DIRECTORY OF FACULTY RESEARCH INTERESTS

RESEARCH OPPORTUNITIES FOR RESIDENTS

JULY 2013

DEPARTMENT OF MEDICINE

NewYork-Presbyterian Hospital
Weill Cornell Medical College

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.

To visit the education section of the Department of Medicine website:
www.cornellmedicine.com/education

To go directly to the Research Opportunities page, visit:
http://www.cornellmedicine.com/education/research_overview/research_for_residents.html

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CARDIOLOGY

Jim Cheung, MD, FACC
Assistant Professor of Medicine
Director, Clinical Cardiac Electrophysiology Training Program
Cardiac Electrophysiology Laboratory
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My 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 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 in a funded, prospective study called ECGOPT.
Recent residents mentored: Frank Lin, Joe Marmora

David J. Christini, PhD
Professor of Medicine
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Tel: (212) 746-6280

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.christinilab.org

Dmitriy N. Feldman, MD
Assistant Professor of Medicine; Director, Endovascular Services
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As an interventional cardiologist and endovascular specialist, my research interest is focused on percutaneous coronary and endovascular interventions outcomes, 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 platelet function testing; and evaluating novel endovascular technologies (eg. renal denervation for resistant hypertension).
Recent Residents or Fellows Mentored: Subhi AlAref, Jonathan Gordin, Lindsay Lief, Konstantinos Charitakis, David Yang (fellow), Luke Kim, Rajesh Swaminathan (fellow), Scott Midwall (fellow), Ali Haider (fellow)

Bruce B. Lerman, MD
Professor of Medicine; Chief, Greenberg Division of Cardiology
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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.

Fay Y. Lin, MD, MSc
Assistant Professor of Medicine
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Tel: (212) 746-4655

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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Tel: (212) 746-2655

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. Other areas of interest include imaging of structural abnormalities in patients with ventricular tachycardia and long-term follow-up of patients who have an implantable rhythm device.
Recent Residents Mentored: James Horowitz, Alex Mauskop, Ashwani Sastry, Amiran Baduashvili, Louis Waldman

Peter M. Okin, MD
Professor of Medicine
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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), Joseph Krepp

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
Email: schaffew@mskcc.org
Tel: (212) 639-3735

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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Tel: (212) 746-2437

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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Tel: (646) 962-5010

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
Email: mecharl@med.cornell.edu
Tel: (646) 962-5020

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
Email: jph2002@med.cornell.edu
Tel: (646) 962-5030

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, EdD, MS, RN
Assistant Professor of Clinical Epidemiology
Email: jcpeters@med.cornell.edu
Tel: (646) 962-5000

As a behavioral scientist and clinical epidemiologist, my research focuses on lifestyle change in older adults with multiple chronic diseases. I am also interested in the study of financial elder abuse. I have expertise in the use of quantitative, qualitative, and mixed methods research.
Recent Residents or Fellows Mentored: Edwidge Thomas (fellow); Muhammad Waseem (fellow)

Erica Phillips-Caesar, MD, MS
Assistant Professor of Medicine
Director, Research Program, Primary Care Track, Internal Medicine Residency Program
Email: erp2001@med.cornell.edu
Tel: (646) 962-5013

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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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 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
Professor of Clinical Medicine
Email: djbrillo@med.cornell.edu
Tel: (212) 746-6290

I am engaged in clinical trials evaluating the complications of both type 1 and type 2 diabetes mellitus and welcome hearing from residents or fellows.

Azeez Farooki, MD, FACE
MSKCC, Endocrinology Service
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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, bone metastases from thyroid cancer, and the relationship between vitamin D and cancer.
Recent Residents 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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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.

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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Tel: (212) 746-5077

At the Jill Roberts Center for Inflammatory Bowel Disease (IBD), 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 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 or Fellows Mentored: Nikhil Kumta, Tara Lautenslager, Mamta Mehta, Yasmin Metz, Alyssa Parian, Farid Razavi, Geethan Sivanthan, Subha Sundararajan, Scott Kramer, Kunal Karia

Carl V. Crawford, MD
Assistant Professor of Medicine
Email: cvc9002@med.cornell.edu
Tel: (646) 962-4000

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 or 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
Email: ajdannen@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 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
Email: ydj2001@med.cornell.edu, yjong@rockefeller.edu
Tel: (212) 327-7085

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.

