

Department of Surgery



Memorial Sloan Kettering
Cancer Center™

2021

Department of Surgery
Annual Research Report

Over the past year, the Department of Surgery (DoS) has continued its commitment towards the advancement of scientific research and surgical education. This report highlights the DoS's engagement over the past year, listing the DoS's diverse range of clinical trials, sponsored research activities and peer-reviewed publications authored by department faculty, staff and fellows.



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Letter from the Chair



The Department of Surgery at Memorial Sloan Kettering Cancer Center is one of the busiest cancer surgery programs in the world. Our results in terms of patient outcomes are exceptional, and yet every surgeon is painfully aware of the limitations of current cancer care – of our patients who have a state-of-the-art operation, get adjuvant chemotherapy, radiation and/or immunotherapy, and still have cancer recurrence. It is this reality that drives us to pursue research, in our effort to ensure that the cancer treatment available to our patients in the future is better than the treatment that we can offer today.

This book provides an overview of much of the research performed by Department of Surgery faculty, fellows and staff over the past year. It spans fundamental laboratory investigation, translational research, clinical trials, studies on patient outcomes and health services research. These pages list hundreds of publications written by our faculty this year that have advanced the understanding of cancer and cancer care throughout the scientific community. We also provide recognition of our academic surgeons who have received research funding from government and non-governmental agencies, as well as philanthropic sources, that enables our research mission. Finally, it also lists our research administration staff whom we owe our thanks, since without their hard work these efforts could not occur. In that spirit of gratitude I would be remiss to not acknowledge our research Vice-Chairs, Dr. Brett Carver (Basic), Dr. Valerie Rusch (Clinical) and Dr. Prasad Adusumilli (Translational) for their help in guiding the Department's research efforts, and a particular thank you to Prasad for putting together this volume.

A handwritten signature in black ink, appearing to read "Jeffrey Drebin". The signature is fluid and cursive, written in a professional style.

Jeffrey Drebin, MD, PhD

Chair, Department of Surgery; Murray F. Brennan Chair in Surgery

DoS: 2020 Snapshot

13

SERVICES

79

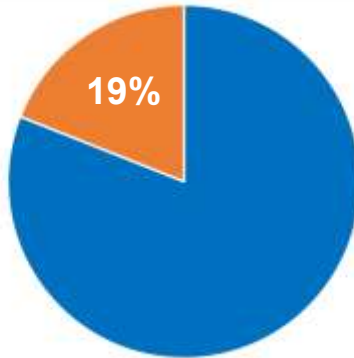
CLINICAL
FELLOWS

65

RESEARCH
FELLOWS

480

PUBLICATIONS



PUBLICATIONS IN
JOURNALS WITH AN
IMPACT FACTOR ≥ 10

324

CLINICAL TRIALS/
INVESTIGATIONS

44

FEDERAL
GRANTS

38

FOUNDATION
GRANTS

24

INDUSTRY
GRANTS

Department Leadership



Jeffrey Drebin, MD, PhD
Chair, Department of Surgery



Prasad S. Adusumilli, MD
Deputy Chief and Attending,
Thoracic Service; Vice Chair for
Translational Research



Thomas C. Barber, MD
Associate Deputy Physician in
Chief, Operating Room and
Perioperative Services



Carol L. Brown, MD
Senior Vice President and Chief
Health Equity Officer; Nicholls-
Biondi Chair for Health Equity



Brett S. Carver, MD
Vice Chair of Basic
Research



Michael J. D'Angelica, MD
Enid A. Haupt Chair in Surgery; Director,
Hepatopancreatobiliary Fellowship Program;
Director, Surgical Oncology Fellowship
Program, Vice Chair of Education



Joseph J. Disa, MD
Vice Chair of Clinical Activities;
Benno C. Schmidt Chair in
Surgical Oncology



Ginger J. Gardner, MD
Vice Chair of Clinical Activities;
Vice Chair of Hospital
Operations



Jennifer Hunara, MHA/MBA
Senior Director



Elizabeth Jewell, MD, MHSc
Vice Chair, Regional Network &
Affiliates; Director of Surgery, MSK
Monmouth & MSK Basking Ridge



Vincent P. Laudone, MD
Medical Director; Chief of
Surgery, Josie Robertson
Surgery Center



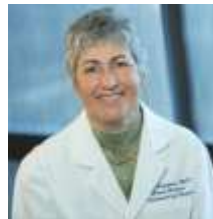
Garrett M. Nash, MD, MPH
Vice Chair for Quality and Safety



Bernard J. Park, MD
Surgical Director, Alliance
Programs



Valerie W. Rusch, MD
Vice Chair for Clinical Research



Lisa M. Sclafani, MD
Director of Surgical Services,
Regional Network (LI)



Vivian E. Strong, MD
Vice Chair Surgical Innovation &
Clinical Outcomes



Vivian S. Tabar, MD
Chair, Department of Neurosurgery;
Theresa Feng Chair in Neurosurgical
Oncology



Martin R. Weiser, MD
Vice Chair, Faculty Affairs

Service Chiefs



David H. Abramson, MD
Ophthalmic Oncology



Nadeem Abu-Rustum, MD
Gynecology



Julio Garcia Aguilar, MD, PhD
Colorectal



James A. Eastham, MD
Urology



**Justin Theodore
(Ted) Gerstle, MD**
Pediatric Surgical



John H. Healey, MD
Orthopaedic



Joseph M. Huryn, DDS
Dental



William R. Jarnagin, MD
Hepatopancreatobiliary



David R. Jones, MD
Thoracic



Babak J. Mehrara, MD
Plastic and Reconstructive Surgical



Monica Morrow, MD
Breast



Samuel Singer, MD
Gastric and Mixed Tumor



Richard J. Wong, MD
Head and Neck

Research Fellows



Janet A. Alvarez
Research Scholar



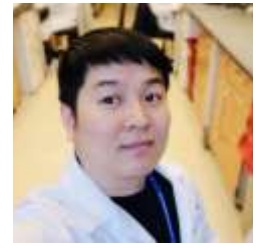
Alfredo Amador Molina
Research Fellow



Masataka Amisaki
Research Scholar



Manendra Babu Lankadasari
Research Associate



Jungeun Baik
Research Associate



Richard Bakst
Visiting Investigator



Thomas Boerner
Research Associate



Alexander J. Byun
Research Fellow



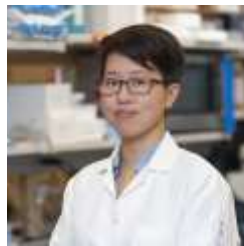
Adana Campbell
Research Scholar



James Cevallos
Graduate Research Assistant



Chun- Hao Chen
Senior Research Scientist



Jennie K. Choe
Research Fellow



Seo-Hyun Choi
Research Associate



Sebastian K. Chung
Research Fellow



Arnaud F. Da Cruz Paula
Research Associate



Xinzhu Deng
Senior Research Scientist



Yajing Gao
Research Scholar



Pablo Guasp Baratech
Research Fellow



Rodrigo Gularte Merida
Senior Research Scientist



Yang Guo
Research Fellow



Yoshinori Handa
Research Scholar



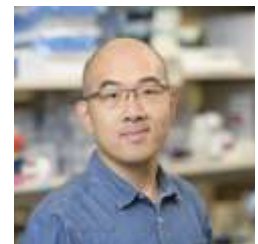
Caitlin A. Harrington
Research Associate



Di He
Research Fellow



Rachid Hocine Hocine
Research Fellow



Zhaohua Hou
Senior Research Scientist

Research Fellows



Jia Hu
Research Associate



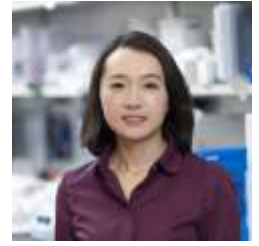
Jian Hu
Senior Research Scientist



Guochang Huang
Senior Research Scientist



Crisanta H. Ilagan
Research Fellow



Hui Jiang
Research Scholar



Raghu P. Kataru
Senior Research Scientist



Leslie N. Kim
Research Associate



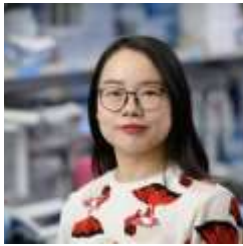
Young-Mi Kim
Senior Research Scientist



Harry B. Lengel
Research Fellow



Allison S. Letica-Kriegel
Research Fellow



Yan Li
Visiting Investigator



Regina Matar
Research Fellow



Sarah M. McIntyre
Research Fellow



Giacomo Montagna
Research Fellow



Aradhya Nigam
Research Fellow



Tomoyo Okada
Senior Research Scientist



Dana M. Omer
Research Scholar



Hyeung Ju Park
Research Associate



Parag P. Patwardhan
Senior Research Scientist



Katherine Prendergast
Research Scholar



Hue T. Quach
Research Associate



David J. Restle
Research Fellow



Eric V. Rios-Doria
Research Fellow

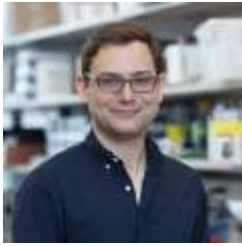


Luis A. Rojas Exposito
Research Associate



Robyn Rubenstein
Research Associate

Research Fellows



Zachary M. Sethna
Research Scholar



Annu Singh
Research Associate



Maria Skamagki
Senior Research Scientist



Hannah M. Thompson
Research Associate



Vladislav Tshiperson
Senior Research Scientist



Rajasekhar Vinagolu
Senior Research Scientist



Joris Vos
Research Fellow



Lynda Vuong
Research Associate



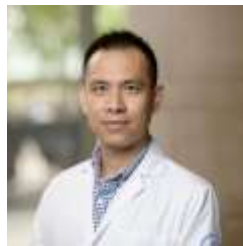
Qi Wang
Research Scholar



Jingming Wang
Visiting Investigator



Chao Wu
Senior Research Scientist



Yuquan Xiong
Senior Research Scientist



Changhwan Yoon
Senior Research Scientist



Jonathan B. Yuval
Research Fellow



Abderezak Zebboudj
Research Fellow

Clinical Fellows



Ehab Alameer



Christian Ang



Haripriya Ayyala

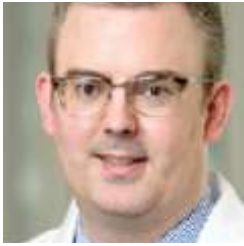


Said Azoury



Nikolas Baksh

Clinical Fellows



Benjamin Beech



Jarrod Bogue



Anthony Bozzo



David Brauer



Carissa Chu



Matthew Clements



Colin Court



Amanda Dann



Kimberly Dessources



Alex Doudt



Trey Durdin



Brett Ecker



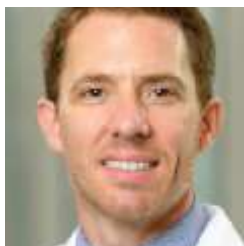
Sarah Ehmann



Ryan Ellis



Cecilia Ethun



Anthony Farmer



Yael Feferman



Jacqueline Feinberg



Olga Filippova



Conall Fitzgerald



Paolo Goffredo



Sushmita Gordhandas



Katherine Gray



Mohammad Hararah



Mautin Hundeyin

Clinical Fellows



Facundo Iriarte



Song Jiang



Ravinder Kang



Sari Khaleel



Ryan Khan



Sarah Kim



Michael LaQuaglia Jr.



