Redefining Cancer
A revolution is underway
CIRCOS PLOTS
are used to represent and analyze data from the human genome.
In the 20th Century, scientists *thought* cancer was defined by where it occurred in the body.

In the 21st Century, scientists *know* cancer is defined by its genetic drivers.

It is no exaggeration to say this changes everything about cancer research.

**FOR NEARLY 70 YEARS, THE DAMON RUNYON CANCER RESEARCH FOUNDATION** has supported brilliant researchers committed to understanding the fundamental processes driving all cancers, not just one particular form of cancer. It has proven to be the right strategy. Damon Runyon scientists are leading a revolution in how we classify cancers, search for their Achilles’ heels, develop targeted drugs, and get the right treatments to patients.
DURING THE 20TH CENTURY, IT BECAME CLEAR THAT CANCER IS CAUSED WHEN genes in our cells go awry. Before the human genome was decoded, only a few of these genetic changes had been identified. Over the past 15 years, technological advances have revolutionized our ability to find the genetic mutations driving cancer. Now, scientists around the world are working together to characterize the many genetic alterations driving all forms of cancer.

Damon Runyon scientist Matthew L. Meyerson, MD, PhD, is a leader in this effort and spearheaded the Cancer Genome Atlas initiative. Often in partnership with other Damon Runyon scientists, he has contributed enormously to the library of known cancer-related genes.

2008
Reports results from the first Cancer Genome Atlas project, identifying three core genetic pathways implicated in glioblastoma and 12 implicated in pancreatic cancer

2010
Meyerson and an international team of scientists (including former Damon Runyon Clinical Investigators William R. Sellers, MD, and Scott A. Armstrong, MD, PhD) map the genomes of 26 different cancer types to find shared genetic aberrations and look for possibilities for common treatment
Finding the Appropriate Targets

**DISCOVERING NEW CANCER-ASSOCIATED GENETIC MUTATIONS IS ONLY THE**

first step. Once a genetic mutation is linked to cancer, researchers have to understand the effects this change has on the cell in order to find weaknesses in the cancer that can be targeted.

Thanks to the work of Damon Runyon scientists, these are just some of the genetic mutations that are being targeted by next-generation cancer therapies.

**HER2**

Overexpression of this oncogene promotes cell proliferation and is strongly associated with aggressive subtypes of cancer and increased disease recurrence.

**CURRENT DRUGS**

- Herceptin breast cancer, gastric cancer
- Kadcyla breast cancer
- Tykerb breast cancer (as a combination therapy)
- Perjeta breast cancer (as a combination therapy)

**IMPORTANT DAMON RUNYON CONTRIBUTORS**

- **H. Michael Shepard, PhD**
  Made instrumental contributions to the development of lifesaving breast cancer drug Herceptin
- **David F. Stern, PhD**
  Pioneered analysis of HER2 as an important human oncogene
- **Allan Lipton, MD**
  Developed assays to predict patient response to Herceptin treatment
**CURRENT DRUGS**

- **Tarceva**
  - lung cancer, pancreatic cancer

- **Erbitux**
  - colorectal cancer, head and neck cancer

- **Iressa**
  - lung cancer

- **Vektibix**
  - colorectal cancer

**IMPORTANT DAMON RUNYON CONTRIBUTORS**

- **William R. Sellers, MD, Matthew L. Meyerson, MD, PhD, and William C. Hahn, MD, PhD**
  - Identified EGFR mutations that correspond to response to Iressa and Tarceva

- **Nathanael S. Gray, PhD, Christine M. Lovly, MD, PhD, and Raffaella Sordella, PhD**
  - Addressed patient resistance to drugs targeting EGFR

- **John Mendelsohn, MD**
  - Developed Erbitux

**ALK**

ALK can cause cancer by inappropriately fusing with another gene. This “fusion gene” is responsible for approximately 3-5% of non-small cell lung cancer (NSCLC).

**CURRENT DRUGS**

- **Zelboraf**
  - late-stage melanoma

- **Tafinlar**
  - late-stage melanoma

**IMPORTANT DAMON RUNYON CONTRIBUTORS**

- **Grant A. McArthur, PhD**
  - Led clinical trials of the drug that would become Zelboraf

- **Matthew L. Meyerson, MD, PhD**
  - Linked BRAF mutations to multiple myeloma

- **Marcia S. Brose, MD, PhD**
  - Linked BRAF mutations to thyroid cancer

**ALK**

ALK can cause cancer by inappropriately fusing with another gene. This “fusion gene” is responsible for approximately 3-5% of non-small cell lung cancer (NSCLC).

**CURRENT DRUGS**

- **Xalkori**
  - non-small cell lung cancer

- **Zykadia**
  - non-small cell lung cancer

**IMPORTANT DAMON RUNYON CONTRIBUTORS**

- **Alice Tsang Shaw, MD, PhD**
  - Pioneered targeted therapies for non-small cell lung cancer, including Xalkori/crizotinib and Zykadia/ceritinib (both FDA Breakthrough Therapies)

- **Mark A. Lemmon, PhD**
  - Demonstrated that some neuroblastoma patients respond to FDA-approved drug Xalkori

**EGFR**

Overexpression or constant activation of this pathway produces uncontrolled cell division and is associated with a number of cancers.
RESEARCHERS ACROSS MANY DISCIPLINES CONTRIBUTE TO THE ADVANCEMENT of new cancer treatments. Chemists are critical players, developing compounds that can precisely target the Achilles’ heels within cancer cells. They are also key to addressing the resistance some patients develop to cancer drugs. Damon Runyon funds some of the most innovative chemists in the nation, like former Damon Runyon-Rachleff Innovator Nathanael S. Gray, PhD.

Developing Specially Targeted Drugs
“The Damon Runyon award allowed me to explore the potential for developing new classes of inhibitor drugs. I would likely not have been able to fund this work through traditional mechanisms.”

—NATHANAEI S. GRAY, PhD

**IN 2008, DANA-FARBER CANCER INSTITUTE** researcher Nathanael S. Gray, PhD, was selected to receive one of the first Damon Runyon-Rachleff Innovation Awards, given to young talent with breakthrough ideas.

As an Innovator, Nathanael zeroed in on a protein called the epidermal growth factor receptor (EGFR), which promotes cell growth and contributes to cancer spread. Lung cancer patients were already being treated with new cancer drugs that targeted the EGFR pathway, but many patients eventually developed resistance, leaving them with little recourse.

Nathanael led a team of colleagues in searching for a compound that would target this protein even more precisely, offering new hope to patients whose cancer had developed resistance. They identified the compound WZ4002, which seeks out EGFR and blocks the signals that tell cancer cells to grow while leaving healthy cells completely alone. The drug is now in trials for treating resistant lung cancer.

