

Directory of Faculty Research Interests

RESEARCH OPPORTUNITIES FOR RESIDENTS

July 2009

DEPARTMENT OF MEDICINE
NEW YORK-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 of “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 have not yet responded to our requests for information.) In most cases, the descriptions of research areas under each faculty member use the actual text supplied by the faculty member. Descriptions are followed by the names of “Recent Residents Mentored”, if any: these Residents are also cross-referenced alphabetically in another section, 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 these faculty members.

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CARDIOLOGY

Craig T. Basson, MD

Gladys & Roland Harriman Professor of Medicine
Director of the Cardiovascular Genetics Laboratory
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Our research program is dedicated to using human genetics to identify gene defects that cause a variety of cardiovascular disorders and then to using animal models to define the molecular pathways perturbed by these defects and to devise new therapeutic strategies. We have particular interests in congenital cardiac malformations, cardiac tumors, cardiomyopathies, arrhythmias, and vascular pathologies such as aortic aneurysms and coronary artery anomalies. We are devising novel genetic and stem cell based diagnostic and therapeutic modalities.

Recent Residents Mentored: Luke Kim, Shaun Ageno, Alex Yi, Whitney Brown

Dmitriy N. Feldman, MD

Assistant Professor of Medicine
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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 as well as the Weill Cornell Catheterization Laboratory institutional database. Clinical research expertise includes the use of peri-procedural pharmacological agents, particularly bivalirudin, glycoprotein IIb/IIIa inhibitors, thienopyridines, as well as peri-procedural platelet function testing.

Jorge R. Kizer, MD

Associate Professor of Medicine and Public Health
Email: jok2007@med.cornell.edu
Tel: 212-746-4655

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.

Bruce B. Lerman, MD

Hilda Altschul Master Professor of Medicine; Chief, Greenberg Division of Cardiology

Email: blerman@med.cornell.edu

Tel: 212-746-2169

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.

Issam Moussa, MD

Associate Professor of Medicine; Director of Endovascular Service

Email: ism9003@med.cornell.edu

Tel: 212-746-2157

Ongoing and planned clinical research projects in: (1) coronary artery disease revascularization (PC), including outcome of revascularization of chronic total occlusions, and bleeding and cardiac events in patients receiving chronic anticoagulation and dual antiplatelet therapy after PCI; (2) peripheral arterial disease, including the impact of chronic limb ischemia on lower extremity muscle atrophy (by MRI), and developing prospective database with potential to generate several hypotheses and projects.

Peter Okin, MD

Professor of Medicine

Email: pokin@med.cornell.edu

Tel: 212-746-4688

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

Wendy Schaffer, MD

MSKCC, Cardiology Service

Email: schaffew@mskcc.org

Tel: 212-639-3735

Interests in clinical projects related to cancer patients and their cardiac function. Current projects include evaluation of: (1) 5-FU cardiac toxicity in patients underlying CAD; (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.

Kenneth Stein, MD

Associate Professor of Medicine

Email: kstein@med.cornell.edu

Tel: 212-746-2158

Primary areas of research interest suitable for the housestaff include: risk stratification for sudden cardiac death, optimization of cardiac resynchronization therapy, and selective site cardiac pacing. The best way for interested house officers to initiate contact is via email, although telephone (x62158) is perfectly acceptable, as is just grabbing me in the hallway!

Recent Residents Mentored: Ashwani Sastry, Jonathan Clarke, Dan Cantillon, Andreas Mauer, Felix Yang

Jonathan W. Weinsaft, MD

Assistant Professor of Medicine; Director, Cardiac MRI Program

Email: jww2001@med.cornell.edu

Tel: 212-746-2437

I look forward to ongoing opportunities to work with interested residents 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: Christopher Gade (currently Weill Cornell Cardiology Fellow), Taral Patel (currently Northwestern Cardiology Fellow), Michael Ross (currently Northwestern Cardiology Fellow), Christopher Chu, Jason Chinitz

CLINICAL PHARMACOLOGY

Marcus M. Reidenberg, MD

Professor of Medicine, Pharmacology and Public Health

Chief, Division of Clinical Pharmacology

Email: mmreid@med.cornell.edu

Tel: 212-746-6227

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 to 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

David J. Brillon, MD

Associate Professor of Clinical Medicine

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Tel: 212-746-6290

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

Azeez Farooki, MD, FACE

MSKCC, Endocrinology Service

Email: farookia@mskcc.org

Tel: 646-888-2711

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, and the relationship between vitamin D and cancer.

Julianne Imperato-McGinley, MD

The Abby Rockefeller Mauze´ Distinguished Professor of Endocrinology in Medicine

Chief, Division of Endocrinology, Diabetes and Metabolism

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

Email: jimperato@med.cornell.edu

Tel: 212-746-6277

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

MSKCC, Endocrinology Service

Email: ryderm@mskcc.org

Tel: 646-888-2713 (office) or 646-888-2164 (lab)

Research is focused on understanding how the tumor microenvironment facilitates thyroid cancer progression (for example, by manipulating tumor-associated macrophages in models of thyroid cancer). Preclinical studies are being performed using an immunotherapy to activate cytotoxic T cells in thyroid cancers, with the goal of

developing an immunotherapy clinical trial for patients with treatment-refractory, advanced stage thyroid cancer.

Yuan-Shan Zhu, MD, PhD

Associate Professor of Medicine

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

Email: yuz2002@med.cornell.edu

Tel: 212-746-8348

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

Brian Bosworth, MD

Assistant Professor of Medicine

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At the Roberts Center for Inflammatory Bowel Disease, we actively welcome and encourage housestaff 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. 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: Alyssa Parian, Himanshu Verma, Raja Taunk, Subha Sundararajan, Yasmin Metz, Frank Scott, Robin Mendelsohn

Andrew Dannenberg, MD

Henry R. Erle, MD-Roberts Family Professor of Medicine; Director of Cancer Center

Email: ajdann@med.cornell.edu

Tel: 212-746-4403

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 underway that focus on obesity, smoking, hereditary cancer, inflammatory bowel disease, and nutrigenomics. The potential use of metabolomics for biomarker development is also being investigated.