Esther Lau



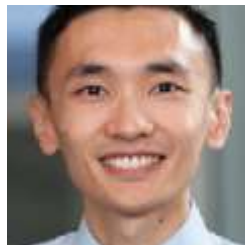
Jay Lee



Andrew Lenis



Helena Levyn



George Li



Joseph Lopez



Beryl Manning-Geist



Jose Miguel Flores Martinez



Cristina Valero Mayor



Caitlin McIntyre



Sophia McKinley



Kaitlin McLoughlin



Benjamin Medina



Matan Mekayten



Kathryn Miller



Lea Moukarzel



Timothy Murtha



Tamar Nobel

Clinical Fellows



Linda Pak



Emily Palmquist



Roheena Panni



Isabel Pennings



Marlon Perera



Aaron Praiss



Phillip Rappold



Peter Reisz



Tiffany Sia



Harrison Spatz



Marissa Srour



Kidane Tewolde



Daniel Thomas



Hong Truong



Grace Um



Gerardo Vitiello



Austin Williams



Jack Woods



Robbie Woods



Effi Yeoshoua



Caleb Yeung



Wesley Yip



Jonathan Yuval



William Zammarrelli



SURGEON



SCIENTISTS



Prasad S. Adusumilli
Attending

Research Focus: Investigation of the tumor immune microenvironment and the development of T-cell-mediated immunotherapy for thoracic malignancies and pleural-based diseases. His team has championed regional immunotherapy delivery strategies, resulting in translation of mesothelin-targeted CAR T-cell immunotherapy for malignant pleural mesothelioma, lung, and breast cancers.



Charlotte E. Ariyan
Associate Attending

Research Focus: New ways of allowing the immune system to fight cancer by utilizing chemotherapy or injectable viral therapy in combination with immunotherapy. In addition, the lab is focused on finding unique vulnerabilities for treatment, in rare melanoma subtypes, such as acral melanoma.



Vinod P. Balachandran
Assistant Attending

Research Focus: The goal of the Balachandran lab is to discover new ways to stimulate the immune system to treat cancer through careful study of rare cancer patients with exceptional outcomes. The lab believes that deep study of these remarkable patients will identify fundamental mechanisms of how the immune system controls cancers, and accelerate the discovery of new effective drugs. The laboratory uses this approach to study pancreatic cancer, a model deadly cancer that is refractory to all treatments including immunotherapy – and specifically focus on a rare subgroup of pancreatic cancer patients with exceptional long-term survival to discover new immunotherapeutic approaches. The long-term vision of the Balachandran lab is to use a similar approach of study of biological extremes to usher in the next generation of cancer immunotherapies.



Matthew Bott
Assistant Attending

Research Focus: Understanding how tumors form and investigate new ways to treat them. His lab is working on designing new models to study cancer and then use these experimental models to develop better treatments.



Brett Carver
Associate Attending

Research Focus: Studying the biology of the genetic and molecular drivers of prostate tumorigenesis, defining the therapeutic biology associated with inhibitors targeting the PI3K pathway in prostate cancer, determining mechanisms of response and resistance to PI3K and AR inhibitors in prostate cancer, developing therapeutic strategies based on our pre-clinical work for clinical trial translation in patients with high-risk localized and metastatic prostate cancer.



Aimee M. Crago
Associate Attending

Research Focus: The rarity of soft tissue sarcomas has historically made the definition of genomic drivers of their initiation and progression difficult. Through copy number, whole exome and transcriptome analyses, however, common events associated with these lesions have recently been defined. The focus of the laboratory is to understand how these events, in the context of a mesenchymal cell background, promote sarcomagenesis.



Jonathan Coleman
Attending

Research Focus: Using laparoscopic, robotic, and image-guided therapies, the goal of the lab is to provide appropriate curative therapeutic interventions through the organ-sparing approaches of less-invasive surgery. They are interested in the application and careful study of techniques such as robotic (da Vinci) prostatectomy, laparoscopic partial nephrectomy, partial adrenalectomy, cryo- and radiofrequency ablation, and MRI-guided prostate interventions using state-of-the-art instrumentation and imaging technology. They are also coupling these approaches with basic science research investigations of human cancers to discover optimal therapeutic strategies that can be tailored to each of their patients.



Julio Garcia Aguilar
Attending

Research Focus: Examining ways to improve outcomes for peoples with colon and rectal cancers. He has led National Cancer Institute–sponsored studies aimed at improving the quality of life of patients with rectal cancer by performing smaller operations and identifying individuals who might avoid surgery altogether through sufficient elimination of tumors with radiation therapy and chemotherapy. He also focuses on the identification of biomarkers that could predict rectal cancer response to radiation therapy and chemotherapy, and examination of racial disparities in outcomes for people with colorectal cancer.



Abraham A. Hakimi
Associate Attending

Research Focus: The study of genetic and metabolic determinant of immune response in renal cell carcinoma. The lab uses both human samples and mouse models to identify microenvironmental determinants of systemic therapy response and resistance.



David R. Jones
Attending

Research Focus: The Jones lab is investigating the underlying genomic, transcriptomic, and signal transduction mechanisms involved in lung cancer metastasis. The laboratory focuses on metastases suppressor genes and their role in biology of metastases using multiple model systems including transgenic mice, patient-derived organoids, and human biospecimens. The lab also has expertise in using tumor genomics and related bioinformatics to predict tumor recurrence following surgical resection in patients with lung adenocarcinoma. Finally, working collaboratively with the Leyden lab, the Jones lab is examining the role of exosomes and the tumor microenvironment in the development and organotropism of lung cancer metastases.



Babak Mehrara
Attending

Research Focus: The lab focuses on lymphedema and has developed a number of models to study lymphedema in the laboratory with a goal of understanding how it develops. Additionally, the Mehrara lab is studying the mechanisms that regulate lymphatic function in pathological and physiological settings. The long-term goal of the laboratory is to design novel methods including surgery and medical treatments to prevent and treat lymphedema.



Luc Morris
Associate Attending

Research Focus: The lab members work at the intersection of cancer genomics, molecular biology, animal models, and clinical data science, to discover new biomarkers and new genetic drivers. The Morris lab focuses mainly on head and neck cancer but also studies biomarkers across many cancer types. The lab has identified new cancer genes, developed new animal models, uncovered factors that cancers use to resist therapy or escape immune surveillance, and critically assessed genetic biomarkers that predict response to immunotherapy.



Eugene J. Pietzak
Assistant Attending

Research Focus: Their research focuses on the interface between cancer genomics, epigenetics, and immunotherapy as it pertains to urothelial cancers. A current major focus is to identify predictive biomarkers of treatment response and resistance to intravesical bacillus Calmette-Guerin (BCG) and to develop novel treatment combinations that could enhance BCG's effectiveness. Their long-term objective is to translate the laboratory findings into rationally designed investigator-initiated phase I/II trials of novel therapies for patients with bladder cancer.



George Plitas
Associate Attending

Research Focus: Understanding the molecular mechanisms governing the differentiation and function of CD4 T lymphocytes and their role in immunity and tolerance. Major areas of interest include: the molecular and cellular mechanisms governing the differentiation and function of regulatory T cells; the roles these cells play in control of autoimmunity, tumor immunity, and immunity to infections, and in the maintenance of immune homeostasis at environmental interfaces



Sam Singer
Attending

Research Focus: Discovery of genetic and epigenetic alterations in sarcoma to gain insight into sarcoma biology and find new targets for therapy. Many sarcoma subtypes respond poorly to chemotherapy, so there is an urgent need for better treatment options for patients whose disease cannot be cured surgically.



Bhuvanesh Singh
Attending

Research Focus: Delineating the role of ubiquitination in cancer pathogenesis.



Jesse Joshua Smith
Associate Attending

Research Focus: They developed the first relevant model of rectal cancer. Now in their NCI-funded laboratory, they are working to optimize this model to better study rectal cancer and to uncover targeted treatments for people with rectal cancer who do not respond to standard treatments. This type of research requires investigation of the chemotherapy and radiation resistance mechanisms and predictive markers that can be assessed in the tumors and models derived from patients. They seek to rapidly move findings from the lab into early phase clinical trials to improve outcomes for rectal cancer patients.



Brian Untch
Assistant Attending

Research Focus: Exploring the mechanisms of thyroid and gastrointestinal tumor progression and responses to therapy. Using genetically accurate models of cancer, the lab explores why certain tumors are more aggressive than others and how best to treat these with various interventions.



Britta Weigelt
Associate Attending

Research Focus: Study of endometrial cancers, the most common gynecologic cancer in developed countries. The aim is to identify biologically relevant subclasses of endometrial cancers and their driving molecular alterations. The goal of the lab research is to define how these molecular changes can be exploited to guide the delivery of optimal therapy for specific patients with endometrial cancer.

