tyberg

**Ira M. Jacobson, MD**

Professor of Medicine; Chief, Division of Gastroenterology and Hepatology

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Clinical research projects involve viral hepatitis and other forms of liver disease. Opportunities for projects for residents include: (1) prevalence of HBV markers in patients with HCV-related liver cancer; (2) decline in platelet count as a marker of liver fibrosis; (3) renal effects of antiviral agents for hepatitis.

**Steven Lipkin, MD, PhD**

Associate Professor of Medicine

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My overall goal is to understand the fundamental basis of colorectal cancer and inflammatory bowel disease and effectively translate new knowledge from my own lab and others' to improve chemoprevention, early detection, and therapy. Methodologically, I use human and mouse genetics, cell based studies of signal transduction, and computational approaches to achieve these goals.

**Felice Schnoll-Sussman, MD**

Assistant Professor of Medicine

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Clinical research at the Monahan Center in the field of screening and prevention of gastrointestinal malignancies. Active trials include chemoprevention of Barrett's esophagus, understanding behavioral risk factors for the development of Barrett's esophagus, early detection of familial pancreatic cancer, and public outreach initiatives for colorectal cancer screening.

**Recent Residents Mentored:** Lianne Cavell, Roberto Gonzalez, Nikhil Kumta

**Andrew H. Talal, MD**

Associate Professor of Medicine

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I wish to volunteer to be a mentor to residents. Laboratory is investigating hepatitis C virus (HCV) pathogenesis focusing on the role of the CXCR3-associated chemokines as mediators of hepatic inflammation and as potential biomarkers of hepatic fibrosis. Also investigating methods to engage disenfranchised populations with high prevalence of HCV infection (e.g., those on methadone maintenance) into treatment.

**Recent Residents Mentored:** Samantha Nazareth, Ethan Weinberg

**MSKCC GASTROENTEROLOGY AND NUTRITION SERVICE**

**Emmy Ludwig, MD/Robert Kurtz, MD**

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Family pancreatic cancer registry; hepatitis B reactivation prevention.

**Sidney J. Winawer, MD**

Paul Sherlock Chair in Medicine, MSKCC

Professor of Medicine, WCMC

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Observations within the framework of an ongoing randomized trial of screening colonoscopy versus FOBt, including familial risk, pathology of polyps, African American findings, and overall results.

## GERIATRICS

### **Ronald D. Adelman, MD**

Emilie Roy Corey Professor in Geriatrics and Gerontology; Co-Chief, Division of Geriatric Medicine

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Current ongoing research projects in which residents might like to participate include: (1) a New York State Office of Mental Health grant integrating mental health care into an outpatient geriatric medical practice; (2) an Altman Foundation grant integrating palliative care into lung cancer care and emergency medicine; (3) communication studies between older patients and their healthcare providers in outpatient medical encounters and research focused on communication at the end of life; and (4) research on symptom relief and possible interventions for frail elderly on dialysis.

### **Emily S. Finkelstein, MD**

Assistant Professor of Medicine

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I would love to work with interns and residents with an interest in advance care planning, baby boomers and successful aging, or primary care health policy reform. Areas of research interest: (1) baby boomers and advance care planning; (2) the geriatric medical home (what it entails, how it works, how much support it requires); (3) starting a time-motion study of how much time physicians and other clinical staff members in the ambulatory care practice spend doing clinical activities that are non-reimbursable.

### **Mark S. Lachs, MD, MPH**

Professor of Medicine; Co-Chief, Division of Geriatric Medicine

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Major areas of research interest are the disenfranchised elderly, elder abuse, domestic violence, and the interface of geriatrics with other specialties (e.g., oncology, emergency medicine). Currently funded projects in which residents might like to participate include: (1) a study of aggressive behaviors between nursing home residents with and without dementia; (2) a large study of elder abuse prevalence; and (3) creation of the New York City Elder Abuse Center (NYCEAC), of which I am the Director. I would be happy to provide general career guidance to residents interested in careers in clinical epidemiology, health services research, and similar areas, whether or not they are related to aging.

### **Karl Pillemer, PhD**

Hazel E. Reed Professor of Human Development, Cornell University

Professor of Gerontology in Medicine, Weill Cornell Medical College

Director, Cornell Institute for Translational Research on Aging

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I would be glad to work with interested residents. My areas of expertise are gerontology, with special interests in (1) family relationships of older people, including care giving for disabled elders; (2) institutional and community-based care for older people; (3) methods of disseminating research-based information to professionals and the public.

**Barrie Raik, MD**

Associate Professor of Clinical Medicine

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Research focuses on the ethics of screening — when does the risk outweigh the benefit? I am also interested in the “hidden curriculum” in medical education (e.g., what are students learning by example from attendings and residents?). I would be happy to work with residents on projects involving ethical issues in caring for older populations, including dementiaism and ageism.

**M. Cary Reid, Jr., MD, PhD**

Associate Professor of Medicine; Director, Office of Geriatric Research

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My major areas of interest include pain and pain management in later life as well as ways to improve delivery of palliative care services in both outpatient and inpatient settings. In addition, I have an interest in the role of community-based participatory research as a tool to improve health and health outcomes at the community level. I direct an NIH-funded center (Cornell-Columbia Translational Research Institute on Pain in Later Life) that supports translational research efforts on the topic of pain and pain management. Our center has numerous projects, providing opportunities for residents to participate in clinical research studies. Topics include: (1) understanding the role of mobile health technologies in the management of pain; (2) translating evidence-based pain programs for use in non-clinical settings; (3) addressing barriers to the use of opioid medications as a treatment for chronic non-cancer pain in older adults; (4) working with community agencies serving older adults in New York City as a means of extending the reach of pain management programs and developing new strategies to deliver palliative care interventions to vulnerable patient populations.

**Eugenia L. Siegler, MD**

Professor of Clinical Medicine

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Areas of research interest includes determining the impact of the electronic medical record on the quality of charting and the quality of the chart on patient care, liability and reimbursement.

**Recent Resident Mentored:** Andrew Cohen

## HEMATOLOGY & MEDICAL ONCOLOGY

### **Ghassan Abou-Alfa, MD**

MSKCC, Gastrointestinal Oncology Service

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Research focuses on improving the effectiveness of cancer therapy by incorporating small novel biological molecules that target cancer into the treatment of chemotherapy-resistant gastrointestinal malignancies, particularly hepatobiliary and pancreatic cancers.

### **Christopher G. Azzoli, MD**

MSKCC, Thoracic Oncology Service

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I work with patients with early-stage (resectable) non-small cell lung cancer, stages I–III. I conduct clinical trials of new chemotherapy to be delivered before and/or after surgery. I collaborate with surgeons, pathologists, and basic scientists to conduct molecular tests on tumor tissue and blood to discover biomarkers to serve as diagnostic and prognostic tools for selection of chemotherapy and/or lung cancer surveillance.

### **James Bussel, MD**

Professor of Pediatrics and Medicine

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**Tel:** (212) 746-3474

My interests are in clinical trials and pathophysiology of ITP, in particular, and thrombocytopenia in general. I have led almost all of the first generation of studies with thrombopoietic agents and have done considerable work with IVIg, IV anti-D, rituximab, and the newly licensed thrombopoietic agents. A resident could either participate in an ongoing project or design a project, if feasible.

### **Tessa Cigler, MD**

Assistant Professor of Medicine

**Email:** [tec9002@med.cornell.edu](mailto:tec9002@med.cornell.edu)

**Tel:** (212) 821-0736

I would be pleased to participate in mentoring residents. My research focuses on the optimization of hormonal therapies for breast cancer treatment and prevention. I am interested in novel ways to sequence and combine hormonal therapies, elucidating the musculoskeletal side effects of certain hormonal therapies, and evaluating biomarkers of sensitivity to hormonal therapies. I am also involved in clinical trials designed to evaluate promising new therapies for breast cancer.

### **Rebecca Elstrom, MD**

Assistant Professor of Medicine

**Email:** [ree2001@med.cornell.edu](mailto:ree2001@med.cornell.edu)

**Tel:** (646) 962-2064

My interests focus on clinical research in lymphoma. We are currently pursuing clinical trials in several

different areas with the intention of translating lymphoma biology into better treatments for patients. One direction of our efforts involves collaboration with the laboratory of Ari Melnick with the intention of integrating epigenetic targeting therapy into treatment of patients with diffuse large B cell lymphoma. A second major effort focuses on advances in immunotherapy drugs, both unlabeled and radiolabeled, in order to optimize treatment for indolent lymphomas. As a whole, the lymphoma research group is focused on investigator-initiated studies based on strong scientific data from laboratory studies.

**Richard Furman, MD**

Assistant Professor of Medicine

**Email:** [rrfurman@med.cornell.edu](mailto:rrfurman@med.cornell.edu)

**Tel:** (212) 746-2063

I would be interested in having residents work with us on clinical research in the Chronic Lymphocytic Leukemia (CLL) Research Center, which focuses on clinical and translational research involving patients with CLL. Current research includes novel therapies and their mechanisms of action. Residents will be involved in designing, writing, and conducting clinical trials, and establishing collaborations with bench researchers to explore correlative studies.

**John Gerecitano, MD**

MSKCC, Lymphoma Service

**Email:** [gerecitj@mskcc.org](mailto:gerecitj@mskcc.org)

**Tel:** 212-639-3748

My main research focus is the clinical development of novel, non-immunologically based treatments in lymphoma. Current projects include investigator-initiated and industry-sponsored phase I and phase I/II clinical trials. I work with pathology and other labs to pursue correlative aims, such as tissue microarray studies and retrospective analyses of data related to trials. I am also a member of the Developmental Therapeutics Clinic, where I am the principle investigator on Phase 1 clinical trials involving patients with lymphoma and solid tumors.