Maya Gambarin-Gelwan, MD

Assistant Professor of Medicine

Email: mag2046@med.cornell.edu

Tel: 646-962-4040

I would be very interested in working on research opportunities with our residents. Current research projects involve patients with non-alcoholic liver disease and chronic hepatitis C and liver cancer. 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.

Ira Jacobson, MD

Vincent Astor Distinguished Professor in Clinical Medicine
Chief, Division of Gastroenterology & Hepatology
Email: imj2001@med.cornell.edu
Tel: 646-962-4040

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.

Ellen J. Scherl, MD

Associate Clinical Professor of Medicine; Director, Roberts IBD Center
Email: ejs2005@med.cornell.edu
Tel: 212-746-5077

We are delighted to work with Residents on developing individual projects. Current projects include: (1) Crohn's disease-associated NOD2 mutant regulation of IL-10 gene expression (with Dr. Ma); (2) characterization of mucosa-associated bacterial flora in inflammatory bowel disease (IBD); (3) inflammatory markers and mediators in GI inflammation; (4) pregnancy and neonatal outcomes and complications in preclinical IBD; (5) enzymatic determinants of prostaglandin levels in colonic mucosa (with Dr. Dannenberg), and others.

Felice Schnoll-Sussman, MD

Assistant Professor of Medicine
Email: fhs2001@med.cornell.edu
Tel: 212-746-9355 (assistant Nurit)

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

Recent Residents Mentored: Roberto Gonzalez, Lianne Cavell

Samuel H. Sigal, MD

Assistant Professor of Medicine
Email: shs2015@med.cornell.edu
Tel: 212-746-4129

Research involves the study of cirrhosis and the complications of end-stage liver disease. Current projects include: (1) the role of bacterial overgrowth in hepatic encephalopathy; (2) relationship between depression and hepatic encephalopathy; (3) effect of ascites on

fatigue and sleep symptoms; (4) kidney function determined algorithm for albumin administration during spontaneous bacterial peritonitis. After identification of a topic, the resident would be responsible for all aspects of the study, including protocol development and IRB approval process.

Andrew H. Talal, MD

Associate Professor of Medicine

Email: aht2002@med.cornell.edu

Tel: 212-746-4495

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. on methadone maintenance) into treatment.

MSKCC GASTROENTEROLOGY AND NUTRITION SERVICE:

- **Arnold Markowitz, MD**

Email: markowia@mskcc.org

Tel: 212-639-2901

Hereditary colorectal cancer

- **Sidney Winawer, MD**

Email: winawers@mskcc.org

Tel: 212-639-7678

Association of adenomas and family history of colorectal cancer with Hyperplastic Polyposis; correlation of family history with screening colonoscopy outcomes; international survey of colorectal cancer screening, physician and public perceptions of risk and benefit, personal and systems barriers.

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

Email: ludwige@mskcc.org; kurtzr@mskcc.org

Tel: 212-639-2766, 212-639-7620

Family pancreatic cancer registry; hepatitis B reactivation prevention.

- **Christopher DiMaio, MD**

Email: dimaioc@mskcc.org

Tel: 212-639-2210

Role of endoscopic ultrasound (EUS) in management of gastrointestinal neoplasms, including development of new interventional applications.

GERIATRICS

Ronald D. Adelman, MD

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

Email: rdadelma@med.cornell.edu

Tel: 212-746-1729

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 a palliative care curriculum into medical residency programs; and (3) communication studies focused on communication at the end of life and communication between older patients and their health providers in outpatient medical encounters.

Emily S. Finkelstein, MD

Assistant Professor of Medicine

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Tel: 212-746-1845

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 Lachs, MD, MPH

Irene F. & I. Roy Psaty Distinguished Professor of Clinical Medicine

Co-Chief, Division of Geriatric Medicine

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Tel: 212-746-1677

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 a city wide elder abuse center. In addition, 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.

Maria Pavlou, MD

Assistant Professor of Medicine

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Tel: 212-746-1610

Research focuses on understanding the complex syndrome of self-neglect in older adults. The work involves exploring possible correlates of self-neglect (medical, functional, social and psychiatric) through at-home interviews of community-dwelling older self-neglectors referred by social service agencies.

Karl Pillemer, PhD

Hazel E. Reed Professor of Human Development, Cornell University; Professor of Gerontology in Medicine, Weill Cornell Medical College; Director of the Cornell Institute for Translational Research on Aging

Email: kap6@cornell.edu

Tel: 607-255-8086

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, and (3) methods of disseminating research-based information to professionals and the public.

Barrie Raik, MD

Associate Professor of Clinical Medicine

Email: bar2008@med.cornell.edu

Tel: 212-746-4888

Research focuses on the ethics of screening – when does the risk outweigh the benefit? Dr. Raik is also interested in the “hidden curriculum” in medical education (e.g. what are students learning by example from attendings and residents?).

Cary Reid, MD

Associate Professor of Medicine; Director, Office of Geriatric Research

Email: mcr2004@med.cornell.edu

Tel: 212-746-1378

My major areas of interest include pain and pain management in later life and geriatric substance abuse. 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. Current research projects in which residents might like to participate include studies to: (1) develop, test, and disseminate a combined cognitive-behavioral and exercise protocol for use by community-dwelling older adults with chronic back

pain; (2) develop and disseminate culturally appropriate self-management programs for pain in minority communities; (3) determine patient and physician attitudes and beliefs about the use of opioids as treatment for chronic non-cancer pain in older adults; (4) psychoactive medications with addiction potential in later life; (5) community-based participatory research as a tool for improving community health and addressing racial disparities in health, with a particular interest in its use as a tool to address established disparities in pain management as a function of race/ethnicity.