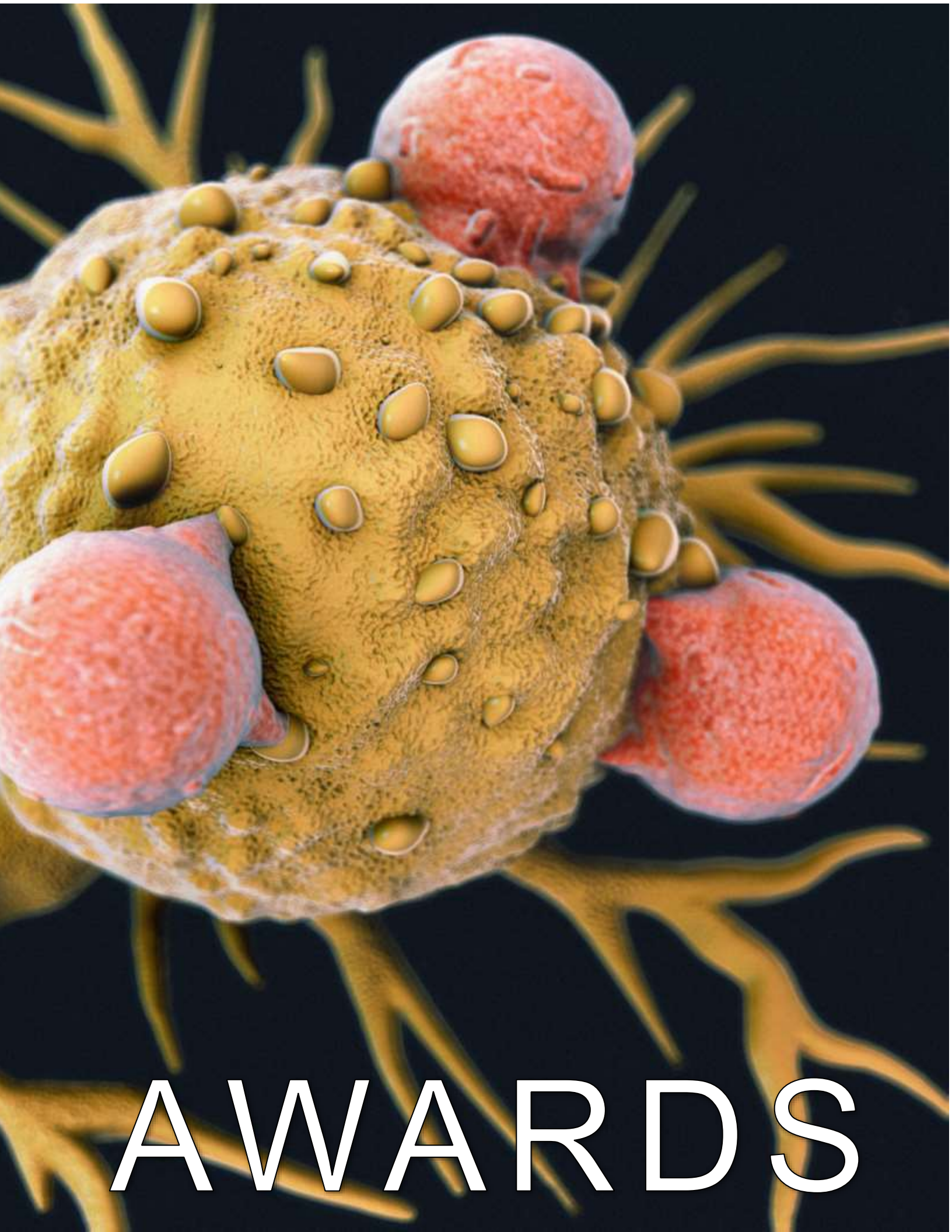


Richard J. Wong
Attending

Research Focus: The laboratory focuses on elucidating interactions between cancers and nerves. They study the molecular and cellular mechanisms underlying perineural invasion, tumor innervation, and tumor neurogenesis. Ongoing projects examine the central role of the nerve microenvironment in supporting these processes and reveal how cancer cells co-opt normal nerve repair and nerve development programs to drive tumor progression. Characterizing the relationships between cancers and nerves reveals opportunities for novel therapeutic interventions.



RESEARCH



AWARDS

Federal Research Grants

Name	Role	Service	Funding Organization	Name of Grant
Adusumilli, Prasad	Principal Investigator	Thoracic	NIH/NCI R01	Image-Guided Irreversible Electroporation Directed CAR T-Cell Delivery to Solid Tumors
Adusumilli, Prasad	Principal Investigator	Thoracic	NIH/NCI R01	A Phase I/II Combination Immunotherapy Clinical Trial: Mesothelin-targeted Chimeric Antigen Receptor T Cells and Checkpoint Blockade Agent in Pleural Mesothelioma
Adusumilli, Prasad	Principal Investigator	Thoracic	DoD/CDMRP	Cell-Selective, Repetitive, Irreversible Electroporation to Augment Mesothelioma CAR T-Cell Therapy
Adusumilli, Prasad	Principal Investigator	Thoracic	DoD/CDMRP	Assessment of Endogenous and CAR T-Cell Immunity Following Anti-PD-1 Agent as a Transition Step to Phase II Combination Immunotherapy
Adusumilli, Prasad	Principal Investigator	Thoracic	DoD/CDMRP	Immunomodulation of Localized Lung Adenocarcinoma Prevents Metastases
Balachandran, Vinod	Principal Investigator	Hepatopancreatobiliary	NIH/NCI U01	Defining Neoantigen Immunodominance for Antigen Selection and Biomarker Discovery in Human Pancreatic Cancer Immunotherapy
Balachandran, Vinod	Principal Investigator	Hepatopancreatobiliary	NIH/NCI U01	Defining Neoantigen Immunodominance for Antigen Selection and Biomarker Discovery in Human Pancreatic Cancer Immunotherapy

Bott, Matthew	Principal Investigator	Thoracic	NIH/NCI K08	Exploring the Combinatorial Efficacy between Chemotherapy and T Cell Checkpoint Inhibition and the Role of Cellular Senescence
Carlsson, Sigrid	Principal Investigator	Urology	NIH/NCI K22	Improving Shared Decision Making in Cancer Screening
Carver, Brett	Principal Investigator	Urology	NIH/NCI T32	T32 Urologic Oncology Research Training Program
Carver, Brett	Principal Investigator	Urology	NIH/NCI R01	Defining Response and Resistance to PI3K and AR inhibition in Prostate Cancer
Carver, Brett	Principal Investigator, Project 3	Urology	NIH/NCI U54	The MSKCC-UW/Fred Hutch Prostate Cancer Drug Resistance and Sensitivity Center (Project 3: Defining the Appropriate Context for Targeting Kinase Signaling in Combination with Androgen Receptor Blockade to Enhance Therapeutic Response in Metastatic Prostate Cancer)
Cercek Hanjjs, Andrea	Principal Investigator	Colorectal	NIH/NCI R21	Neoadjuvant PD-1 Blockade in Mismatch Repair Deficient Rectal Cancer
Coleman, Jonathan	Principal Investigator	Urology	DoD/CDMRP	Mechanism-Based Approach for Combination Therapies with Immune Modulation for Management of Patients with Urothelial Cancers of the Upper Urinary Tract
Crago, Aimee	Principal Investigator	Gastric and Mixed Tumor	NIH/NCI R37	Investigating HIF1-alpha Signaling to Identify Predictive Markers and Therapeutic Targets in Desmoid-Type Fibromatosis
D'Angelica, Michael	Principal Investigator	Hepatopan-creatobiliary	NIH/NCI R01	Histopathologic Validation of 89Zr-DFO-HuMab-5B1 PET/CT Imaging in CA 19-9 Positive Pancreatic Cancer
Garcia-Aguilar, Julio	Principal Investigator	Colorectal	NIH/NCI R01	Organ Preservation in Rectal Adenocarcinoma

Federal Research Grants (Continued)

Name	Role	Service	Funding Organization	Name of Grant
Healey, John	Principal Investigator, Project 1	Orthopaedic	NIH/NCI U54	2/2 CCNY-MSKCC Partnership for Cancer Research, Education and Community Outreach (Project 1: Development of Mechanical Interventions to Enhance Drug Delivery to Bone Tumors)
Hakimi, Abraham	Principal Investigator	Urology	DoD/CDMRP	Characterizing and Targeting the Microenvironmental Barriers to Immunotherapeutic Response in Renal Cell Carcinoma
Jarnagin, William	Principal Investigator	Hepatopan-creatobiliary	NIH/NCI U01	Improving Outcome in Patients with Advanced Intrahepatic Cholangiocarcinoma: A Randomized Phase II Study of Gemcitabine and Oxaliplatin With or Without Regional Floxuridine (FUDR)
Jarnagin, William	Principal Investigator	Hepatopan-creatobiliary	NIH/NIBIB R01	Deformation Corrected Image Guided Laparoscopic Liver Surgery
Jones, David	Principal Investigator	Thoracic	NIH/NCI R01	BRMS1-mediated Suppression of Metastases in p53 Mutant Lung Adenocarcinoma
Jones, David	Principal Investigator	Thoracic	NIH/NCI R01	Targeting SNP BRMS1v2 A273V/A273V to Reduce Metastases in Lung Adenocarcinoma
Kingham, T. Peter	Principal Investigator	Hepatopan-creatobiliary	NIH/NCI UH3	Point of Care, Real-time Urine Metabolomics Test to Diagnose Colorectal Cancers and Polyps in Low- and Middle-income Countries