Vinita Jacob, MD
Assistant Professor of Medicine
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At the Jill Roberts Center for Inflammatory Bowel Disease (IBD) we work closely with residents and fellows. Given the impact of IBD on young female patients in their peak reproductive years, the Jill Roberts IBD Center emphasizes the goal of maintaining these particular patients in remission by conducting multiple interviews to ascertain their status of fertility and safety to the fetus with regards to medication use, especially immunosuppressive therapy. Currently, we are enrolled in the largest prospective study to date, analyzing pregnancy outcomes in women with IBD exposed to biologic and immunomodulator therapy.
Recent Residents and Fellows Mentored: Melissa Rosen

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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Tel: (212) 774-7160

My research focuses on understanding genetic variants that cause increased risk of cancer and IBD, and on using a new mouse model of colon cancer that metastasizes to liver that we recently developed to identify anti-metastasis drugs.
Recent Residents or Fellows Mentored: Vesta Salehi

Ellen J. Scherl, MD
Director, Jill Roberts Center for Inflammatory Bowel Disease
Associate Professor of Medicine
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The Roberts IBD Center is involved with more than 25 national and international multicenter trials and investigator-initiated trials focusing on both ulcerative colitis and Crohn's disease. We welcome collaboration with residents. Investigator-initiated trials include collaborations with researchers at Weill Cornell Medical Center (investigating mechanisms of inflammation), Cornell University (identifying the role of the gut microbiome), and with WCMC/NYPH researchers (investigating the immunogenetics and immunobiology of IBD). The Roberts IBD Center is investigating the role of genetics and GI

inflammation, the role of bacteria in gut inflammation, and a groundbreaking concept (e.g., an inflamed intestine may recruit stem cells to build new blood vessels that promote continued inflammation).
Recent Residents Mentored: Mamta Mehta, Yasmin Metz, Alyssa Parian, Subha Sundararajan, Raja Taunk, Himanshu Verma, Melissa Rosen

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

MSKCC GASTROENTEROLOGY AND NUTRITION SERVICE

Maya Gambarin-Gelwan, MD
Associate Professor of Clinical Medicine
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Tel: (212)639-7336

I study the prevalence of de novo non-alcoholic fatty liver disease in bone marrow transplant survivors, its risk factors and impact on survival. Specifically, I am investigating whether patients with pre-existing non-alcoholic fatty liver disease have higher liver-related complications of bone marrow transplantation. Future studies address anti-viral therapy for chronic hepatitis C in patients with hepatocellular carcinoma who underwent curative resection.
Recent Residents or Fellows Mentored: Monica Saumoy, Arun Jesudian, Eugene Licht, Delia Calo, Geethan Sivananthan, Subha Sundararajan, Stephanie Tang, Amy Tyberg

Emmy Ludwig, MD/Robert Kurtz, MD
Email: ludwige@mskcc.org; kurtzr@mskcc.org
Tel: (212) 639-2766, (212) 639-7620

Family Pancreatic Tumor Registry: This is an ongoing project to identify pancreatic cancer risk and cancer precursor lesions in individuals with multiple first degree relatives affected by pancreatic cancer. ; hepatitis B reactivation prevention in individuals who are receiving immunosuppressive treatment.

Sidney J. Winawer, MD
Paul Sherlock Chair in Medicine, MSKCC
Professor of Medicine, WCMC
Email: winawers@mskcc.org
Tel: (212) 639-7678

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.

GERIATRIC AND PALLIATIVE MEDICINE

Ronald D. Adelman, MD

Emilie Roy Corey Professor in Geriatrics and Gerontology; 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 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
Email: emf9009@med.cornell.edu
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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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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 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
Email: kap6@cornell.edu
Tel: (607) 255-8086

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
Email: bar2008@med.cornell.edu
Tel: (212) 746-4888

My area of interest is how technology can assist aging adults to remain functional and as independent as possible using telecommunication and mobile monitoring devices. I am currently studying interactive workshops in chronic disease self-management over the internet with a homebound population.

M. Cary Reid, Jr., MD, PhD
Associate Professor of Medicine
Director, Office of Geriatric Research
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Tel: (212) 746-1378

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. Opportunities include: understanding the role of mobile health technologies in the management of pain; translating evidence-based pain programs for use in non-clinical settings; addressing barriers to the use of opioid medications as a treatment for chronic non-cancer pain in older adults; 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 include: evaluating and improving the quality of electronic documentation; assessment of functional outcomes and quality of life after TAVR placement (with Ryan Kaple of cardiology).
Recent Residents Mentored: Brian Eiss, Mallory Otto

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.

Paul Basciano, MD
Nan and Stephen Swid Research Scholar in Medicine
Assistant Professor of Medicine
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Tel: (212) 746-0580

I would be pleased to mentor residents. My research bridges clinical and basic research in benign and malignant hematology. I study a hematopoietic-specific tubulin isotype, known as Hβ-1, which is integral for normal hematopoiesis as well as platelet structure and function. There are currently two main focuses. The first is studying the function of a truncated isoform in stem cell biology. This work is done in collaboration with Drs. Evi Giannakakou, Monica Guzman, and Todd Evans. The second project focuses on single nucleotide polymorphisms (SNPs) in Hβ-1 tubulin as they relate to platelet biology. The SNP has been associated with more severe thrombocytopenia in congenital and acquired platelet disorders; we are currently investigating the mechanistic basis for these findings. This work is done in collaboration with Drs. Evi Giannakakou and Jim Bussel.

Himisha Beltran, MD
Assistant Professor of Medicine
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Tel: (646) 962-2072

My clinical and translational research focus involves prostate cancer genomics, biomarker development, and identification and validation of novel drug targets. I am particularly interested in using molecularly based signatures to develop personalized treatment strategies for men with advanced prostate cancer. I am also involved in clinical trials designed to evaluate promising new therapies for patients with genitourinary malignancies (prostate, bladder, kidney, testicular cancers).