**Paraskevi (Evi) Giannakakou, PhD**

Associate Professor of Pharmacology in Medicine

**Email:** [pag2015@med.cornell.edu](mailto:pag2015@med.cornell.edu)

**Tel:** (212) 746-3783

Our laboratory studies the microtubule cytoskeleton of cells and the anti-tumor drugs that target microtubules. Our research is focused on developing an understanding of the molecular mechanism(s) of action of these drugs and of resistance to them, as well as the little-understood functional consequences of drug-induced microtubule disruption and cell death. We are also studying the molecular basis of drug resistance to microtubule-targeting drugs and the role of the cytoskeleton in the regulation of protein translation. Our laboratory uses functional cellular and molecular biology assays coupled with high-resolution microscopy and live-cell imaging to gain new information on microtubule and cancer-related systems and their cellular regulation. This information can be used to explain and improve the clinical function of anti-cancer drugs.

**Recent Residents Mentored:** Paul Basciano

**Monica L. Guzman, PhD**

Assistant Professor of Pharmacology in Medicine

**Email:** [mlg2007@med.cornell.edu](mailto:mlg2007@med.cornell.edu)

**Tel:** (212) 746-6838

Relapse in acute myelogenous leukemia (AML) is thought to arise from a chemoresistant subpopulation of leukemic stem cells (LSCs). Therefore, the focus of the Guzman laboratory is the identification of novel therapeutic approaches for targeting LSCs without harming normal hematopoietic stem cells (HSCs). The main research areas are: (1) identify druggable molecular differences between LSCs and HSCs; (2) determine mechanisms of cell death invoked by anti-LSC agents; (3) minimal residual disease. Overall, our group aims to define the biology that drives LSC chemoresistance and disease relapse with the purpose of translating these findings to the clinic.

**Barbara Hempstead MD, PhD**

Professor of Medicine, Co-Chief, Division of Hematology and Medical Oncology

**Email:** [blhempst@med.cornell.edu](mailto:blhempst@med.cornell.edu)

**Tel:** (212) 746-6702

Dr. Hempstead's laboratory is focused on the role of the neurotrophin family of growth factors, which have well-characterized roles in brain development, complex human behaviors, and memory. In addition, a prominent role in enhancing angiogenesis has recently been identified. Dr. Hempstead's lab welcomes medical students, residents, and fellows for research opportunities of two months or more, to identify roles for neurotrophins in tumor angiogenesis, using both *in vivo* and *in vitro* techniques, and conditionally gene targeted models.

**Yariv Houvras, MD, PhD**

Assistant Professor of Medicine, Departments of Medicine and Surgery

**Email:** [yah9014@med.cornell.edu](mailto:yah9014@med.cornell.edu)

**Tel:** (212) 746-9418

Our laboratory is interested in studying the genetic and epigenetic basis of human cancer. We use zebrafish as a model organism to engineer specific malignancies and test the interactions of genes and pathways. We have developed a genetic system in which candidate genes can be screened for their ability to accelerate *BRAF-V600E*-dependent melanoma in zebrafish. This work has led to the identification of a novel oncogene, *SETDB1*.

**Clifford Hudis, MD**

MSKCC, Chief, Breast Cancer Medicine Service

**Email:** [hudisc@mskcc.org](mailto:hudisc@mskcc.org)

**Tel:** (646) 888-4551

The Breast Cancer Medicine Service and its collaborators at Memorial Sloan-Kettering Cancer Center conduct laboratory, translational, and clinical research focused on the treatment and prevention of breast cancer. Clinical trials span most aspects of patient care, and laboratory studies focus on the causes of disease and the development of improved therapeutics. We would be delighted to hear from interested residents.

**Recent Resident Mentored:** Kathleen Mahoney

**Katharine Hsu, MD, PhD**

Associate Professor

MSKCC, Adult Allogeneic BMT

**Email:** [hsuk@mskcc.org](mailto:hsuk@mskcc.org)

**Tel:** (646) 888-2667

My laboratory is interested in the biology of human natural killer (NK) cells and how they contribute to malignancy control. For example, we are studying the role of NK cells in controlling leukemia relapse in bone marrow transplants. My research focuses on the basic biology of the NK cell, identifying the molecules involved in controlling NK action, and determining the laboratory and clinical conditions under which NK actions can be modified.

**Recent Resident Mentored:** Fabiana Ostronoff

**Joseph G. Jurcic, MD**

MSKCC, Leukemia Service

**Email:** [jurcicj@mskcc.org](mailto:jurcicj@mskcc.org)

**Tel:** (212) 639-2955

Research is focused on antibody-based therapies for myeloid leukemia. Goals are to define the toxicity, biodistribution, pharmacology, and dosimetry of novel constructs and to develop rational treatment strategies that combine these therapies with conventional agents. Most recently focused on the use of radioimmunotherapy using targeted alpha particle-emitting radionuclides for the eradication of minimal disease. Also involved in clinical development of novel small molecules alone and in combination with chemotherapy for AML.

**Recent Residents Mentored:** Jarett Feldman

**Heather Landau, MD**

MSKCC, Adult Bone Marrow Transplant Service

**Email:** [landauh@mskcc.org](mailto:landauh@mskcc.org)

**Tel:** (212) 639-8808

My clinical research program is directed at improving outcomes for patients with plasma cell disorders including multiple myeloma, plasmacytomas, and light chain amyloidosis. Ongoing clinical trials focus on innovative autologous and allogeneic transplant and post-transplant strategies; the use and incorporation of novel agents into standard treatment paradigms; and understanding the biologic basis of disease and treatment response. I would be delighted to mentor a resident who is interested in working on a clinical or translational project.

**Jeffrey Laurence, MD**

Professor of Medicine

**Email:** [jlaurenc@med.cornell.edu](mailto:jlaurenc@med.cornell.edu)

**Tel:** (212) 746-2988

Dr. Laurence welcomes house officers interested in basic and translational research in microvascular thrombotic disorders and the metabolic complications of HIV infection. Areas of clinical research include: (1) thrombotic thrombocytopenic purpura (TTP), both idiopathic and HIV-associated; (2) osteoporosis accelerated by HIV disease and its antiretroviral therapy; (3) markers of inflammation linked to accelerated cardiovascular disease in the setting of HIV and its therapy.

**Recent Residents/Fellows Mentored:** John Chapin

**John Leonard, MD**

Professor of Medicine; Chief, Lymphoma/Myeloma Program

**Email:** [jpleonar@med.cornell.edu](mailto:jpleonar@med.cornell.edu)

**Tel:** (212) 746-2932

I am happy to mentor in my clinical research area of lymphoma. Projects relate to new therapeutic agents, including immunotherapeutic approaches, prognostic information, and translational laboratory studies.

**Recent Residents Mentored:** Rebecca Elstrom, Peter Martin, Jia Ruan

**Ross Levine, MD**

MSKCC, Leukemia Service

**Email:** [leviner@mskcc.org](mailto:leviner@mskcc.org)

**Tel:** (646) 888-2767

We would definitely be interested in having residents in the lab anytime. Major area of research is the pathogenesis of myeloid malignancies, including: (1) identification of somatic mutations that activate signal transduction in JAK2V617F-negative myeloproliferative disorders (MPD), using candidate gene, genome-wide, and functional approaches; (2) identification of additional disease alleles that contribute to MPD pathogenesis; (3) characterization of JAK2 inhibitors and other targeted therapies in the MPDs; and 4) investigation of the role of novel disease alleles in AML pathogenesis.

**Recent Residents Mentored:** Aaron Viny, Alan Shih

**Peter Martin, MD**

Assistant Professor of Medicine

**Email:** [pem9019@med.cornell.edu](mailto:pem9019@med.cornell.edu)

**Tel:** (646) 962-2068

The focus of my research is two-fold: (1) Early-phase clinical trials of new drugs/approaches for lymphoma (primarily indolent lymphomas and mantle cell lymphoma); (2) Patient outcomes research related to lymphoma. I maintain a database of all new patients with lymphoma seen at Weill Cornell. We also have retrospectively acquired data for hundreds of other patients. We work closely with collaborators in pathology to document tumor tissue availability for all patients. I would welcome a discussion of interesting hypothesis-generating questions any time.

**Ari Melnick, MD**

Associate Professor of Medicine

**Email:** [amm2014@med.cornell.edu](mailto:amm2014@med.cornell.edu)

**Tel:** (212) 746-7643

Dr. Melnick's laboratory has two major areas of research. The first is focused on the design, development, and clinical translation of new drugs to target cancer-causing oncogenes in lymphomas, leukemias, breast cancer, and colon cancer. The second is focused on harnessing the power of human epigenomics to develop methods for personalized diagnosis and therapies for patients with leukemias and lymphomas.

**Recent Resident Mentored:** Francine Garret-Bakelman

**Vincent A. Miller, MD**

Member; Attending Physician

Thoracic Oncology Service, MSKCC

**Email:** [millerv@mskcc.org](mailto:millerv@mskcc.org)

**Tel:** 212-639-7243

There are a number of opportunities with specific projects, dependent on the individual's training and commitment. Our group was one of the first to show that activating mutations in EGFR is associated with regression of lung adenocarcinoma. We have a well organized syncytium of clinicians, pathologists, interventional radiologists, and translational and basic researchers who work in this area. Many projects

particularly involving asking simple questions from the large database (>500 pts) with EGFR mutations remain unanswered, and opportunity also exists for some work on translational projects.

**David Nanus, MD**

Professor of Medicine; Co-Chief, Division of Hematology and Medical Oncology

(With Dr. Scott Tagawa, see below.)

**Email:** [dnanus@med.cornell.edu](mailto:dnanus@med.cornell.edu)

**Tel:** (212) 746-2920 or (212) 746-3152

Drs. Nanus and Tagawa welcome residents interested in clinical and/or translational research in genitourinary (GU) oncology. In addition, clinical exposure to outpatient (clinic) and inpatient GU oncology is available with mentored guidance in clinical research. Areas of clinical research include: (1) monoclonal antibody therapy for prostate cancer; (2) novel therapies for GU cancer; (3) circulating tumor cell analysis in prostate cancer; (4) anti-angiogenic therapy for kidney cancer; (5) circulating endothelial cell analysis in kidney cancer; (6) transgenic model of kidney cancer; (7) anti-angiogenic maintenance therapy for advanced urothelial cancer, a novel use of anti-angiogenic drugs after chemotherapy; (8) novel combination therapy and molecular predictors of response in bladder cancer.