Nathanael and other Damon Runyon scientists are setting a standard for new drug development for researchers around the world to follow.
Getting the Right Drugs to Patients

As a cancer researcher and practicing dermatologist at Stanford University, Jean was particularly interested in basal cell carcinoma (BCC), the most common form of skin cancer. In certain patients, genetic errors can trigger a syndrome causing hundreds to thousands of tumors to grow uncontrollably over the body.

Knowing that patients with this form of BCC have genetic mutations in the Hedgehog cell signaling pathway, Jean and her colleagues embarked on a clinical trial of vismodegib, a new compound that blocks the misbehaving genes.

Jean saw dramatic results in her patients right away. Tumors shrank from visit to visit, disappearing completely in some cases. The drug was so overwhelmingly safe and effective that in 2012 the FDA stopped the trial early in order to rush the approval process for the drug, now considered a landmark cancer breakthrough.
Clinical trials are also undergoing a revolution. New “basket” or “bucket” trials are able to target patients across multiple cancer types based on the genetic profiles of their cancer, accelerating the pace of approval and maximizing the number of patients who benefit.

**Conventional vs. Basket Clinical Trials**

<table>
<thead>
<tr>
<th><strong>Conventional Trials</strong></th>
<th><strong>Basket Trials</strong></th>
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<tbody>
<tr>
<td><strong>How are participants selected?</strong></td>
<td>Trial participants are chosen on the basis of specific genetic characteristics and organized into further subgroups, allowing researchers to study the effect of a drug or treatment on multiple cancer types and stages of disease, all at once.</td>
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<td></td>
<td>They are traditionally grouped by the location of their cancer or stage of the disease.</td>
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<tr>
<td><strong>How flexible is the trial’s design?</strong></td>
<td>Trials grouped by genetics are much more nimble, able to be adjusted while the trial is still running as new data or insights arise.</td>
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<td></td>
<td>As new or surprising information arises, conventional trials must often be paused in order to make adjustments.</td>
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<tr>
<td><strong>How quickly will new treatments reach patients?</strong></td>
<td>Since a new treatment can be tested across multiple groups of patients at the same time, it can be approved for treatment of more than one cancer in just one trial.</td>
</tr>
<tr>
<td></td>
<td>Even after a new drug is approved for treatment of one type of cancer, it will have to go through additional trials before being approved to treat other cancers with the same genetic drivers.</td>
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</table>
REDEFINING CANCER ON THE BASIS OF GENETICS IS NOTHING SHORT OF A REVOLUTION FOR PATIENTS.

Progress in each step of the way, from identifying genetic mutations to designing better clinical trials, has come thanks to the vision of extraordinary scientists capable of looking past the last century’s understanding of cancer to make breakthroughs that fundamentally rewrite our approach to the disease. Damon Runyon seeks out those unique individuals early on and fosters their innovative spirit.

Thanks to Damon Runyon, these scientists have redefined cancer and opened up sweeping new possibilities for cures.
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Damon Runyon Award Programs

Damon Runyon-Rachleff Innovation Award
Supports the next generation of exceptionally creative thinkers with high-risk, high-reward ideas that have the potential to significantly impact our understanding of and approaches to the prevention, diagnosis or treatment of cancer.

**TWO-YEAR AWARD:**
$300,000, with possibility of extension of an additional $300,000

Damon Runyon Clinical Investigator Award
Supports early career physician-scientists conducting patient-oriented research. The goal of this innovative program is to increase the number of physicians capable of moving seamlessly between the laboratory and the patient’s bedside in search of breakthrough treatments.

**THREE-YEAR AWARD:**
$450,000 plus up to $100,000 for medical school loan repayment

Damon Runyon Clinical Investigator Continuation Grant
Supports Damon Runyon Clinical Investigators who are approaching the end of their original three-year awards and need extra time and funding to complete a promising avenue of research or initiate/continue a clinical trial.

**TWO-YEAR AWARD:**
$300,000

Damon Runyon Fellowship Award
Supports the training of the brightest postdoctoral scientists as they embark upon their research careers. This funding enables them to be mentored by established investigators in leading research laboratories across the country.

**FOUR-YEAR AWARD:**
Basic Scientists: $208,000
Physician-Scientists: $248,000

Damon Runyon-Sohn Pediatric Cancer Fellowship Award
Supports dedicated basic scientists and clinicians who conduct research with the potential to significantly impact the prevention, diagnosis or treatment of one or more pediatric cancers.

**FOUR-YEAR AWARD:**
Basic Scientists: $208,000
Physician-Scientists: $248,000

Damon Runyon-Dale F. Frey Award for Breakthrough Scientists
Supports a select few Damon Runyon Fellows who have greatly exceeded the Foundation’s highest expectations. This additional investment in these exceptional individuals will help catapult their research careers and their impact on cancer.

**TWO-YEAR AWARD:**
$100,000

Damon Runyon Physician-Scientist Training Award
Supports and encourages outstanding recent medical school graduates to pursue cancer research careers by providing them with the opportunity for a protected research training experience under the mentorship of a highly qualified and gifted mentor.

**FOUR-YEAR AWARD:**
$460,000 plus up to $100,000 for medical school loan repayment

Damon Runyon Cancer Research Foundation
“The funding I have received from Damon Runyon has been absolutely invaluable to my work.”

ARUN P. WIITA, MD, PhD
Dale F. Frey Breakthrough Scientist

Loretta S. Li, MD
Damon Runyon Physician-Scientist

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NICHOLAS T. INGOLIA, PhD*
“Cis-regulatory code for the translational control of gene expression” at the University of California, Berkeley

MICHAEL Z. LIN, MD, PhD
“Building the magic bullet: protein switches for sensing oncogenic signals and executing therapeutic programs” at Stanford University School of Medicine, Stanford

GUILLEMM PRATX, PhD*
“Adding a new dimension to flow cytometry: radionuclide-activated cell sorting” at Stanford University School of Medicine, Stanford

ELÇIN ÜNAL, PhD*
“Reducing cancer susceptibility by attenuating cellular aging” at the University of California, Berkeley

ILLINOIS

SARAH (SADIE) M. WIGNALL, PhD
Lau/Palihapitiya Innovator
“Probing centrosome-clustering mechanisms to identify targets for new cancer therapies” at Northwestern University, Evanston

MARYLAND

CHRISTOPHER M. JEWELL, PhD*
“Harnessing intra-lymph node controlled release to study and enhance tumor immunity” at the University of Maryland, College Park

MASSACHUSETTS

EMILY P. BALSKU, PhD
“Understanding and preventing carcinogenesis caused by the human microbiota” at Harvard University, Cambridge

BRADLEY L. PENTELUTE, PhD
“Striking cancer with intracellular antibodies” at Massachusetts Institute of Technology, Cambridge

NEW YORK

ARVIN C. DAR, PhD
“Targeting allosteric control in the Ras-MAPK pathway for cancer therapy” at the Icahn School of Medicine at Mount Sinai, New York

