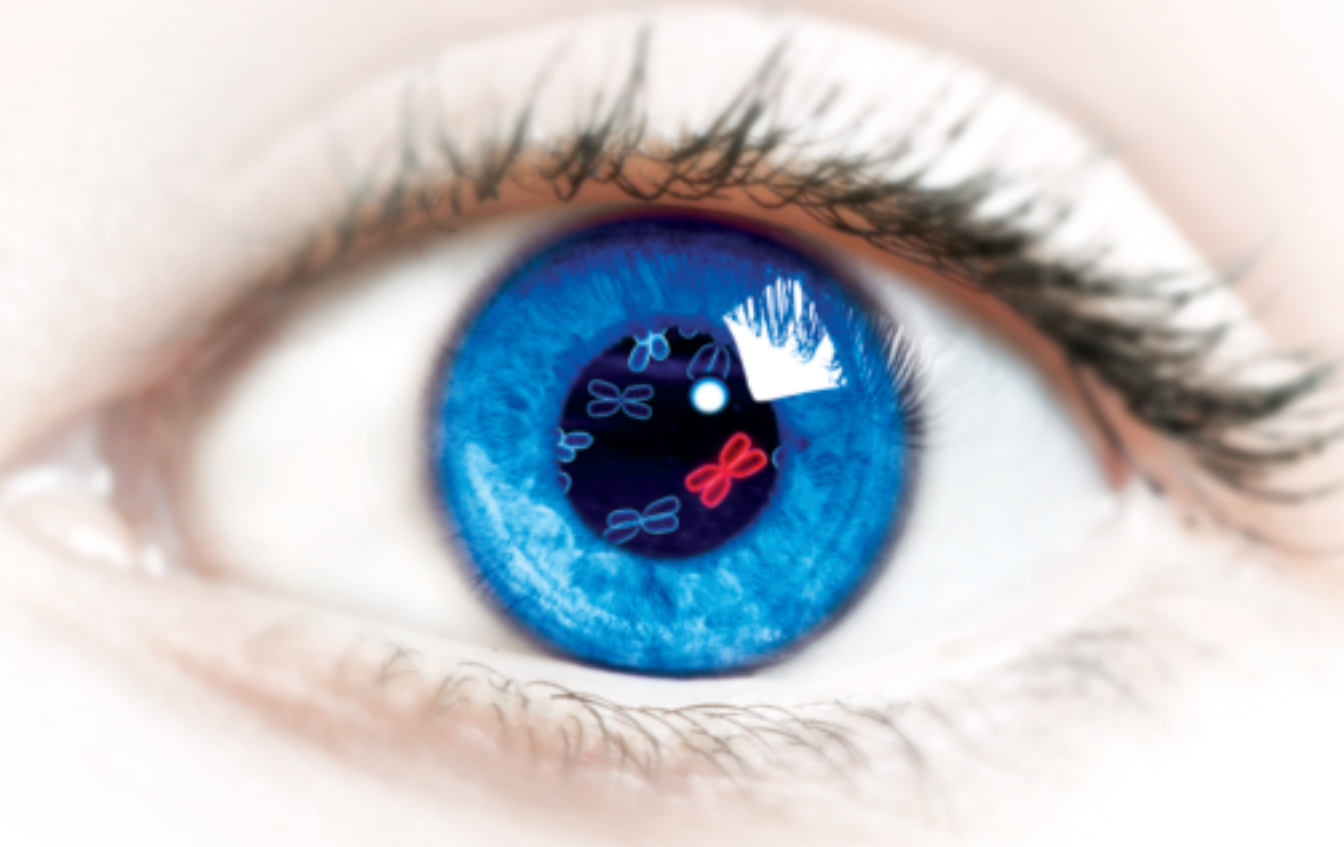


HOW DO WE SPOT AN INNOVATOR?



Everyone uses the word “innovation” today—CEOs, politicians, advertisers. There is even a how-to book called “The Little Black Book of Innovation.” As if all you need to do is read a book to become an innovator.



Debbie and Andy Rachleff

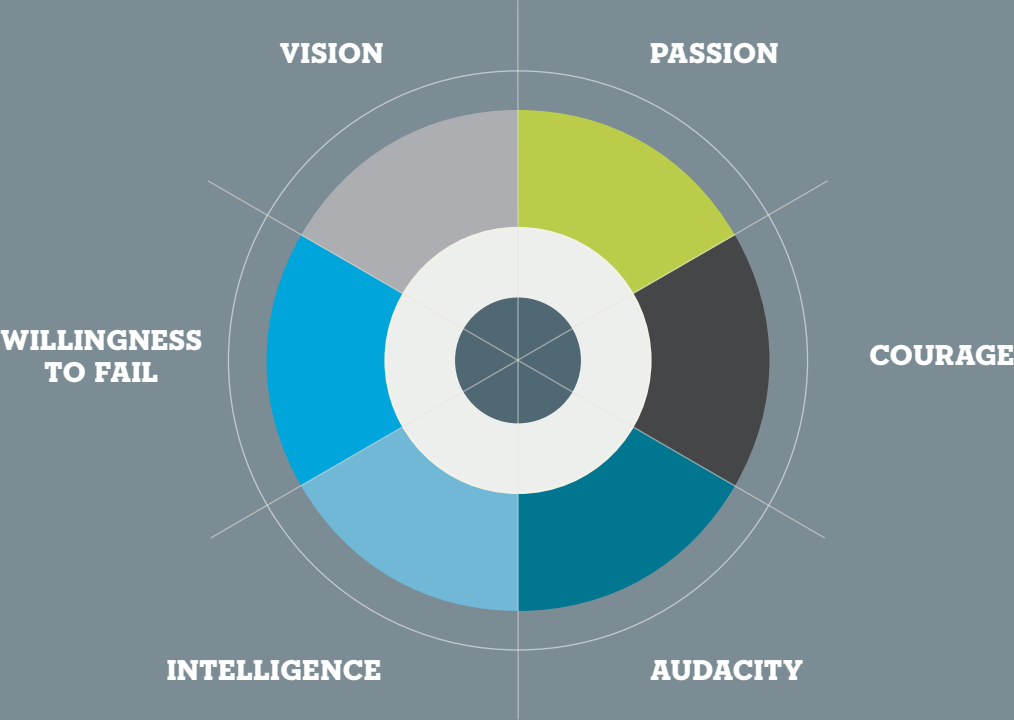
Actual innovation is extremely rare. It requires a unique individual with the vision to see things no one has seen before, the passion to push through overwhelming obstacles and the audacity to pursue ideas that could very well fail.

At the Damon Runyon Cancer Research Foundation, we believe that young scientists with vision, passion and audacity will be the ones to make the biggest breakthroughs against cancer.

In 2008, we launched the Damon Runyon-Rachleff Innovation Award in partnership with two visionary philanthropists, Debbie and Andy Rachleff. In stark contrast to traditional research funding, which supports safe bets and incremental studies, the goal of the Innovation Award is to encourage brilliant young cancer researchers to pursue high-risk ideas with high-impact potential.