Eugenia L. Siegler, MD

Professor of Clinical Medicine

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Tel: 212-746-1772, 212-746-7000

Areas of research interest include: (1) 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; (2) examining medical records from 1800's to determine how the narrative of patient illness has changed with the introduction of new medical knowledge and physician responsibilities.

HEMATOLOGY-ONCOLOGY

Ghassan Abou-Alfa, MD

MSKCC, Gastrointestinal Oncology Service

Email: abou-alg@mskcc.org

Tel: 212-639-3112

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

Email: azzolic@mskcc.org

Tel: 212-639-2131

Clinical trials of new post-operative chemotherapies for patients with resected non-small cell lung cancer (adjuvant chemotherapy). Collaborate in these trials with basic scientists and pathologists to develop blood and tissue 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

Email: jbussel@med.cornell.edu

Tel: 212-746-3474

It would be my pleasure to participate. My interests are in clinical trials 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, and rituximab among other agents. The resident could either participate in an ongoing project or design a project, if possible.

Tessa Cigler, MD

Assistant Professor of Medicine

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Tel: 212-821-0736

I would be pleased to participate in mentoring residents in active clinical trials designed to evaluate promising new therapies for breast cancer. Collaborative research focuses primarily on the optimization of hormonal therapies for breast cancer treatment and prevention, attempts to elucidate side effects of hormonal therapies, novel ways to

sequence hormonal therapy, and evaluation of biomarkers of sensitivity to hormonal therapies.

Richard Furman, MD

Assistant Professor of Medicine

Email: 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 Gericitano, MD

MSKCC, Lymphoma Service

Email: gericitj@mskcc.org

Tel: 212-639-3748

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. Also work with pathology and other labs to pursue correlative aims, such as Tissue Microarray studies and retrospective analyses of data related to trials.

Katherine Hsu, MD, PhD

MSKCC, Adult Allogeneic BMT

Email: 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 Residents Mentored: Fabiana Ostronoff

Clifford Hudis, MD

MSKCC, Chief, Breast Cancer Medicine Service

Email: 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.

Joseph G. Jurcic, MD

MSKCC, Interim Chief, Leukemia Service

Email: jurcicj@mskcc.org

Tel: 212-639-2955

Research 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.

Heather Landau, MD

MSKCC, Hematology Service

Email: Landauh@mskcc.org

Tel: 212-639-8808

I would be very interested in mentoring residents. The focus of clinical research is on plasma cell disorders. Studies include: (1) the biology of extramedullary plasma cell disease; (2) adjuvant proteasome inhibition following radiation therapy for solitary bone plasmacytomas; (3) adjuvant therapy with bortezomib following high-dose and stem cell therapy for patients with amyloidosis; (4) clinical trials of novel agents in relapsed multiple myeloma and AL amyloidosis; (5) stem cell transplantation and adoptive immunotherapy in plasma cell disorders.

John Leonard, MD

Professor of Medicine; Chief, Lymphoma/Myeloma Program

Email: 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.

Ross Levine, MD

MSKCC, Leukemia Service

Email: leviner@mskcc.org**Tel:** 646-888-2767

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

Ari Melnick, MD

Associate Professor of Medicine

Email: 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 Residents Mentored: Francine Garret-Bakelman

Vincent A. Miller, MD

MSKCC, Thoracic Oncology Service

Email: millerv@mskcc.org**Tel:** 212-639-7243

There would be a number of opportunities with specific projects based on the individual's training and commitment. Our group was one of the first to show that activating mutations in EGFR are associated with regression of lung adenocarcinoma. We have a well organized syncytium of clinicians, pathologists, interventional radiologists, 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-Oncology
(With Dr. Scott Tagawa, see below.)

Email: dnanus@med.cornell.edu

Tel: 212-746-2920 or 212-746-3152

Drs. Nanus and Tagawa welcome house officers 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

Tel: 212-746-2119

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.

Stephen Nimer, MD

MSKCC, Chief, Hematology Service

Email: nimers@mskcc.org

Tel: 212-639-7871

Our laboratory has been studying the molecular basis of human acute leukemia, attempting to identify the transcriptional abnormalities that characterize this disease in order to develop new therapeutic approaches. Our clinical research efforts involve developing novel therapeutic approaches to the treatment of the myelodysplastic syndromes (MDS). A major focus is to better understand secondary MDS that arises following treatment for another malignancy.

Eileen M. O'Reilly, MD

MSKCC, GI Medical Oncology

Email: 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

Email: 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 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 Professor of Medicine

Email: 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

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.

Howard I. Scher, MD

MSKCC, Chief, Genitourinary Oncology Service

Email: 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: spriggds@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

Tel: 212-746-2920

Drs. Tagawa and Nanus welcome house officers 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.

Tiffany A. Traina, MD

MSKCC, Breast Cancer Medicine Service

Email: trainat@mskcc.org

Tel: 646-888-4558

I would be thrilled to mentor a resident interested in breast cancer related projects. Design and conduct clinical trials applying mathematical models to chemotherapy dosing schedules to optimize benefits and minimize risks of cytotoxic therapies. Special interest in development of novel therapies for patients with hormone refractory and HER2-negative breast cancers (“triple-negative breast cancers”). Also studies in the unique needs and issues associated with treatment of the older breast cancer patient (geriatric oncology).