MORITZ F. KIRCHER, MD, PhD
“Raman-MRI nanobeacons: towards a universal cancer theranostic agent” at Memorial Sloan Kettering Cancer Center, New York

CHRISTINE MAYR, MD, PhD
Island Outreach
Foundation Innovator
“A functional atlas of lymphoma specific aberrations generated by RNA processing” at Memorial Sloan Kettering Cancer Center, New York

WASHINGTON

BRIAN H. SHIRTS, MD, PhD*
“Participatory genetics for defining genotype-phenotype associations of rare cancer variants” at the University of Washington, Seattle

OREGON

SUMMER L. GIBBS, PhD
AND XIAOLIN NAN, PhD
“Studying spatial regulation of HER2 tumorigenesis with multispectral super resolution microscopy (MSSRM)” at the Oregon Health and Science University, Portland

TEXAS

NING JENNY JIANG, PhD*
“A single cell integrated system to dissecting cancer immunoediting in humans” at The University of Texas, Austin

NICHOLAS E. NAVIN, PhD
Nadia’s Gift Foundation Innovator
“Developing single-cell sequencing methods to investigate metastatic seeding in breast cancer” at M.D. Anderson Cancer Center, Houston

UTAH

TRUDY G. OLIVER, PhD
“Mechanisms of drug resistance in small cell lung cancer” at the University of Utah, Salt Lake City

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**ARASH ASH ALIZADEH, MD, PhD**
“Targeting the malignant reprogramming of early hematopoietic progenitors to mature aggressive human B-cell lymphomas” with Ronald Levy, MD, Stanford University School of Medicine, Stanford

**L. ELIZABETH BUDDE, MD, PhD**
Jake Wetchler Foundation for Innovative Pediatric Cancer Research Clinical Investigator
“Targeting CD123 using chimeric antigen receptor T cells for treatment of acute myeloid leukemia” with Stephen J. Forman, MD, FACP, City of Hope, Duarte

**PAUL C. TUMEH, MD**
“Determining the role of aberrant growth factor signaling in maintaining disease-propagating cells and mediating JAK2 inhibitor resistance in myeloproliferative neoplasms” with Benjamin L. Ebert, MD, and Daniel J. DeAngelos, MD, PhD, Brigham and Women’s Hospital, Boston

**ELIEZER M. VAN ALLEN, MD**
“Dissecting response to conventional and emerging DNA damage and repair therapies” with Levi A. Garraway, MD, PhD, and Philip Kantoff, MD, Dana-Farber Cancer Institute, Boston

### FLORIDA

**MARCO L. DAVILA, MD, PhD**
“The development and clinical translation of an armored CAR T cell therapy for immune-resistant B cell malignancies” with Claudio Anasetti, MD, Moffitt Cancer Center, Tampa and Michel Sadelain, MD, PhD, Memorial Sloan Kettering Cancer Center, New York

### MASSACHUSETTS

**PRISCILLA K. BRASTIANOS, MD**
“Investigation of novel targeted therapeutic approaches for brain metastases” with Keith T. Flaherty, MD, and Tracy T. Batchelor, MD, Massachusetts General Hospital, Boston

**ALEJANDRO GUTIERREZ, MD**
“Mechanisms and therapeutic targeting of EZH2-dependent chemoresistance in T-ALL” with Stuart H. Orkin, MD, and Anthony G. Letai, MD, PhD, Boston Children’s Hospital, Boston

**PETER S. HAMMERMAN, MD, PhD**
“Development of personalized cancer immunotherapy” with Kwok-Kin Wong, MD, PhD, F. Stephen Hodi, Jr., MD, and Glenn Dranoff, MD, Dana-Farber Cancer Institute, Boston

### MISSOURI

**STEPHEN T. OH, MD, PhD**
“Targeting aberrant signaling pathways in myeloproliferative neoplasms” with Daniel C. Link, MD, Washington University, St. Louis

### NEW YORK

**OMAR ABDEL-WAHAB, MD**
Edward P. Evans Foundation Clinical Investigator
“Understanding and targeting altered histone modifiers in the myeloid malignancies” with Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

**HIMISHA BELTRAN, MD**
Gordon Family Clinical Investigator
“Utilizing genome sequencing to elucidate mechanisms of resistance in advanced prostate cancer” with Mark A. Rubin, MD, Weill Medical College of Cornell University, New York

**JOSHUA BRODY, MD**
“Fit3L-primed ‘in situ’ vaccination for low-grade lymphoma-phase I/II study of intratumoral injection of rhuFit3L and poly-ICLC with low-dose radiotherapy [NCT01976585]” with Nina Bhardwaj, MD, PhD, and Miriam Merad, MD, PhD, Mount Sinai Hospital, New York

### TENNESSEE

**CHRISTINE M. LOVLY, MD, PhD**
“Developing novel therapeutic strategies for ALK-fusion positive lung cancer” with Pierre P. Massion, MD, Vanderbilt University, Nashville and David A. Carbone, MD, The Ohio State University, Columbus

### TEXAS

**DEEPAK NIJHAWAN, MD, PhD**
“Using chemistry to identify new targets in lung cancer” with Steve L. McKnight, PhD, and David H. Johnson, MD, University of Texas Southwestern Medical Center, Dallas

### WASHINGTON

**CAMERON J. TURTLE, MD, PhD**
“The impact of the colonic microbiota on reconstitution of CD161hi cells and clinical outcomes after allogeneic hematopoietic stem cell transplantation” with Stanley R. Riddell, MD, Fred Hutchinson Cancer Research Center, Seattle

**AUDE G. CHAPUIS, MD**
“To specify the requirements of CD8+ and CD4+ T cells for successful adoptive transfer in solid tumors” with Philip D. Greenberg, MD, Fred Hutchinson Cancer Research Center, Seattle

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JEAN Y. TANG, MD, PhD
“Mechanisms of acquired resistance to Hedgehog pathway inhibitors in basal cell carcinomas” with Philip A. Beachy, PhD, and Ervin H. Epstein, MD, Stanford University, Stanford

**MASSACHUSETTS**

RYAN B. CORCORAN, MD, PhD
“Defining novel targeted therapy combination strategies for BRAF V600 mutant colorectal cancer” with Jeffrey A. Engelman, MD, PhD, and Keith T. Flaherty, MD, Massachusetts General Hospital, Charlestown

**NEW YORK**

SARAT CHANDARLAPATY, MD, PhD
Patterson Trust Clinical Investigator
“Therapeutic approaches to PI3K-AKT-mTOR feedback pathways in breast cancer” with Neal Rosen, MD, PhD, and Clifford A. Hudis, MD, Memorial Sloan Kettering Cancer Center, New York