In this year’s annual report, we profile three young Innovators and share insights into how they were selected by members of our Innovation Award Selection Committee, who became breakthrough scientists themselves early in their careers.

HOW DO WE SPOT AN INNOVATOR?



The Damon Runyon-Rachleff Innovation Award is based on three core principles:

- Youth drives innovation.
 - It takes an innovator to know an innovator.
 - Failure *is* an option.

The Innovation Award has been a remarkable success and provides a model for empowering young scientists to think differently.





“The Rachleffs really felt that we would recognize ‘fire in the belly’ much better in person than on paper. They proved to be absolutely right about that.”

Ronald Levy, MD



Ronald Levy, MD

- Professor, Division of Oncology, Stanford University School of Medicine
- Chair, Damon Runyon-Rachleff Innovation Award Committee
- Breakthrough discovery led to the development of Rituxan, the first monoclonal antibody therapy for cancer



■ DOING WHAT “CAN’T BE DONE”

David G. Kirsch, MD, PhD ■ Damon Runyon-Rachleff Innovator ■ Associate Professor of Radiation Oncology, Duke University School of Medicine

WHEN RONALD LEVY, MD, first sat down to discuss an “innovation award” with Damon Runyon President and CEO Lorraine Egan and venture capitalist Andy Rachleff, he had his doubts about how innovative the proposals would be. “By definition, cancer researchers are not doing something in their own garage. They work in established academic institutions.”

Having spent years spotting and funding innovative ideas in the private sector, Andy was more confident. “He encouraged us to take risks on projects that were not funded by the mainstream,” Ron recalls, “ideas that would be out-of-the-box and have bigger impact in the long run.”

“I asked, ‘How do we find these people?’ and Andy said, ‘Don’t worry; they’ll find you. Just put out the word.’ So, we put together a committee of scientists who had been innovators in their own careers. **The idea being that it takes one to know one.**”

One of the first scientists to apply was David G. Kirsch, MD, PhD. He proposed a new operating room imaging device that would allow surgeons to scan for residual cancer cells after removing a patient’s tumor. “When we reviewed David’s written proposal, it ranked just high enough to get him an interview,” Ron remembers. “I was one of the people that thought it probably would not succeed. Then he presented the work in person and went to the top of the list.”

The initial doubts did not dissuade David. “Part of innovation,” he says, “is figuring out ways to overcome obstacles when people say ‘this can’t be done’ or ‘it’s too hard to do.’”

While treating sarcoma patients, David found his passion: sparing patients from unnecessary radiation. “It was clear to me that a lot, even the majority, of patients were not benefiting from the adjuvant radiation, just enduring the toxicity,” he says.

He dreamed of new imaging technology that surgeons could use in the operating room. Patients would be injected with a molecular agent that fluoresced only in the cancer cells, which the device would detect immediately. After meeting with engineers at MIT who had confidence in his vision, David applied for a Damon Runyon-Rachleff Innovation Award.

“What was amazing about the Innovation Award was that Damon Runyon and the Rachleffs were willing to take a risk. I think a lot of funding agencies are satisfied with incremental science that is guaranteed to succeed. We couldn’t prove that any of this would work, but the Foundation said, ‘This is a risk worth taking.’”

And it was. Since receiving the award, David and his team have built and successfully tested the imaging device in mice and dogs. **This year, they received FDA approval to begin a first-in-human clinical trial**, which recently opened at Duke and is recruiting its first patients. ■

“I think when we look back at investigators like Muneesh in ten years, whether their original projects have succeeded or not, showing them that they can survive while thinking innovatively is itself a success.”

Kenneth W. Kinzler, PhD

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Kenneth W. Kinzler, PhD

■ Professor of Oncology, The Johns Hopkins University Kimmel Cancer Center ■ Member, Damon Runyon-Rachleff Innovation Award Committee ■ Completed the first whole genome sequence analyses of colorectal, breast and glioblastoma cancers



■ HAVING NO FEAR

Muneesh Tewari, MD, PhD ■ Damon Runyon-Rachleff Innovator ■ Associate Member, Fred Hutchinson Cancer Research Center ■ Associate Professor in Medicine, University of Washington

“WHAT DISTINGUISHES these people is a vision and a passion for that vision. Having both lets you persevere through the obstacles,” says Kenneth W. Kinzler, PhD. **“We’re looking for people who won’t be happy unless they’re pursuing a problem about which they’re passionate.”**

Ken knows a thing or two about vision. “We have had many projects in our group that initially seemed crazy,” he says. “We were interested in detecting DNA mutations in the blood, for example. Cancer cells, as they grow, release a small amount of DNA into the bloodstream. So we had this vision of a technique that would allow us to detect these rare mutations. It required a lot of work, but today, 3 of the 4 major DNA sequencing platforms use our technique.”

When Ken reviewed the application of Muneesh Tewari, MD, PhD, he immediately saw a young scientist with a bold vision and similar tenacity. Muneesh seeks to develop a blood test that can spot cancer before it is visible by any other means using microRNAs (miRNAs), tiny molecules that regulate gene activity and appear to be altered in many types of cancers. As Ken says, “You start a project like this and don’t know exactly how you’re going to get to early diagnosis, but that’s where the risk is.”

“I have always had the most success trying things off the main path, which I think led to our discovery of miRNAs in the bloodstream,” Muneesh says. “The prevailing wisdom at the time was that there was no way for miRNAs to survive on their own in the blood. But we

realized that they were much more stable than expected. I was interested in ovarian cancer and wondered if cancer-specific miRNAs could be really sensitive markers for detecting disease.”

Despite his early progress, Muneesh was in trouble. His lab’s first three years of startup funding were running out. “The first real discouragement was getting rejected by the National Institutes of Health for funding. I didn’t know what the fate of my lab would be. Then I read about Damon Runyon’s Innovation Award. It’s rare to have the type of funding that allows you to pursue a risky idea that has a 90% chance of failing.” **Receiving the award was “the turning point in terms of surviving as a scientist,”** he says. “I was utterly elated.”

Muneesh’s first pass at using miRNAs for early cancer detection did not work the way he had planned, yet it still gave him important new insights. Recently, he found that a particular miRNA made by ovarian tumors can be detected in the blood of early stage patients; he is now developing this toward an early detection test. “Was it a home run in three years? No,” he says. “What’s been gained is a more sophisticated understanding of both the early detection problem and of basic principles of miRNAs in the blood. This is starting to pay off now.”

“From stimulating miRNA release to working with engineers to build something like a home glucometer that detects miRNAs in the blood, the Innovation Award has pushed me to think about innovative ways to overcome barriers that no one has crossed yet.” ■

“Nathanael’s project is different in part because he starts with a very solid background as a chemist. He has a unique understanding of the structure of proteins. It’s an approach with great technical obstacles, and overcoming these will require innovative thinking.”