James W. Young, MD

MSKCC, Chief (Interim) Adult BMT Service

Email: youngjw@mskcc.org

Tel: 646-888-2052

Area of investigation is 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 dendritic cells; (2) immunogenic properties of dendritic cells for tumors and opportunistic pathogens; and (3) the converse role of dendritic cells in tolerance rather than immunogenicity. We focus on projects that can be translated to clinical trials.

Recent Residents Mentored: Adam Boruchov (Cornell medicine resident 1997-2000; now on faculty at Univ. of CT in Hartford)

Andrew D. Zelenetz, MD, PhD

MSKCC, Chief, Lymphoma Service

Email: zeleneta@mskcc.org or 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 lymphoma; quantitative image analysis for measurement of prognostic biomarkers; role of diagnostic and functional imaging for prediction of outcome.

Recent Residents Mentored: Paul Basciano

MSKCC GASTROENTEROLOGY AND NUTRITION SERVICE:

See “Gastroenterology”

IMMUNOLOGY

Hsiou-Chi Liou, PhD

Associate Professor of Immunology in Medicine

Email: hcliou@med.cornell.edu

Tel: 212-746-4451

We will be interested in mentoring medical residents. Dr. Liou's research has been to investigate 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- κ B 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. Dr. Liou's team is currently developing inhibitors of oncogenic transcription factors with the goal to develop novel therapies for autoimmune diseases and cancer.

Kendall Smith, MD

Rochelle Belfer Professorship in Medicine; Chief, Division of Immunology

Email: 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

Daniel Fitzgerald, MD

Associate Professor of Medicine

Email: dwf2001@med.cornell.edu

Tel: 212-746-6320

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: Matt Simon, Sean Collins

Marshall J. Glesby, MD

Associate Professor of Medicine

Email: mag2005@med.cornell.edu

Tel: 212-746-7134

Major focus of my clinical research has been 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 epidemiological studies using data from the HIV clinic (the Center for Special Studies) and a multi-center cohort study of HIV-infected women. Also in HIV infected patients: case-control studies of diabetes, osteonecrosis, and hepatic steatosis; cross-sectional studies of homocysteine and oxidative stress; a clinical trial investigating the physiological effects of interventions for insulin resistance and visceral fat accumulation; a pilot study testing whether pre-treatment of insulin resistance can improve the response to standard treatment of HCV in HIV-infected patients.

Linnie M. Golightly, MD

Associate Professor of Clinical Medicine

Email: lgolight@med.cornell.edu

Tel: 212-746-1601

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 waterborne pathogens will be validated using samples obtained from the 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.

Roy M. (Trip) Gulick, MD

Professor of Medicine; Chief, Division of Infectious Diseases

Email: rgulick@med.cornell.edu

(Assistant: Veronica Bruno: veb2006@med.cornell.edu)

Tel: 212-746-4177

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

Tel: 212-746-6309

Working with our residents has been a gratifying experience. Research focus is on HIV and viral hepatitis coinfection liver disease primarily related to hepatitis B and C coinfection. Clinical research aims to understand risk factors for disease progression and strategies to optimize treatment outcomes in coinfecting patients.

Recent Residents Mentored: Frank Scott, Sameer Kadri

Kyu Y. Rhee, MD, PhD

Assistant Professor of Medicine

Email: kyr9001@med.cornell.edu

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

I am delighted to sponsor any housestaff with an interest in the molecular epidemiology and mechanisms of antibiotic resistance in clinical pathogens. We have recently focused on vancomycin resistance in *Staphylococcus aureus* and *Enterococcus faecium* but 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 housestaff with an interest in ID come by.

Recent Residents Mentored: Anna Kaltsas (currently ID fellow at AECOM)

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

MSKCC, Hospital Infection Control

Email: sepkowik@mskcc.org

Tel: 212-639-2441

The Infection Control Program at MSKCC invites residents interested in hospital epidemiology. Previous projects involving NYPH-Cornell residents have included

prevalence of HCV in Rogosin dialysis patients; risks for *Clostridium difficile* in MSKCC outpatients; seroconversion rates in health care workers vaccinated for varicella; control of influenza on a bone marrow transplant unit; and prevalence of markers for hepatitis B and C in Chinatown Health Clinic. Current NYPH-Cornell resident projects include clinical comparison of hypervirulent tcdc deletion *C. difficile* to standard *C. difficile* and CNS infection in cancer patients. Interested residents should contact Kent Septowitz.

Scott Weisenberg, MD

Instructor in Medicine

Email: scw9003@med.cornell.edu

Tel: 212-746-6320

I would be happy to work with residents on research projects, even outside my own research interests which include: (1) tracking the development and spread of antimicrobial resistance in gram-negative bacteria in various settings (hospital, community, global); (2) the clinical consequences of infections with multidrug-resistant gram-negative bacteria; (3) travel-associated illness. Other research opportunities are available for residents interested in performing observational studies to investigate other ID or internal medicine-related questions.

Timothy Wilkin, MD, MPH

Assistant Professor of Medicine

Email: 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.

Mary Vogler, MD

Assistant Professor of Medicine

Email: 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 I.D. Fellow at Weill Cornell), Sabena Ramsetty (currently I.D. Fellow at University of Virginia)

PULMONARY, CRITICAL CARE, AND SLEEP MEDICINE

Marcus Butler, MD

Instructor in Medicine and Genetic Medicine

Email: mab9177@nyp.org

Tel: 212-746-5020, **pager:** 10172

My research is in the area of genomics applied to personalized medicine. I have been working with Dr. Ronald Crystal to study associations of genotypes with phenotype traits including the biological phenotype of gene expression levels, as well as disease traits. Genome-wide microarray studies to look for genetic variants in healthy nonsmokers, healthy smokers, and smokers with lung disease.