ZSOFIA K. STADLER, MD
“Genomic assessment of de novo germline cancer susceptibility in pediatric malignancies” with Kenneth Offit, MD, MPH, and Michael H. Wigler, PhD, Memorial Sloan Kettering Cancer Center, New York

**NORTH CAROLINA**

OREN J. BEЧER, MD
“Regional differences in central nervous system gliomagenesis” with Darell D. Bigner, MD, Katherine E. Warren, MD, and Michael B. Kastan, MD, Duke University, Durham

**WASHINGTON**

MARIE BLEAKLEY, MD, PhD
Richard Lumsden Foundation Investigator
“Segregating the GVL effect from GVHD in humans” with Stanley R. Riddell, MD, Fred Hutchinson Cancer Research Center, Seattle

Damon Runyon Fellowship Award Committee

**CHAIR**

ALEX L. KOLODKIN, PhD
Howard Hughes Medical Institute Investigator
Professor
The Solomon H. Snyder Department of Neuroscience
Johns Hopkins University School of Medicine
Baltimore, Maryland

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Howard Hughes Medical Institute Investigator
Professor
The Jackson Laboratory
Bar Harbor, Maine

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Director, Science Park
Director, Center for Cancer Epigenetics
The University of Texas M.D. Anderson Cancer Center
Smithville, Texas

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Associate Professor of Pediatrics and Pathology
Director, WOLF Foundation Leukemia/Lymphoma Laboratory
Institute for Cancer Genetics
Columbia University Medical Center
New York, New York

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Department of Medicine
Section of Hematology and Oncology
The University of Chicago Medicine
Chicago, Illinois

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Director, Cancer Genetics
Beth Israel Deaconess Medical Center
Associate Professor of Medicine
Harvard Medical School
Boston, Massachusetts

CHRISTINA LESLIE, PhD
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Computational Biology Program
Memorial Sloan Kettering Cancer Center
New York, New York

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Director, Johns Hopkins Drug Library
Professor of Pharmacology and Molecular Sciences
Johns Hopkins University School of Medicine
Baltimore, Maryland

ERIK A. LUNDQUIST, PhD
Professor, Department of Molecular Bionformatics
University of Kansas
Lawrence, Kansas

TERRY MAGNUSON, PhD
Sarah Graham Kenan Professor and Chair
Department of Genetics
Program Director, Cancer Genetics
Lineberger Comprehensive Cancer Center
University of North Carolina School of Medicine
Chapel Hill, North Carolina
Damon Runyon Fellowship Award Committee (continued)

MICHAEL T. MCMANUS, PhD
Professor, Department of Microbiology and Immunology
Diabetes Center
University of California, San Francisco
San Francisco, California

TOBIAS MEYER, PhD
Chair, Department of Chemical and Systems Biology
Mrs. George A. Winzer Professor in Cell Biology
Stanford University School of Medicine
Stanford, California

DENISE J. MONTELL, PhD
Duggan Professor of Molecular, Cellular and Developmental Biology
University of California, Santa Barbara
Santa Barbara, California

PHILIP A. NEWMARK, PhD
Howard Hughes Medical Institute Investigator
Professor of Cell and Developmental Biology
University of Illinois Urbana, Illinois

CLODAGH O’SHEA, PhD
Associate Professor
Molecular and Cell Biology Laboratory
William Scandling Developmental Chair
Salk Institute for Biological Studies
La Jolla, California

ELAINE A. OSTRANDER, PhD*
Chief and NIH Distinguished Investigator
Cancer Genetics and Comparative Genomics Branch Head, Comparative Genetics Section
National Human Genome Research Institute
National Institutes of Health
Bethesda, Maryland
*Dr. Ostrander is serving in her personal capacity.

ALEXANDER RUDENSKY, PhD
Howard Hughes Medical Institute Investigator
Chair, Immunology Program
Memorial Sloan Kettering Cancer Center
New York, New York

JULIEN SAGE, PhD
Associate Professor, Department of Pediatrics and Genetics
Stanford University School of Medicine
Stanford, California

PHILIPPE M. SORIANO, PhD
Professor of Developmental and Regenerative Biology
Professor of Oncological Sciences
Icahn School of Medicine at Mount Sinai
New York, New York

SOHAIL TAVAZOIE, MD, PhD
Leon Hess Associate Professor Head, Elizabeth and Vincent Meyer Laboratory of Systems Cancer Biology
The Rockefeller University
New York, New York

HONGTAO YU, PhD
Howard Hughes Medical Institute Investigator
Professor, Department of Pharmacology
The University of Texas Southwestern Medical Center
Dallas, Texas

CALIFORNIA

BRITTANY ADAMSON, PhD
HHMI Fellow
“Comprehensive characterization of the integrated networks that regulate protein homeostasis within the mammalian endoplasmic reticulum” with Jonathan S. Weissman, PhD, University of California, San Francisco

LIRON BAR-PELED, PhD
Lallage Feazel Wall Fellow
“Identification of cysteine liabilities in NRF2-driven cancers” with Benjamin F. Cravatt, PhD, Scripps Research Institute, La Jolla

CHRISTOPHER J. BOHLEN, PhD
“Gliarial activation in neuropathic injury and pain” with Ben A. Barres, MD, PhD, Stanford University School of Medicine, Stanford

ANUPAM K. CHAKRAVARTY, PhD*
HHMI Fellow
“In vivo and in vitro characterization of cohesin-DNA interaction” with Douglas E. Koshland, PhD, University of California, Berkeley

GAMZE Ö. ÇAMDERE, PhD
“Molecular dynamics of the G1/S transition” with Tobias Meyer, PhD, Stanford University School of Medicine, Stanford

ANUDEEP K. CHAKRAVARTY, PhD
“Investigating the phenomenon of epigenetic inheritance mediated by non-amyloid protein aggregates” with Daniel F. Jarosz, PhD, Stanford University School of Medicine, Stanford

TRACY T. CHOW, PhD
“Investigating and engineering non-canonical telomere maintenance mechanisms in human cells” with Elizabeth H. Blackburn, PhD, University of California, San Francisco

MICHAEL A. CIANFROCCO, PhD
HHMI Fellow
“How does dynein achieve processivity?” with Andres Leschziner, PhD, and Samara L. Reck-Peterson, PhD, University of California, San Diego

ELIE J. DINER, PhD
“Transcription of an expanded genetic alphabet in a semi-synthetic bacterium” with Floyd Romesberg, PhD, Scripps Research Institute, La Jolla

JUSTIN M. CREST, PhD
“Cells, ECM, and the mechanical forces that regulate organ shape” with David Bilder, PhD, University of California, Berkeley

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ALBA DIZ MUÑOZ, PhD
“How neutrophils convert changes in membrane tension to changes in intracellular signaling during chemotaxis” with Orion D. Weiner, PhD, and Daniel A. Fletcher, PhD, University of California, San Francisco