**Ruben Niesvizky, MD**

Associate Professor of Medicine; Clinical Director, Multiple Myeloma Service

**Email:** [run9001@med.cornell.edu](mailto:run9001@med.cornell.edu)

**Tel:** (646) 962-2070

The multiple myeloma program at the New York-Presbyterian/Weill Cornell Medical Center has an established track record and large portfolio in protocol accruals focused on targeted therapies for patients in every stage of the disease. Our current multiple myeloma clinical research program has several active protocols (with associated translational components) in which residents can participate.

**Recent Residents Mentored:** Jessica Furst, Tara Naib, Shahryar Saba

**Stephen Nimer, MD**

MSKCC, Vice Chair, Faculty Development

**Email:** [nimers@mskcc.org](mailto:nimers@mskcc.org)

**Tel:** (646) 888-3040

Our laboratory has been studying the molecular basis of human acute leukemia and myelodysplasia, attempting to identify the transcriptional abnormalities that characterize these diseases in order to develop new therapeutic approaches. We are also examining how hematopoietic stem cell quiescence is regulated and how it affects sensitivity to chemotherapy and irradiation. Our clinical research efforts involve testing novel therapeutic approaches to the treatment of the myelodysplastic syndromes (MDS).

**Eileen M. O'Reilly, MD**

MSKCC, GI Medical Oncology

**Email:** [oreillye@mskcc.org](mailto:oreillye@mskcc.org)

**Tel:** (212) 639-6672

Focus of clinical research is pancreatic, biliary, and primary liver cancers. Studies include integration of molecular-based therapies for the treatment of pancreatic cancer, along with development of adjuvant and neoadjuvant therapies and novel therapeutics for advanced disease.

**M. Lia Palomba, MD**

MSKCC, Lymphoma Service  
Assistant Professor of Medicine, WCMC  
**Email:** [palombam@mskcc.org](mailto:palombam@mskcc.org)  
**Tel:** (212) 639-7186

Working with Dr. Marcel van den Brink (Medicine and Immunology), research involves two topics: (1) immune therapy of lymphoma with DNA-based vaccines expressing lymphoma-associated antigens (pre-clinical studies with murine models *in vivo* and *in vitro*, as well as a currently opened vaccine clinical trial); (2) signaling in chronic lymphocytic leukemia (CLL), involving collection of blood and bone marrow samples from CLL patients and studying signal transduction by a single-cell resolution assay, phospho flow.

**Ellen Ritchie, MD**

Assistant Clinical Professor of Medicine  
**Email:** [ritchie@med.cornell.edu](mailto:ritchie@med.cornell.edu)  
**Tel:** (212) 746-2192

I would be happy to discuss clinical research opportunities in the treatment of older patients with hematological malignancies.

**Gail J. Roboz, MD**

Associate Professor of Medicine; Director of the Leukemia Program  
**Email:** [gar2001@med.cornell.edu](mailto:gar2001@med.cornell.edu)  
**Tel:** (212) 746-6736

I would be happy to have residents interested in research experiences in various areas of leukemia, myeloproliferative disorders, and bone marrow failure studies, including both clinical and laboratory projects.

**Jia Ruan, MD, PhD**

Assistant Professor of Medicine  
**Email:** [jruan@med.cornell.edu](mailto:jruan@med.cornell.edu)  
**Tel:** (212) 746-2932

Dr. Ruan's research is focused on clinical and translational development of novel therapeutics targeting tumor microenvironment and angiogenesis in lymphoproliferative diseases. Her studies aim to: (1) understand the relevant mechanisms of tumor angiogenesis during lymphoma progression; (2) characterize subtype-specific angiogenesis biomarkers that reflect clinical responses to anti-angiogenic intervention; (3) develop novel anti-angiogenic therapies in appropriate lymphoma subtypes. She is also actively involved in geriatric oncology research with an interest in low-intensity novel therapy for the elderly.

**Recent Residents Mentored:** John Allan , Elena Resnick

**Howard I. Scher, MD**

MSKCC, Chief, Genitourinary Oncology Service  
**Email:** [scherh@mskcc.org](mailto:scherh@mskcc.org)  
**Tel:** (646) 422-4323

Focus of research is the development of targeted therapies directed to the androgen receptor and PI3K/AKT signaling, key pathways in castration-resistant prostate cancer progression. Goals are to determine combinations of targeted agents likely to have potent anticancer effects, and to establish models in which the biologic consequences of the agents can be studied. Separately, we are exploring methods to molecularly profile circulating tumor cells isolated from blood to understand tumor progression and guide treatment selection.

**David Spriggs, MD**

MSKCC, Gynecologic Medical Oncology Service

**Email:** [spriggsd@mskcc.org](mailto:spriggsd@mskcc.org)

**Tel:** (212) 639-2203

New drug development in gynecologic cancers. Clinical research and laboratory studies are related to the functional importance of *MUC16*, the mucin encoding the CA125 antigen, which is commonly over-expressed in ovarian cancer.

**Scott T. Tagawa, MD**

Assistant Professor of Medicine

*(With Dr. David Nanus, see above.)*

**Email:** [stt2007@med.cornell.edu](mailto:stt2007@med.cornell.edu)

**Tel:** (212) 746-2920

Drs. Nanus and Tagawa welcome residents interested in clinical and/or translational research in genitourinary (GU) oncology. In addition, clinical exposure to outpatient (clinic) and inpatient GU oncology is available with mentored guidance in clinical research. Areas of clinical research include: (1) monoclonal antibody therapy for prostate cancer; (2) novel therapies for GU cancer; (3) circulating tumor cell analysis in prostate cancer; (4) anti-angiogenic therapy for kidney cancer; (5) circulating endothelial cell analysis in kidney cancer; (6) transgenic model of kidney cancer; (7) anti-angiogenic maintenance therapy for advanced urothelial cancer, a novel use of anti-angiogenic drugs after chemotherapy; (8) novel combination therapy and molecular predictors of response in bladder cancer.

**Kenneth K. Teng, PhD**

Assistant Professor of Medicine in Neuroscience

**Email:** [kkteng@med.cornell.edu](mailto:kkteng@med.cornell.edu)

**Tel:** (212) 746-9931

The roles of neurotrophin-3 (NT-3) in development as well as in disease paradigms. More specifically, we are interested in understanding how this growth factor promotes diametrically opposite biological responses, such as cell survival during embryonic development versus cell death upon spinal cord injury.

**Tiffany A. Traina, MD**

MSKCC, Breast Cancer Medicine Service

**Email:** [trainat@mskcc.org](mailto:trainat@mskcc.org)

**Tel:** (646) 888-4558

I would be thrilled to mentor a resident interested in breast cancer-related projects. I have a particular interest in the design and conduct of clinical trials applying mathematical models to chemotherapy dosing schedules in the hopes of optimizing benefit and minimizing risks of therapy. I have a special research focus in the development of novel therapies for patients with hormone refractory and HER2-negative breast cancers (“triple-negative breast cancers”).

**James W. Young, MD**

Member, MSKCC, Adult BMT Service

Member (Joint), Immunology Program, Sloan-Kettering Institute for Cancer Research

Associate Chair, Department of Medicine, MSKCC

Professor of Medicine, WCMC

**Email:** [youngjw@mskcc.org](mailto:youngjw@mskcc.org)

**Tel:** (646) 888-2052

Our laboratory focuses on human dendritic cells and the generation of immunity in cancer and transplantation. Three broad areas of interest regarding dendritic cell biology: (1) hematopoietic development of distinct human dendritic cell subsets and their differential activation of lymphocytes; (2) immunogenic properties of dendritic cells for immunotherapy against tumors and opportunistic pathogens; (3) the converse role of dendritic cells in tolerance rather than immunogenicity, with application to graft-host interactions in transplantation.

**Recent Residents Mentored:** Adam Boruchov (currently faculty at University of Connecticut)

**Andrew D. Zelenetz, MD, PhD**

MSKCC, Chief, Lymphoma Service

**Email:** [zeleneta@mskcc.org](mailto:zeleneta@mskcc.org) or [a-zelenetz@ski.mskcc.org](mailto:a-zelenetz@ski.mskcc.org)

**Tel:** (212) 639-2656

Research is focused on the lymphomas with an emphasis on prognostication through biomarkers and imaging in addition to clinical trials. Clinical investigation has focused on targeted therapy with monoclonal antibodies. Current research topics include: new drug development in lymphoma; evaluation of minimal residual disease for prognosis in non-Hodgkin's lymphoma; quantitative image analysis for measurement of prognostic biomarkers; role of diagnostic and functional imaging for prediction of outcome.

**Recent Residents Mentored:** Paul Basciano, Komal Jhaveri

## IMMUNOLOGY

### **Hsiou-Chi Liou, PhD**

Associate Professor of Immunology in Medicine

**Email:** [hcliou@med.cornell.edu](mailto:hcliou@med.cornell.edu)

**Tel:** (212) 746-4451

We are interested in mentoring medical residents. My research investigates the role of oncogene transcription factors, in particular the c-Rel proto-oncogene, in the immune system and in tumorigenesis. An ongoing project is to investigate the mechanism by which Rel/NF-kB is involved in the pathogenesis of chronic lymphocytic leukemia, multiple myeloma, and lymphoma. Our studies have provided first proof-of-concept that c-Rel is an exciting therapeutic target for inflammation, autoimmune diseases, and transplantation rejection. My team is currently developing inhibitors of oncogenic transcription factors with the goal to develop novel therapies for autoimmune diseases and cancer.