Ronald Crystal, MD

Bruce Webster Professor of Internal Medicine

Chief, Division of Pulmonary and Critical Care Medicine

Email: rgcryst@med.cornell.edu

Tel: 646-962-4363

Our ongoing clinical studies focus on elucidating the genetic mechanisms responsible for the development and progression of asthma and other smoking-related lung diseases such as lung cancer and COPD.

Robert Kaner, MD

Associate Professor of Clinical Medicine

Email: rkaner@med.cornell.edu

Tel: 212-746-2250

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

Assistant Professor of Medicine

Email: ack2003@med.cornell.edu

Tel: 212-746-2250 or 212-746-9386 (direct line)

I would be happy to work with residents and mentor them in research projects. Major area of interest is in the field of Sleep Medicine with particular interest in 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

Tel: 646-962-5527

My interests center on gene expression profiling of the human lung in normal individuals and individuals with smoking-related disease.

Recent Residents Mentored: Rachel Knipe

RENAL/HYPERTENSION

Phyllis August, MD

Professor of Medicine

Email: 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

Stanton Griffis Distinguished Professor of Medicine

Chief, Division of Nephrology & Hypertension

Email: 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.

RHEUMATOLOGY

Doruk Erkan, MD

HSS, Rheumatology Clinical Research Center
Barbara Volcker Center for Women with Rheumatic Diseases
Email: erkand@hss.edu
Tel: 212-774-2291

My research area is antiphospholipid syndrome. Clinical trials for which Dr. Erkun has been principal investigator have included (1) cognitive dysfunction in aPL-negative systemic lupus erythematosus versus aPL-positive SLE; (2) effects of fluvastatin on proinflammatory and prothrombotic markers in antiphospholipid syndrome; (3) rituximab for the anticoagulation-resistant manifestations of antiphospholipid syndrome.

Theodore R. Fields, MD

HSS, Gosden Robinson Inflammatory Arthritis Center
Email: fieldst@hss.edu
Tel: 212-606-1286

Interest in early inflammatory arthritis. Database of the Gosden Robinson Early Arthritis Center (EAC): analysis of types of patients recruited to an urban EAC.

Lionel Ivashkiv, MD

HSS, Director of Basic Research; David H. Koch Chair in Arthritis and Tissue Degeneration
Email: IvashkivL@hss.edu
Tel: 212-606-1171

We have had very good experiences with NYPH residents and would like to participate. The laboratory is interested in the differentiation, function, and activation of cells of the myeloid lineage 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.

Michael Lockshin, MD

HSS, Director, Barbara Volcker Center for Women with Rheumatic Diseases
(See Doruk Erkan above)
Email: mdl2003@med.cornell.edu
Tel: 212-606-1461

Lisa A. Mandl, MD, MPH

HSS, Rheumatology Clinical Research Center

Email: MandlL@hss.edu

Tel: 212-774-2555

I would be happy to discuss potential research projects with Cornell Residents. I am a rheumatologist/epidemiologist with a focus on osteoarthritis, inflammatory arthritis, and total joint replacement. Clinical trials include clinical and economic outcomes in these areas.

Jane E. Salmon, MD

HSS, May Kirkland Center for Lupus Research

Email: jes2002@med.cornell.edu

Tel: 212-606-1671

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 in antiphospholipid antibody-induced pregnancy loss and thrombosis; (2) accelerated cardiovascular disease in SLE and rheumatoid arthritis (prevalence and responsible mechanisms); and (3) the role of receptors for immunoglobulin G in autoimmune disease.

Sergio Schwartzman, MD

HSS, Rheumatology

Email: 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.

OTHER AREAS OF RESEARCH

Carla Boutin-Foster, MD

Associate Professor of Medicine and Public Health

Email: cboutin@med.cornell.edu

Tel: 212-746-1330

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.

Recent Residents Mentored: Karin-Elizabeth Michelle Ouchida (2005), Mitch Grotz-Rhone (2005)

Lawrence P. Casalino, MD, PhD

Chief, Division of Outcomes and Effectiveness Research, Dept. of Public Health

Email: 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 health care 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.

Mary Charlson, MD

William T. Foley Distinguished Professor of Medicine

Chief, Division of General Internal Medicine

Email: mecharl@med.cornell.edu

Tel: 212-746-1607

Dr. Charlson is 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. She is also conducting clinical trials to help motivate patients with cardiovascular disease to make healthy lifestyle behavioral changes.

Curtis L. Cole, MD

Associate Professor of Clinical Medicine; Chief Medical Information Officer

Email: ccole@med.cornell.edu

Tel: 212-746-0471

While not strictly “clinical research”, I would be happy to mentor a resident in Medical Informatics, Topics of specific interest are Electronic Medical records, Terminology and Terminology Servers, Clinical Research Management Systems, Data Warehousing, Decision Support, Quality and Safety Reporting, Patient Portals. I would also suggest potential collaborative projects with other faculty. I can assist residents trying to access data for projects.

Gary Deng, MD, PhD

MSKCC, Integrative Medicine Service

Email: 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.

James Hollenberg, MD

Associate Professor of Medicine

Email: alh2006@med.cornell.edu

Tel: 212- 746-1607

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.

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

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 Residents Mentored: Kanaka Shetty, Sonja Olson

Lisa M. Kern, MD, MPH

Assistant Professor of Public Health and Medicine

Email: lmk2003@med.cornell.edu

Tel: 646-962-8066

We have successfully mentored residents in the past, and would be happy to do so again. Working with Dr. Rainu Kaushal, 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 Residents Mentored: Daniel Goldin, Abby Spencer, Amanda Carmel

Steven Lipkin, MD

Associate Professor of Medicine (Gastroenterology)

Email: stl2012@med.cornell.edu

Tel: 212-879-9371

Research interests are in the area of cancer genetics, with a particular emphasis on gastrointestinal cancers. Current projects include: improving early detection of colorectal cancer in Hereditary Non-Polyposis Colon Cancer (HNPCC) families carrying missense variants, and minimizing toxicity of chemotherapy for stage II colon cancer patients. (Dr. Lipkin was recruited to Weill Cornell from the University of California in February, 2009.)