Napoleone Ferrara, MD

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Napoleone Ferrara, MD

- Genentech Fellow: Tumor Biology and Angiogenesis
- Member, Damon Runyon-Rachleff Innovation Award Committee
- Discovered VEGF, a regulator of tumor blood vessel growth, leading to the development of the drugs Avastin and Lucentis



■ SEEING THE FOREST FOR THE TREES

Nathanael S. Gray, PhD ■ Damon Runyon-Rachleff Innovator ■ Professor, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School ■ Assistant Professor, Cancer Biology, Dana-Farber Cancer Institute

THERE IS NO SINGLE SWITCH that turns cancers on and off. As Napoleone Ferrara, MD, puts it, “Cancer is diabolically clever.” When we think we have beaten it, he says, “cancer seems to find a clever way to escape.”

Napoleone knows this too well. He is recognized around the world as the innovative mind behind Avastin, a cancer treatment that works by blocking a protein called VEGF, which enables tumors to grow blood vessels that feed their rapid growth. It has saved countless lives and is approved by the FDA to treat colon and certain types of lung, renal and brain cancers. However, many patients develop resistance to Avastin.

A new generation of scientists like Damon Runyon-Rachleff Innovator Nathanael S. Gray, PhD, is finding ways to outsmart cancer resistance. Like Napoleone, Nathanael is focused on developing chemical compounds that target cancer. **“For me, innovation really lies in the ability to take a step back and ask what would move the field forward,”** he says. “Sometimes it helps to look from the outside so you don’t miss the forest for the trees.” That is exactly how he has approached the EGFR problem.

EGFR is a protein on the surface of our cells that, when overactivated, can cause lung and other cancers. Treatments that target EGFR can slow the growth and spread of tumors for up to 18 months. Unfortunately, cancer cells adapt and develop a mutated version of EGFR

that renders the drugs ineffective. Nathanael is taking a big-picture approach by looking downstream to predict how cancers might adapt. “We figure out a target like EGFR, decipher how it mutates, then try to find one or two other targets that, when combined, make it much harder for the tumor to find a way around treatment. The hope is that we’ll be able to keep it inactive for 5, 10 or 15 years.”

“We found a compound and an approach where we could specifically target the mutant EGFR that evolved in response to the first generation of treatment. Now, there are companies that have taken this second-generation compound and are testing it in clinical trials. Patients that respond for 18 months are now being put on a second compound to try to create a longer response. It has a precedent in HIV, where nobody gets a single drug but instead a cocktail of four.”

Like a true innovator, Nathanael’s vision does not stop at EGFR. “What gets me excited is when we make something that actually works in a biological context. We’re anticipating resistance to our compound and making third-generation versions. EGFR is only found in about 10-15% of people with lung cancer. There’s another target, KRAS, that is in 35-40% of patients, but the chemistry is a lot more challenging. It has been considered undruggable because conventional approaches haven’t worked, but we have some tricks that might. If we’re successful, many more patients stand to benefit.” ■

THE YEAR IN REVIEW

DAMON RUNYON IS CURRENTLY FUNDING 131 YOUNG SCIENTISTS AT 54 LEADING INSTITUTIONS IN 19 STATES. NEARLY \$12 MILLION WAS MADE IN NEW AWARDS IN FY 2012.

OUR SCIENTISTS MADE COUNTLESS DISCOVERIES. FOR EXAMPLE, THEY:

- demonstrated in clinical trials that new immunotherapies reduce tumors in patients with types of melanoma, lung, renal and other cancers.
- led a breakthrough trial of the drug vismodegib, which stopped tumor growth in a form of basal-cell carcinoma.
- completed the first comprehensive genome sequencing of colorectal, melanoma and prostate cancers, revealing the most detailed look ever at the sources and vulnerabilities of these diseases.

THEIR INNOVATIVE RESEARCH WAS WIDELY RECOGNIZED:

- Former Fellows **Rachel D. Green, PhD**, **Gregory J. Hannon, PhD**, and **Eckard A.F. Wimmer, PhD**, were elected to the National Academy of Sciences (the science “Hall of Fame”), bringing Damon Runyon’s total to **62**.

- **Elaine V. Fuchs, PhD**, former Fellow and current Damon Runyon Board Member, received the prestigious March of Dimes Prize, given to leaders in the field of developmental biology.
- Former Clinical Investigator **Scott A. Armstrong, MD, PhD**, was awarded the Paul Marks Prize for Cancer Research for his exceptional research in the fields of cancer stem cells and genomics.

We held our first **Accelerating Cancer Cures Research Symposium** at Pfizer Inc. headquarters in New York City. The event brought together dozens of scientists from industry and academia to discuss the latest clinical research and opportunities for collaboration.

In partnership with the Sohn Conference Foundation, we launched the **Damon Runyon-Sohn Pediatric Cancer Fellowship**, designed to address the shortage of scientists focusing on finding new cures for childhood cancers.



THANK YOU TO OUR DONORS

The innovative research that Damon Runyon scientists do every day would not be possible without your support. We are very grateful for your generosity and commitment to the nation's best and brightest young scientists, who *will* make the next breakthroughs against cancer. Thanks to you, Damon Runyon raised approximately \$10.8 million in Fiscal Year 2012.

ANNUAL BREAKFAST
HONORING MILES S. NADAL





DAMON RUNYON 5K AT YANKEE STADIUM

The Sohn Conference Foundation granted Damon Runyon \$1.5 million to launch our newest award, the **Damon Runyon-Sohn Pediatric Cancer Fellowship**. See page 23 to learn about our first three Pediatric Fellows.

Our **2012 Annual Breakfast** honored Miles S. Nadal, Chairman and CEO of MDC Partners, one of the world’s largest marketing and communications networks. The event raised **\$1.3 million** for cancer research.

Our annual **Damon Runyon 5K at Yankee Stadium** raised more than **\$730,000** in August 2011, drawing a capacity crowd of 4,000 participants. A special thanks to former Yankees player Roy White, Red Sox Chairman Thomas Werner, NBC4 anchor Michael Gargiulo and our sponsors: the MetLife Foundation, Unilever, White Rose, C9 by Champion, NYSID, 24 Hour Fitness, NBC4 New York, the New York Daily News, SiriusXM Radio, Poland Spring and Utz.

Damon Runyon Broadway Tickets continues to offer house seats to the best shows in town like *The Book of Mormon* and *Glengarry Glen Ross*. We are especially grateful to the Shubert Organization, Nederlander Productions, Jujamcyn Theaters and Disney Theatrical Productions for making this program possible. Learn more at www.damonrunyon.org/broadway.

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DAMON RUNYON AWARD PROGRAMS

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.

THREE-YEAR AWARD

Basic Scientists: \$156,000
Physician-Scientists: \$186,000

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.

THREE-YEAR AWARD

Basic Scientists: \$156,000
Physician-Scientists: \$186,000

This program is supported by the Sohn Conference Foundation, committed to curing pediatric cancers, in partnership with the Damon Runyon Cancer Research Foundation.

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

This program was created to honor Dale F. Frey, retired Chairman of the Damon Runyon Board of Directors, in recognition of his sixteen years of visionary leadership.

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.

THREE-YEAR AWARD: \$450,000

This program is possible through a founding grant from Debra and Andrew S. Rachleff and the support of the Island Outreach Foundation and Nadia's Gift Foundation.

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.

This program is supported by founding sponsor Eli Lilly and Company in addition to Ariad, Celgene, Genentech, Merck, Millennium: The Takeda Oncology Company, Pfizer and PhRMA, all of which are members of Accelerating Cancer Cures.