Richard D. Carvajal, MD
MSKCC, Division of Medical Oncology
Email: carvagar@mskcc.org
Tel: (646) 888-4161

I am pleased to mentor residents. My research is on new drug development with a focus on uncommon molecular and clinical subsets of melanoma, such as KIT mutant melanoma and uveal melanoma.

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.
Recent Residents or Fellows Mentored: Paul Basciano

Tessa Cigler, MD
Assistant Professor of Medicine
Email: 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
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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
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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
Tel: 212-639-3748

My main research focus is the clinical development of novel, non-immunologically based treatments in lymphoma. 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, e.g., tissue microarray studies and

retrospective analyses of data related to trials. I am a member of the Developmental Therapeutics Clinic, serving as principle investigator on Phase 1 clinical trials for patients with lymphoma and solid tumors.

Paraskevi (Evi) Giannakakou, PhD
Associate Professor of Pharmacology in Medicine
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Our laboratory studies the microtubule cytoskeleton of cells and the anti-tumor drugs that target microtubules. Research is focused on developing an understanding of the molecular mechanism(s) of action of these drugs and of resistance to them, and the little-understood functional consequences of drug-induced microtubule disruption and cell death. We also study the molecular basis of drug resistance to microtubule-targeting drugs and the role of the cytoskeleton in regulation of protein translation. We use 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 or Fellows Mentored: Paul Basciano

Monica L. Guzman, PhD
Assistant Professor of Pharmacology in Medicine
Email: 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
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
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*. We welcome trainees who want to learn cancer genetics and get experience working with zebrafish as a model organism.

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 MSKCC, WCMC, and through the US Cooperative Group systems, 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. Recent efforts have focused on obesity, inflammation, and cancer, the role of the androgen receptor in breast cancer, the role of heat shock protein 90 inhibition as treatment, the development of newer cytotoxics based on kinetic models of cancer growth and response to treatment, and the role of novel targeted agents based on the emerging molecular biology of breast cancer. We would be delighted to hear from interested residents.
Recent Residents Mentored: (From WCMC) Kathleen Mahoney
Recent Fellows Mentored: (From MSKCC) Partrick Morris, Ayca Gucalp, Adi Diab, Komal Jhaveri, Devika Gajria, Farrah Datko, Neil Iyengar, Aki Morkawa

Katharine Hsu, MD, PhD
Associate Professor
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. Research focuses on the basic biology of the NK cell, identifying 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

Heather Landau, MD
MSKCC, Adult Bone Marrow Transplant Service
Email: 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 and light chain amyloidosis. Ongoing clinical trials focus on innovative autologous, allogeneic transplant and post-transplant strategies; 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.
Recent Residents and Fellows Mentored: Kevin Wood

Jeffrey Laurence, MD
Professor of Medicine
Email: 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 or Fellows Mentored: John Chapin

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

Alexander M. Lesokhin, MD

Assistant Member
Lymphoma Service and Immunotherapeutics Core
MSKCC, Department of Medicine
Email: lesokhia@mskcc.org
Tel: (212) 639-3069

I would be delighted to work with a medical resident. My work is focused on developing novel immunotherapeutic approaches for plasma cell diseases and other hematologic malignancies. I attend in the immunotherapy phase I clinic and on the myeloma service. These clinical activities are closely aligned with my laboratory research, which has several areas of focus: 1) studies in the basic biology of immune suppressive myeloid cells (MDSC), 2) evaluating MDSC as a biomarker of resistance to immune-modulatory antibody therapy, and 3) evaluating the distribution and impact of immunomodulatory cell surface receptors on clinical outcome in myeloma.

Ross Levine, MD

MSKCC, Leukemia Service
Email: 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
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
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
Member; Attending Physician
MSKCC, Thoracic Oncology Service
Email: 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
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

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
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
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
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
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 hear from 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
Tel: (212) 746-2932

My research is focused on clinical and translational development of novel therapeutics targeting tumor microenvironment and angiogenesis in lymphoproliferative diseases. 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. I am 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
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.

Gary K. Schwartz, MD
Professor of Medicine
Chief, Melanoma and Sarcoma Oncology Service
Director, Laboratory of New Drug Development in Sarcomas and Orphan Cancers
Email: schwartg@mskcc.org
Tel: (646) 888-4165

Studies in the Dr. Gary Schwartz laboratory are aimed at understanding the mechanisms underlying (i) cell cycle and (ii) cell death, in order to improve the effectiveness of currently available treatments. Once therapeutic targets are identified, we then begin the process of drug targeting with testing both *in vitro* and *in vivo* novel, small molecules that inhibit these critical pathways. For the agents showing the most promise, we will then translate these laboratory observations into clinical trials. The clinical trials are designed to determine the safety of new drug combinations; to examine pharmacokinetic interactions between drugs, to examine tumor tissue for target validation; and to obtain preliminary data on activity for eventual Phase I and II clinical trials in soft tissue sarcomas and uveal melanoma.