### **Kendall Smith, MD**

Professor of Medicine; Chief, Division of Immunology

**Email:** [kasmith@med.cornell.edu](mailto:kasmith@med.cornell.edu)

**Tel:** (212) 746-4608

Ongoing projects in the lab are focused on studying the immune response to influenza virus vaccines, and the role of interleukins and their receptors in the regulation of *in vivo* and *in vitro* T cell responses.

## INFECTIOUS DISEASES

### **Elizabeth L. Alexander, MD** (with Kyu Y. Rhee, MD, PhD)

Instructor in Medicine

**Email:** [ela2005@med.cornell.edu](mailto:ela2005@med.cornell.edu)

**Tel:** (212) 746-6194 **Pager:** 30259

I would be happy to sponsor any resident interested in molecular epidemiology and/or mechanisms of antibiotic resistance, particularly in gram-positive pathogens. The major focus of my research is mechanisms of intermediate and heterointermediate vancomycin resistance in *Staphylococcus aureus*. Additional current and recent projects include an investigation of inducible vancomycin resistance in *Enterococcus faecium*, endemic *Acinetobacter baumannii* at New York-Presbyterian Hospital/Weill Cornell, and microbiology of *S. aureus* nasal carriage among dialysis patients. My research is driven primarily by clinical observation and interesting cases. I would encourage any resident with similar interests to contact me; interested residents should feel free to email or just stop by A-427.

### **David P. Calfee, MD, MS**

Associate Professor of Medicine and Public Health

Chief Hospital Epidemiologist (New York-Presbyterian Hospital/Weill Cornell Medical Center)

**Email:** [dpc9003@med.cornell.edu](mailto:dpc9003@med.cornell.edu)

**Tel:** (212) 746-1864

The major focus of my research activities has been the epidemiology and prevention of healthcare-associated infections, particularly those caused by multidrug-resistant organisms (MDRO). Recent projects have included studies of methicillin-resistant *S. aureus* (MRSA) in patients with end-stage renal disease, *Klebsiella pneumoniae* carbapenemase (KPC)-producing Enterobacteriaceae, influenza, vascular access-associated bloodstream infections in hemodialysis patients, and surgical site infections in liver transplant recipients. The hospital's Infection Prevention and Control Program provides a wide variety of opportunities in clinical research and quality improvement initiatives for residents with interests in infectious diseases, epidemiology, and patient safety.

**Recent Residents and Fellows Mentored:** Michael Satlin (fellow)

**Recent Residents and Fellows Mentored (at Mount Sinai):** David Banach, Rebecca Bielang, Mahesh Swaminathan (fellow), Meena Rana (fellow)

### **Jennifer A. Downs, MD, MS**

Instructor in Medicine

**Email:** [jna2002@med.cornell.edu](mailto:jna2002@med.cornell.edu)

**Tel:** (212) 746-6680

I conduct my research in Mwanza, Tanzania, at the Weill-Bugando Medical Centre. My specific research focus is on the design and conduct of community-based studies of female urogenital schistosomiasis among rural Tanzanian women, specifically its relationship to incident HIV infection. Other areas of interest include parasitology, tropical infections, and the prevention and management of HIV infection in resource-poor settings. I enjoy working with residents and welcome interested residents to get in touch with me.

**Recent residents mentored:** Bonaventura Mpondo, Lucheri Efraim (internal medicine residents at Weill-Bugando Medical Centre)

**Daniel Fitzgerald, MD**

Associate Professor of Medicine

**Email:** [dwf2001@med.cornell.edu](mailto:dwf2001@med.cornell.edu)

**Tel:** (212) 746-6680

Research areas of interest include HIV/AIDS prevention and therapeutic clinical trials, tuberculosis clinical trials, and evaluations of HIV and TB service programs in Haiti and Tanzania.

**Recent Residents Mentored:** Karl Bezak, Sean Collins, Maryam Schafee, Matt Simon

**Marshall J. Glesby, MD, PhD**

Associate Professor of Medicine

**Email:** [mag2005@med.cornell.edu](mailto:mag2005@med.cornell.edu)

**Tel:** (212) 746-7134

The major focus of my clinical research is the investigation of metabolic complications in HIV-infected and HCV/HIV co-infected patients, including visceral fat accumulation and disordered glucose metabolism. Residents have participated in clinical epidemiological studies using data from the HIV clinic (the Center for Special Studies) and a multicenter cohort study of HIV-infected women.

**Linnie M. Golightly, MD**

Associate Professor of Clinical Medicine

**Email:** [lgolight@med.cornell.edu](mailto:lgolight@med.cornell.edu)

**Tel:** (212) 746-6303

Research projects that might be amenable to resident involvement include multiplex detection of pathogens and bioterror agents. Existing detection systems have a limited ability to simultaneously screen a single sample for multiple agents. To meet this need, we are using the ligase detection reaction (LDR) combined with PCR and universal array detection. Multiplexed detection of food- and water-borne pathogens will be validated using samples obtained from NYPH/Weill Cornell as well as collaborators in Haiti and Ghana; multiplexed detection of bioterror agents will involve viral pathogens (Dengue, West Nile) obtained from the CDC, NYC Department of Health, and sites of endemic disease.

**Recent Resident Mentored:** Magdalena Slosar

**Roy M. (Trip) Gulick, MD, MPH**

Professor of Medicine; Chief, Division of Infectious Diseases

**Email:** [rgulick@med.cornell.edu](mailto:rgulick@med.cornell.edu)

(Assistant: Donna Reyes: [dor2011@med.cornell.edu](mailto:dor2011@med.cornell.edu))

**Tel:** (212) 746-6320

Current research interests include designing, conducting, and analyzing clinical trials in HIV-infected subjects to assess antiretroviral drugs with novel mechanisms of action, refining antiretroviral therapy strategies, and testing immune-based therapies. Dr. Gulick is the Principal Investigator of the Cornell AIDS Clinical Trials Unit, sponsored by the NIH.

**Kristen Marks, MD**

Assistant Professor of Medicine

**Email:** [markskr@med.cornell.edu](mailto:markskr@med.cornell.edu)

**Tel:** (212) 746-6309

My research focus is on HIV and viral hepatitis co-infection. I conduct clinical research with the aim of

understanding risk factors for disease progression and strategies to optimize hepatitis treatment outcomes in co-infected patients. I also serve as the ID Fellowship Program Director and am happy to help advise residents about other potential research opportunities in our division.

**Recent Residents Mentored:** Frank Scott, Sameer Kadri

**Andy Miller, MD**

HSS, Infectious Diseases

**Email:** [milleran@hss.edu](mailto:milleran@hss.edu)

**Tel:** (212) 774-7411

I encourage any interested resident to contact me regarding common research interests. I mainly study patients with diverse orthopedic infections. Particular areas of interest include: *Propionibacterium acnes* infections, prevention of Staphylococcal surgical site infections, and prevention and treatment of surgical infections in immunocompromised patients. An additional interest is the prevention of opportunistic infections, tuberculosis, and hepatitis in rheumatologic patients on biologic agents.

**Kyu Rhee, MD, PhD**

Assistant Professor of Medicine

**Email:** [kyr9001@med.cornell.edu](mailto:kyr9001@med.cornell.edu)

**Tel:** (212) 746-4547 **Pager:** 16690

We welcome any residents with an interest in the areas of antibiotic pharmacology and/or resistance, microbial pathogenesis, or tuberculosis. Current areas of interest include TB drug development, TB diagnostics, and antibiotic resistance in *Staphylococcus aureus* and *Enterococcus faecium*. However, studies are fundamentally driven by clinical cases and observations seen in this medical center. I am easy to reach by phone (x64547), email, or pager (16690), and would be more than delighted to have any member of the residents with an interest in ID come by.

**Recent Residents Mentored:** Jose Aleman, Ari Grinspan, Flonza Isovski, Connie Jung, Anna Kaltsas (currently ID attending at MSKCC), Priya Nori

**Kent A. Sepkowitz, MD (and Mini Kamboj, MD)**

MSKCC, Hospital Infection Control

Professor of Medicine, WCMC

**Email:** [sepkowik@mskcc.org](mailto:sepkowik@mskcc.org)

**Tel:** (212) 639-2441

The Infection Control Program at MSKCC invites residents interested in hospital epidemiology. Previous projects involving NYPH/Weill Cornell residents have included prevalence of HCV in Rogosin dialysis patients; risks for *Clostridium difficile* in MSKCC outpatients; seroconversion rates in healthcare workers vaccinated for varicella; control of influenza on a bone marrow transplant unit; and prevalence of markers for hepatitis B and C at the Chinatown Health Clinic. Current NYPH/Weill Cornell resident projects include clinical comparison of hypervirulent tcdc deletion *C. difficile* to standard *C. difficile* and CNS infection in cancer patients.

**Recent Residents Mentored:** Peter Mead, Matt Simon

**Mary Vogler, MD**

Associate Professor of Medicine

**Email:** [mav9046@med.cornell.edu](mailto:mav9046@med.cornell.edu)

**Tel:** (212) 746-7200

My areas of clinical research interest, in association with the AIDS Clinical Trials Group, are in HIV infection in women and perinatal HIV infection.

**Recent Residents Mentored:** Ritu Pati (currently ID fellow at Weill Cornell), Sabena Ramsetty (currently ID fellow at University of Virginia)

**Thomas J. Walsh, MD**

Professor of Medicine

Director, Transplantation/Oncology Infectious Diseases Program

**Email:** [thw2003@med.cornell.edu](mailto:thw2003@med.cornell.edu) <<mailto:thw2003@med.cornell.edu>>

**Tel:** (212) 746-6320

The mission of the Transplantation/Oncology Infectious Diseases Program is to develop new strategies for diagnosis, treatment, and prevention of life-threatening infections in immunocompromised patients. We accomplish this mission through translational laboratory and clinical research focusing on (1) antimicrobial pharmacology; (2) augmentation of innate host defenses; (3) molecular detection of emerging pathogens. The advances achieved through laboratory investigations are translated through carefully designed clinical protocols in hematopoietic stem cell transplant recipients, solid organ transplant recipients, and patients with hematological malignancies.