Kingham, T. Peter	Principal Investigator	Hepatopancreatobiliary	NIH/NCI R01	Determining the Risk Factor Profile and Biology of Colorectal Cancer in Nigeria
Mehrara, Babak	Principal Investigator	Plastic and Reconstructive	NIH/NHLBI R01	Mechanisms of Fibrosis in Post-surgical Lymphedema
Mehrara, Babak	Principal Investigator	Plastic and Reconstructive	NIH/NCI T32	Surgical Oncology Research Training Grant
Morris, Luc	Principal Investigator	Head and Neck	NIH/NIDCR R01	Identifying and Targeting Neoantigens in Aggressive Salivary Carcinomas
Mulhall, John	Principal Investigator	Urology	DoD/CDMRP	Evaluating the Impact of Prostate Cancer Therapy on the Sexual Quality of Life of Couples
Nelson, Jonas	Principal Investigator	Plastic and Reconstructive	NIH/NCI R01	Helping Men Adhere to Sexual Rehabilitation Following Prostate Cancer Surgery
Pilewskie, Melissa	Principal Investigator	Breast	NIH/NCI N01	Cancer Prevention Agent Development Program: Early Phase Clinical Research-Cost Reimbursement
Singer, Samuel	Principal Investigator	Gastric and Mixed Tumor	NIH/NCI P50	SPORE in Soft Tissue Sarcoma

Federal Research Grants (Continued)

Name	Role	Service	Funding Organization	Name of Grant
Singh, Bhuvanesh	Principal Investigator	Head and Neck	NIH/NCI R01	Chemical Biology of the Control of Neddylation by DCN1
Smith, Jesse Joshua	Principal Investigator	Colorectal	NIH/NCI R37	Expansion of Tumoroid Models for Precise Treatment of the Rectal Cancer Patient
Soares, Kevin	Principal Investigator	Hepatopan-creatobiliary	NIH/NCI R01	Preventing an Incurable Disease: The Prevention of Progression to Pancreatic Cancer Trial (The 3P-C Trial)
Wong, Richard	Principal Investigator	Head and Neck	NIH/NCI R01	Schwann Cell Reprogramming and Cancer Perineural Invasion
Wong, Richard	Principal Investigator	Head and Neck	NIH/NCI T32	Head and Neck Training Program in Surgical Oncology
Yoon, Samuel	Principal Investigator	Gastric and Mixed Tumor	NIH/NCI R01	HIF-1alpha and FBP2 in Sarcoma Metabolism, Progression, and Metastasis
Zivanovic, Oliver	Principal Investigator	Gynecology	NIH/NCI UG1	Network Lead Academic Participating Site: Memorial Sloan Kettering Cancer Center

Foundation Research Grants

Name	Role	Service	Funding Organization	Name of Grant
Adusumilli, Prasad	Principal Investigator	Thoracic	Emerson Collective	T cell Therapy to Overcome Immunosuppressive Microenvironment in Lung Adenocarcinoma
Adusumilli, Prasad	Principal Investigator	Thoracic	Comedy vs. Cancer (MSK)	IL-7 Receptor-targeted Chimeric Antigen Receptor T-cell Therapy for T-cell Acute Lymphoblastic Leukemia: Preclinical Evaluation and Clinical Trial Preparation
Adusumilli, Prasad	Principal Investigator	Thoracic	Technology Development Fund (MSK)	Exploiting cKIT Mutation as a Costimulatory Domain in CAR T Cells
Adusumilli, Prasad	Co-Principal Investigator	Thoracic	Geoffrey Beene Cancer Research Center (MSK)	Optimizing T Cell-based Immunotherapies for Pediatric Sarcomas and AML
Ariyan, Charlotte	Principal Investigator	Gastric and Mixed Tumor	Yale University	Patient Focused Therapy for Acral Melanoma
Ariyan, Charlotte	Co-Principal Investigator	Gastric and Mixed Tumor	Cycle for Survival (MSK)	Utilizing Isolated Limb Infusion with Chemotherapy to Increase Local Inflammation and Facilitate Response to Checkpoint Inhibition in Patients with Locally Advanced or Metastatic Extremity Sarcoma
Balachandran, Vinod	Principal Investigator	Hepatopan-creatobiliary	Damon Runyon Cancer Research Foundation	Defining the Evolutionary Dynamics and Antigen Potential of Neoantigens for Human Pancreatic Cancer Immunotherapy
Balachandran, Vinod	Principal Investigator	Hepatopan-creatobiliary	University of Pennsylvania	Antigenicity of Mutant Kras and Impact on Cancer Evolution
Bartlett, Edmund	Principal Investigator	Gastric and Mixed Tumor	Cycle for Survival (MSK)	Utilizing Isolated Limb Infusion with Chemotherapy to Increase Local Inflammation and Facilitate Response to Checkpoint Inhibition in Patients with Locally

Foundation Research Grants (Continued)

Name	Role	Service	Funding Organization	Name of Grant
Boerner, Thomas	Principal Investigator	Gynecology	Teal Tea Foundation	Serous Tubal Intraepithelial Carcinoma (STIC) found at the time of Risk-Reducing Surgery: The Key to Understand Risk?
Bott, Matthew	Principal Investigator	Thoracic	GO2 Foundation for Lung Cancer	Age-related Determinants of Initiation, Progression, and Immunotherapy Response in Non-small Cell Lung Cancer
Bott, Matthew	Principal Investigator	Thoracic	American Association for Thoracic Surgery	Third Andrew Morrow AATS Research Scholar
Carlsson, Sigrid	Principal Investigator	Urology	MSK Projects in Patient and Family-Centered Care (MSK)	Improving Patient Involvement in Care: A Pilot Study of a Comprehensive Pelvic Floor Muscle Exercise Program Before and After Radical Prostatectomy to Prevent Urinary Leakage
Carter, Jeanne	Principal Investigator	Gynecology	Patient Centered Outcomes Research Institute	Ambulatory Cancer Care Electronic Symptom Self-Reporting for Surgical Patients
Carter, Jeanne	MSK Site Principal Investigator	Gynecology	The Breast Cancer Research Foundation, University of Michigan	Continuation Proposal for Enhancing Sexual Health in Female Cancer Survivors: Building a Personalized Biobehavioral Intervention
Coleman, Jonathan	Principal Investigator	Urology	Thompson Family Foundation	Collaborative Oncology Program in VTP Therapeutics
Coleman, Jonathan	Principal Investigator	Urology	University of Southern California	PAC Protocol: Diagnosing Clinically Significant Prostate Cancer in African American and White Men, A Phase II, Randomized Clinical Trial, Multi-Center, MR-guided vs. 12-core Systematic Random Biopsy, Localized Prostate Cancer (4P-16-

Cracchiolo, Jennifer	Principal Investigator	Head and Neck	Patient Centered Outcomes Research Institute	PRO-ACTIVE: Comparing the Effectiveness of Prophylactic Swallow Intervention for Patients Receiving Radiotherapy for Head and Neck Cancer
Crago, Aimee	Principal Investigator	Gastric and Mixed Tumor	American Cancer Society	Oncogenic Effects of Activated Beta-catenin in Desmoid Fibromatosis
Deborde, Sylvie	Principal Investigator	Head and Neck	Hirshberg Foundation for Pancreatic Cancer	Retinoic Acid in Schwann Cells Involved in Pancreatic Cancer Invasion
Gemignani, Mary	Principal Investigator	Breast	Chandel Endowment for Survivorship Research (MSK)	Understanding Fertility Decisions and Outcomes of Young Breast Cancer Survivors
Hakimi, Abraham	Principal Investigator	Urology	American Cancer Society	Adaptive Immune Response to Nivolumab in Patients with Advanced RCC
Healey, John	Principal Investigator	Orthopaedic	Omega Medical Grants Association	OMeGA Fellowship Grant (2020-2021)
Jarnagin, William	Principal Investigator	Hepatopancreatobiliary	Functional Genomics Initiative (MSK)	Cell-free DNA as a Predictive Biomarker in Cholangiocarcinoma
LaQuaglia, Michael	Principal Investigator	Pediatric	Starr Cancer Consortium	High Throughput Identification of Apoptosis Sensitizing Compounds in Fibrolamellar Hepatocellular Carcinoma
Mehrara, Babak	Principal Investigator	Plastic and Reconstructive	Plastic Surgery Foundation	Immunosuppressive Properties of Lymphatics in Promoting Melanoma Growth
Mehrara, Babak	Principal Investigator	Plastic and Reconstructive	Tri-Institutional Stem Cell Initiative	Investigating Lymphatic Capillaries as Regulators of the Intestinal Stem Cell Niche
Morris, Luc	Principal Investigator	Head and Neck	Washington University in St. Louis	Immunotherapy With MK-3475 in Locoregionally Advanced, Surgically Resectable Head And Neck Squamous Cell Carcinoma

Foundation Research Grants (Continued)

Name	Role	Service	Funding Organization	Name of Grant
Pietzak, Eugene	Principal Investigator	Urology	American Urological Association Foundation	Genomic and Transcriptomic Predictors of Response and Mechanisms of Resistance to Intravesical Bacillus Calmette–Guérin (BCG) Immunotherapy in Non-Muscle Invasive Bladder Cancer
Plitas, George	Principal Investigator	Breast	American Surgical Association	CD177 Identifies a Novel Subset of Regulatory T Cells (Treg) Infiltrating Human Breast Cancer
Plitas, George	Principal Investigator	Breast	Manhasset Women's Coalition	Mapping the Human Breast Cancer Tumor Immune Microenvironment
Plitas, George	Principal Investigator	Breast	Parker Institute for Cancer Immunotherapy	An Exploratory Biomarker Study of Metastatic Triple Negative Breast Cancer Patients Treated with Immune Checkpoint Inhibitors Short Title: Translational Resource for Immuno-Biology to Understand Therapeutic Efficacy (TRIBUTE)
Sihag, Smita	Principal Investigator	Thoracic	AATS Foundation	Quantification of Circulating Tumor DNA to Assess Disease Burden and Treatment Response in Resectable Esophageal Adenocarcinoma
Sihag, Smita	Principal Investigator	Thoracic	Druckenmiller Center for Lung Cancer Research (MSK)	Prediction and Detection of Response to Treatment in Locally Advanced Esophageal Adenocarcinoma
Singh, Bhuvanesh	Principal Investigator	Head and Neck	Harrington Discovery Institute	Developing Novel Agents to Target SCCRO Activity in Human Cancers - 2018 Harrington Scholar-Innovator Grant
Soares, Kevin	Principal Investigator	Hepatopan-creatobiliary	Duke University Medical Center	Preventing an Incurable Disease: The Prevention of Progression to Pancreatic Cancer Trial (The 3PC Trial)
Yoon, Samuel	Principal Investigator	Gastric and Mixed Tumor	DeGregorio Family Foundation	Role of KRAS in Gastric Cancer Stem-like Cells in Promoting Metastasis, Angiogenesis, and Chemotherapy Resistance
Yoon, Samuel	Principal Investigator	Gastric and Mixed Tumor	Stand Up To Cancer	Early Detection and Interception of Diffuse and Intestinal Gastric Cancer