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

This program is possible through the support of the William K. Bowes, Jr. Foundation and Connie and Bob Lurie.

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GAMZE Ö. ÇAMDERE, PhD*

"In vitro and in vivo characterization of cohesin-DNA interaction" with Douglas E. Koshland, PhD, University of California, Berkeley

LEON Y. CHAN, PhD

Howard Hughes Medical Institute Fellow
"Determining the mechanism of stress-induced ribosomal protein mRNA degradation" with Karsten Weis, PhD, University of California, Berkeley

ELIE J. DINER, PhD*

"Cytosolic detection of intracellular pathogen-derived nucleic acids by the innate immune system" with Russell E. Vance, PhD, University of California, Berkeley

YUMI KIM, PhD

Howard Hughes Medical Institute Fellow
"Identification of the signaling cascades regulating meiotic chromosome dynamics" with Abby F. Dernburg, PhD, University of California, Berkeley

MAURIZIO RIGHINI, PhD

Merck Fellow
"Single molecule translation control" with Carlos Bustamante, PhD, University of California, Berkeley

LARA C. SKWAREK, PhD

Robert Black Fellow
"In vivo identification of novel regulators of epithelial-mesenchymal transition" with David Bilder, PhD, University of California, Berkeley

ADAM DE LA ZERDA, PhD

"Imaging cancer glycomes with functionalized carbon nanotubes" with Carolyn R. Bertozzi, PhD, University of California, Berkeley

CHRISTOPHER J. HALE, PhD

Howard Hughes Medical Institute Fellow
"Understanding how a histone methyltransferase links DNA replication, repair and transcription" with Steven E. Jacobsen, PhD, University of California, Los Angeles

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

GIRA BHABHA, PhD*

Merck Fellow
"High-resolution studies of dynein structure and mechanism" with Ronald D. Vale, PhD, University of California, San Francisco

STEPHANIE T. CHEN, PhD*

"Analysis of somatosensory neuron function and lineage through nuclear reprogramming" with David J. Julius, 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

KIMBERLEY EVASON, MD, PhD†

Robert Black Fellow
"Hepatic stellate cell development and role in carcinogenesis" with Didier Y.R. Stainier, PhD, University of California, San Francisco

XI HUANG, PhD

"Functional significance of potassium channel EAG2 in medulloblastoma" with Lily Y. Jan, PhD, University of California, San Francisco

CALVIN H. JAN, PhD

Rebecca Ridley Kry Fellow
"Studying translation with subcellular resolution" with Jonathan S. Weissman, PhD, University of California, San Francisco

RYOTA MATSUOKA, PhD*

"Neurovascular interplay during the development and regeneration of the neuronal and vascular networks" with Didier Y.R. Stainier, PhD, University of California, San Francisco

CORY Y. MCLEAN, PhD*

"Identifying mutations and epimutations that drive evolution of low-grade gliomas" with Joseph F. Costello, PhD, University of California, San Francisco

DALE MUZZEY, PhD

Howard Hughes Medical Institute Fellow
"Resolving general principles of cis translational regulation in eukaryotes using high-throughput and mechanistic analyses of allelic expression in *Candida albicans*" with Jonathan S. Weissman, PhD, University of California, San Francisco

DENIZ SIMSEK, PhD

Philip O'Bryan Montgomery, Jr., MD, Fellow
"Understanding the physiological relevance of distinct polyubiquitin chains in the maintenance of genome integrity" with David P. Toczyski, PhD, University of California, San Francisco

NATHAN D. THOMSEN, PhD

Suzanne and Bob Wright Fellow
"Molecular and cellular mechanism of caspase activation by small molecule proenzyme activators" with James A. Wells, PhD, University of California, San Francisco

ARUN P. WIITA, MD, PhD* †

"Novel biomarker discovery for monitoring chemotherapeutic efficacy" with James A. Wells, PhD, University of California, San Francisco

HYUN YOUK, PhD

Howard Hughes Medical Institute Fellow
"Synthetic development: Elucidating principles for genetically encoding simple multicellular architectures using *Saccharomyces cerevisiae* as a model system" with Wendell A. Lim, PhD, University of California, San Francisco

ILLINOIS**YOKO SHIBATA, PhD**

Howard Hughes Medical Institute Fellow
"Identifying protein quality control mechanisms in the nucleus" with Richard I. Morimoto, PhD, Northwestern University, Evanston

MELANIE ISSIGONIS, PhD*

Howard Hughes Medical Institute Fellow
"Germ cell specification from somatic stem cells in planarians" with Phillip A. Newmark, PhD, University of Illinois, Urbana

MARYLAND**NICHOLAS R. GUYDOSH, PhD**

Howard Hughes Medical Institute Fellow
"Genome-wide regulation and dynamics of ribosome elongation" with Rachel D. Green, PhD, The Johns Hopkins University, Baltimore

ROBIN E. STANLEY, PhD

"Structural and biochemical characterization of the autophagy specific class 3 phosphatidylinositol 3-phosphate complex" with James H. Hurley, PhD, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda

MASSACHUSETTS**ANNE H. BOTHMER, PhD***

The Jake Wetchler Foundation Fellow for Pediatric Innovation
"Identification and characterization of novel ribosome-associated proteins and their role in hematopoietic development and disease" with Pier Paolo Pandolfi, MD, PhD, Beth Israel Deaconess Medical Center, Boston

COSTAS A. LYSSITIS, PhD

Amgen Fellow
"Exploring the metabolic effects of oncogenic KRas in pancreatic ductal adenocarcinoma" with Lewis C. Cantley, PhD, Beth Israel Deaconess Medical Center, Boston

JIHYE YUN, PhD

"Discovering novel metabolic pathways and enzymes altered by oncogenes" with Lewis C. Cantley, PhD, Beth Israel Deaconess Medical Center, Boston

■ DAMON RUNYON
FELLOWSHIP AWARDS

(Continued)

RENEE OTTEN, PhD*

Howard Hughes Medical Institute Fellow
"Mechanism of kinases at atomic resolution" with Dorothee Kern, PhD, Brandeis University, Waltham

ANGELA N. BROOKS, PhD*

Merck Fellow
"Characterizing somatic mutations that affect mRNA splicing in cancer" with Matthew L. Meyerson, MD, PhD, Dana-Farber Cancer Institute, Boston

HARRISON W. GABEL, PhD

"Dissecting the mechanism and function of Arc regulation by the Angelman Syndrome-associated ubiquitin ligase Ube3a" with Michael E. Greenberg, PhD, Harvard Medical School, Boston

LI HE, PhD*

"Molecular characterization of cell competition and compensatory cell proliferation in *Drosophila*" with Norbert Perrimon, PhD, Harvard Medical School, Boston

KRISTIN A. KRUKENBERG, PhD

Fayez Sarofim Fellow
"Understanding the cell biological function of poly(ADP-ribose) and its role in cancer" with Timothy J. Mitchison, PhD, Harvard Medical School, Boston