Alvin I. Mushlin, MD, ScM

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

Email: aim2001@med.cornell.edu

Tel: 649-962-8009

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
Tel: 646-888-4050

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

Contact: Thomas Kirchhoff, PhD, Laboratory Director, Clinical Cancer Genetics Research Laboratory, MSKCC

Janey Peterson, RN, EdD, MS

Assistant Professor of Clinical Epidemiology
Email: jcpeters@med.cornell.edu
Tel: 212- 746-1607

As a clinical epidemiologist, Dr. Peterson develops behavioral interventions focused on lifestyle changes in patients with chronic illness, as well as improving outcomes in patients with chronic cardiopulmonary disease. She has expertise in the use of both quantitative and qualitative methodology.

Henry G. Wei, MD

Clinical Instructor in Medicine
Email: hgw2001@med.cornell.edu
Tel: 212-845-9838 or 212-849-0125

I'd be overjoyed if any residents or students wanted to either conduct a novel research project or assist with an existing one. My research focuses on medical informatics, computerized clinical decision support and alerting, and adoption of evidence-based medicine. My team develops clinical alert algorithms and predictive models for a decision support engine running on a continuously updated database of 20 million U.S. patients. We develop algorithms for physician performance measurement in conjunction with the National Quality Foundation (NQF). The team also works on health information exchange (HIE) projects with regional health information exchange organizations (RHIOs). Most recently, our research has looked at clinical alert validity and outcomes; as well as the health economics of clinical alerting and value-based formulary design.

INDEX

TOPICS:

The following is an alphabetical index of specific research areas which are areas of study by the faculty members listed above. A faculty member may be listed 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	Rhee (ID) Weisenberg (ID)
Antiphospholipid syndrome	Erkan (Rheum, HSS) Lockshin (Rheum, HSS) Salmon (Rheum, HSS)
Antiviral therapy	Jacobson (GI)
ARDS	Kaner (Pulm)
Arrhythmias	Basson (Card) Lerman (Card) Stein (Card)
Arthritis, colitis associated	Schwartzman (Rheum, HSS)
Arthritis, inflammatory	Fields (Rheum) Mandl (Rheum) Schwartzman (Rheum, HSS)
Arthritis, reactive	Schwartzman (Rheum, HSS)
Artificial intelligence	Hollenberg (Gen Med)
Ascites	Sigal (GI)
Asthma	Crystal (Pulm)
Autoimmune disease	Erkan (Rheum, HSS) Ivashkiv (Rheum, HSS) Liou (Immun) Salmon (Rheum, HSS) Schwartzman (Rheum, HSS)
Bacterial flora, gut mucosa	Scherl (GI)
Barrett’s esophagus	Schnoll-Sussman (GI)

Behavioral interventions	Peterson (Gen Med)
Biomarkers	Bosworth (GI) Cigler (H-O)
Bioterror agents	Golightly (ID)
Bisphosphonates	Farooki (Endo, MSKCC)
Bladder cancer	Nanus (H-O) Tagawa (H-O)
Bone marrow failure	Roboz (H-O)
Bone marrow transplantation	Hsu (H-O, MSKCC) Landau (H-O, MSKCC) Young (H-O, MSKCC)
Breast cancer	Cigler (H-O) Hudis (H-O, MSKCC) Traina (H-O, MSKCC)
CA125	Spriggs (H-O, MSKCC)
Cancer genetics	Dannenber (GI) Lipkin (GI) MSKCC Gastroenterology and Nutrition Service (GI) Offit (MSKCC)
Cancer vaccines	Palomba (H-O, MSKCC)
Cardiac electrophysiology	Stein (Card)
Cardiac imaging	Weinsaft (Card)
Cardiac pacing	Stein (Card)
Cardiac toxicity	Schaffer (Card, MSKCC)
Cardiomyopathy	Basson (Card)
Cardiology, noninvasive	Okin (Card) Schaffer (Card, MSKCC) Weinsaft (Card)
Cardiovascular disease	Salmon (Rheum, HSS)
Cellular therapy	Suthanthiran (Renal)
Chemokines	Talal (GI) Scherl (GI)
Chemoprevention	Schnoll-Sussman (GI)
Chemotherapy, toxicity	Schaffer (Card, MSKCC)
Chronic lymphocytic leukemia	Furman (H-O) Liou (Immun) Palomba (H-O, MSKCC)
Cirrhosis	Jacobson (GI) Sigal (GI)
<i>Clostridium difficile</i>	Sepkowitz (ID, MSKCC)
Colorectal cancer	Dannenber (GI) MSKCC Gastroenterology and Nutrition Service (GI) Schnoll-Sussmn (GI)
Community-based research	Boutin-Foster (Gen.Med.)