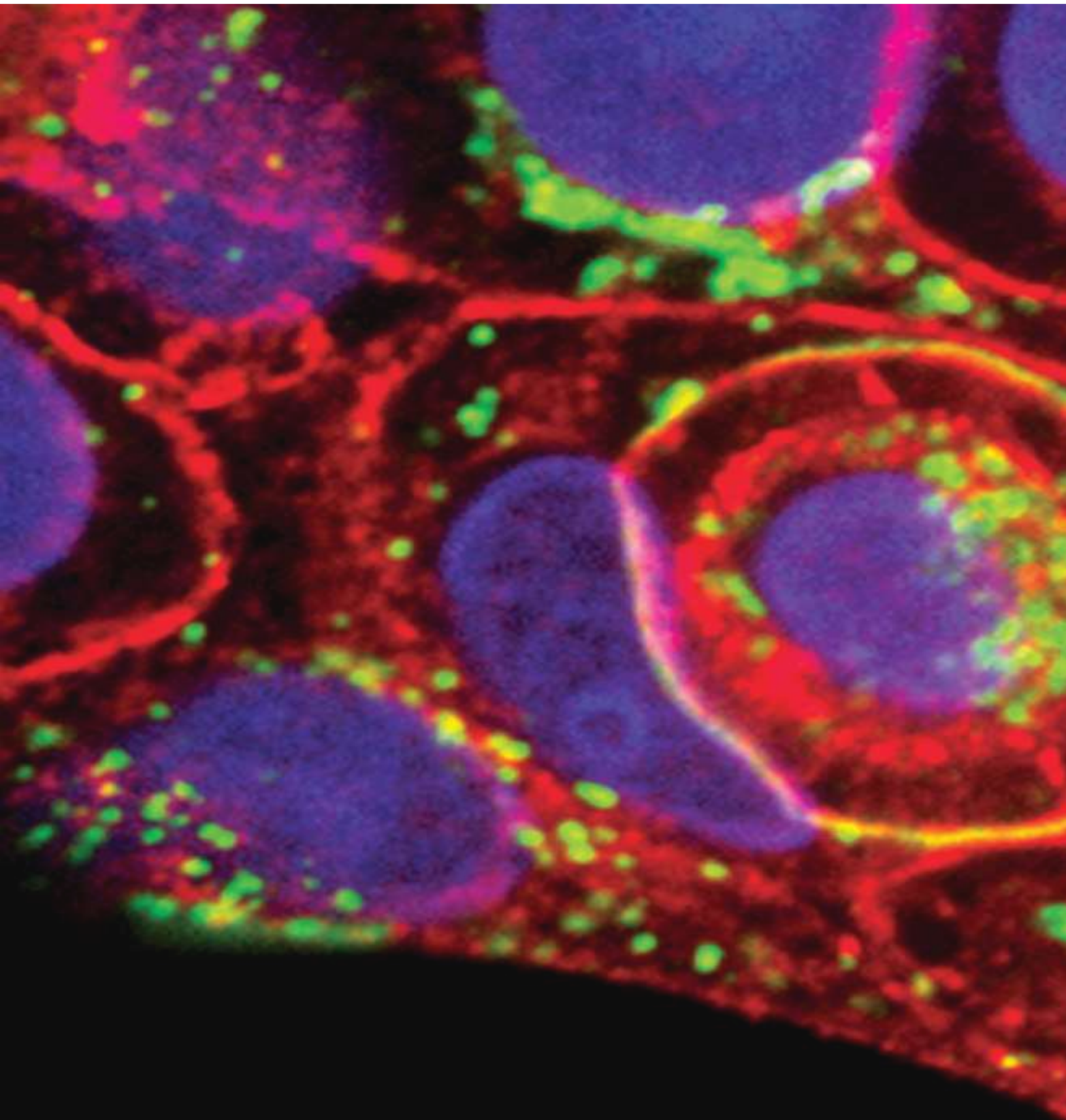
Industry Research Grants

Name	Role	Service	Funding Organization	Name of Grant
Abu-Rustum, Nadeem	Principal Investigator	Gynecology	Grail, Inc.	GRAIL-001: The Circulating Cell-free Genome Atlas (CCGA) Study
Adusumilli, Prasad	Principal Investigator	Thoracic	OSE Immunotherapeutics	IL-7 Receptor (IL-7R)-directed CAR T-cell Therapy for Lung Cancer
Adusumilli, Prasad	Principal Investigator	Thoracic	ACEA Biosciences, Inc.	SRA-Assessment of Autologous CAR-T Mediated Killing of Pleural Effusions
Adusumilli, Prasad	Principal Investigator	Thoracic	Atara Biotherapeutics, Inc.	SRA-Development of Chimeric Antigen Receptor T-Cells that target Mesothelin and Encode PD1 Dominant Negative Receptor Checkpoint Inhibition
Adusumilli, Prasad	Principal Investigator	Thoracic	Atara Biotherapeutics, Inc.	A Phase I Clinical Trial of Malignant Pleural Disease Treated with Autologous T Cells Genetically Engineered to Target the Cancer-Cell Surface Antigen Mesothelin
Ariyan, Charlotte	Principal Investigator	Gastric and Mixed Tumor	Amgen Inc.	SRA-Data Collection and Disclosure Agreement Order
Balachandran, Vinod	Principal Investigator	Hepatopan-creatobiliary	Genentech, Inc.	Phase 1 Clinical Trial of Personalized Neoantigen Tumor Vaccines and Programmed Death-Ligand 1 (PD-L1) Blockade in Patients with Surgically Resected Pancreatic Cancer
Balachandran, Vinod	Principal Investigator	Hepatopan-creatobiliary	Enterome SA	SRA-clinical-stage Biopharmaceutical Company Developing Innovative Therapies Based on the Identification and Therapeutic Application of Bioactive Molecules Expressed, Secreted and Regulated by the Gut Microbiome
Coleman, Jonathan	Principal Investigator	Urology	Steba Biotech S.A.	Study of the Efficacy, Safety and Quality of Life after TOOKAD Soluble Vascular Targeted Photodynamic therapy (VPT) for Minimally Invasive Treatment of Localized Intermediate Risk Prostate Cancer

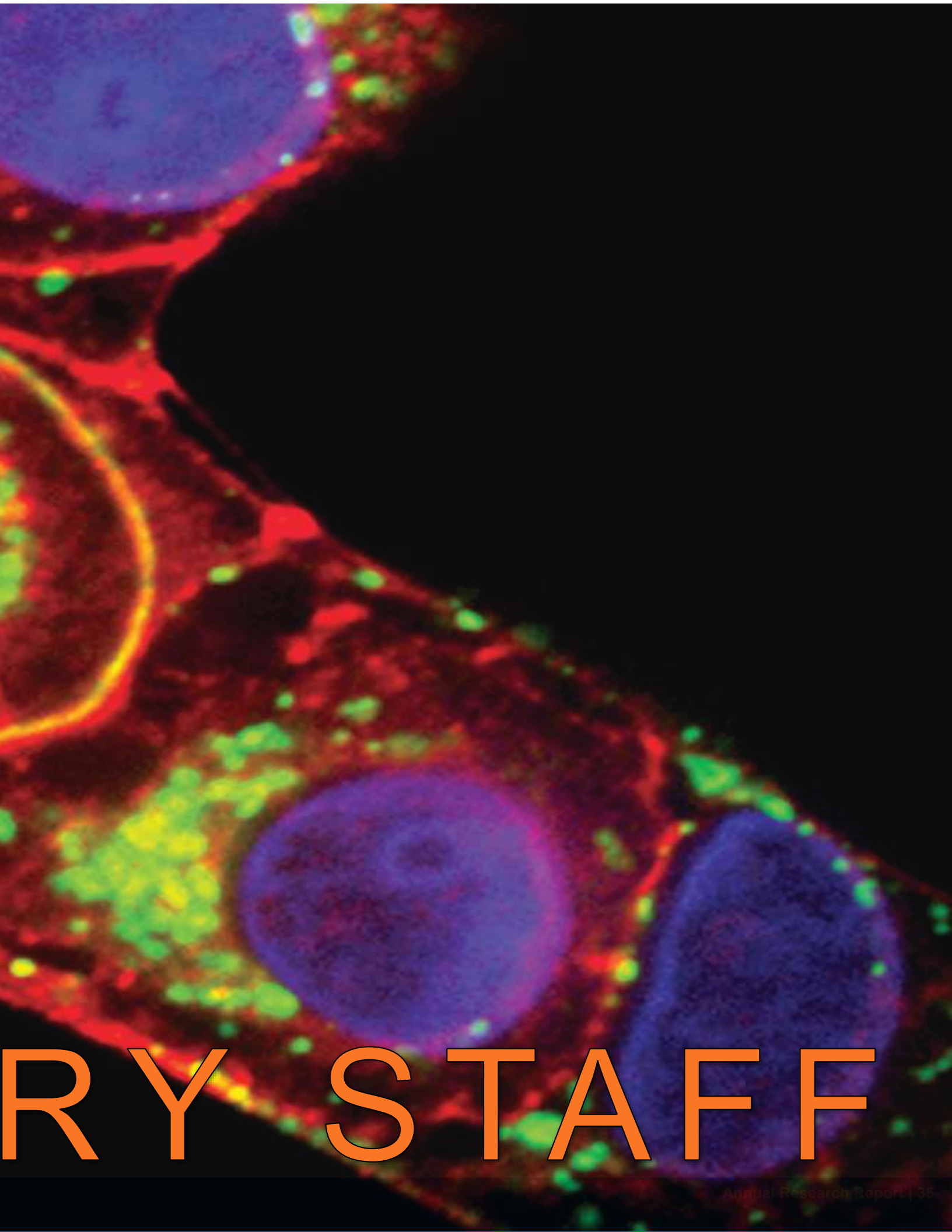
Industry Research Grants (Continued)