YING LU, PhD

Lallage Feazel Wall Fellow
"Single-molecular study of ubiquitination/deubiquitination kinetics in cell extracts" with Marc W. Kirschner, PhD, Harvard Medical School, Boston

JOHN R. LYDEARD, PhD

"Defining CRL4 substrates and regulators through a systematic proteomic and functional analysis of DCAFs" with Jeffrey Wade Harper, PhD, Harvard Medical School, Boston

REBECCA S. MATHEW, PhD

Howard Hughes Medical Institute Fellow
"Revealing epigenetic changes that underlie cellular memory" with Danesh Moazed, PhD, Harvard Medical School, Boston

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

JOSHUA J. SIMS, PhD

"Regulation of mitochondrial apoptosis" with Peter K. Sorger, PhD, Harvard Medical School, Boston

SCOTT J. VALASTYAN, PhD

Harry Kriegel Fellow
"A novel system for the unbiased discovery of genes that regulate breast cancer metastasis" with Joan S. Brugge, PhD, Harvard Medical School, Boston

DONG YAN, PhD

Howard Hughes Medical Institute Fellow
"Building a kinase and phosphatase network using phosphorylation signatures" with Norbert Perrimon, PhD, Harvard Medical School, Boston

ALEXANDRA ZIDOVSKA, PhD

"Collective chromatin dynamics: exploring chromatin positional fluctuations in interphase" with Timothy J. Mitchison, 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

NIELS BRADSHAW, PhD

"Regulation of the SpollE phosphatase and activation of a cell-specific transcription factor" with Richard M. Losick, PhD, Harvard University, Cambridge

DAVID G. HENDRICKSON, PhD

Robert Black Fellow
"A guiding role for lincRNAs in the establishment of cancer-like epigenetic landscapes" with John L. Rinn, PhD, Harvard University, Cambridge

SUMEET SARIN, PhD

Marion Abbe Fellow
"A molecular mechanism of spatial pattern formation in the vertebrate retina" with Joshua R. Sanes, PhD, Harvard University, Cambridge

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

COLE TRAPNELL, PhD

"Globally characterizing lncRNA oncogenes with next-generation transcriptomics" with John L. Rinn, PhD, Harvard University, Cambridge

IAN Y. WONG, PhD

Merck Fellow
"Suppressing cancer cell invasion and plasticity in 3D microenvironments" with Mehmet Toner, PhD, and Daniel Irimia, MD, PhD, Massachusetts General Hospital, Boston

SIDI CHEN, PhD*

"Investigation of Dicer as a novel therapeutic route towards the inhibition of tumorigenesis and neoplastic growth" with Philip A. Sharp, PhD, Massachusetts Institute of Technology, Cambridge

DANIEL A. HELLER, PhD

"Molecularly imprinted polymeric antibodies for tumor-targeted siRNA delivery" with Robert S. Langer, ScD, Massachusetts Institute of Technology, Cambridge

NIKHIL S. JOSHI, PhD

"Understanding the development and function of regulatory T cells in an autochthonous mouse model of human non-small cell lung cancer" with Tyler Jacks, PhD, Massachusetts Institute of Technology, Cambridge

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

DANIEL SCHMIDT, PhD

Norman B. Leventhal Fellow
"Molecular-targeted reagents to probe the role of ion channels in glioblastoma oncogenesis, proliferation, and migration" with Edward S. Boyden, PhD, Massachusetts Institute of Technology, Cambridge

MICHAEL J. SMANSKI, PhD*

Howard Hughes Medical Institute Fellow
"Refactoring the genetics of magnetic nanoparticle synthesis" with Christopher A. Voigt, PhD, Massachusetts Institute of Technology, Cambridge

MEELAD M. DAWLATY, PhD

"Role of 5hmC and Tet proteins in cancer and development" with Rudolf Jaenisch, MD, Whitehead Institute for Biomedical Research, Cambridge

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

MISSOURI

ELIZABETH M. DUNCAN, PhD

Howard Hughes Medical Institute Fellow
"Epigenetic regulation of cellular memory during planarian regeneration" with Alejandro Sánchez Alvarado, PhD, Stowers Institute for Medical Research, Kansas City

NEW JERSEY

BJÖRN F.C. KAFSACK, PhD

Howard Hughes Medical Institute Fellow
"Density-dependent autocrine control of gametocytogenesis in the virulent malaria parasite Plasmodium falciparum" with Manuel Llinás, PhD, Princeton University, Princeton

STEPHANIE C. WEBER, PhD*

Howard Hughes Medical Institute Fellow
"Mechanisms controlling cell and body size in the nematode *Caenorhabditis elegans*" with Clifford P. Brangwynne, PhD, and Howard A. Stone, PhD, Princeton University, Princeton

JOHN J. KARIJOLICH, PhD*

"Mechanistic and physiological analysis of transcription-dependent gene loops" with Michael Hampsey, PhD, UMDNJ-Robert Wood Johnson Medical School, New Brunswick

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

DUNCAN J. SMITH, PhD

Howard Hughes Medical Institute Fellow
"Lagging strand synthesis and chromatin replication" with Iestyn Whitehouse, PhD, Memorial Sloan-Kettering Cancer Center, New York

JASON A. HALL, PhD*

Dale F. and Betty Ann Frey Fellow
"Regulation of the ligand for retinoic acid receptor related orphan receptor gamma t" with Dan R. Littman, MD, PhD, New York University School of Medicine, New York

MARIA GENANDER, PhD

Dale F. and Betty Ann Frey Fellow
"Deciphering the mechanisms governing BMP regulated stem cell maintenance in hair follicles" with Elaine V. Fuchs, PhD, The Rockefeller University, New York

RALPH E. KLEINER, PhD*

"Investigating the importance of post-translational microtubule modification using recombinant acetylated tubulin" with Tarun M. Kapoor, PhD, The Rockefeller University, New York

SHIJING LUO, PhD*

Miles S. Nadal Fellow
"Identifying genetic regulators and mechanisms of stem cell migration in wound repair" with Elaine V. Fuchs, PhD, The Rockefeller University, New York

MAXIMILIAN W. POPP, PhD*

Howard Hughes Medical Institute Fellow
"A haploid genetic approach towards defining RNA decay mechanisms in mammalian cells" with Lynne E. Maquat, PhD, University of Rochester School of Medicine and Dentistry, Rochester

NORTH CAROLINA

ERIN A. OSBORNE, PhD

Howard Hughes Medical Institute Fellow
"When paths diverge: patterns and mechanisms of asymmetric cell division" with Jason D. Lieb, PhD, University of North Carolina, Chapel Hill

PENNSYLVANIA

ROBERT K. MCGINTY, MD, PhD*

"Structural studies of the MLL1 core methyltransferase complex" with Song Tan, PhD, Pennsylvania State University, University Park

KATARINA MORAVCEVIC, PhD*

Howard Hughes Medical Institute Fellow
"Investigating the genetic and neurochemical basis of sleep homeostasis" with Amita Sehgal, PhD, University of Pennsylvania School of Medicine, Philadelphia

TENNESSEE

MARY J. CARROLL, PhD*

"Validation of Vav1 as a druggable cancer target using small molecules" with Stephen W. Fesik, PhD, Vanderbilt University Medical Center, Nashville