	Pillemer (Geri)
	Reid (Geri)
Complement	Salmon (Rheum, HSS)
Complementary/alternative med.	Charlson (Gen Med)
	Deng (Gen Med, MSKCC)
Congenital heart disease	Basson (Card)
COPD	Crystal (Pulm)
	Kaner (Pulm)
Coronary artery disease	Feldman (Card)
	Moussa (Card)
	Schaffer (Card, MSKCC)
Cost effectiveness	Mushlin (PH)
Crohn's disease	Scherl (GI)
Cyclic AMP	Lerman (Card)
Decision analysis	Hollenberg (Gen Med)
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	Stein (Card)
Emergency medicine	Lachs (Geri)
End of life	Adelman (Geri)
Epidemiology	Charlson (Gen Med)
	Mandl (Rheum)
	Peterson (Gen Med)
Epidemiology, hospital	Kamboj (ID, MSKCC)
	Sepkowitz (ID, MSKCC)
Epidemiology, molecular	Rhee (ID)
Epigenomics	Melnick (H-O)
Ethics	Raik (Geri)
Food, waterborne pathogen	Golightly (ID)
G proteins	Lerman (Card)
Gastrointestinal malignancies	Abou-Alfa (H-O, MSKCC)
Gene expression	Butler (Pulm)
	Crystal (Pulm)
	Offit (MSKCC)
	Tilley (Pulm)
Genitourinary cancer	Nanus (H-O)

Geriatric oncology	Tagawa (H-O) Ritchie (H-O) Traina (H-O, MSKCC)
Geriatric pharmacology	Reidenberg (Pharm)
Global Health	Fitzgerald (ID) Reidenberg (Pharm)
Gram-negative infection	Weisenberg (ID)
Gynecologic cancers	Spriggs (H-O, MSKCC)
Haiti	Fitzgerald (ID)
Health disparities	Boutin-Foster (Gen.Med.) Reid (Geri)
Health policy	Finkelstein (Geri) Siegler (Geri)
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Hematopoiesis	Young (H-O, MSKCC)
HIV/AIDS	Fitzgerald (ID) Glesby (ID) Gulick (ID) Kaner (Pulm) Marks (ID) Vogler (ID) Wilkin (ID)
Hepatic steatosis	Glesby (ID)
Hepatic transplantation	Sigal (GI)
Hepatitis	Glesby (ID) Marks (ID) Jacobson (GI) Sepkowitz (ID, MSKCC) Talal (GI)
Hepatobiliary cancer	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) Salmon (Rheum, HSS)

Immunotherapy	Young (H-O, MSKCC) Jurcic (H-O, MSKCC) Ryder (Endo, MSKCC)
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Inflammation	Dannenberg (GI) Ivashkiv (Rheum, HSS) Liou (Immun)
Influenza	Smith (Immun)
Information technology	Casalino (PH) Cole (Gen.Med.) Hollenberg (Gen Med) Kaushal (Gen Med) Kern (Gen Med) Siegler (Geri)
Insulin resistance	Glesby (ID)
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) Levine (H-O, MSKCC)
Joint replacement	Mandl (Rheum)
Leukemia	Hsu (H-O, MSKCC) Jurcic (H-O, MSKCC) Melnick (H-O) Nimer (H-O, MSKCC) Roboz (H-O)
Liver transplantation	Sigal (GI)
Lung cancer	Azzoli (H-O, MSKCC) Miller (H-O, MSKCC)
Lung disease	Butler (Pulm)
Lymphoma	Gerecitano (H-O, MSKCC) Leonard (H-O) Liou (Immun) Melnick (H-O) Palomba (H-O, MSKCC) Zelenetz (H-O, MSKCC)
Medical education	Raik (Geri)
Medical informatics	Cole (Gen. Med.) Wei (Gen. Med.)
Metabolomics	Dannenberg (GI)

Microbiology	Bosworth (GI)
Molecular epidemiology	Rhee (ID)
Multiple myeloma	Landau (H-O, MSKCC) Liou (Immun) Niesvizky (H-O)
Myelodysplastic syndromes	Nimer (H-O, MSKCC)
Myeloproliferative disorders	Levine (H-O, MSKCC) Roboz (H-O)
Natural killer (NK) cells	Hsu (H-O, MSKCC)
Noninvasive cardiology	Okin (Card) Weinsaft (Card)
Nutrigenomics	Dannenberg (GI)
Oncogenes	Liou (Immun) Melnick (H-O)
Osteoarthritis	Mandl (Rheum)
Osteonecrosis	Farooki (Endo, MSKCC)
Outcomes	Casalino (PH) Charlson (Gen Med) Kaushal (Gen Med) Kern (Gen Med) Mandl (Rheum) Mushlin (PH)
Ovarian cancer	Spriggs (H-O, MSKCC)
Palliative care	Adelman (Geri)
Pancreatic cancer	Abou-Alfa (H-O, MSKCC) MSKCC Gastroenterology and Nutrition Service (GI) O'Reilly (H-O, MSKCC) Schnoll-Sussman (GI)
Pancreatic cyst	Schnoll-Sussman (GI)
Pacing	Stein (Card)
Pain	Reid (Geri)
Pericardial disease	Schaffer (Card, MSKCC)
Peripheral vascular disease	Moussa (Card)
Peritonitis, spontaneous bacterial	Sigal (GI)
Pharmacogenomics	Reidenberg (Pharm)
Pharmacology, clinical	Reidenberg (Pharm)
PI3K/AKT signaling	Scher (H-O, MSKCC)
Plasmacytoma	Landau (H-O, MSKCC)
Platelets	Bussel (H-O) Feldman (Card) Kizer (Card) Krieger (Pulm)
Policy, health care	Casalino (PH) Kaushal (Gen Med)