Name	Role	Service	Funding Organization	Name of Grant
Coleman, Jonathan	Principal Investigator	Urology	Steba Biotech S.A.	Phase I Study of WST-11 Phototherapy for Upper Tract Urothelial Carcinoma
Coleman, Jonathan	Principal Investigator	Urology	UroGen Phrama	A Phase 3 Multicenter Trial Evaluating The Efficacy and Safety of MitoGel on Ablation of Upper Urinary Tract Urothelial Carcinoma
D'Angelica, Michael	Principal Investigator	Hepatopan-creatobiliary	CryoLife Inc.	Prospective, Multicenter, Multidisciplinary, Controlled Clinical Investigation Evaluating the Safety and Efficacy of "PerClot" Polysaccharide Hemostatic System
Dalbagni, Guido	Principal Investigator	Urology	Medical Enterprises Ltd.	A Multicenter, Single-Arm Study Evaluating the Efficacy of Synergo® Radiofrequency-Induced Thermochemotherapy Effect (RITE) with Mitomycin C (Synergo® RITE + MMC) in CIS Non-Muscle Invasive Bladder Cancer (NMIBC) Bacillus Calmette-Guérin (BCG)-Unresponsive Patients with or without Papillary NMIBC
Disa, Joseph	Principal Investigator	Plastic and Reconstructive	ViOptix Inc.	A Prospective Pilot Study to Evaluate Correlation Between Intra-operative StO ₂ Measurements and Post-operative Outcomes in Mastectomy Patients Using ViOptix Intra.Ox® Device
Eastham, James	Principal Investigator	Urology	SpectraCure AB	Open-Label Clinical Study to Assess the Safety and Adequacy of Effectiveness of the SpectraCure P18 System (Interstitial Multiple Diode Lasers and IDOSE Software) and Verteporfin for Injection (VFI) for the Treatment of Recurrent Prostate Cancer

Ehdaie, Behfar	Principal Investigator	Urology	Myriad Genetics Inc.	PAC Protocol RRP: Clinical Outcomes in Men with Prostate Cancer Who Selective Active Surveillance Using Prolaris Testing
Ehdaie, Behfar	Principal Investigator	Urology	Insightec	A Continued Access Study to Evaluate Focal MR-Guided Focused Ultrasound Treatment of Localized Intermediate Risk Prostate Lesions
Ehdaie, Behfar	Principal Investigator	Urology	Myriad Genetics Inc.	Long-Term Prospective Registry to Evaluate Treatment Decisions and Clinical Outcomes in Patients with Favorable Intermediate Risk Localized Prostate Cancer Following Cell Cycle Progression (CCP) Testing (Prolaris® Test)
Hakimi, Abraham	Principal Investigator	Urology	Elypta AB	Glycosaminoglycan Scores for Surveillance of Recurrence in Leibovich Points in 5 Non-Metastatic Clear Cell Renal Cell Carcinoma
Mehrara, Babak	Principal Investigator	Plastic and Reconstructive	PureTech Health LLC	SRA-Effect of LYT-100 on the Mouse Tail Model of Lymphedema
Pietzak, Eugene	Principal Investigator	Urology	Janssen Pharmaceutical	A Phase 2 "Window of Opportunity" Trial of Targeted Therapy with Erdafitinib in Patients with Recurrent FGFR3-Altered Non-Muscle Invasive Bladder Cancer
Soares, Kevin	Principal Investigator	Hepatopancreatobiliary	AstraZeneca	A Pilot Study of Neoadjuvant MEDI9447 (Oleclumab) and MEDI4736 (Durvalumab) in Patients with Surgically Resectable Adenocarcinoma of the Pancreas
Weiser, Martin	Principal Investigator	Colorectal	Clinical Genomics Pathology Inc.	Pilot Study to Detect and Measure ctDNA in Colorectal Cancer
Zivanovic, Oliver	Principal Investigator	Gynecology	Dutch Gynecologic Oncology Group	Phase III Randomized Clinical Trial for Stage III Epithelial Ovarian Cancer Randomizing between Primary Cytoreductive Surgery with or without Hyperthermic Intraperitoneal Chemotherapy: OVHIPEC-2



SURGE



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CLINICA



CLINICAL TRIALS

Therapeutic Research

IRB	Title	PI	Service
14-151	A Randomized Phase III Trial Evaluating the Role of Axillary Lymph Node Dissection in Breast Cancer Patients (cT1-3 N1) Who Have Positive Sentinel Lymph Node Disease After Neoadjuvant Chemotherapy (Alliance A011202)	Morrow, Monica, MD	Breast
17-384	Sentinel Lymph Node Biopsy After Neoadjuvant Chemotherapy in Patients Presenting with Locally Advanced Breast Cancer: A Prospective Study	Barrio, Andrea, MD	Breast
17-576	A Prospective, Double Blind, Randomized, Placebo-Controlled Trial of Locally Instilled Bupivacaine in the Surgical Bed After Unilateral Mastectomy Without Reconstruction	Kirstein, Laurie, MD	Breast
21-183	Selective Use of ALND in cT1-2N1 HR+/HER2- Breast Cancer Patients with 1 or 2 Positive Sentinel Lymph Nodes Undergoing Upfront Breast Conservation: A Prospective Study	Mamtani, Anita, MD	Breast
12-289	ICARuS (Intraperitoneal Chemotherapy After cytoReductive Surgery): A Single-center, Randomized Phase II Trial of Early Post-operative Intraperitoneal Chemotherapy (EPIC) and Hyperthermic Intraperitoneal Chemotherapy (HIPEC) After Optimal Cytoreductive Surgery (CRS) for Neoplasms of the Appendix, Colon or Rectum with Isolated Peritoneal Metastasis	Nash, Garrett, MD	Colorectal
20-104	A Phase II Study of Concurrent Systemic Pembrolizumab and Isolated Limb Infusion (ILI) with Melphalan and Dactinomycin for Patients with Locally Advanced or Metastatic Extremity Sarcoma	Bartlett, Edmund, MD	Gastric & Mixed Tumor
20-456	Melanoma Margins Trial (MelMarT): A Phase III, Multi-Centre, Multi-National Randomised Control Trial Investigating 1cm v 2cm Wide Excision Margins for Primary Cutaneous Melanoma	Bello, Danielle, MD	Gastric & Mixed Tumor
18-173	Pilot Trial of the Robotic Uterine Manipulator	Leitao, Mario, MD	Gynecology
19-164	Phase II randomized trial of neoadjuvant chemotherapy followed by surgery and post-operative radiation versus surgery and post-operative radiation for organ preservation of T3 and T4a (and selected T4b) nasal and paranasal sinus squamous cell carcinoma (NPNSCC)	Cohen, Marc, MD	Hepatopancreatobiliary
20-155	PRO-ACTIVE: Comparing the Effectiveness of Prophylactic Swallow Intervention for Patients Receiving Radiotherapy for Head and Neck Cancer	Cracchiolo, Jennifer, MD	Hepatopancreatobiliary
20-560	Randomized Phase II/III Trial of Sentinel Lymph Node Biopsy Versus Elective Neck Dissection for Early-Stage Oral Cavity Cancer (NRG-HN006) (CIRB)	Cracchiolo, Jennifer, MD	Hepatopancreatobiliary
17-418	A Phase III Multicenter, Open Label Randomized Controlled Trial of Cefoxitin versus Piperacillin-Tazobactam as Surgical Antibiotic Prophylaxis in Patients Undergoing Pancreatoduodenectomy	D'Angelica, Michael, MD	Hepatopancreatobiliary
18-489	Trial Of IRE in Cholangiocarcinoma (TONIC): Phase II	Kingham, T. Peter, MD	Hepatopancreatobiliary
19-039	Phase 1 Clinical Trial of Personalized Neoantigen Tumor Vaccines and Programmed Death-Ligand 1 (PD-L1) Blockade in Patients with Surgically Resected Pancreatic Cancer	Balachandran, Vinod, MD, FACS	Hepatopancreatobiliary
21-150	A Pilot Study of Neoadjuvant MEDI9447 (Oleclumab) and MEDI4736 (Durvalumab) in Patients with Surgically Resectable Adenocarcinoma of the Pancreas	Soares, Kevin, MD	Hepatopancreatobiliary
21-216	A Pilot Study to Assess the Safety and Efficacy of Preoperative Stereotactic Body Radiotherapy for the Treatment of Metastatic Disease in Bone Requiring Surgical Stabilization	Vaynrub, Maksim, MD	Orthopedic
20-021	A Randomized Control Trial: Does Immediate Lymphatic Reconstruction Decrease the Incidence of Lymphedema After Axillary Lymph Node Dissection?	Coriddi, Michelle, MD	Plastic & Reconstruction
20-565	A Randomized Controlled Trial of Prepectoral Versus Subpectoral Prosthetic Breast Reconstruction	Matros, Evan, MD	Plastic & Reconstruction
19-374	Phase I/II Trial of Bacillus Calmette-Guérin (BCG) and Intravesical Gemcitabine for Patients with BCG-Relapsing High-Grade Non-Muscle Invasive Bladder Cancer	Pietzak, Eugene, MD	Urology
20-114	Open-Label Clinical Study to Assess the Safety and Adequacy of Effectiveness of the SpectraCure P18 System (Interstitial Multiple Diode Lasers and IDOSE Software) and Verteporfin for Injection (VFI) for the Treatment of Recurrent Prostate Cancer	Eastham, James, MD	Urology