Manish A. Shah, MD
Associate Professor of Medicine
Director, Gastrointestinal Oncology Program
Email: mas9313@med.cornell.edu
Tel: (646) 962-2547

We have a broad research focus in clinical and translational investigations in malignancies of the gastrointestinal tract. Specifically, we are interested in improving our understanding of gastric cancer subtypes and their sensitivity to therapy, both cytotoxic and targeted therapies. A laboratory research program investigates cytotoxicity and down-stream targets of several gastric cancer cell lines, as well as in a clinical/translational program in collaboration with pathology. We are also interested in improving the understanding of carcinogenesis associated with chronic inflammation and infection, using gastric cancer and *H. pylori* infection as a model, and expanding to Hepatocellular cancer and colon cancer; and in improving the selection of patients for treatment with antiangiogenic therapies. We have several clinical trials that span the breadth of gastrointestinal malignancies, including esophageal cancer, gastric, hepatobiliary, pancreas, and colon cancer. We have additional interests in health care services research, access to care, and the neurocognitive effects of chemotherapy.
Recent Residents and Fellows Mentored: Chrisann Kyi, Doug Guggenheim (fellow)

Richard T. Silver, MD
Director, Myeloproliferative Disease Center
Email: rtsilve@med.cornell.edu
Tel: (646) 962-2255

We conduct a number of studies related to treatment, histopathology, epidemiology and genetic studies of the myeloproliferative disorders, polycythemia vera, essential thromboycythemia and primary myelofibrosis. We are also interested in chronic myeloid leukemia evaluating new agents. We have a close working relationship with molecular pathology laboratories at MSKCC, NYPH and in England.

Emily Smith Tonorezos, MD, MPH
MSKCC, Adult Long-Term Follow-Up Program
Email: tonoreze@mskcc.org
Tel: (646) 888-4730

My research focuses on cardiovascular and metabolic abnormalities following cancer treatment. I currently have ongoing clinical or epidemiological studies among survivors of leukemia, breast cancer, and lymphoma.

David Spriggs, MD
MSKCC, Gynecologic Medical Oncology Service
Email: 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
Associate Professor of Clinical Medicine
(With Dr. David Nanus, see above; close collaboration with Dr. Himisha Beltran)

Email: stt2007@med.cornell.edu
Tel: (646) 962-2072

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 research include: (1) monoclonal antibody therapy for prostate cancer; (2) novel therapies for GU cancers; (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) molecular markers of response/resistance in GU cancers; (8) molecular imaging of prostate cancer.
Recent Residents and Fellows Mentored Elan Diamond, Charlesse Pondt; (fellows) Himisha Beltran, Jon Arnason, Stephanie Jeske, Adriana Rossi, Naveed Akhtar

Martin Tallman, MD

Chief, Leukemia Service
Memorial Sloan Kettering Cancer Center
Professor of Medicine
Weill Cornell Medical College
Email: tallmanm@mskcc.org
Tel: (212) 639-3842

My research has focused on the development of novel treatments for patients with both acute and chronic leukemias. My particular areas of interest include acute myeloid leukemia, acute lymphoblastic leukemia, myelodysplastic syndromes, acute promyelocytic leukemia and hairy cell leukemia. A myriad of new agents are available which target specific genes or antigens on specific leukemia cells, several of which have changed the natural history of certain diseases. Others are in development. For example, in the Leukemia Service at Memorial Sloan-Kettering Cancer Center, we are conducting clinical trials with AC220 (novel *FLT3* inhibitor) in acute myeloid leukemia, AT-406 (orally bioavailable XIAP inhibitor) in acute myeloid leukemia, arsenic trioxide in acute promyelocytic leukemia, DOT1L inhibitor (methyl transferase inhibitor) for patients with hematologic malignancies with the 11q23 or *MLL* gene rearrangements and blinatumomab (anti-CD19 bispecific T-cell engaging antibody) in acute lymphoblastic leukemia, to name only a few. We collaborate extensively with colleagues conducting laboratory research in the molecular genetics of meyloid and lymphoid malignancies. I also serve as the Chair of the Leukemia Committee of the Eastern Cooperative Oncology Group (ECOG) and am involved in many ECOG and intergroup clinical trials.

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. 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").

Linda T. Vahdat, MD

Professor of Medicine
Director, Breast Cancer Research Program

Head, Solid Tumor Service
Email: ltv2001@med.cornell.edu

My research is focused on clinical and translational development of novel therapeutics in breast cancer. A major research thrust is to understand the mechanisms that maintain tumor dormancy. We have a large program trying to understand this process, which includes partnerships with laboratory scientists and a clinical trial. There is ample opportunity for residents to be involved in research within our group.
Recent residents mentored: Rachel Sanford, Maryam Nemati Shafaee

Richard White, MD, PhD
Assistant Professor
Division of Medical Oncology
MSKCC, Cancer Biology & Genetics
Email: whiter@mskcc.org
Phone: 646-888-3415

We are enthusiastic about having residents come to work in the laboratory. My laboratory utilizes the zebrafish system to study evolutionary dynamics in metastasis. Our research ranges from understanding the molecular basis of mutations to *in vivo* screens for drugs that modify metastasis. We have a particular interest in understanding how changes in the cancer cell itself interact with the host genetic background. Ongoing projects include: 1) identifying how host genes regulate tumor metastasis and genomic evolution, 2) how the cancer cell of origin modulates the phenotypic and genomic landscape of tumor development, and 3) screens to identify chemicals which modulate the metastatic phenotype *in vivo*. Our studies include an established melanoma model and novel pancreatic cancer systems.