TEXAS

SUJUN HUA, PhD

"Genomic analysis of core transcriptional regulatory networks in normal and malignant neural stem cells" with Ronald A. DePinho, MD, M.D. Anderson Cancer Center, Houston

RUI YUE, PhD*

"Functional analysis of leptin receptor signaling in hematopoietic stem cells and perivascular niche" with Sean J. Morrison, PhD, University of Texas Southwestern Medical Center, Dallas

WASHINGTON

PETER J. SKENE, PhD*

"Transcriptional memory in iPS cells: suppression of H3.3 deposition to increase therapeutic potential" with Mark T. Groudine, MD, PhD, and Steven Henikoff, PhD, Fred Hutchinson Cancer Research Center, Seattle

* Initial Award

† Physician-Scientist

■ DALE F. FREY

AWARDS FOR BREAKTHROUGH SCIENTISTS

SEAN C. BENDALL, PhD *

“Improved single-cell phospho-protein signaling analysis of oncogenic progression in leukemia” at Stanford University, California

ROBERT K. BRADLEY, PhD *

“Investigating the splicing co-regulatory network” at Fred Hutchinson Cancer Research Center, Seattle, Washington

KEN CADWELL, PhD *

“Characterization of mice deficient in autophagy protein Atg16L1” at New York University School of Medicine, New York, New York

L. STIRLING CHURCHMAN, PhD

“Visualizing global transcription in vivo at nucleotide resolution” at Harvard Medical School, Boston, Massachusetts

JASON M. CRAWFORD, PhD *

“Systematic approaches to discovering bioactive bacterial metabolites” at Yale University, New Haven, Connecticut

* Initial Award

■ DAMON RUNYON-SOHN

PEDIATRIC CANCER FELLOWSHIP AWARD COMMITTEE

CHAIR

WILLIAM L. CARROLL, MD

Julie and Edward J. Minskoff Professor of Pediatrics, Professor of Pathology Director, NYU Cancer Institute NYU Langone Medical Center New York, New York

SCOTT A. ARMSTRONG, MD, PhD

Associate Professor of Pediatrics Harvard Medical School Co-Director Cancer Program, Harvard Stem Cell Institute Co-Director Leukemia Program, Dana-Farber Harvard Cancer Center Division of Hematology/Oncology Children's Hospital, Dana Farber Cancer Institute Boston, Massachusetts

PATRICK A. BROWN, MD

Associate Professor Department of Oncology The Johns Hopkins University School of Medicine Baltimore, Maryland

PETER D. COLE, MD

Associate Professor Department of Pediatrics Albert Einstein College of Medicine Montefiore Medical Center Bronx, New York

FREDERICK R. CROSS, PhD

Professor Laboratory of Cell Cycle Genetics The Rockefeller University New York, New York

R. KIPLIN GUY, PhD

Chairman and Member Department of Chemical Biology and Therapeutics St. Jude Children's Research Hospital Memphis, Tennessee

MARIA JASIN, PhD

Lab Head, Developmental Biology Program Sloan-Kettering Institute New York, New York

BARTON A. KAMEN, MD, PhD

American Cancer Society Clinical Research Professor Professor, Department of Pediatric Hematology/Oncology UMDNJ-Robert Wood Johnson Medical Center The Cancer Institute of New Jersey New Brunswick, New Jersey

JAMES M. OLSON, MD, PhD

Member Division of Clinical Research Fred Hutchinson Cancer Research Center Seattle, Washington

MARTINE F. ROUSSEL, PhD

Member Endowed Chair in Molecular Oncogenesis Co-Director, Cancer Center Signal Transduction Program Department of Tumor Cell Biology and Genetics St. Jude Children's Research Hospital Memphis, Tennessee

CHRISTOPHER C. WYLIE, PhD

William Schubert Chair and Director Division of Developmental Biology Cincinnati Children's Hospital Medical Center Cincinnati, Ohio

■ DAMON RUNYON-SOHN

PEDIATRIC CANCER FELLOWSHIP AWARDS

LARA E. DAVIS, MD

"Osteosarcoma as a proof-of-concept model for personalized cancer therapy" with Charles Keller, MD, Oregon Health and Science University, Portland, Oregon

ANGELA J. SIEVERT, MD

"Preclinical models for therapeutic targeting of BRAF altered pediatric astrocytomas" with John M. Maris, MD, Children's Hospital of Philadelphia, Pennsylvania

LEO D. WANG, MD, PhD

"Phosphoproteomic identification of therapeutic targets in AML stem cells" with Amy J. Wagers, PhD, Dana-Farber Cancer Institute, Boston, Massachusetts

■ DAMON RUNYON-RACHLEFF
INNOVATION AWARD COMMITTEE

CHAIR

RONALD LEVY, MD
Professor, Division of Oncology
Stanford University School of Medicine
Stanford, California

ELIZABETH H. BLACKBURN, PhD
Morris Herzstein Professor of Biology
and Physiology
Department of Biochemistry and
Biophysics
University of California, San Francisco
San Francisco, California

DAVID BOTSTEIN, PhD
Director, Lewis-Sigler Institute for
Integrative Genomics
Anthony B. Evnin Professor of Genomics
Princeton University
Princeton, New Jersey

MICHAEL A. CALIGIURI, MD
Director, Comprehensive Cancer Center
CEO, James Cancer Hospital and
Solove Research Institute
JL Marakas Nationwide Insurance
Enterprise Foundation Professor of
Cancer Research
Professor, Departments of Internal
Medicine and Molecular Virology,
Immunology, and Medical Genetics
The Ohio State University
Columbus, Ohio

MARK M. DAVIS, PhD
Howard Hughes Medical Institute
Investigator
Director of the Stanford Institute for
Immunity, Transplantation and Infection
Stanford University School of Medicine
Stanford, California

NAPOLEONE FERRARA, MD
Genentech Fellow
Tumor Biology and Angiogenesis
Genentech, Inc.
South San Francisco, California

SANJIV SAM GAMBHIR, MD, PhD
Director, Molecular Imaging Program
Head, Nuclear Medicine Division
Professor of Radiology, Bioengineering
and Engineering Materials Science
Stanford University School of Medicine
Stanford, California

TODD R. GOLUB, MD
Howard Hughes Medical Institute
Investigator
Chief Scientific Officer and Director of
the Cancer Program of the
Broad Institute of Harvard and MIT
Charles A. Dana Investigator in Human
Cancer Genetics
Dana-Farber Cancer Institute
Professor of Pediatrics
Harvard Medical School
Boston, Massachusetts

RACHEL D. GREEN, PhD
Howard Hughes Medical Institute
Investigator
Professor, Department of Molecular
Biology and Genetics
The Johns Hopkins University
Baltimore, Maryland

LINDA G. GRIFFITH, PhD
Director, Biotechnology Process
Engineering Center
S.E.T.T. Professor of Biological and
Mechanical Engineering
Massachusetts Institute of Technology
Cambridge, Massachusetts

GREGORY J. HANNON, PhD
Howard Hughes Medical Institute
Investigator
Professor
Cold Spring Harbor Laboratory
Cold Spring Harbor, New York