IRB	Title	PI	Service
20-251	Phase II Trial Of Intravesical Gemcitabine and Mk-3475 (Pembrolizumab) In The Treatment Of Patients With BCG-Unresponsive Non-Muscle Invasive Bladder Cancer (A031803) (CIRB)	Pietzak, Eugene, MD	Urology
21-099	Phase I Trial of Real-Time Intraoperative Fluorescent Imaging of Nerve Structures Using Illuminare-1, A Novel Myelin-Binding Fluorophore	Donahue, Timothy, MD	Urology
21-166	A Phase 2 "Window of Opportunity" Trial of Targeted Therapy with Erdafitinib in Patients with Recurrent FGFR3-Altered Non-Muscle Invasive Bladder Cancer	Pietzak, Eugene, MD	Urology
21-314	Phase I Study Evaluating the Safety and Tolerability of an Intravesical Anti-CD40 Agonist Antibody (2141-V11) in Subjects with Non-muscle Invasive Bladder Cancer Unresponsive to Bacillus Calmette-Guerin Thera-	Bochner, Bernard, MD	Urology
21-321	Multicenter Phase 3 Pivotal Study to Evaluate the Safety and Efficacy of TOOKAD (padeliporfin) Vascular Targeted Photodynamic Therapy in the Treatment of Low Grade Upper Tract Urothelial Cancer	Coleman, Jonathan, MD	Urology

Diagnostic Research

IRB	Title	PI	Service
16-039	The Incidence of Adjacent Synchronous Ipsilateral Infiltrating Carcinoma and/or DCIS in Patients Diagnosed with Flat Epithelial Atypia (FEA) or Intraductal Papilloma without Atypia (IPWA) by Core Needle Biopsy	Pilewskie, Melissa, MD	Breast
19-271	ICG-Enabled Mapping of Ovarian Sentinel Lymph Nodes: A Feasibility Study	Gardner, Ginger, MD	Gynecology
20-067	SEntinel Lymph node Endometrial Cancer Trial: A Prospective Multicenter International Single-Arm Observational Trial (SELECT)	Abu-Rustum, Nadeem, MD	Gynecology
21-202	ARIA II: A Phase III Randomized Controlled Trial of Near-Infrared Angiography During Rectosigmoid Resection and Anastomosis in Women with Ovarian Cancer	Zivanovic, Oliver, MD	Gynecology
15-128	Reflectance Confocal Microscopy of Oral Cancers In Vivo: A Preliminary Trial Comparing Intra-Oral Imaging with Pathology	Patel, Snehal, MD	Hepatopancreatobiliary
15-015	Interrogation of Exosome-mediated Intercellular Signaling in Patients with Pancreatic Cancer	Jarnagin, William, MD	Hepatopancreatobiliary
17-443	Point of Care, Real-Time Urine Metabolomics Test to Diagnose Colorectal Cancers and Polyps in Low- and Middle-Income Countries	Kingham, T. Peter, MD	Hepatopancreatobiliary
17-594	Development of Novel Imaging and Laboratory Biomarkers to Monitor the Liver Pre-Metastatic Niche and Guide Treatment of Colon Cancer: A Pilot Study	D'Angelica, Michael, MD	Hepatopancreatobiliary
20-201	Does the Concept of the Sentinel Lymph Node Apply to Esophageal Cancer? A Prospective Assessment of Near-Infrared Image-Guided Lymphatic Mapping and Sentinel Lymph Node Identification in Esophageal	Molena, Daniela, MD	Thoracic
20-349	Breathprinting (e-Nose) Technology for the Identification of Early-Stage Lung Cancer	Rocco, Gaetano, MD	Thoracic
18-295	Diagnosing Clinically Significant Prostate Cancer in African American and White Men, A Phase II, Randomized Clinical Trial, Multi-Center, MR-guided vs. 12-core Systematic Random Biopsy,	Coleman, Jonathan, MD	Urology
19-333	Molecular Phenotyping and Image-Guided Surgical Treatment of Prostate Cancer Using Ultrasmall Silica Nanoparticles	Touijer, Karim, MD	Urology
20-224	Glycosaminoglycan Scores for Surveillance of Recurrence in Leibovich Points ≥ 5 Non-Metastatic Clear Cell Renal Cell Carcinoma	Hakimi, Abraham, MD	Urology
20-229	A Phase II Multi-Institutional Trial to Evaluate Prostate Specific Membrane Antigen (PSMA)-Based PET Imaging of High Risk Prostate Cancer (CIRB)	Touijer, Karim, MD	Urology
21-277	Randomized Controlled Trial Assessing Transperineal Prostate Biopsy to Reduce Infection Complications (BRANY)	Ehdaie, Behfar, MD, MPH	Urology

Prevention/Intervention Research

IRB	Title	PI	Service
19-108	Preoperative Nutrition Intervention for Patients Undergoing Primary Surgical Debulking of Ovarian Cancer: A Feasibility Study	Broach, Vance, MD	Gynecology
21-029	A Non-Randomized Prospective Clinical Trial Comparing the Non-Inferiority of Salpingectomy to Salpingo-oophorectomy to Reduce the Risk of Ovarian Cancer Among BRCA1 Carriers [SOROCK] (NRG-CC008) (CIRB)	Long Roche, Kara, MD	Gynecology
21-012	Preventing an Incurable Disease: The Prevention of Progression to Pancreatic Cancer Trial (The 3PC Trial) (DUHS IRB)	Soares, Kevin, MD	Hepatopancreatobiliary

QoL Research

IRB	Title	PI	Service
20-552	Cluster Randomized Controlled Trial of Patient and Provider Decision Support to Increase Chemoprevention Informed Choice Among Women With Atypical Hyperplasia or Lobular Carcinoma in Situ - Making Informed Choices on Incorporating Chemoprevention Into Care (MiCHOICE) (S1904) (CIRB)	Pilewskie, Melissa, MD	Breast
20-429	Preservation of Ovaries in Endometrial Malignancies: GYN POEM Trial	Mueller, Jennifer, MD	Gynecology
17-382	Decision Making and Psychological Outcomes in Low Risk Papillary Thyroid Cancer	Roman, Benjamin, MD	Hepatopancreatobiliary
15-057	Health Related Quality of Life Following Hepatectomy for Colorectal Liver Metastasis: Global and Disease Specific Changes Over Time	D'Angelica, Michael, MD	Hepatopancreatobiliary
18-014	Assessment of Healing and Function After Surgical Reconstruction for Neoplasms Involving Bone	Prince, Daniel, MD	Orthopedic
15-240	General Registry of Autologous Fat Transfer (GRAFT)	Mehrara, Babak, MD	Plastic & Reconstruction
21-318	Incorporating Three-Dimensional Visualization in Breast Reconstruction Consultation	Stern, Carrie, MD	Plastic & Reconstruction
18-189	Improving Patient Experience and Outcomes for Men Undergoing Prostate Biopsy: A Randomized Controlled Trial with Early Stage Consent	Ehdaie, Behfar, MD, MPH	Urology

Epidemiologic Research

IRB	Title	PI	Service
20-026	A Prospective Analysis of Active Observation in Patients with Desmoid-Type Fibromatosis	Crago, Aimee, MD, PhD	Gastric & Mixed Tumor
20-287	PREPARE: Patient Centered Perioperative Experience	Jewell, Elizabeth, MD	Gynecology
18-114	Developing Non-Communicable Disease Registries in Africa: A Step Towards Providing Quality Data for Improving Patient Outcomes	Kingham, T. Peter, MD	Hepatopancreatobiliary
18-541	Thoracic Surgery Oncology Group (TSOG) Protocol: Registry Trial of Active Surveillance for Multifocal Ground Glass Opacities (GGOs)	Huang, James, MD	Thoracic

Biospecimen Research

IRB	Title	PI	Service
12-206	Analysis of the Gene Expression Signature of Regulatory T Cells in Human Breast Malignancies	Plitas, George, MD	Breast
20-393	An Exploratory Biomarker Study of Metastatic Triple Negative Breast Cancer Patients treated with Immune Checkpoint Inhibitors Short Title: Translational Resource for Immuno-Biology to Understand Therapeutic	Plitas, George, MD	Breast
15-102	Molecular Characterization of Primary Appendiceal Neoplasms	Nash, Garrett, MD	Colorectal
15-191	Long Term Expansion, Banking and Analysis of Normal and Malignant Intestinal Crypts From Surgical Specimens	Paty, Philip, MD	Colorectal
16-1071	The MSKCC Colon and Rectal Cancer Tumoroid Project: Prospective Collection of Rectal and Colon Tumor and Normal Adjacent Tissues with Potential to Guide Individual Treatment Options	Smith, J. Joshua, MD, PhD	Colorectal
16-1181	Identifying Biomarkers for Colorectal Tumor Response to Chemoradiation	Garcia-Aguilar, Julio, MD, PhD	Colorectal
16-1319	Molecular Analysis of High Risk Stage IIIB and IIIC (N2) Colon Adenocarcinoma	Weiser, Martin, MD	Colorectal
02-060	Novel Biochemical and Molecular Determinants for Soft Tissue Sarcoma	Singer, Sam, MD	Gastric & Mixed Tumor
11-033	The Role of Tumor Exosomes in Melanoma	Brady, Mary, MD	Gastric & Mixed Tumor
16-091	Whole exome sequencing of matched Gastric Cancers: Analysis of Outliers	Strong, Vivian, MD	Gastric & Mixed Tumor
16-523	Assessment of Differential Clinical Outcome and Response to Therapy by Clinical and Genetic Melanoma Subtype	Ariyan, Charlotte, MD, PhD	Gastric & Mixed Tumor
16-524	Outcome of Patients Undergoing Resection of Metastatic Melanoma that has Progressed on Immunotherapy	Ariyan, Charlotte, MD, PhD	Gastric & Mixed Tumor
17-124	Proteomics and Genomic Profiling of Gastroesophageal Tumors	Yoon, Sam, MD	Gastric & Mixed Tumor