James W. Young, MD
MSKCC, Adult BMT Service
Immunology Program, Sloan-Kettering Institute for Cancer Research
Associate Chair, Department of Medicine, MSKCC
Professor of Medicine, WCMC
Email: youngjw@mskcc.org
Tel: (646) 888-2052

The Young Laboratory focuses on human dendritic cells and the generation of immunity in cancer and transplantation. These studies involve three broad areas within human 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. We are currently exploring small molecule inhibitors that can control dendritic cell-stimulated alloreactivity while preserving immunity to nominal antigens. We are also investigating signaling pathways that account for the different immunostimulatory functions orchestrated by different human dendritic cell subsets. Two dendritic cell-based vaccine clinical trials are in process. Residents rotating through the lab would have exposure to translational basic science and its application in clinical trials.
Recent Residents Mentored: Adam Boruchov (1999-2000; the May 2000 recipient of the NYP-WCMC David Rodgers Research Award and currently on faculty at University of Connecticut, Hartford, CT)

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 focuses 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

INFECTIOUS DISEASES

Elizabeth L. Alexander, MD (with Kyu Y. Rhee, MD, PhD)
Instructor in Medicine
Email: 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 NewYork-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 (NewYork-Presbyterian/Weill Cornell)
Email: 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. We are a site for an international, multicenter study of human monoclonal antibodies for the prevention of recurrence of *C. difficile* infection. NYP'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: Matthew Simon (fellow), Michael Satlin (fellow)
Recent Residents and Fellows Mentored (at Mount Sinai): David Banach (resident and fellow), Rebecca Bielang (resident), Mahesh Swaminathan (fellow), Meena Rana (fellow)

Jennifer A. Downs, MD, MS
Assistant Professor of Medicine
Center for Global Health, Division Infectious Diseases
Email: jna2002@med.cornell.edu
Tel: +255 686 204 921 (Tanzania); (917) 796-6450 (United States)

I conduct research in Mwanza, Tanzania, both at Bugando Medical Centre and at rural sites in the surrounding villages of the Lake Victoria region. My specific research area of interest is schistosomiasis among rural Tanzanian women, and specifically its relationship to incident HIV infection. Other research interests include interactions between HIV and soil-transmitted helminth infections, sexually-transmitted infections, and both the prevention and management of HIV infection and its complications in resource-poor settings. Recent focus: prevention and treatment of cryptococcal meningitis at Bugando Medical Centre and diagnosis of tuberculosis and tuberculous meningitis in at-risk populations.

Recent Residents and Fellows mentored: Lucheri Efraim, Bonaventura Mpondo, Awilly Chofle, Kinanga Magambo, Matobogolo Masalu, Shikha Kapoor (internal medicine residents at Bugando Medical Centre)

Daniel Fitzgerald, MD

Associate Professor of Medicine
Email: 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 and Fellows Mentored: Karl Bezak, Sean Collins, Maryam Schafee, Matt Simon

Marshall J. Glesby, MD, PhD

Professor of Medicine
Email: mag2005@med.cornell.edu
Tel: (212) 746-7134

The major focus of my clinical research is the investigation of metabolic and end-organ complications in HIV-infected and HCV/HIV co-infected patients, including visceral fat accumulation, disordered glucose metabolism, and COPD. Residents and Fellows 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.
Recent Residents and Fellows Mentored: Meera Pahuja, Michael Satlin, Jyoti Mathad, Daniel Shirley, Leah Burke

Linnie M. Golightly, MD

Associate Professor of Clinical Medicine and
Microbiology and Immunology
Email: lgolight@med.cornell.edu
Tel: (212) 746-6303

Research areas of interest include the pathogenesis of severe malaria disease syndrome (e.g. cerebral malaria), the development of detection methods for infectious agents endemic in resource poor settings (multiplexed microbial signature based, camera cell phone imager) and novel therapeutics/preventative measures for infectious diseases (cholera quorum signaling based prophylactic). Projects are being performed in collaboration with investigators in Ghana, Israel and Cornell University (Ithaca campus).
Recent Residents Mentored: Magdalena Slosar

Roy M. (Trip) Gulick, MD, MPH

Professor of Medicine
Chief, Division of Infectious Diseases
Email: rgulick@med.cornell.edu; (Assistant: Donna Reyes: 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.

Laura Kirkman, MD
Assistant Professor of Medicine
Email: lak9015@med.cornell.edu
Tel: (212) 746-1908

My research focuses on blood borne parasitic pathogens (Malaria and Babesia) and I would welcome residents with an interest in infectious disease and the study of the molecular biology of these important pathogens. Current areas of interest include the development of drug resistance and how the parasites evade the host immune system by changing their outer surface proteins, a process termed antigenic variation.