KENNETH W. KINZLER, PhD
Director, The Ludwig Center for
Cancer Genetics and Therapeutics
Professor of Oncology
The Johns Hopkins University Kimmel
Cancer Center
Baltimore, Maryland

STEVEN M. LARSON, MD
Chief, Nuclear Medicine Service
Donna and Benjamin M. Rosen Chair
in Radiology
Memorial Sloan-Kettering Cancer Center
New York, New York

JACQUELINE A. LEES, PhD
Associate Director, David H. Koch Institute
for Integrative Cancer Research
Ludwig Scholar
Professor of Biology
Massachusetts Institute of Technology
Cambridge, Massachusetts

DAN R. LITTMAN, MD, PhD
Howard Hughes Medical Institute
Investigator
Helen L. and Martin S. Kimmel
Professor of Molecular Immunology
Skirball Institute of Biomolecular Medicine
New York University School of Medicine
New York, New York

STEPHEN R. QUAKE, DPhil
Howard Hughes Medical Institute
Investigator
Professor of Bioengineering
Co-Chair, Department of Bioengineering
Stanford University
Stanford, California

KEVAN M. SHOKAT, PhD
Howard Hughes Medical Institute
Investigator
Professor and Chair
Department of Cellular and Molecular
Pharmacology
University of California, San Francisco
San Francisco, California

■ DAMON RUNYON-RACHLEFF
INNOVATION AWARDS

CALIFORNIA

ALEXEI A. ARAVIN, PhD
“Epigenetic regulation of transposable
elements in cancer” at the California
Institute of Technology, Pasadena

JOSHUA E. ELIAS, PhD
“How cancers cope with damage:
a proteomics approach” at Stanford
University School of Medicine,
Stanford

HEATHER R. CHRISTOFK, PhD
“Regulation of cancer metabolism”
at the University of California,
Los Angeles

■ DAMON RUNYON-RACHLEFF
INNOVATION AWARDS

(Continued)

MATTHEW R. PRATT, PhD *
“O-GlcNAc as a ‘sweet’ link between metabolism and survival in cancer” at the University of Southern California, Los Angeles

COLORADO

JAY R. HESSELBERTH, PhD *
“Peptide identification by massively-parallel sequencing” at the University of Colorado, Denver

MASSACHUSETTS

JAMES E. BRADNER, MD
“Targeting epigenetic readers as cancer therapy” at the Dana-Farber Cancer Institute, Boston

MATTHEW G. VANDER HEIDEN, MD, PhD
“Understanding the metabolic requirements of cancer cells” at the David H. Koch Institute of Massachusetts Institute of Technology, Cambridge

ERANTHIE WEERAPANA, PhD *
“Targeting reactive cysteine residues for cancer therapy” at Boston College, Chestnut Hill

FENG ZHANG, PhD *
“Development and application of genome and epigenome engineering tools for cancer research” at The Broad Institute of MIT and Harvard, Cambridge

NEW YORK

RAFFAELLA SORDELLA, PhD
Island Outreach Foundation Innovator
“Characterization of Erlotinib resistant, Mesenchymal and Metastatic (EMM) cells present in naive lung tumors prior to treatments” at Cold Spring Harbor Laboratory, Cold Spring Harbor

JOSHUA C. MUNGER, PhD
“Elucidating mechanisms of oncogenic metabolic manipulation” at the University of Rochester, Rochester

PENNSYLVANIA

GREGORY L. BEATTY, MD, PhD *
Nadia’s Gift Foundation Innovator
“Targeting macrophages for cancer therapy” at the University of Pennsylvania, Philadelphia

TEXAS

BENJAMIN P. TU, PhD
“A novel strategy for attacking tumors based on the identification of a fundamental carbon-source signal driving cell growth” at the University of Texas Southwestern Medical Center, Dallas

*Initial Award

■ DAMON RUNYON
CLINICAL INVESTIGATOR AWARD COMMITTEE

CHAIR

RICHARD J. O’REILLY, MD
Chair, Department of Pediatrics
Chief, Pediatric Bone Marrow Transplantation Service
Claire L. Tow Chair in Pediatric Oncology Research
Memorial Sloan-Kettering Cancer Center
New York, New York

FREDERICK R. APPELBAUM, MD
Director, Clinical Research Division
Member, Fred Hutchinson Cancer Research Center
Head, Division of Medical Oncology
University of Washington School of Medicine
Seattle, Washington

JOSEPH R. BERTINO, MD
Chief Scientific Officer
The Cancer Institute of New Jersey
University Professor of Medicine and Pharmacology
UMDNJ-Robert Wood Johnson Medical School
New Brunswick, New Jersey

DAVID P. CARBONE, MD, PhD
Director, Specialized Program of Research Excellence in Lung Cancer
Ingram Professor of Cancer Research
Professor of Medicine and Cancer Biology
Vanderbilt-Ingram Cancer Center
Vanderbilt University
Nashville, Tennessee

DENNIS A. CARSON, MD
Professor Emeritus
Department of Medicine
Moores Cancer Center
University of California, San Diego
La Jolla, California

BRUCE A. CHABNER, MD
Clinical Director
Massachusetts General Hospital
Cancer Center
Professor of Medicine
Harvard Medical School
Boston, Massachusetts

NANCY E. DAVIDSON, MD
Director, University of Pittsburgh Cancer Institute
UPMC Cancer Center
Associate Vice Chancellor for Cancer Research
Professor of Medicine
Division of Hematology and Oncology
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

PATRICIA A. GANZ, MD
Director, Division of Cancer Prevention and Control Research
Jonsson Comprehensive Cancer Center
Professor, Schools of Medicine and Public Health
University of California, Los Angeles
Los Angeles, California

PHILIP D. GREENBERG, MD
Director, Immunology Program
Member, Fred Hutchinson Cancer Research Center
Professor of Medicine and Immunology
University of Washington
Seattle, Washington

■ DAMON RUNYON

CLINICAL INVESTIGATOR AWARD COMMITTEE

(Continued)

HEDVIG HRICAK, MD, PhD
Chair, Department of Radiology
Carroll and Milton Petrie Chair
Memorial Sloan-Kettering Cancer Center
New York, New York

WILLIAM G. KAELIN, JR., MD
Howard Hughes Medical Institute
Investigator
Professor of Medicine
Harvard Medical School
Dana-Farber Cancer Institute
Boston, Massachusetts

DREW M. PARDOLL, MD, PhD
Director, Cancer Immunology Program
Sidney Kimmel Comprehensive
Cancer Center
Abeloff Professor of Oncology
The Johns Hopkins University School
of Medicine
Baltimore, Maryland

DAVID R. PIWNICA-WORMS, MD, PhD
Director, Molecular Imaging Center
Professor of Developmental Biology
and Radiology
Washington University School of Medicine
St. Louis, Missouri

KORNELIA POLYAK, MD, PhD
Associate Professor of Medicine
Department of Medical Oncology
Dana-Farber Cancer Institute
Harvard Medical School
Boston, Massachusetts