DAMIAN C. EKIERT, PhD
“Exploring the role of a novel, polymorphic protein family in M. tuberculosis pathogenesis” with Jeffery S. Cox, PhD, University of California, San Francisco

MARY W. ELTING, PhD
“Probing how kinetochore-fibers anchor to spindles to robustly and accurately segregate chromosomes” with Sophie Dumont, PhD, University of California, San Francisco

MINGYE FENG, PhD
“Macrophage-mediated immunosurveillance in metastasis” with Irving L. Weissman, MD, Stanford University School of Medicine, Stanford

ARI J. FIRESTONE, PhD
“Investigation of Acyl Protein Thioesterase 1 and 2 as potential therapeutic targets in NRAS driven leukemias” with Kevin M. Shannon, MD, University of California, San Francisco

CASEY A. GIFFORD, PhD
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“Dissecting the role of pioneer transcription factors in cancer progression” with Deepak Srivastava, MD, Gladstone Institutes, San Francisco

KAREN I. HILGENDORF, PhD
Layton Family Fellow
“Role of ciliary IGF-1/AKT signaling in cilogenesis, adipogenesis, and tissue regeneration” with Peter K. Jackson, PhD, Stanford University School of Medicine, Stanford

QI HU, PhD*
“Design of inhibitors of cancer-associated mutant GNAS” with Kevan M. Shokat, PhD, University of California, San Francisco

ANKUR JAIN, PhD
“Formation and function of mRNA processing bodies” with Ronald D. Vale, PhD, University of California, San Francisco

FUGUO JIANG, PhD
Merck Fellow
“Molecular mechanisms of guide RNA: target dsDNA binding and PAM recognition by CRISPR-Cas9” with Jennifer A. Doudna, PhD, University of California, Berkeley

JOHN J. KARIJOLICH, PhD
“Characterizing mechanisms by which Kaposi sarcoma-associated herpesvirus modulates cellular gene expression” with Britt A. Glaunsinger, PhD, University of California, Berkeley

JESSICA P. LAO, PhD
“Identifying metabolic targets of the DNA damage checkpoint” with David P. Toczyski, PhD, Stanford University School of Medicine, Stanford

KATHRIN LEPPEK, PhD*
Layton Family Fellow
“Mechanistic characterization of 5’UTR RNA elements that confer translational specificity to shape vertebrate embryonic development” with Maria Barna, PhD, Stanford University School of Medicine, Stanford

STEVEN LIN, PhD
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“Bioc hemical characterizations and optimization of CRISPR/Cas9 for genome engineering” with Jennifer A. Doudna, PhD, University of California, Berkeley

YIN LIU, PhD
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“Sensing lung tumors by pulmonary sensory neurons” with Mark A. Krasnow, MD, PhD, Stanford University School of Medicine, Stanford

WENYU LUO, PhD
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GABRIE LA C. MONSALVE, PhD
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“Identification and characterization of plasma membrane transporters for glucocorticoids” with Keith R. Yamamoto, PhD, University of California, San Francisco

MANDY M. MULLER, PhD
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“Widespread RNA destruction and selective preservation during viral infection” with Britt Glaunsinger, PhD, University of California, Berkeley

LYNSAY M. MURROW, PhD
“Fate specification of mammary stem cells by cell self-sorting” with Zey J. Gartner, PhD, University of California, San Francisco

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“Dissecting the mechanism of selective diffusion into the primary cilium” with Maxence V. Nachury, PhD, Stanford University School of Medicine, Stanford

DUY P. NGUYEN, PhD
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EVGENIA N. NIHOLEVA, PhD
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“Recognition of methylated and specific DNA sequences by the zinc finger transcriptional repressor Kaiso and modulation by other nuclear factors” with Peter E. Wright, PhD, Scripps Research Institute, La Jolla

THOMAS M. NORMAN, PhD
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DOUGLAS H. PHANSTIEL, PhD
“Exploring the regulatory role of long-range chromatin interactions” with Michael P. Snyder, PhD, Stanford University School of Medicine, Stanford

Damon Runyon Fellowship Awards (continued)
Medicine, Stanford

BEVERLY J. PIGGOTT, PhD
Lefkofsky Family Fellow
“Brain tumor suppression by mutation(s) of the voltage-gated sodium channel Para” with Yuh-Nung Jan, PhD, University of California, San Francisco

ALEX POLLEN, PhD
“Regulation of proliferation, migration and angiogenesis by genes uniquely expressed in human neural stem cells” with Arnold R. Kriegstein, MD, PhD, University of California, San Francisco

MAGDALENA E. POTOK, PhD*
HHMI Fellow
“The relationship between epigenetic gene silencing, nuclear architecture, and genome stability” with Steven E. Jacobsen, PhD, University of California, Los Angeles

LISA R. RACKI, PhD
“Polyphosphates and stationary phase survival” with Dianne K. Newman, PhD, California Institute of Technology, Pasadena

JOSEPH D. SCHONHOFT, PhD*
Merck Fellow
“Probing the relation between sequence, aggregation and proteotoxicity in cardiac amyloidoses caused by free antibody light chains” with Jeffery W. Kelly, PhD, Scripps Research Institute, La Jolla

NEEL H. SHAH, PhD
“Interrogating ZAP-70 substrate recognition using high-throughput mutant screening” with John Kuriyan, PhD, University of California, Berkeley

ERIN F. SIMONDS, PhD
“Single-cell analysis and targeting of signaling networks in glioblastoma tumor-initiating cells” with William A. Weiss, MD, PhD, University of California, San Francisco

ROHITH K. SRIVAS, PhD
“Longitudinal profiling of host-microbiome interactions in obese patients during drastic weight loss” with Michael P. Snyder, PhD, Stanford University School of Medicine, Stanford

LORA B. SWEENEY, PhD
“Spinal circuit remodeling during developmental transitions in motor behavioral strategy” with Christopher R. Kintner, PhD, and Thomas M. Jessell, PhD, Salk Institute, La Jolla

DAVID W. TAYLOR, PhD*
“Structures of the RNA-targeting CRISPR-Cas complex Cmr” with Eva Nogales, PhD, University of California, Berkeley

ERIC L. VAN NOSTRAND, PhD
Merck Fellow
“Identification and analysis of functionally relevant RNA binding protein regulatory networks in medulloblastoma” with Eugene Yeo, PhD, University of California, San Diego, La Jolla

JEANINE L. VAN NOSTRAND, PhD*
“Elucidating the AMPK-dependent regulation of mTOR signaling in the metabolic checkpoint of tumorigenesis” with Reuben J. Shaw, PhD, Salk Institute, La Jolla

JAKOB VON MOLTKE, PhD
HHMI Fellow
“Innate type II cells and wound healing” with Richard Locksley, MD, University of California, San Francisco