Kristen Marks, MD
Assistant Professor of Medicine
Email: 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 and Fellows Mentored: Frank Scott, Sameer Kadri, Leah Burke (fellow)

Andy Miller, MD
HSS, Infectious Diseases
Email: 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 hepatitides in rheumatologic patients on biologic agents.

Kyu Rhee, MD, PhD
Assistant Professor of Medicine
Email: 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
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
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, Pediatrics, and Microbiology & Immunology
Director, Transplantation/Oncology Infectious Diseases Program
Email: thw2003@med.cornell.edu
Tel: (212) 746-6320

We develop new strategies for diagnosis, treatment, and prevention of life-threatening infections in immunocompromised children and adult patients focusing on antimicrobial pharmacology; augmentation of innate host defenses; and 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. Research opportunities include reviews of literature, patient chart reviews, case reports, and participation in clinical research of the epidemiology, clinical manifestations, risk factors, diagnosis, treatment, PK/PD, host defenses, and prevention of life-threatening infections in immunocompromised children and adult patients.
Recent Residents Mentored: Saif A. Muhsin

Timothy Wilkin, MD, MPH

Associate 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.

NEPHROLOGY & 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.

Darshana M. Dadhania, MD
Associate Professor of Medicine
Email: dmd2001@med.cornell.edu

I am pleased to participate in mentoring residents. My research has focused on prevention and optimizing management of BK virus nephropathy in renal transplant recipients. We are studying prognostic markers that predict renal allograft outcome following BK virus infection and initiating prospective trials to evaluate the impact of different management strategies on these biomarkers. My other area of interest is studying the impact of proteasome inhibition on anti-HLA antibodies in renal allograft recipients during pre-transplant immunomodulation as well as during treatment of acute rejection.

Samuel J. Mann, MD
Professor of Clinical Medicine
Email: sjmann@med.cornell.edu
Tel: (212) 746-2200

I am pleased to participate in mentoring residents. My research focuses on the drug therapy of resistant hypertension, focusing on a simplified and eminently teachable treatment algorithm based on targeting the causative mechanism in the individual patient. Another area of interest is neurogenic hypertension, i.e. hypertension driven by the sympathetic nervous system, examining how to identify such patients, and differences in response to drug therapy, as compared with the usual case of hypertension.

Alan Perlman, MD
Assistant Professor of Medicine
Division of Nephrology and Hypertension
Email: alp9021@nyp.org
Tel: 212-746-1580

I would be pleased to mentor residents and/or fellows. My research focus is on the areas of diabetic nephropathy and glomerulonephritis.

Manikkam Suthanthiran, MD
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.

Thangamani Muthukumar, MD
Assistant Professor of Medicine
Division of Nephrology & Hypertension
Department of Medicine Department of Transplantation Medicine
Email: mut9002@med.cornell.edu
Tel: (212) 746-4430

I would be pleased to participate in mentoring residents. My research in the Suthanthiran laboratory focuses on acute (AR) and chronic rejection (CR) of kidney transplants. Currently, we are studying the expression pattern of mRNA and microRNA in human kidney transplant recipients using the Next-Generation sequencing technology.

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
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
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
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
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
Tel: (646) 962-5527

Gene expression profiling of the human lung in normal individuals and individuals with smoking-related disease.
Recent Residents Mentored: John Egan, Rachel Knipe

RHEUMATOLOGY

Jessica R. Berman, MD
HSS, Director of Resident and Visitor Rheumatology Education
Associate Professor in Education, Weill Cornell Medical College
Email: bermanj@hss.edu
Tel: (212) 774-7501

My research interests 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. I am Co-director of the HSS Education Academy which funds education research and faculty doing education research and curricular innovations.

Mary K. Crow, MD
HSS, Mary Kirkland Center for Lupus Research
Chief, Division of Rheumatology
Email: 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
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 Barbhaiya, 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
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.

Susan M Goodman, MD
HSS, Rheumatologist
Email: goodmans@hss.edu
Tel: (212) 606-1163

The goal of my current research is to understand the outcomes and adverse events of arthroplasty in rheumatic disease patients undergoing joint replacement surgery. This research has been conducted using our hospital arthroplasty registry, which we have queried to provide data for analysis. Studies have assessed the effect of pregnancy on arthroplasty function, performed with Dr. Lindsay Lally. The study was begun while she was a resident and will be completed during her fellowship here at HSS. Dr. Ummarah Shah began her study of outcomes and adverse events in SLE patients undergoing arthroplasty while a resident at NYH and is completing her study this spring. Other studies are addressing outcomes of patients with RA, inflammatory muscle disease, and obesity.
Recent Residents and Fellows Mentored: Lindsay Lally, Ummarah Shah

Jessica Gordon, MD, MSc
HSS, Assistant Attending Physician
Weill Cornell Medical College, Instructor in Medicine
Email: gordonj@hss.edu
Tel: (212) 606-1173

I would be pleased to mentor residents. My 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
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 epigentics, 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
Tel: (212) 606-1718

My research focuses on systemic lupus erythematosus (SLE) and lupus nephritis. I am involved in both clinical research (including clinical trials) and translational research in this area. 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.
Recent Residents Mentored: Karla Nieves

Michael Lockshin, MD
HSS, Director, Barbara Volcker Center for Women with Rheumatic Diseases
Professor of Medicine and Obstetrics/Gynecology
Email: LockshinM@hss.edu
Tel: (212) 606-1461
Tel: (212) 606-1422 (Dr. Jane Salmon)

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. Dr. Lockshin is semi-retired as of January 2013. Please speak with Drs. Doruk Erkan or Alana Levine.