	Kern (Gen Med)
	Reidenberg (Pharm)
Preeclampsia	August (Renal)
Pregnancy loss	Salmon (Rheum, HSS)
Prevention	Schnoll-Sussman (GI)
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)
Pulmonary fibrosis	Kaner (Pulm)
Quality of care	Casalino (PH)
	Cole (Gen.Med.)
	Kaushal (Gen Med)
	Kern (Gen Med)
	Mushlin (PH)
Racial disparities	Boutin-Foster (Gen.Med.)
	Reid (Geri)
Renal cell cancer	Nanus (H-O)
	Tagawa (H-O)
Renal failure	August (Renal)
	Suthanthiran (Renal)
Renal transplantation	Gambarin-Gelwan (GI)
	Suthanthiran (Renal)
Rheumatoid arthritis	Salmon (Rheum, HSS)
	Schwartzman (Rheum, HSS)
Self-neglect	Pavlou (Geri)
Sepsis	Kaner (Pulm)
Sex hormones	Imperato-McGinley (Endo)
	Zhu (Endo)
Sleep apnea	Krieger (Pulm)
Sleep disorders	Krieger (Pulm)
Stem cells	Basson (Card)
Smoking	Butler (Pulm)
	Crystal (Pulm)
	Tilley (Pulm)
Spondyloarthropathies	Schwartzman (Rheum, HSS)
Substance abuse	Reid (Geri)
Sudden cardiac death	Stein (Card)
Systemic lupus erythematosus	Erkan (Rheum)
	Ivashkiv (Rheum, HSS)

	Lockshin (Rheum, HSS)
	Salmon (Rheum, HSS)
T cells	Ryder (Endo, MSKCC)
	Smith (Immun)
	Suthanthiran (Renal)
Tanzania	Fitzgerald (ID)
Thrombosis	Erkan (Rheum)
	Kizer (Card)
	Lockshin (Rheum, HSS)
Thyroid cancer	Ryder (Endo, MSKCC)
Transplant rejection	Suthanthiran (Renal)
	Liou (Immun)
Transplant tolerance	Suthanthiran (Renal)
	Young (H-O, MSKCC)
Travel-associated illness	Weisenberg (ID)
Tuberculosis	Fitzgerald (ID)
	Rhee (ID)
Vaccines	Sepkowitz (ID, MSKCC)
	Smith (Immun)
Vaccines, cancer	Palomba (H-O, MSKCC)
Vascular disorders	Basson (Card)
Ventricular tachycardia	Lerman (Card)
Vitamin D	Farooki (Endo, MSKCC)

DISCIPLINES

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) Feldman (Card) Imperato-McGinley (Endo) Kizer (Card) Lerman (Card) Moussa (Card) Okin (Card) Salmon (Rheum, HSS) Schaffer (Card, MSKCC) Stein (Card) Weinsaft (Card) Zhu (Endo)
Clinical Pharmacology (Pharm)	Reidenberg (Pharm)
Endocrinology (Endo)	Brillon (Endo) Farooki (Endo, MSKCC) Imperato-McGinley (Endo) Kizer (Card) Ryder (Endo, MSKCC) Zhu (Endo)
Gastroenterology/Liver (GI)	Bosworth (GI) Dannenberg (GI) Gambarin-Gelwan (GI) Jacobson (GI) Lipkin (GI) MSKCC Gastroenterology and Nutrition Service (GI) O'Reilly (H-O, MSKCC) Scherl (GI) Schnoll-Sussman (GI) Sigal (GI) Talal (GI)
General Medicine (Gen.Med.)	Boutin-Foster (Gen.Med.) Charlson (Gen Med) Cole (Gen.Med.) Deng (Gen Med, MSKCC) Hollenberg (Gen Med) Kaushal (Gen Med) Kern (Gen Med) Peterson (Gen Med)

Genetics (Gen)	Basson (Card)
	Butler (Pulm)
	Crystal (Pulm)
Geriatrics (Geri)	Lipkin (GI)
	Offit (MSKCC)
	Adelman (Geri)
	Finkelstein (Geri)
	Lachs (Geri)
	Pavlou (Geri)
	Pillemer (Geri)
	Raik (Geri)
	Reid (Geri)
	Reidenberg (Pharm)
	Ritchie (H-O)
	Siegler (Geri)
	Traina (H-O, MSKCC)
Hematology-Oncology (H-O)	Abou-Alfa (H-O, MSKCC)
	Azzoli (H-O, MSKCC)
	Bussel (H-O)
	Cigler (H-O)
	Dannenberg (GI)
	Farooki (Endo, MSKCC)
	Furman (H-O)
	Gerecitano (H-O, MSKCC)
	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)
	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)	Ivashkiv (Rheum, HSS)
	Liou (Immun)
	Salmon (Rheum, HSS)
	Smith (Immun)
	Young (H-O, MSKCC)
Infectious Diseases (ID)	Fitzgerald (ID)
	Glesby (ID)
	Golightly (ID)
	Gulick (ID)
	Jacobson (GI)
	Kamboj (ID, MSKCC)
	Marks (ID)
	Rhee (ID)
	Scherl (GI)
	Sepkowitz (ID, MSKCC)
	Smith (Immun)
	Vogler (ID)
	Weisenberg (ID)
Public Health (PH)	Wilkin (ID)
	Casalino (PH)
	Kaushal (Gen Med)
	Kern (Gen Med)
	Mushlin (PH)
Pulmonary (Pulm)	Azzoli (H-O, MSKCC)
	Butler (Pulm)
	Crystal (Pulm)
	Kaner (Pulm)
	Krieger (Pulm)
	Miller (H-O, MSKCC)
	Tilley (Pulm)
Renal/Hypertension (Renal)	August (Renal)
	Gambarin-Gelwan (GI)
	Suthanthiran (Renal)
Rheumatology (Rheum)	Erkan (Rheum, HSS)
	Fields (Rheum, HSS)
	Ivashkiv (Rheum, HSS)
	Lockshin (Rheum, HSS)
	Mandl (Rheum, HSS)

Sleep Medicine (Pulm)

Salmon (Rheum, HSS)
Schwartzman (Rheum, HSS)
Krieger (Pulm)

RESIDENT CONTACTS

The following is an alphabetical list of current or former Residents in the Department of Medicine who have been mentored and have worked with some of the faculty members listed above. They can be contacted for further insights. These residents are also listed individually under the faculty mentor's research description.

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