MICHAEL D. PRADOS, MD, FACP
Charles B. Wilson, MD, Endowed Chair
in Neurological Surgery
Director of Translational Research in
Neuro-Oncology
Leader, Neurological Oncology Program
UCSF Comprehensive Cancer Center
University of California, San Francisco
San Francisco, California

LESLIE L. ROBISON, PhD
Member, St. Jude Faculty
Chair, Epidemiology and Cancer Control
Associate Director for Cancer Prevention
and Control Cancer Center
St. Jude Children's Research Hospital
Memphis, Tennessee

LOUISE C. STRONG, MD
Sue and Radcliffe Killam Chair
Professor of Cancer Genetics
Chief, Section of Clinical Cancer Genetics
M.D. Anderson Cancer Center
The University of Texas
Houston, Texas

DAVID A. WILLIAMS, MD
Chief, Division of Hematology/Oncology
Director, Translational Research for
Children's Hospital Boston
Dana-Farber Cancer Institute
Leland Fikes Chair of Pediatrics
Harvard Medical School
Boston, Massachusetts

■ DAMON RUNYON

CLINICAL INVESTIGATOR AWARDS

CALIFORNIA

HOLBROOK E. KOHRT, MD, PhD *
"Augmenting anticancer antibody
therapies through selective activation
of NK cells" with Ronald Levy, MD,
Stanford University, Stanford

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

CONNECTICUT

TOBIAS J.E. CARLING, MD, PhD
Doris Duke-Damon
Runyon Clinical Investigator
"Molecular genetics of endocrine tumor
disease" with Richard P. Lifton, MD, PhD,
and Robert Udelsman, MD, MBA, Yale
University School of Medicine,
New Haven

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, Boston

MICHIGAN

N. LYNN HENRY, MD, PhD
Lilly Clinical Investigator
"Pain processing pathway analysis
in aromatase inhibitor-associated
musculoskeletal syndrome" with Daniel
F. Hayes, MD, University of Michigan,
Ann Arbor

NEW YORK

SARAT CHANDARLAPATY, MD, PhD *
"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

IGOR MATUSHANSKY, MD, PhD
Gordon Family Clinical Investigator
"Implementing and imaging epigenetic
based differentiation therapy for solid
tumors" with Carlos Cordon-Cardo, MD,
PhD, Columbia University, New York

ZSOFIA K. STADLER, MD
"Characterization of de novo germline
genetic alterations in cancer
susceptibility" with Kenneth Offit, MD,
MPH, and Michael H. Wigler, PhD,
Memorial Sloan-Kettering Cancer Center,
New York

NORTH CAROLINA

CAREY K. ANDERS, MD *
"mTOR inhibition in the treatment of
HER2-positive breast cancer brain
metastases" with Lisa A. Carey, MD,
and Charles M. Perou, PhD, University of
North Carolina, Chapel Hill

OREN J. BECHER, MD *
"Regional differences in central nervous
system gliomagenesis" with Darell
D. Bigner, MD, PhD, and Katherine E.
Warren, MD, Duke University, Durham

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"Translational studies in cancer
metabolism" with Helen H. Hobbs,
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"The mitochondrial apoptosis pathway
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“Microsatellite length and integrin signaling as risk factors for Ewing’s Sarcoma” with Stephen L. Lessnick, MD, PhD, University of Utah, Salt Lake City

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“Segregating the GVL effect from GVHD in humans” with Stanley R. Riddell, MD, Fred Hutchinson Cancer Research Center, Seattle

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Pfizer Clinical Investigator
“Optimization of adoptive immunotherapy for lymphoma using genetically modified CD20-specific T cells” with Oliver W. Press, MD, PhD, Fred Hutchinson Cancer Research Center, Seattle

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Genentech Clinical Investigator
“Radiosensitization with antiangiogenic therapy” with Paul M. Harari, MD, University of Wisconsin, Madison

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“Molecular imaging of colorectal neoplasia” with Charles S. Fuchs, MD, MPH, and Ralph Weissleder, MD, PhD, Massachusetts General Hospital, Boston

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“Role of novel TP63 fusion genes in IRF4-positive peripheral T-cell lymphoma” with Stephen M. Ansell, MD, PhD, and Ahmet Dogan, MD, PhD, Mayo Clinic, Rochester

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“Autophagy as a therapeutic target in breast cancer treatment” with Robert S. DiPaola, MD, UMDNJ/Robert Wood Johnson Medical School, New Brunswick

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WILLIAM Y. KIM, MD
Merck Clinical Investigator
“Defining synthetic lethal targets of mTOR inhibition in renal cell carcinoma” with Charles M. Perou, PhD, and Norman E. Sharpless, MD, University of North Carolina, Chapel Hill

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ELAHE A. MOSTAGHEL, MD, PhD
Genentech Clinical Investigator
“Defining and exploiting molecular mechanisms of androgen metabolism for prostate cancer therapy” with Peter S. Nelson, MD, Fred Hutchinson Cancer Research Center, Seattle

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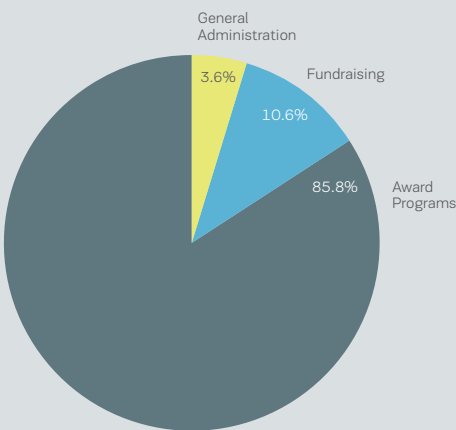
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FINANCIAL SUMMARY

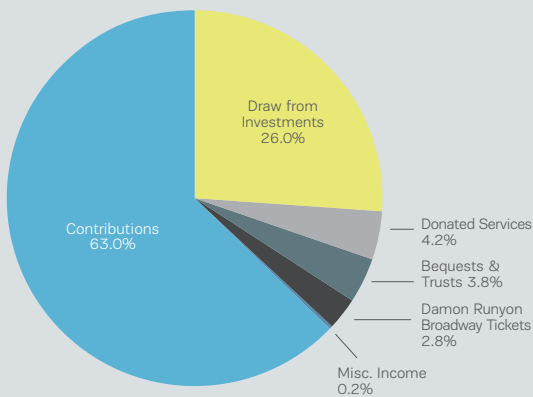
FISCAL YEAR 2012

As in previous years, the financial activities of the Damon Runyon Cancer Research Foundation were audited by McGladrey and Pullen, LLP. Below is a snapshot of FY 2012. For our complete audited financial statements, please visit our website at www.damonrunyon.org.

TOTAL OPERATING EXPENSES \$15.5 MILLION



TOTAL SUPPORT \$15.5 MILLION



SUMMARY OF BALANCE SHEETS

	2011	2012
Total Assets	\$106,487,205	\$107,113,018
Total Liabilities	\$17,214,923	\$19,474,980
Total Net Assets	\$89,272,282	\$87,638,038



We are also fully accredited by the Better Business Bureau Wise Giving Alliance.

Damon Runyon
Cancer Research
Foundation

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