IRB	Title	PI	Service
19-101	A study to characterize both targeted and immuno therapy treated and treatment naïve patients with melanoma and various melanoma subtypes	Coit, Daniel, MD	Gastric & Mixed Tumor
19-313	The Comparison of Genomic Characteristics of Gastric Cancer Between US and Japan	Strong, Vivian, MD	Gastric & Mixed Tumor
20-577	Circulating Tumor DNA in Locally Advanced Gastric Adenocarcinoma	Strong, Vivian, MD	Gastric & Mixed Tumor
21-079	Analysis of Sarcomas Treated with Chemotherapy, TKIs, and/or Immunotherapy	Yoon, Sam, MD	Gastric & Mixed Tumor
15-281	Uterine Washing Biomarkers as a Novel Screening Tool for High Grade Serous Carcinoma	Long Roche, Kara, MD	Gynecology
16-604	Tina Brozman Ovarian Cancer Consortium (TBOCC)	Long Roche, Kara, MD	Gynecology
17-479	Proteogenomics of Disease Distribution and Poor Outcome in Advanced Stage, High-Grade Serous Ovarian, Peritoneal, and Tubal Cancer	Chi, Dennis, MD	Gynecology
18-548	Margin Assessment in Cervical and Vulvar Cancer with PARPi-FL	Jewell, Elizabeth, MD	Gynecology
11-195	Genomic Characterization of Salivary Gland, Thyroid and Head and Neck Tumors	Morris, Luc, MD	Head & Neck
15-052	The Role of the Nerve Microenvironment in Perineural Invasion	Wong, Richard, MD	Hepatopancreatobiliary
16-049	Genomic profiling of olfactory neuroblastoma (ONB) and sinonasal tumors with ONB features	Ganly, Ian, MD, PhD	Hepatopancreatobiliary
16-641	Molecular and Histopathological Markers of Tumor Aggressiveness in Well and in Poorly Differentiated Thyroid Carcinomas	Ganly, Ian, MD, PhD	Hepatopancreatobiliary
16-646	Imaging of Head and Neck Cancer Tissue Samples with PARP and NaV1.7 Tracers	Ganly, Ian, MD, PhD	Hepatopancreatobiliary
17-439	Creation of thyroid cancer cell lines, xenograft models and biospecimen bank	Ganly, Ian, MD, PhD	Hepatopancreatobiliary
18-323	Molecular Signature Of The Tumor Initiating Stem Cell In Human Squamous Cell Carcinomas of Head and Neck	Singh, Bhuvanesh, MD, PhD	Hepatopancreatobiliary
19-283	Study of Tumor Microenvironment in Head and Neck Cancers	Patel, Snehal, MD	Hepatopancreatobiliary
20-422	Margin Assessment of Head and Neck Cancer with PARP Tracers	Ganly, Ian, MD, PhD	Hepatopancreatobiliary
21-247	Mechanoregulation of Cytotoxic Lymphocyte Function	Morris, Luc, MD	Hepatopancreatobiliary
10-118	Characterization of Tumor Markers in the Bile of Patients with Liver, Biliary and Pancreatic Tumors	Jarnagin, William, MD	Hepatopancreatobiliary
11-083	The Role of Immunity in Gastrointestinal and Hepatopancreatobiliary Malignancy	Jarnagin, William, MD	Hepatopancreatobiliary
15-209	Comparison of presentation and outcomes in patients with colorectal cancer in MSKCC, South Africa, and Ife, Nigeria	Kingham, T. Peter, MD	Hepatopancreatobiliary
16-258	Prognostic Gene Profiling in Surgical Patients with Solitary Hepatocellular Carcinoma	Jarnagin, William, MD	Hepatopancreatobiliary
16-635	Molecular and Protein Characterization of Biliary Carcinomas	Jarnagin, William, MD	Hepatopancreatobiliary
16-645	Hepatocellular Tumors: the diagnostic potential of microRNAs	Jarnagin, William, MD	Hepatopancreatobiliary
17-024	Evaluation of cfDNA as a Predictive Biomarker in Patients with Hepatobiliary Carcinoma	Jarnagin, William, MD	Hepatopancreatobiliary
18-059	Outcome of Patients with Resected Adrenocortical Carcinoma (ACC) Liver Metastasis	Jarnagin, William, MD	Hepatopancreatobiliary
20-312	Global Cancer Disparities Initiative Nigerian-MSK Specimen Umbrella Protocol	Kingham, T. Peter, MD	Hepatopancreatobiliary
21-062	Characterization of the Pancreatic Cyst Microbiome	Soares, Kevin, MD	Hepatopancreatobiliary
16-1481	Targeted Exome Sequencing of Primary Uveal Melanoma and Their Metastatic Lesions	Francis, Jasmine, MD	Ophthalmology
17-049	Cancer Genes Altered In Retinoblastoma and Coats' Disease	Abramson, David, MD	Ophthalmology

IRB	Title	PI	Service
17-206	Single cell-sequencing of uveal melanoma and retinoblastoma	Francis, Jasmine, MD	Ophthalmology
18-152	Genetic Mutation Profile in Epithelial Neoplasm of Lacrimal Gland	Della Rocca, David, MD	Ophthalmology
20-078	Microbiome of Ophthalmic Tumors	Francis, Jasmine, MD	Ophthalmology
17-067	Investigation of Genetic Alterations and Chemotherapy Resistance in Osteogenic Sarcoma and Other Solid Tumors	Healey, John, MD	Orthopedic
18-536	The Role of Keratinocytes in CD4 activation in Lymphedema	Mehrara, Babak, MD	Plastic & Reconstruction
15-115	Histopathological Prognostic Markers of Malignant Pleural Mesothelioma	Adusumilli, Prasad, MD	Thoracic
15-292	Adjuvant Lung Cancer Enrichment Marker Identification and Sequencing Trial (ALCHEMIST/A151216) (CIRB)	Jones, David, MD	Thoracic
16-047	Investigating the tumor immune microenvironment in thoracic malignancies- lung cancer, mesothelioma, esophageal cancer, and lung metastasis	Adusumilli, Prasad, MD	Thoracic
16-1514	Modeling metastatic thoracic cancers using patient-derived organoids	Jones, David, MD	Thoracic
17-445	Identification of genomic signatures that predict tumor progression and response to therapy in Gastroesophageal adenocarcinoma	Sihag, Smita, MD	Thoracic
17-636	Immune Characterization of NSCLC following resection	Adusumilli, Prasad, MD	Thoracic
18-506	Study to evaluate perioperative circulating tumor DNA as a prognostic biomarker in patients undergoing neoadjuvant therapy for resectable non-small cell lung cancer.	Isbell, James, MD	Thoracic
19-044	Imaging of Esophageal Precancerous and Cancerous Tissue Samples with PARP Tracers	Molena, Daniela, MD	Thoracic
19-460	Assessment of Endogenous and CAR T-Cell Immunity Following Anti-PD-1 Agent as a Transition Step to Phase 2 Combination Immunotherapy	Adusumilli, Prasad, MD	Thoracic
12-001	In Vitro Culture and Establishment of Xenograft Models of Human Prostate Cancer	Carver, Brett, MD	Urology
12-237	Creation of Renal Cell Carcinoma Cell Lines, Xenograft models, and Bio-specimen Bank	Hakimi, Abraham, MD	Urology
13-218	Kidney Cancer DNA Registry	Coleman, Jonathan, MD	Urology
16-1619	Genomic characterization of lymph node metastases in bladder cancer	Cha, Eugene, MD	Urology
18-148	Carbohydrate Antigen 19.9 (CA 19.9) and Voltage gated Sodium Channels (NaV) Expression in Histological Prostate and Urinary Bladder Specimens	Goh, Alvin, MD	Urology
19-015	The MSKCC Bladder Oncogenome Living Biobank Project: Prospective Creation of Patient Derived Xenograft Models and Organoids	Pietzak, Eugene, MD	Urology
20-043	Characterizing and Targeting the Microenvironmental Barriers to Immunotherapeutic Response in Renal Cell Carcinoma	Hakimi, Abraham, MD	Urology
20-255	Mechanism-based Approach for Combination Therapies with Immune Modulation for Management of Patients with Urothelial Cancers of the Upper Urinary Tract	Coleman, Jonathan, MD	Urology
20-313	Discovery and Validation of Novel Gene Expression Signatures in Patients with Prostate Cancer and Upper Tract Urothelial Carcinoma using Tissue-based Gene Expression Classifier	Coleman, Jonathan, MD	Urology
20-319	Detection of Advanced Prostate Cancer in ISUP 1 Patients who are on Active Surveillance	Eastham, James, MD	Urology
20-404	Immunosurveillance of Chromophobe Renal Cell Carcinoma by Tumor-Resident Cytotoxic Innate Lymphocytes	Hakimi, Abraham, MD	Urology

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*Blue text indicates publications that were published in a journal with an impact factor equal to or greater than 10

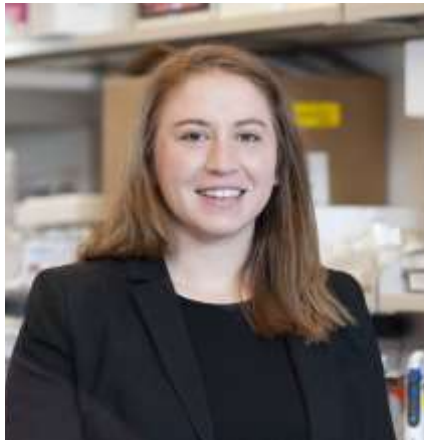
Conferences and Presentations

Service/Program	Type	Frequency	Day	Coordinator(s)
Breast	Research Conference	Monthly	Monday	George Plitas, MD, Rebecca Hanz Gonzalez
Colorectal	Fellows Presentation	Monthly	Monday	James Moreira, Rupa Sood
Dental	Research Meeting	Monthly	Friday	Roxanne Lewis
Global Cancer Disparities Program	Research Meeting with the MSK African Research Group in Oncology	Weekly	Thursday	Kate Randolph, Kemile Jackson
Hepatopancreatobiliary	Fellows Research Meeting	Biweekly	Thursday	Sharon Martin
Hepatopancreatobiliary	DMT Research Review Conference	Weekly	Thursday	Lucy Nystrom, Dana Haviland
Plastic and Reconstructive	Surgical Conference	Weekly	Monday	Shaneeza Imran
Plastic and Reconstructive	Research Meeting	Weekly	Thursday	Jonas Nelson, MD
Thoracic	Research Conference	Biweekly	Thursday	Prasad S. Adusumilli, MD, Summer Koop

Annual Report Compilation



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Deputy Chief and Attending, Thoracic Service;
Vice Chair for Translational Research



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Editor/ Grant Coordinator



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