Lisa A. Mandl, MD, MPH
HSS, Assistant Research Professor of Medicine and Public Health
Email: mandll@hss.edu
Tel: (212) 774-2960

I am a rheumatologist/epidemiologist with a focus on osteoarthritis, inflammatory arthritis, and total joint replacement. I focus both on clinical outcome and translational studies. I also have an interest in healthcare disparities and social determinants of health. I enjoy mentoring both residents and junior faculty and supporting them through study development to publication in peer reviewed journals.
Recent Residents Mentored: Lindsay Lally, Anant Vasudevan

Alessandra B. Pernis, MD
HSS, Mary Kirkland Center for Lupus Research
Email: 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
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
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
Professor of Clinical Medicine, Weill Cornell Medical College
HSS, Director of the Vasculitis and Scleroderma Program
Email: 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.
Recent Residents or Fellows Mentored: Lindsy Forbess; Lindsay Lally

OTHER AREAS OF RESEARCH

Tara Bishop, MD

Assistant Professor of Public Health and Medicine
Email: tlfernan@med.cornell.edu
Tel: (646) 962-8117

I would be thrilled to mentor medical residents and fellows. The goal of my research is to improve the safety, quality, and efficiency of health care in the U.S. I specifically look at the problems of medical errors in the outpatient setting, overuse of health care services, and inefficiencies of outpatient care. I am particularly interested in how payment mechanisms, malpractice fears, and organizational systems affect these problems. I use a number of methods in my research including secondary data analysis, surveys, randomized trials of interventions, and qualitative techniques.
Recent Residents Mentored: Celine Goetz, Stephen Rotman, Kira Ryskina

Lawrence P. Casalino, MD, PhD

Chief, Division of Outcomes and Effectiveness Research, Department 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 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
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
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
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: Sonja Olson

Lisa M. Kern, MD, MPH
Associate Professor of Public Health and Medicine
Email: 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
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
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
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."

Biliary tract	Kahaleh (GI)
Biomarkers	Bosworth (GI)
	Cigler (H-O)
	Kirou (Rheum, HSS)
Bioterror agents	Golightly (ID)
Bisphosphonates	Farooki (Endo, MSKCC)
BK virus	Dadhania (Renal)
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)
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)
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)
Clostridium difficile	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)
	Perlman (Nephro & Hyper)
	Suthanthiran (Renal)
Diabetic nephropathy	Perlman (Nephro & Hyper)
Domestic violence	Lachs (Geri)
Drugs, targeted	Schwartz (H-O, MSKCC)
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)
Glomerulonephritis	Perlman (Nephro & Hyper)
Gram-negative infection	Calfee (ID)
Growth factors	Hempstead (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	Bishop (PH)
	Finkelstein (Geri)
	Siegler (Geri)
Health services	Bishop (PH)
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	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	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)
	Mann (Hypertension)
Immunology	Bosworth (GI)
	Ivashkiv (Rheum, HSS)
	Lesokhim (H-O)
	Liou (Immun)
	Pernis (Rheum, HSS)
	Salmon (Rheum, HSS)
	Young (H-O, MSKCC)
Immunotherapy	Elstrom (H-O)
	Lesokhin (H-O)
Innate Immunity	de Jong (GI)
Infections, hospital acquired	Calfee (ID)
Infections, multi-drug resistant	Calfee (ID)
Inflammatory bowel disease	Bosworth (GI)
	Dannenberg (GI)
	Jacob (GI)
	Scherl (GI)
Inflammation	Dannenberg (GI)
	Goldring (Rheum, HSS)
	Ivashkiv (Rheum, HSS)
	Liou (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)
Islet cell transplantation	Suthanthiran (Renal)
ITP	Bussel (H-O)
JAK	Ivashkiv (Rheum, HSS)
	Levine (H-O, MSKCC)
Joint replacement	Goodman (Rheum)
	Mandl (Rheum)
Leukemia	Guzman (H-O)
	Hsu (H-O, MSKCC)
	Melnick (H-O)
	Nimer (H-O, MSKCC)
	Roboz (H-O)