**Timothy Wilkin, MD, MPH**

Associate Professor of Medicine

**Email:** [tiw2001@med.cornell.edu](mailto:tiw2001@med.cornell.edu)

**Tel:** (212) 746-7202

Research interests are in the epidemiology and treatment of human papillomavirus (HPV) related anal dysplasia in HIV-infected men and women. Ongoing and planned projects include determining the predictors of persistent anal infection with HPV, describing outcomes for patients treated for high-grade anal intraepithelial neoplasia (HGAIN) and topical therapies for HGAIN.

## NEPHROLOGY & HYPERTENSION

### **Phyllis August, MD**

Professor of Medicine

**Email:** [paugust@med.cornell.edu](mailto:paugust@med.cornell.edu)

**Tel:** (212) 746-2210

Major areas of research include: (1) the pathophysiology of preeclampsia; (2) role of TGF-beta in hypertension; and (3) development and validation of biomarkers for chronic renal failure.

### **Manikkam Suthanthiran, MD**

Professor of Medicine; Chief, Division of Nephrology & Hypertension

**Email:** [msuthan@med.cornell.edu](mailto:msuthan@med.cornell.edu)

**Tel:** (212) 746-4498 or (212) 746-4430

Major areas of research include: (1) investigation of mechanisms of transplant rejection and tolerance; (2) development and validation of noninvasive biomarkers for rejection and tolerance; (3) islet cell transplantation; and (4) T-regulatory cell therapy.

## **PULMONARY, CRITICAL CARE, & SLEEP MEDICINE**

### **Ronald G. Crystal, MD**

Professor of Medicine; Chief, Division of Pulmonary and Critical Care Medicine

**Email:** [rgcryst@med.cornell.edu](mailto:rgcryst@med.cornell.edu)

**Tel:** (646) 962-4363

Genetic variability modulating the risk to smoking and the pathogenesis of COPD and lung cancer.

**Recent Residents Mentored:** Brendan Carolan, Crystal North

### **Ben-Gary Harvey, MD**

Associate Professor of Clinical Medicine

**Email:** [bgharvey@med.cornell.edu](mailto:bgharvey@med.cornell.edu)

**Tel:** (212) 746-1188

Gene expression in smoking-related lung disease and methods for tissue acquisition from subjects in pulmonary research. Clinical epidemiology of COPD and in the development of new phenotypes in smoking-related lung disease as well as new diagnostic modalities for benign and malignant lung disease.

### **Robert J. Kaner, MD**

Associate Professor of Clinical Medicine

**Email:** [rkaner@med.cornell.edu](mailto:rkaner@med.cornell.edu)

**Tel:** (646) 962-5554

Molecular mechanisms of accelerated emphysema in HIV+smokers. Idiopathic pulmonary fibrosis. Alveolar macrophage gene expression in interstitial lung disease. Role of VEGF in ARDS and severe sepsis, with potential for clinical pharmacological intervention.

### **Ana C. Krieger, MD, MPH**

Assistant Professor of Medicine

**Email:** [ack2003@med.cornell.edu](mailto:ack2003@med.cornell.edu)

**Tel:** (646) 962-7378

Translational research evaluating the effects of sleep apnea and intermittent hypoxemia in vascular thromboregulation, platelet activity, and adenosine metabolism.

### **Ann Tilley, MD**

Assistant Professor of Medicine

**Email:** [aet9003@med.cornell.edu](mailto:aet9003@med.cornell.edu)

**Tel:** (646) 962-5527

Gene expression profiling of the human lung in normal individuals and individuals with smoking-related disease.

**Recent Resident Mentored:** John Egan, Rachel Knipe

## RHEUMATOLOGY

### **Jessica R. Berman, MD**

HSS, Director of Resident and Visitor Rheumatology Education

**Email:** [bermanj@hss.edu](mailto:bermanj@hss.edu)

**Tel:** (212) 774-7501

My research interests focus around my education interests and include: (1) the use of the OSCE-designed assessment tools in evaluating trainee patient-centered skills such as professionalism and interpersonal skills; and (2) the development of simulation and software tools for arthrocentesis teaching. In addition, I am conducting a retrospective chart review of SLE patients who have both SLE and gastrointestinal manifestations, in collaboration with Dr. Brian Landzberg. The primary aim is to correlate serologic markers of SLE and of measures of disease activity with particular types of GI manifestations, analyze which imaging studies are of greatest diagnostic utility, and assess which treatments have been used most successfully.

### **Mary K. Crow, MD**

HSS, Mary Kirkland Center for Lupus Research

**Email:** [crowm@hss.edu](mailto:crowm@hss.edu)

**Tel:** (212) 606-1397

Our laboratory studies the mechanisms of induction of immune system activation in autoimmune diseases, with a particular focus on systemic lupus erythematosus (SLE). Current projects focus on the genetic contributors to production of type I interferon in SLE and the effect of interferon on disease pathogenesis. Gene expression and proteomic data are related to longitudinal clinical data from carefully characterized patients to gain insights into disease mechanisms, identify biomarkers of lupus flare, and identify targets for therapy.

### **Doruk Erkan, MD**

HSS, Division of Rheumatology

Barbara Volcker Center for Women with Rheumatic Diseases

**Email:** [erkand@hss.edu](mailto:erkand@hss.edu)

**Tel:** (212) 774-2291

I am a clinical researcher with a special interest in antiphospholipid syndrome and systemic lupus erythematosus. I am involved in multiple investigator- or pharmaceutical company-initiated clinical trials. In addition, there are multiple projects (e.g., case report, retrospective cohort analysis, database/registry analysis) in which residents can be involved.

**Recent Residents Mentored:** Medha Barbhैया, Jessica Furst, Annie Garment, Lindsay Lally

### **Steven R. Goldring, MD**

HSS, Chief Scientific Officer and St. Giles Chair

Professor of Medicine, Weill Cornell Medical College

**Email:** [goldrings@hss.edu](mailto:goldrings@hss.edu)

**Tel:** (212) 774-7554

Our laboratory studies the mechanisms by which bone remodeling is de-regulated in inflammatory diseases, such as rheumatoid arthritis and in orthopaedic conditions associated with bone loss. We study new molecular targets and novel therapeutic approaches for early detection of sites of pathological bone

loss and for preventing bone destruction in inflammatory conditions and related disorders of bone remodeling.

**Jessica Gordon, MD, MSc**

Assistant Attending Physician, Hospital for Special Surgery  
Instructor in Medicine, Weill Cornell Medical College

**Email:** [gordonj@hss.edu](mailto:gordonj@hss.edu)

**Tel:** (212) 606-1173

Dr. Gordon's research interests include scleroderma clinical trials and gene expression profiling.

**Lionel Ivashkiv, MD**

HSS, Director of Basic Research; David H. Koch Chair in Arthritis and Tissue Degeneration

**Email:** [ivashkivl@hss.edu](mailto:ivashkivl@hss.edu)

**Tel:** (212) 606-1653

Our laboratory is interested in the differentiation, function, and activation of macrophages, dendritic cells, and osteoclasts that are important in innate immunity and autoimmune/inflammatory diseases. The laboratory takes an integrated bench-to-bedside approach and studies signal transduction defects in defined *in vitro* systems using purified cells, in animal models of arthritis, lupus, and osteolysis, and in human disease samples. Recently, we have extended our approaches to include investigation of gene regulation and epigenetics, especially how chromatin modulates signaling to regulate inflammatory cytokine production.

**Recent Residents Mentored:** Soumya Chakravarty

**Kyriakos Kirou, MD**

HSS, Mary Kirkland Center for Lupus Care

**Email:** [kirouk@hss.edu](mailto:kirouk@hss.edu)

**Tel:** (212) 606-1718

My research focuses on systemic lupus erythematosus (SLE) and related diseases. We are trying to develop biomarkers of disease activity and severity by careful examination of clinical and research data in a longitudinal cohort of SLE patients. Research data include gene expression data from real-time PCR, microarrays, and proteomics.

**Michael Lockshin, MD**

HSS, Director, Barbara Volcker Center for Women with Rheumatic Diseases

Professor of Medicine and Obstetrics/Gynecology

**Email:** [LockshinM@hss.edu](mailto:LockshinM@hss.edu)

**Tel:** (212) 606-1461

The Barbara Volcker Center's interests are: sex discrepancy in autoimmune disease, pregnancy in rheumatic disease, antiphospholipid syndrome, and systemic lupus erythematosus with specific focus on neurological lupus. By individual arrangement with the interested resident, we offer an experience in medical aspects of pregnancies complicated by rheumatic illness. Experiences with the other topics are available on request.

**Lisa A. Mandl, MD, MPH**

HSS, Rheumatology Clinical Research Center

**Email:** [mandll@hss.edu](mailto:mandll@hss.edu)

**Tel:** (212) 774-2555

I enjoy working with residents and would be happy to discuss potential clinical research projects. I am a rheumatologist/epidemiologist with a focus on osteoarthritis, inflammatory arthritis, and total joint replacement. I also have an interest in healthcare disparities.

**Alessandra B. Pernis, MD**

HSS, Mary Kirkland Center for Lupus Research

**Email:** [pernisa@hss.edu](mailto:pernisa@hss.edu)

**Tel:** (212) 606-1612

Defects in the appropriate regulation of T cell activation underlie the pathogenesis of many autoimmune disorders including Systemic Lupus Erythematosus (SLE) and Rheumatoid Arthritis (RA). The long-term goals of our laboratory are to employ both murine models and translational approaches to delineate the mechanisms responsible for lymphocyte dysfunction in autoimmune diseases. A detailed understanding of these mechanisms will enable us to gain a better understanding of the pathogenesis of autoimmune diseases, such as SLE and RA, and provide important information for the development of novel therapeutic regimens for the treatment of SLE and RA.