VICTORIA E. WANG, MD, PhD*
“The role of the c-Met/ Hepatocyte growth factor (HGF) pathway in drug resistance and tumor metastasis” with Frank McCormick, PhD, University of California, San Francisco

YANLING WANG, PhD
Robert Black Fellow
“Diversity generating retroelement-mediated surface-protein display in Bacteroides fragilis and its roles in host-microbe interactions” with Jeffery F. Miller, PhD, University of California, Los Angeles

ARUN P. WIITA, MD, PhD
“Novel biomarker discovery for monitoring chemotherapeutic efficacy” with James A. Wells, PhD, University of California, San Francisco

COLORADO

JENS C. SCHMIDT, PhD
Merck Fellow
“Single-molecule analysis of telomerase recruitment to telomeress” with Thomas R. Cech, PhD, University of Colorado, Boulder

ILLINOIS

MELANIE ISSIGONIS, PhD
“Germ cell specification from somatic stem cells in planarians” with Philip A. Newmark, PhD, University of Illinois, Urbana

SIGNAL NACHTERGAELE, PhD*
“Regulation of METTL3-METTL14-mediated N6-methyladenosine modification of mRNA” with Chuan He, PhD, The University of Chicago, Chicago

MARYLAND

DANFENG CAI, PhD*
“Protein crowding and protein folding landscapes as predictors of healthy and diseased cell states” with Jennifer Lippincott-Schwartz, PhD, National Institutes of Health, Bethesda

CHIH-YUNG LEE, PhD
HHMI Fellow
“Regulation of primordial germ cell fate in Caenorhabditis elegans” with Geraldine Seydoux, PhD, Johns Hopkins University, Baltimore

HANJING PENG, PhD
“Targeting the proteasome using a hybrid, combinatorial rapafusin library” with Jun Q. Liu, PhD, Johns Hopkins University, Baltimore

DANIEL E. WEBSTER, PhD
Philip O’Bryan Montgomery, Jr, MD, Fellow
“Identification and analysis of LncRNAs regulating diffuse large B cell lymphoma” with Louis M. Stautt, MD, PhD, National Cancer Institute, Bethesda
Damon Runyon Fellowship Awards (continued)

**MASSACHUSETTS**

RYAN D. BALDRIDGE, PhD
Fraternal Order of Eagles Fellow
“Investigating the mechanism of retro-translocation by ERAD” with Thomas A. Rapaport, PhD, Harvard Medical School, Boston

ALISTAIR N. BOETTIGER, PhD
“Using super resolution imaging to probe molecular mechanisms of Polycomb silencing” with Xiaowei Zhuang, PhD, Harvard University, Cambridge

CAITLIN A. BRENNAN, PhD
Dennis and Marsha Dameron Fellow
“Mechanisms underlying Fusobacterium nucleatum-driven colorectal cancer” with Wendy S. Garrett, MD, PhD, Harvard T.H. Chan School of Public Health, Boston

DENNIS L. BUCKLEY, PhD
Merck Fellow
“Development of selective brodomain inhibitors from dual brodomain-kinase inhibitors for the treatment of neuroblastoma” with James E. Bradner, MD, Dana-Farber Cancer Institute, Boston

GINA V. CALDAS, PhD*
“Analysis of CSR- function in Caenorhabditis elegans embryonic cell division” with Craig C. Mello, PhD, University of Massachusetts Medical School, Worcester

SIDI CHEN, PhD
“Ignition of Dicer as a novel therapeutic route towards the inhibition of tumorigenesis and neoplastic growth” with Phillip A. Sharp, PhD, Massachusetts Institute of Technology, Cambridge

WENWEN FANG, PhD
HHMI Fellow
“Mechanism and regulation of primary-microRNA processing” with David P. Bartel, PhD, Whitehead Institute for Biomedical Research, Cambridge

JUNJIE U. GUO, PhD
“Charting the in vivo landscape of RNA-RNA interactions” with David P. Bartel, PhD, Whitehead Institute for Biomedical Research, Cambridge

LI HE, PhD
“Molecular characterization of cell competition and compensatory cell proliferation in Drosophila” with Norbert Perrimon, PhD, Harvard Medical School, Boston

AVINASH KHANNA, PhD
Rebecca Ridley Kry Fellow
“Disrupting the protein-protein interactions of CDK8 to target cancer” with Matthew D. Shair, PhD, Harvard University, Cambridge

SERKAN KIR, PhD
Robert Black Fellow
“Identification of factors that induce brown fat activity in cancer cachexia” with Bruce M. Spiegelman, PhD, Dana-Farber Cancer Institute, Boston

ALLISON N. LAU, PhD*
“Understanding metabolic heterogeneity in pancreatic cancer” with Matthew G. Vander Heiden, MD, PhD, Massachusetts Institute of Technology, Cambridge

XIAOXIAO S. LIU, PhD
“The role of Tet proteins in pancreatic cancer” with Rudolf Jaenisch, MD, Whitehead Institute for Biomedical Research, Cambridge

KAI MAO, PhD*
“Mechanisms of xenobiotic surveillance and regulation” with Gary Ruvkun, PhD, Massachusetts General Hospital, Boston

TIMOTHY D. MARTIN, PhD
Marion Abbe Fellow
“Investigating the role of aneuploidy and haploinsufficiency in driving tumorigenesis” with Stephen J. Elledge, PhD, Brigham and Women’s Hospital, Boston

KARL A. MERRICK, PhD
“Elucidating how inflammation affects tumorigenesis and response to chemotherapy in colon cancer” with Michael B. Yaffe, MD, PhD, Massachusetts Institute of Technology, Cambridge

MARIA M. MIHAYLOVA, PhD
Robert Black Fellow
“Examining how nutrient state dependent metabolic reprogramming in adult stem cell niches controls cell renewal, differentiation and tumorigenesis” with David M. Sabatini, MD, PhD, Whitehead Institute for Biomedical Research, Cambridge

RENEE OTTEN, PhD
“Mechanism of kinases at atomic resolution” with Dorothee Kern, PhD, Brandeis University, Waltham

MICHAEL E. PACOLD, MD, PhD*
Sally Gordon Fellow
“Targeting dehydrogenases in cancer metabolism” with David M. Sabatini, MD, PhD, and Nathanael S. Gray, PhD, Whitehead Institute for Biomedical Research, Cambridge

LAURA PONTANO VAITES, PhD
“Investigating the role of the CRL3-KBTBD6/7 E3 ubiquitin ligase in autophagosome maturation” with J. Wade Harper, PhD, Harvard Medical School, Boston

CHRISTOPHER J. SHOEMAKER, PhD
“Elucidating the molecular mechanics of autophagy using a cell-free system” with Vlad Denic, PhD, and Andrew W. Murray, PhD, Harvard University, Cambridge

MICHAEL J. SMANSKI, PhD
“Refactoring the genetics of magnetic nanoparticle synthesis” with Christopher A. Voigt, PhD, Massachusetts Institute of Technology, Cambridge