	Tallman (H-O, MSKCC)
Leukemia stem cells	Guzman (H-O)
Lung cancer	Harvey (Pulm)
	Miller (H-O, MSKCC)
Lymphoma	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	Carvaja (H-O)
	Houvras (H-O)
Metabolomics	Dannenberg (GI)
Microbiology	Bosworth (GI)
Microtubules	Giannakakou (H-O)
Molecular epidemiology	Rhee (ID)
Multiple myeloma	Landau (H-O, MSKCC)
	Lesokhin (H-O)
	Liou (Immun)
	Niesvizky (H-O)
	Nimer (H-O, MSKCC)
Myelodysplastic syndromes	Nimer (H-O, MSKCC)
	Tallman (H-O, MSKCC)
Myeloproliferative disorders	Levine (H-O, MSKCC)
	Nimer (H-O, MSKCC)
	Roboz (H-O)
	Silver (H-O)
Natural killer (NK) cells	Hsu (H-O, MSKCC)
Neurotrophin	Hempstead (H-O)
Noninvasive cardiology	Okin (Card)
	Weinsaft (Card)
Nutrigenomics	Dannenberg (GI)
Oncogenes	Liou (Immun)
	Melnick (H-O)
Opportunistic infections	Walsh (ID)
Orthopedic infections	Miller (ID, HSS)
Osteoarthritis	Mandl (Rheum)
Osteonecrosis	Farooki (Endo, MSKCC)
Outcomes	Casalino (PH)
	Charlson (CEESR)
	Kaushal (CEESR)
	Kern (CEESR)
	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)
Pancreatitis	Kahaleh (GI)
Pain	Reid (Geri)
Parasitology	Downs (ID)
Pericardial disease	Schaffer (Card, MSKCC)
Pharmacogenomics	Reidenberg (Pharm)
Pharmacology, clinical	Reidenberg (Pharm)
	Smith Tonorezos (Epidemiology)
	Spiera (Rheum, HSS)
PI3K/AKT signaling	Scher (H-O, MSKCC)
Plasmacytoma	Landau (H-O, MSKCC)
Platelets	Basciano (H-O)
	Bussel (H-O)
	Feldman (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	Beltran (H-O)
	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	Dadhania (Renal)
	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)
Schistosomiasis	Downs (ID)
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	Suthanthiran (Renal)
Tanzania	Downs (ID)
	Fitzgerald (ID)
Thrombosis	DeSancho (H-O)
	Erkan (Rheum)
	Lockshin (Rheum, HSS)
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)
Vaccines, cancer	Palomba (H-O, MSKCC)
Vascular disorders	Basson (Card) Spiera (Rheum, HSS)
Ventricular tachycardia	Lerman (Card)
Vitamin D	Farooki (Endo, MSKCC)
Weight loss	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)	
	Christini (Card)
	Feldman (Card)
	Imperato-McGinley (Endo)
	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)	Bishop (PH)
	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)
Endocrinology (Endo)	
	Brillon (Endo)
	Farooki (Endo, MSKCC)
	Glesby (ID)
	Imperato-McGinley (Endo)
	Zhu (Endo)
Epidemiology	Smith Tonorezos (MSKCC)
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)
Shah (H-O)

Genetics (Gen)

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

Geriatrics (Geri)

Adelman (Geri)
Finkelstein (Geri)
Lachs (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
Basciano (H-O)
Beltran (H-O)
Bussel (H-O)
Carvaja (H-O)
Cigler (H-O)
Dannenberg (GI)
DeSancho (H-O)
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)
Landau (H-O, MSKCC)
Leonard (H-O)
Lesokhin (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) O'Reilly (H-O, MSKCC) Palomba (H-O, MSKCC) Ritchie (H-O) Roboz (H-O) Schaffer (Card, MSKCC) Scher (H-O, MSKCC) Schwartz (H-O, MSKCC) Shah (H-O) Silver (H-O) Spriggs (H-O, MSKCC) Tagawa (H-O) Tallman (H-O, MSKCC) Traina (H-O, MSKCC) Vahdat (H-O) Young (H-O, MSKCC) Zelenetz (H-O, MSKCC)
Hypertension	Mann
Immunology (Immun)	
	Crow (Rheum, HSS) Elstrom (H-O) Ivashkiv (Rheum, HSS) Liou (Immun) Pernis (Rheum, HSS) Salmon (Rheum, HSS) 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) Vogler (ID) Walsh (ID) Wilkin (ID)

Public Health (PH)	
	Bishop (PH)
	Casalino (PH)
	Downs (ID)
	Kaushal (CEESR)
	Kern (CEESR)
	Mushlin (PH)
	Phillips-Caesar (CEESR)
Pulmonary (Pulm)	
	Crystal (Pulm)
	Kaner (Pulm)
	Krieger (Pulm)
	Miller (H-O, MSKCC)
	Tilley (Pulm)
Renal/Hypertension (Renal)	
	August (Renal)
	Dadhania (Renal)
	Gambarin-Gelwan (GI)
	Mann (Renal)
	Muthukumar (Renal)
	Perlman (Renal)
	Suthanthiran (Renal)
Rheumatology (Rheum)	Berman (Rheum, HSS)
	Erkan (Rheum, HSS)
	Goldring (Rheum, HSS)
	Goodman (Rheum, HSS)
	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)
Sleep Medicine (Pulm)	Krieger (Pulm)

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