**Jane E. Salmon, MD**

HSS, Mary Kirkland Center for Lupus Research

**Email:** [salmonj@hss.edu](mailto:salmonj@hss.edu)

**Tel:** (212) 606-1422

The goal of our research is to identify determinants of disease phenotype in systemic lupus erythematosus (SLE) and related diseases, and to thereby identify targets for therapy. We are studying mechanisms of tissue injury in three projects: (1) the role of complement activation and angiogenic dysregulation in antiphospholipid antibody-induced pregnancy complications; (2) accelerated cardiovascular disease in SLE and rheumatoid arthritis (prevalence and responsible mechanisms); (3) the regulation of effector functions triggered by complement and receptors for immunoglobulin G and its implication for autoimmune disease.

**Sergio Schwartzman, MD**

HSS, Rheumatology

**Email:** [schwartzmans@hss.edu](mailto:schwartzmans@hss.edu)

**Tel:** (212) 606-1557

I would be more than happy to work with medical residents. My interests are: (1) autoimmune ophthalmic diseases; (2) developing a database/registry for rheumatoid arthritis and the spondyloarthropathies (psoriatic arthritis, ankylosing spondylitis, reactive arthritis, colitis-associated arthritis), and once developed, to define appropriate studies. Currently, a rheumatoid arthritis database is being piloted at HSS.

**Robert Spiera, MD**

Associate Professor of Clinical Medicine, Weill Cornell Medical College

HSS, Director of the Vasculitis and Scleroderma Program

**Email:** [spierar@hss.edu](mailto:spierar@hss.edu)

**Tel:** (212) 774-2048

I have been the principal investigator of funded clinical trials as well as observational studies relating to scleroderma, vasculitis, and other rheumatic diseases. My research centers on the initiation and performance of clinical trials that are designed to improve the quality of life of patients by providing evidence on the tolerability, safety, and effectiveness of investigational drugs in the treatment of these diseases. In addition, I provide direction and guidance for fellows and junior faculty members who are conducting translational research with the objectives of better understanding the various biologic factors that influence the disease and identifying new therapeutic targets.

## OTHER AREAS OF RESEARCH

### **Lawrence P. Casalino, MD, PhD**

Chief, Division of Outcomes and Effectiveness Research, Department of Public Health

**Email:** [lac2021@med.cornell.edu](mailto:lac2021@med.cornell.edu) <<mailto:lac2021@med.cornell.edu>>

**Tel:** (646) 962-8044

Dr. Casalino studies the organization of physician practices, the use of organized processes to improve the quality of care and to control costs by physicians and hospitals, physician relations with hospitals and health plans, and healthcare policy. Examples of projects: (1) national survey of medical groups to obtain data on group structure, IT, and policy environment; (2) review of medical records in 23 medical groups to determine frequency of physicians' failing to inform patients of clinically significant abnormal outpatient test results; (3) large national survey to estimate the cost to physician practices of dealing with health plans.

**Recent Residents Mentored:** Lhasa Ray

### **Curtis L. Cole, MD**

Associate Professor of Clinical Medicine and Public Health; Chief Information Officer

**Email:** [ccole@med.cornell.edu](mailto:ccole@med.cornell.edu)

**Tel:** (212) 746-0483

I have supervised several students and residents who have successfully completed projects in medical informatics. Topics of specific interest are evaluation of electronic medical records; terminology and terminology servers; clinical research management systems; data warehousing; decision support; quality and safety reporting; patient portals; semantic web; and social networking. I can also suggest potential collaborative projects with other faculty. I can assist residents trying to access data for projects.

### **Gary Deng, MD, PhD**

Associate Member and Attending Physician

MSKCC, Integrative Medicine Service

**Email:** [dengg@mskcc.org](mailto:dengg@mskcc.org)

**Tel:** (646) 888-0841

Clinical trials of complementary therapies in cancer supportive care include use of acupuncture and botanical agents. Trainees will learn the fundamentals of complementary therapies and design of clinical studies. They will assist in the conduct of rigorously designed clinical trials to evaluate the safety and efficacy of these therapies in the setting of cancer care. This project offers a rewarding and unique experience to residents interested in clinical research and integrative medicine.

### **Rainu Kaushal, MD, MPH**

Associate Professor of Pediatrics, Medicine and Public Health

Chief, Division of Quality and Clinical Informatics (Public Health)

**Email:** [rak2007@med.cornell.edu](mailto:rak2007@med.cornell.edu)

**Tel:** (646) 962-8065

We have successfully mentored residents in the past, and would be happy to do so again. Working with Dr. Lisa Kern, we study the effectiveness and comparative effectiveness of health information technology (IT) applications, with a particular focus on economic, quality, safety, patient, and provider outcomes. We

are also interested in health IT adoption, health IT policy, and unintended consequences from the use of health IT.

**Recent Resident Mentored:** Sonja Olson

**Lisa M. Kern, MD, MPH**

Associate Professor of Public Health and Medicine

**Email:** [lmk2003@med.cornell.edu](mailto:lmk2003@med.cornell.edu)

**Tel:** (646) 962-8066

I have successfully mentored residents in the past, and would be willing to do so again. I study the effectiveness and comparative effectiveness of various strategies to improve ambulatory care quality and efficiency, with a focus on the evaluation of health information technology and other related interventions, including the patient-centered medical home.

**Recent Residents Mentored:** Amanda Carmel, Daniel Goldin, Abby Spencer

**Alvin I. Mushlin, MD, ScM**

Professor of Public Health and Medicine; Chair, Department of Public Health

**Email:** [aim2001@med.cornell.edu](mailto:aim2001@med.cornell.edu)

**Tel:** (646) 962-8009

Clinical research opportunities are available in the general area of outcomes and comparative effectiveness research, clinical decision-making, and clinical policy formulation. Studies include: (1) quantifying the value and accuracy of diagnostic tests and procedures; (2) understanding the efficacy and cost-effectiveness of interventions for common clinical problems; (3) measuring the quality of medical care.

**Kenneth Offit, MD, MPH**

MSKCC, Chief, Clinical Genetics Service

**Email:** [offitk@mskcc.org](mailto:offitk@mskcc.org)

**Tel:** (646) 888-4067

Research is focused on questions related to inherited susceptibility to cancer. Research projects range from laboratory-based, genome-wide association scans and next-generation sequencing projects to clinical projects correlating abstracted chart information with specific germline genetic mutations.

*Contact:* Vijai Joseph, PhD, Clinical Cancer Genetics Research Laboratory Director, MSKCC. Tel: (646) 888-3098

**Recent Fellows Mentored:** Robert J. Hamilton, Sohela Shah

**Incoming Fellow:** Kasmintan (Intan) A. Schrader

**Henry Wei, MD**

Clinical Instructor in Medicine

**Email:** [hgw2001@med.cornell.edu](mailto:hgw2001@med.cornell.edu)

**Tel:** (646) 450-0321 or (212) 849-0125

My R&D innovation team focuses on commercially based healthcare IT and applied medical informatics/computing, with emphasis on computerized clinical decision support, clinical outcomes and performance measurement, health economic evaluation, and evidence-based medicine. (I also work in predictive modeling and program design for disease and wellness management and preference-sensitive care management programs.) The team also develops both provider-facing and consumer-facing online health systems, such as personal health records and health risk assessments, with application in healthcare

insurance and employer-sponsored care management programs. I also participate in R&D for IT-based solutions applied in patient-centered medical homes and accountable care organizations in the context of health information exchanges. I would welcome any level of interest — informal coffee chats, project design and/or manuscript review, full-fledged research project — from any interested fellows, residents, or medical students.

## INDEX

### TOPICS

*The following is an alphabetical index of specific research areas of study by the faculty members listed in the previous section. A faculty member may be listed here under more than one research area. For example, one who studies the public health implications of patients co-infected with HIV and hepatitis virus might be listed under “public health,” “HIV,” and “hepatitis.”*

Adenocarcinoma, lung	Miller (H-O, MSKCC)
Advance care planning	Finkelstein (Geri)
Amyloidosis	Landau (H-O, MSKCC)
Androgen receptor	Scher (H-O, MSKCC)
Androgens	Imperato-McGinley (Endo) Scher (H-O, MSKCC) Zhu (Endo)
Ankylosing spondylitis	Schwartzman (Rheum, HSS)
Antibiotic resistance	Alexander (ID) Calfee (ID) Rhee (ID)
Antiphospholipid syndrome	Erkan (Rheum, HSS) Lockshin (Rheum, HSS) Salmon (Rheum, HSS)
Antiviral therapy	de Jong (GI) Jacobson (GI) Laurence (H-O)
Aortic aneurysm	Roman (Card)
ARDS	Kaner (Pulm)
Arrhythmias	Basson (Card) Christini (Card) Lerman (Card)
Arthritis, colitis associated	Schwartzman (Rheum, HSS)
Arthritis, inflammatory	Mandl (Rheum) Schwartzman (Rheum, HSS)
Arthritis, reactive	Schwartzman (Rheum, HSS)
Artificial intelligence	Hollenberg (CEESR)
Asthma	Crystal (Pulm)
Autoimmune disease	Berman (Rheum, HSS) Crow (Rheum, HSS) Erkan (Rheum, HSS) Gordon (Rheum, HSS) Ivashkiv (Rheum, HSS) Kirou (Rheum, HSS) Liou (Immun) Pernis (Rheum, HSS) Salmon (Rheum, HSS) Schwartzman (Rheum, HSS)
Barrett’s esophagus	Kahaleh (GI) Schnoll-Sussman (GI)
Behavioral interventions	Peterson (CEESR)