JUSTIN LEE SPARKS, PhD*
“Replicative helicase bypass of bulky DNA adducts?” with Johannes C. Walter, PhD, Harvard Medical School, Boston
SUNGWOOK WOO, PhD
HHMI Fellow
“Crystal-free crystallography using programmable 3D DNA crystal frameworks” with Peng Yin, PhD, Harvard University, Boston

OZLEM YILDIRIM, PhD
HHMI Fellow
“Role of LncRNAs in inheritance of chromatin states during self-renewal and differentiation” with Robert E. Kingston, PhD, Massachusetts General Hospital, Boston

MICHAEL M. HUGHES, PhD*
Langone Fellow
“Chromatin modifications and pioneer transcription factors in development” with Alexander F. Schier, PhD, Harvard University, Cambridge

CHENXI TIAN, PhD
Sherry and Alan Leventhal Family Fellow
“Understanding the roles of extracellular matrix proteins in pancreatic ductal adenocarcinoma progression” with Richard Q. Hynes, PhD, Massachusetts Institute of Technology, Cambridge

THOMAS S. VIERBUCHEN, PhD
HHMI Fellow
“Understanding the developmental programming and function of the enhancers that control activity-regulated transcription in the mammalian cortex” with Michael E. Greenberg, PhD, Harvard Medical School, Boston

ERIC M. WOERLY, PhD
Suzanne and Bob Wright Fellow
“Accessing new cancer therapeutics via an intermolecular fluorofunctionalization reaction” with Eric N. Jacobsen, PhD, Harvard University, Cambridge
Damon Runyon Fellowship Awards

WILLIAM RAZZELL, PhD*
HHMI Fellow
“The role of tension in Hippo pathway signaling” with Jennifer A. Zallen, PhD, Memorial Sloan Kettering Cancer Center, New York

LEAH R. SABIN, PhD
“The role of long noncoding RNAs in normal hematopoiesis and malignant transformation” with Gregory J. Hannon, PhD, Cold Spring Harbor Laboratory, Cold Spring Harbor

ALEXEY A. SOSHNEV, MD, PhD
HHMI Fellow
“The study of linker histone H1 in transcriptional regulation and genome organization” with C. David Allis, PhD, The Rockefeller University, New York

AARON D. VINY, MD†
“Role of the cohesin complex in oncogenic transformation of AML” with Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

MATTHEW R. CLAY, PhD*
HHMI Fellow
“Understanding how extrinsic signals direct a Rho GTPase switch to control cell invasion in vivo” with David R. Sherwood, PhD, Duke University, Durham

ROBERT K. MCGINTY, MD, PhD
“Structural studies of the MLL1 core methyltransferase complex” with Song Tan, PhD, Pennsylvania State University, University Park

RUJ YUE, PhD
“Functional analysis of leptin receptor signaling in hematopoietic stem cells and perivascular niche” with Sean J. Morrison, PhD, University of Pennsylvania School of Medicine, Philadelphia

SHREERAM AKILESH, MD, PhD*
“Regulatory genomics of kidney cancers” with John A. Stamatoyannopoulos, MD, University of Washington, Seattle

RONALD J. HAUSE, PhD*
“Function dissection of the effects of variants of uncertain significance in TPMT in response to thiopurine anticancer agents” with Jay A. Shendure, MD, PhD, University of Washington, Seattle

TERA C. LEVIN, PhD*
HHMI Fellow
“Master microbial manipulators: how Wolbachia subvert Drosophila development” with Harmit S. Malik, PhD, Fred Hutchinson Cancer Research Center, Seattle

ANTOINE MOLARO, PhD
“Evolutionary and functional consequences of genetic conflicts between KRAB-Zinc-Fingers and endogenous retroviruses in primate genomes” with Harmit S. Malik, PhD, Fred Hutchinson Cancer Research Center, Seattle

ALISTAIR B. RUSSELL, PhD*
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“Impact of heterogeneity on the cellular recognition of influenza infection” with Jesse D. Bloom, PhD, Fred Hutchinson Cancer Research Center, Seattle

PETER J. SKENE, PhD
“Understanding the cancer epigenome” with Mark T. Groudine, MD, PhD, and Steven Henikoff, PhD, Fred Hutchinson Cancer Research Center, Seattle

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KATARINA MORAVCEVIC, PhD
“Investigating the genetic and neurochemical basis of sleep homeostasis” with Amita Sehgal, PhD, University of Pennsylvania School of Medicine, Philadelphia

TEXAS

CHRISTINE R. BECK, PhD
HHMI Fellow
“Mechanisms underlying copy number gain in cancer and genomic disorder-associated complex rearrangements” with James R. Lupski, MD, PhD, Baylor College of Medicine, Houston

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VIRGINIA

VU QUANG NGUYEN, PhD*
“Role of chromatin organization in dynamics of transcription initiation” with Carl Wu, PhD, Howard Hughes Medical Institute Janelia Farm Research Campus, Ashburn

ALBERT TSAI, PhD*
“In vivo imaging of translation dynamics on an mRNA” with Robert H. Singer, PhD, Howard Hughes Medical Institute Janelia Farm Research Campus, Ashburn

WASHINGTON

SHREERAM AKILESH, MD, PhD*
“Regulatory genomics of kidney cancers” with John A. Stamatoyannopoulos, MD, University of Washington, Seattle

RONDAL J. HAUSE, PhD*
“Function dissection of the effects of variants of uncertain significance in TPMT in response to thiopurine anticancer agents” with Jay A. Shendure, MD, PhD, University of Washington, Seattle

TERA C. LEVIN, PhD*
HHMI Fellow
“Master microbial manipulators: how Wolbachia subvert Drosophila development” with Harmit S. Malik, PhD, Fred Hutchinson Cancer Research Center, Seattle

ALISTAIR B. RUSSELL, PhD*
Merck Fellow
“Impact of heterogeneity on the cellular recognition of influenza infection” with Jesse D. Bloom, PhD, Fred Hutchinson Cancer Research Center, Seattle

PETER J. SKENE, PhD
“Understanding the cancer epigenome” with Mark T. Groudine, MD, PhD, and Steven Henikoff, PhD, Fred Hutchinson Cancer Research Center, Seattle

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ÖZLEM AKSOY, PhD*

“Understanding the role of translational control in humanized mouse models for medulloblastoma” with Davide Ruggero, PhD, University of California, San Francisco

AMIT J. SABNIS, MD†

“Exploiting chaperone dependence as a novel therapeutic strategy in alveolar rhabdomyosarcoma” with Trever G. Bivona, MD, PhD, University of California, San Francisco

ZHIPENG LU, PhD*

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“Elucidating the role of dynamic RNA structures in cancer” with Howard Y. Chang, PhD, Stanford University School of Medicine, Stanford