Biliary tract	Kahaleh (GI)
Biomarkers	Bosworth (GI)
	Cigler (H-O)
	Kirou (Rheum, HSS)
Bioterror agents	Golightly (ID)
Bisphosphonates	Farooki (Endo, MSKCC)
Bladder cancer	Nanus (H-O)
	Tagawa (H-O)
Bone loss	Goldring (Rheum, HSS)
Bone marrow failure	Roboz (H-O)
Bone marrow transplantation	Hsu (H-O, MSKCC)
	Landau (H-O, MSKCC)
	Nimer (H-O, MSKCC)
	Walsh (ID)
	Young (H-O, MSKCC)
Brain development	Hempstead (H-O)
	Teng (H-O)
Breast cancer	Cigler (H-O)
	Hudis (H-O, MSKCC)
	Traina (H-O, MSKCC)
CA125	Spriggs (H-O, MSKCC)
Cancer cell biology	Giannakakou (H-O)
Cancer genetics	Dannenberg (GI)
	Giannakakou (H-O)
	Houvras (H-O)
	Lipkin (GI)
	Offit (MSKCC)
Cancer stem cells	Guzman (H-O)
Cancer vaccines	Palomba (H-O, MSKCC)
Cardiac electrophysiology	Christini (Card)
Cardiac imaging	Lin (Card)
	Weinsaft (Card)
Cardiac toxicity	Schaffer (Card, MSKCC)
Cardiomyopathy	Basson (Card)
	Cheung (Card)
Cardiology, noninvasive	Okin (Card)
	Schaffer (Card, MSKCC)
	Weinsaft (Card)
Cardiovascular disease	Lin (Card)
	Roman (Card)
	Salmon (Rheum, HSS)
Cellular therapy	Suthanthiran (Renal)
Chemokines	Talal (GI)
Chemoprevention	Schnoll-Sussman (GI)
Chemotherapy resistance	Shah (H-O)
Chemotherapy, toxicity	Schaffer (Card, MSKCC)
Chronic lymphocytic leukemia	Furman (H-O)
	Liou (Immun)
	Palomba (H-O, MSKCC)
Cirrhosis	Jacobson (GI)

<i>Clostridium difficile</i>	Calfee (ID)
	Crawford (GI)
	Sepkowitz (ID, MSKCC)
Colon polyps	Crawford (GI)
Colorectal cancer	Dannenberg (GI)
	MSKCC Gastroenterology and Nutrition Service (GI)
	Schnoll-Sussman (GI)
Community-based research	Boutin-Foster (CEESR)
	Phillips-Caesar (CEESR)
	Pillemer (Geri)
	Reid (Geri)
Complement	Salmon (Rheum, HSS)
Complementary/alternative med.	Charlson (CEESR)
	Deng (Gen Med, MSKCC)
Congenital heart disease	Basson (Card)
COPD	Crystal (Pulm)
	Harvey (Pulm)
	Kaner (Pulm)
Coronary artery disease	Feldman (Card)
	Schaffer (Card, MSKCC)
Cost effectiveness	Mushlin (PH)
Cyclic AMP	Lerman (Card)
Decision analysis	Hollenberg (CEESR)
Dementia	Lachs (Geri)
Dendritic cells	Ivashkiv (Rheum, HSS)
	Young (H-O, MSKCC)
Diabetes	Glesby (ID)
	Kizer (Card)
	Suthanthiran (Renal)
Domestic violence	Lachs (Geri)
EGFR mutations	Miller (H-O, MSKCC)
Elder abuse	Lachs (Geri)
Electronic medical record	Siegler (Geri)
Electrophysiology, cardiac	Cheung (Card)
Electrophysiology, molecular	Christini (Card)
Emergency medicine	Lachs (Geri)
End of life	Adelman (Geri)
Epidemiology	Charlson (CEESR)
	Mandl (Rheum)
	Peterson (CEESR)
Epidemiology, hospital	Calfee (ID)
	Kamboj (ID, MSKCC)
	Sepkowitz (ID, MSKCC)
Epidemiology, molecular	Rhee (ID)
Epigenomics	Elstrom (H-O)
	Houvras (H-O)
	Melnick (H-O)
	Nimer (H-O)
Ethics	Raik (Geri)
Food, waterborne pathogen	Golightly (ID)
Fungal infections	Walsh (ID)

G proteins	Lerman (Card)
Gastrointestinal malignancies	Abou-Alfa (H-O, MSKCC)
	Shah (H-O)
Gene expression	Crystal (Pulm)
	Gordon (Rheum, HSS)
	Kirou (Rheum, HSS)
	Offit (MSKCC)
	Tilley (Pulm)
Genitourinary cancer	Nanus (H-O)
	Tagawa (H-O)
Geriatric oncology	Ritchie (H-O)
	Traina (H-O, MSKCC)
Geriatric pharmacology	Reidenberg (Pharm)
Global Health	Fitzgerald (ID)
	Reidenberg (Pharm)
Gram-negative infection	Calfee (ID)
Growth factors	Hempstead (H-O)
	Teng (H-O)
Gynecologic cancers	Spriggs (H-O, MSKCC)
Haiti	Fitzgerald (ID)
Health disparities	Boutin-Foster (CEESR)
	Downs (ID)
	Phillips-Caesar (CEESR)
	Reid (Geri)
Health policy	Borden (Card)
	Finkelstein (Geri)
	Siegler (Geri)
Hematologic malignancies	Furman (H-O)
	Liou (Immun)
	Leonard (H-O)
	Niesvizky (H-O)
	Nimer (H-O, MSKCC)
	Ritchie (H-O)
	Roboz (H-O)
Hematopoiesis	Young (H-O, MSKCC)
	Nimer (H-O, MSKCC)
HIV/AIDS	Downs (ID)
	Fitzgerald (ID)
	Glesby (ID)
	Gulick (ID)
	Kaner (Pulm)
	Laurence (H-O)
	Marks (ID)
	Vogler (ID)
	Wilkin (ID)
Hepatic steatosis	Glesby (ID)
Hepatitis	de Jong (GI)
	Glesby (ID)
	Marks (ID)
	Jacobson (GI)
	Sepkowitz (ID, MSKCC)

Hepatobiliary cancer	Talal (GI) Abou-Alfa (H-O, MSKCC) O'Reilly (H-O, MSKCC)
History, medical	Siegler (Geri)
Hormonal therapy	Cigler (H-O)
Human papillomavirus (HPV)	Wilkin (ID)
Hypertension	August (Renal)
Immunology	Bosworth (GI) Ivashkiv (Rheum, HSS) Liou (Immun) Pernis (Rheum, HSS) Salmon (Rheum, HSS) Young (H-O, MSKCC)
Immunotherapy	Elstrom (H-O) Jurcic (H-O, MSKCC) Ryder (Endo, MSKCC)
Innate Immunity	de Jong (GI)
Infections, hospital acquired	Calfee (ID)
Infections, multi-drug resistant	Calfee (ID)
Inflammatory bowel disease	Bosworth (GI)
Inflammation	Dannenberg (GI) Dannenberg (GI) Goldring (Rheum, HSS) Ivashkiv (Rheum, HSS) Liou (Immun)
Influenza	Smith (Immun)
Information technology	Berman (Rheum, HSS) Casalino (PH) Cole (Gen. Med.) Hollenberg (CEESR) Kaushal (CEESR) Kern (CEESR) Siegler (Geri)
Insulin resistance	Glesby (ID)
Interferon	Crow (Rheum, HSS)
Integrative medicine	Deng (Gen Med, MSKCC)
Interleukins	Ivashkiv (Rheum, HSS) Smith (Immun)
Islet cell transplantation	Suthanthiran (Renal)
ITP	Bussel (H-O)
JAK	Ivashkiv (Rheum, HSS)
Joint replacement	Levine (H-O, MSKCC)
Leukemia	Mandl (Rheum) Guzman (H-O) Hsu (H-O, MSKCC) Jurcic (H-O, MSKCC) Melnick (H-O) Nimer (H-O, MSKCC) Roboz (H-O)
Leukemia stem cells	Guzman (H-O)
Lung cancer	Azzoli (H-O, MSKCC)

Lymphoma	Harvey (Pulm) Miller (H-O, MSKCC) Elstrom (H-O) Gerecitano (H-O, MSKCC) Leonard (H-O) Liou (Immun) Martin (H-O) Melnick (H-O) Palomba (H-O, MSKCC) Zelenetz (H-O, MSKCC)
Marfan syndrome	Roman (Card)
Medical education	Berman (Rheum, HSS) Raik (Geri)
Medical informatics	Cole (Gen. Med.) Wei (Gen. Med.)
Melanoma	Houvras (H-O)
Metabolomics	Dannenberg (GI)
Microbiology	Bosworth (GI)
Microtubules	Giannakakou (H-O)
Molecular epidemiology	Rhee (ID)
Multiple myeloma	Landau (H-O, MSKCC) Liou (Immun) Niesvizky (H-O) Nimer (H-O, MSKCC) Nimer (H-O, MSKCC) Levine (H-O, MSKCC) Nimer (H-O, MSKCC) Roboz (H-O)
Myelodysplastic syndromes	Hsu (H-O, MSKCC)
Myeloproliferative disorders	Hempstead (H-O) Teng (H-O)
Natural killer (NK) cells	Okin (Card)
Neurotrophin	Weinsaft (Card)
Noninvasive cardiology	Dannenberg (GI)
Nutrigenomics	Liou (Immun)
Oncogenes	Melnick (H-O) Walsh (ID)
Opportunistic infections	Miller (ID, HSS)
Orthopedic infections	Mandl (Rheum)
Osteoarthritis	Farooki (Endo, MSKCC)
Osteonecrosis	Casalino (PH) Charlson (CEESR) Kaushal (CEESR) Kern (CEESR) Mandl (Rheum) Mushlin (PH)
Outcomes	Spriggs (H-O, MSKCC)
Ovarian cancer	Adelman (Geri)
Palliative care	Abou-Alfa (H-O, MSKCC)
Pancreatic cancer	MSKCC Gastroenterology and Nutrition Service (GI) O'Reilly (H-O, MSKCC)

Pancreatic cyst	Schnoll-Sussman (GI)
Pancreatitis	Schnoll-Sussman (GI)
Pain	Kahaleh (GI)
Parasitology	Reid (Geri)
Percutaneous coronary intervention	Downs (ID)
Pericardial disease	Borden (Card)
Pharmacogenomics	Schaffer (Card, MSKCC)
Pharmacology, clinical	Reidenberg (Pharm)
	Reidenberg (Pharm)
	Spiera (Rheum, HSS)
PI3K/AKT signaling	Scher (H-O, MSKCC)
Plasmacytoma	Landau (H-O, MSKCC)
Platelets	Bussel (H-O)
	Feldman (Card)
	Kizer (Card)
	Krieger (Pulm)
	Laurence (H-O)
Policy, health care	Casalino (PH)
	Kaushal (CEESR)
	Kern (Gen Med)
	Reidenberg (Pharm)
Preeclampsia	August (Renal)
Pregnancy loss	Salmon (Rheum, HSS)
Prevention	Schnoll-Sussman (GI)
	Calfee (ID)
Prostate cancer	Nanus (H-O)
	Scher (H-O, MSKCC)
	Tagawa (H-O)
Prostate	Imperato-McGinley (Endo)
	Zhu (Endo)
Psoriatic arthritis	Schwartzman (Rheum, HSS)
Public Health	Casalino (PH)
	Mushlin (PH)
	Phillips-Caesar (CEESR)
Pulmonary fibrosis	Kaner (Pulm)
Quality of care	Casalino (PH)
	Cole (CEESR)
	Kaushal (CEESR)
	Kern (CEESR)
	Mushlin (PH)
Racial disparities	Boutin-Foster (CEESR)
	Reid (Geri)
Renal cell cancer	Nanus (H-O)
	Tagawa (H-O)
Renal failure	August (Renal)
	Suthanthiran (Renal)
Renal transplantation	Gambarin-Gelwan (GI)
	Suthanthiran (Renal)
Research Methodology	Phillips-Caesar (CEESR)
Rheumatoid arthritis	Goldring (Rheum, HSS)
	Pernis (Rheum, HSS)

	Roman (Card)
	Salmon (Rheum, HSS)
	Schwartzman (Rheum, HSS)
Scleroderma	Gordon (Rheum, HSS)
	Spiera (Rheum, HSS)
Sepsis	Kaner (Pulm)
Sex hormones	Imperato-McGinley (Endo)
	Zhu (Endo)
Sleep apnea	Krieger (Pulm)
Sleep disorders	Krieger (Pulm)
Smoking	Crystal (Pulm)
	Harvey (Pulm)
	Tilley (Pulm)
Spondyloarthropathies	Schwartzman (Rheum, HSS)
Stem cells	Basson (Card)
	Guzman (H-O)
Substance abuse	Reid (Geri)
Surgical site infections	Miller (ID, HSS)
Systemic lupus erythematosus	Berman (Rheum, HSS)
	Crow (Rheum, HSS)
	Erkan (Rheum, HSS)
	Ivashkiv (Rheum, HSS)
	Kirou (Rheum, HSS)
	Lockshin (Rheum, HSS)
	Pernis (Rheum, HSS)
	Roman (Card)
	Salmon (Rheum, HSS)
T cells	Ryder (Endo, MSKCC)
	Smith (Immun)
	Suthanthiran (Renal)
Tanzania	Downs (ID)
	Fitzgerald (ID)
Thrombosis	Erkan (Rheum)
	Kizer (Card)
	Lockshin (Rheum, HSS)
Thyroid cancer	Ryder (Endo, MSKCC)
Transplant infectious diseases	Walsh (ID)
Transplant rejection	Suthanthiran (Renal)
	Liou (Immun)
Transplant tolerance	Suthanthiran (Renal)
	Young (H-O, MSKCC)
Tropical infectious diseases	Downs (ID)
TTP	Laurence (H-O)
Tuberculosis	Fitzgerald (ID)
	Rhee (ID)
Urogenital schistosomiasis	Downs (ID)
Vaccines	Sepkowitz (ID, MSKCC)
	Smith (Immun)
Vaccines, cancer	Palomba (H-O, MSKCC)
Vascular disorders	Basson (Card)
	Spiera (Rheum, HSS)

Ventricular tachycardia  
Vitamin D  
Weight loss

Lerman (Card)  
Farooki (Endo, MSKCC)  
Phillips-Caesar (CEESR)

## DISCIPLINE

*The following is a listing of faculty members by general discipline. A faculty member may be listed in more than one category. For example, one who is conducting research in lung cancer might be listed under both “Hematology-Oncology” and “Pulmonary.”*

Cardiology (Card)	Basson (Card) Borden (Card) Christini (Card) Feldman (Card) Imperato-McGinley (Endo) Kizer (Card) Lerman (Card) Lin (Card) Okin (Card) Roman (Card) Salmon (Rheum, HSS) Schaffer (Card, MSKCC) Weinsaft (Card) Zhu (Endo)
Clinical Epidemiology and Evaluative Sciences Research (CEESR)	Boutin-Foster (CEESR) Charlson (CEESR) Cole (CEESR) Deng (Gen Med, MSKCC) Hollenberg (CEESR) Kaushal (CEESR) Kern (CEESR) Peterson (CEESR) Phillips-Caesar (CEESR)
Clinical Pharmacology (Pharm)	Reidenberg (Pharm) Spiera (Rheum, HSS)
Endocrinology (Endo)	Brillon (Endo) Farooki (Endo, MSKCC) Glesby (ID) Imperato-McGinley (Endo) Kizer (Card) Ryder (Endo, MSKCC) Zhu (Endo)
Gastroenterology/Liver (GI)	Berman (Rheum, HSS) Bosworth (GI) Dannenberg (GI) Gambarin-Gelwan (GI) Jacobson (GI) Lipkin (GI) MSKCC Gastroenterology and Nutrition Service (GI) O’Reilly (H-O, MSKCC) Schnoll-Sussman (GI) Talal (GI)

Genetics (Gen)

Basson (Card)  
Crystal (Pulm)  
Giannakakou (H-O)  
Gordon (Rheum, HSS)  
Houvras (H-O)  
Kirou (Rheum, HSS)  
Lipkin (GI)

Geriatrics (Geri)

Offit (MSKCC)  
Adelman (Geri)  
Finkelstein (Geri)  
Lachs (Geri)  
Pillemer (Geri)  
Raik (Geri)  
Reid (Geri)  
Reidenberg (Pharm)  
Ritchie (H-O)  
Siegler (Geri)

Hematology-Oncology (H-O)

Traina (H-O, MSKCC)  
Abou-Alfa (H-O, MSKCC)  
Azzoli (H-O, MSKCC)  
Bussel (H-O)  
Cigler (H-O)  
Dannenberg (GI)  
Elstrom (H-O)  
Farooki (Endo, MSKCC)  
Furman (H-O)  
Gerecitano (H-O, MSKCC)  
Giannakakou (H-O)  
Houvras (H-O)  
Hsu (H-O, MSKCC)  
Hudis (H-O, MSKCC)  
Jurcic (H-O, MSKCC)  
Landau (H-O, MSKCC)  
Leonard (H-O)  
Levine (H-O, MSKCC)  
Liou (Immun)  
Lipkin (GI)  
Martin (H-O)  
Melnick (H-O)  
Miller (H-O, MSKCC)  
MSKCC Gastroenterology and Nutrition Service (GI)  
Nanus (H-O)  
Niesvizky (H-O)  
Nimer (H-O, MSKCC)  
O'Reilly (H-O, MSKCC)  
Palomba (H-O, MSKCC)  
Ritchie (H-O)  
Roboz (H-O)  
Ryder (Endo, MSKCC)  
Schaffer (Card, MSKCC)  
Scher (H-O, MSKCC)

	Spriggs (H-O, MSKCC)
	Tagawa (H-O)
	Traina (H-O, MSKCC)
	Young (H-O, MSKCC)
	Zelenetz (H-O, MSKCC)
Immunology (Immun)	Crow (Rheum, HSS)
	Elstrom (H-O)
	Ivashkiv (Rheum, HSS)
	Liou (Immun)
	Pernis (Rheum, HSS)
	Salmon (Rheum, HSS)
	Smith (Immun)
	Young (H-O, MSKCC)
Infectious Diseases (ID)	Alexander (ID)
	Calfee (ID)
	de Jong (GI)
	Downs (ID)
	Fitzgerald (ID)
	Glesby (ID)
	Golightly (ID)
	Gulick (ID)
	Jacobson (GI)
	Kamboj (ID, MSKCC)
	Laurence (H-O)
	Marks (ID)
	Miller (ID, HSS)
	Rhee (ID)
	Sepkowitz (ID, MSKCC)
	Smith (Immun)
	Vogler (ID)
	Walsh (ID)
	Wilkin (ID)
Public Health (PH)	Borden (Card)
	Casalino (PH)
	Downs (ID)
	Kaushal (CEESR)
	Kern (CEESR)
	Mushlin (PH)
	Phillips-Caesar (CEESR)
Pulmonary (Pulm)	Azzoli (H-O, MSKCC)
	Crystal (Pulm)
	Kaner (Pulm)
	Krieger (Pulm)
	Miller (H-O, MSKCC)
	Tilley (Pulm)
Renal/Hypertension (Renal)	August (Renal)
	Gambarin-Gelwan (GI)
	Suthanthiran (Renal)
Rheumatology (Rheum)	Berman (Rheum, HSS)
	Erkan (Rheum, HSS)
	Goldring (Rheum, HSS)

Sleep Medicine (Pulm)

Gordon (Rheum, HSS)  
Ivashkiv (Rheum, HSS)  
Kirou (Rheum, HSS)  
Lockshin (Rheum, HSS)  
Mandl (Rheum, HSS)  
Pernis (Rheum, HSS)  
Roman (Card)  
Salmon (Rheum, HSS)  
Schwartzman (Rheum, HSS)  
Spiera (Rheum, HSS)  
Krieger (Pulm)

## RESIDENT CONTACTS

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