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AMANDA L. BALBONI, PhD*

“Targeting the EWS-FLI oncoprotein in Ewing sarcoma with CDK12/13 inhibitors” with Kimberly Stegmaier, MD, Dana-Farber Cancer Institute, Boston

SHUIBIN LIN, PhD

“Molecular and cellular characterization of a novel LincRNA in neuroblastoma” with Richard Gregory, PhD, Boston Children’s Hospital, Boston

MARYLAND

STACY L. COOPER, MD**

“The Cebpα +37kb enhancer is a critical target of transformation in acute myeloid leukemia” with Alan D. Friedman, MD, Johns Hopkins University, Baltimore

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Damon Runyon-Sohn Pediatric Cancer Fellowship Award
(continued)

NEW YORK
SCOTT HAIFUHA CHU, PhD
“The role of DOT1L in pediatric leukemias” with Scott A. Armstrong, MD, PhD, Memorial Sloan Kettering Cancer Center, New York
LY P. VU, PhD
“Uncovering the role of RNA-binding protein Syncrip in acute myeloid leukemia (AML)” with Michael G. Kharas, PhD, and Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

TENNESSEE
DAVID W. WOESSNER, PhD
“Discovery of new driver alterations in childhood ALL” with Charles G. Mullighan, MBBS, MD, St. Jude Children’s Research Hospital, Memphis

TEXAS
KENNETH CHEN, MD†
“Dysregulation of the N-myc/ Lin28/let-7 axis in childhood Wilms tumors” with James F. Amatruda, MD, PhD, University of Texas Southwestern Medical Center, Dallas

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Damon Runyon-Dale F. Frey Awards for Breakthrough Scientists

DAVID K. BRESLOW, PhD
“Dissecting the role of the ciliary transport machinery in oncogenic signal transduction” at Stanford University School of Medicine, Stanford, California
ANGELA N. BROOKS, PhD
“Characterizing somatic mutations that affect mRNA splicing in cancer” at the University of California, Santa Cruz, California
COSTAS A. LYSSIOTIS, PhD
“Exploring the metabolic effects of oncogenic KRAs in pancreatic ductal adenocarcinoma” at the University of Michigan, Ann Arbor, Michigan
ROBERT K. MCGINTY, MD, PhD*
“Structural studies of the MLL1 core methyltransferase complex” at Pennsylvania State University, University Park, Pennsylvania
RAYMOND E. MOELLERING, PhD
“Characterization of novel pathogenic pathways in cancer: do tumor cells use quorum-sensing molecules to support malignancy?” at the University of Chicago, Chicago, Illinois
SIDI CHEN, PhD*
“Investigation of Dicer as a novel therapeutic route towards the inhibition of tumorigenesis and neoplastic growth” at Yale University School of Medicine, New Haven, Connecticut
MICHAEL J. SMANSKI, PhD*
“Establishing a versatile platform for functionalizing biological magnetic nanoparticles” at the University of Minnesota, St. Paul, Minnesota

COLE TRAPNELL, PhD
“Globally characterizing IncRNA oncogenes with next-generation transcriptomics” at the University of Washington School of Medicine, Seattle, Washington
ANGELA J. WAANDERS, MD, MPH*
“Preclinical models for therapeutic targeting of pediatric astrocytomas” at the Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania
ARUN P. WIITA, MD, PhD*
“Novel biomarker discovery for monitoring chemotherapeutic efficacy” at the University of California, San Francisco, California

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PAVAN BACHIREDDY, MD*
“Coevolution of tumor and T cell heterogeneity following immunotherapy” with Catherine J. Wu, MD, at Dana-Farber Cancer Institute, Boston, Massachusetts

CAROLYN C. JACKSON, MD, MPH*
“Genetic dissection of pediatric classic Kaposi sarcoma” with Jean-Laurent Casanova, MD, PhD, at Memorial Sloan Kettering Cancer Center, New York, New York

LORETTA S. LI, MD*
“Mechanisms of disease and resistance in CRLF2-rearranged B-cell acute lymphoblastic leukemia” with David Weinstock, MD, at Dana-Farber Cancer Institute, Boston, Massachusetts

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participants in Hingham, MA.

The 2014 RUNYON 5K
at Yankee Stadium

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DMITRI STOCKTON
at the 2015 ANNUAL BREAKFAST

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Your support this year enabled us to fund nearly $14 million of research by the next generation of leading cancer researchers exploring bold new ideas. Since our founding in 1946, in partnership with donors across the nation, Damon Runyon has invested over $300 million and funded over 3,500 young scientists.

In August 2014, the Damon Runyon 5K at Yankee Stadium drew nearly 2,500 participants and raised over $610,000. The 2014 Runyon 5K was presented by MetLife Foundation, with additional support from Brick-Run Sports Physical Therapy, NYSID, Riverdale Chrysler Jeep, Poland Spring, Health Warrior, Cabot, 24 Hour Fitness, NBC 4 New York, New Era, New York Post, SiriusXM Satellite Radio, and the New York Yankees.

Our 2015 annual breakfast raised $1.5 million. Dmitri Stockton, President and CEO of GE Asset Management, was honored and John Elway, former NFL star and current Denver Broncos General Manager, delivered the keynote address.

William Raveis Real Estate hosted two RAVEIS RIDE + WALK EVENTS in the northeast, raising $550,000 for Damon Runyon scientists. Thank you to everyone at William Raveis for their partnership and support!

Damon Runyon Broadway Tickets offers premium seats to all of Broadway’s hits, including sold-out shows like Hamilton. We are especially grateful to the Shubert Organization, Nederland Productions, Jujamcyn Theaters, and Disney Theatrical Productions for making this program possible. Learn more at www.damonrunyon.org/broadway.

Accelerating Cancer Cures fosters communication and collaboration between academia and industry. Thank you to Eli Lilly and Company, Celgene, Genentech, Merck, Takeda Pharmaceuticals International, and Pfizer for their leading sponsorship.
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Fiscal Year 2015

As in previous years, the financial activities of the Damon Runyon Cancer Research Foundation were audited by RSM US LLP. Below is a snapshot of FY 2015. For our complete audited financial statements, please visit our website at www.damonrunyon.org.

Our overhead is paid from our endowment and Damon Runyon Broadway Tickets, allowing 100% of your donation to support cancer research.
TOTAL REVENUE
$26.1 Million

- Contributions: 54.1%
- Investment Return: 35.9%
- Misc. Income: 4.0%
- Bequests & Trusts: 4.4%
- Damon Runyon Broadway Tickets: 1.6%
- Misc. Income: 4.0%

ANNUAL REPORT 2015
To accelerate breakthroughs, the Damon Runyon Cancer Research Foundation provides today’s best young scientists with funding to pursue innovative cancer research. Our goal is to foster the talent capable of revolutionizing the prevention, detection, and treatment of all forms of cancer.