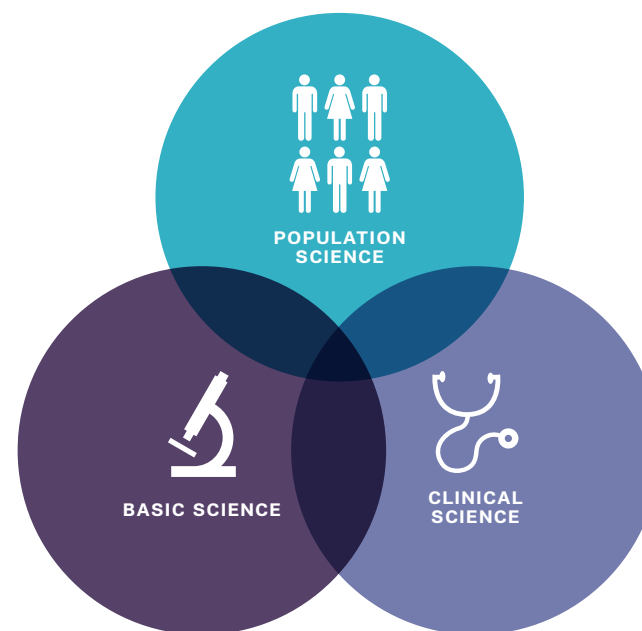


We now have
the ability to
prevent hundreds
of thousands of
deaths each
year worldwide.

“The advance in HPV research over the past 25 years is one of the great success stories in modern molecular biology.”

– LOU LAIMINS, PhD

*Pioneering HPV researcher and Damon Runyon alumnus
Northwestern University, Chicago, Illinois*



35 YEARS AGO, we had no idea that the human papillomavirus, or HPV, can cause cancer. Today, with the help of new cancer therapeutics and a preventative vaccine, these cancers could be eradicated for the next generation, just like smallpox or polio.

Getting here took dedicated basic scientific research, sophisticated population studies, and compassionate clinical care.

It took diving deep into the basic biology of cancer-causing viruses—long before scientists could even conceive of a vaccine to protect against them.

It took noticing some patients were different and having the insight to ask “Why?”

It took asking the right questions, even when the rest of the scientific world wasn’t listening.

“The brilliance of the HPV story is that the virus was identified as causing cervical cancer in the early 1980s, and already by the early 2000s, there were preventative vaccines entering clinical trials. It really is a huge success.”

– MAURA L. GILLISON, MD, PhD
Former Damon Runyon Clinical Investigator
Ohio State Comprehensive Cancer Center, Columbus, Ohio

While thousands of scientists contributed to the continuum of research on HPV and cancer, Damon Runyon scientists made some of the most important discoveries at key tipping points. Their roles were critical in ushering in the possibility of a world without these cancers.

ERASING HPV-ASSOCIATED CANCER



2013

The CDC announces HPV infection rates have dropped by half in girls ages 14-19.



2006

The first vaccine to prevent against most cancer-causing strains of HPV is approved by the FDA. The CDC swiftly moves to recommend widespread vaccination.



1988

As a *Damon Runyon Fellow*, Dr. Lou Laimins demonstrates that cells infected with HPV start to exhibit abnormal behavior, consistent with cancer onset.



1980s

First work published suggesting a link between HPV and cervical cancer.

2010

Dr. Gillison and Dr. Christine Chung, also a *Damon Runyon Clinical Investigator*, jointly publish a case study shedding light on the prognostic and diagnostic implications of HPV-related cancer. Their work goes on to change the standard of care for hundreds of thousands of cancer patients.

2004

Dr. Maura Gillison, a *Damon Runyon-Lilly Clinical Investigator*, is the first to demonstrate that HPV causes head and neck cancer through large-scale population research.



2000



1992 & 1993

Dr. Nubia Aristizabal, a *Damon Runyon Fellow*, builds on Dr. Laimins' work to publish among the first population studies demonstrating HPV causes cervical cancer.

1990



1980

1930s-1950s

Cervical cancer is the leading cause of cancer-related death in women in the United States before Dr. George Papanicolaou's (a *Damon Runyon grantee*) method of screening for cervical cancer risk, the "Pap" smear, enters widespread clinical use, enabling doctors to diagnose cervical cancer earlier and treat it more effectively.

1930

DISCOVERY

“Human papillomavirus 16 linked to oral cancer with good prognosis”

The Lancet, 2000

THANKS TO DAMON RUNYON SCIENTISTS,

doctors can now distinguish HPV-related head and neck cancers from those not caused by HPV and treat patients accordingly. HPV status is the most important indicator of a patient’s prognosis after their diagnosis.

60-70%

The CDC estimates that as many as 60-70% of head and neck cancers are caused by HPV.

Image Source: 2010, Nephron; Wikipedia Commons

Funding Game-Changers

THE DAMON RUNYON RESEARCHERS

who laid the foundation for a victory against HPV-related cancers have one thing in common: they wouldn’t have been able to do their work without Damon Runyon support.

Maura Gillison, MD, PhD, hadn’t found a focus for her research at Johns Hopkins University until one day in 1996 when she fell into step with a colleague walking back to her office from a departmental meeting. Her colleague mentioned a surprising case report: a researcher had found HPV in sample cells taken from a patient with head and neck cancer. Maura was fascinated. It could be a fluke, a coincidence. But what if it wasn’t?

Within a week, Maura was pursuing the mystery full-time, sifting through years of data and samples dating back decades. Eighteen sleepless months later, she had preliminary evidence suggesting that HPV might cause many more cancers than originally thought.

But Maura’s research wasn’t embraced by other researchers working on cancer and

HPV. She recalls, “I remember going to the international HPV meeting, the first time I’d presented the data. [This meeting had all the world’s experts on HPV, and there were only six people in the audience. That said to me: no one believes in what I’m working on. No one cares.](#)”

Maura and her mentors believed she was on the path of something important, but she needed someone to believe in her research enough to fund it. She turned to the Damon Runyon Cancer Research Foundation to make the case that the project was risky but vital, that it had the potential to transform patients’ lives.

[Damon Runyon agreed.](#)

Maura says, “The Damon Runyon Award was critical because it meant respected scientists read my application and thought I was onto something. It made me a free agent and gave me the resources to continue my work. [I never would have been able to follow up on what I was doing without it.](#)”

“It was a really exciting project because everything we did brought in new information. But in retrospect, I had no awareness at the time of the significance of what I was doing.”

– MAURA L. GILLISON, MD, PhD



Collaborating to Save Lives

NOT ONLY DOES DAMON RUNYON

provide crucial funding to exceptional researchers, it brings them together and encourages the collaborations that accelerate breakthroughs. In the case of HPV-related cancers, encouraging those collaborations has helped countless patients.

While Maura was fighting for her work, Christine Chung, MD, a Damon Runyon physician-scientist at Vanderbilt University and now at Johns Hopkins University, was wishing she could explain to her newly diagnosed patients why they'd gotten head and neck cancer. "Before, when my patients asked me 'Why do I have this cancer, when I don't smoke, when I don't drink?' my answer would have been 'I'm sorry, but I don't know,'" Christine remembers.

Christine and Maura met at a Damon Runyon meeting and realized they were both working with the same group of tumor samples. It was an easy decision to team up.

This work, further exploring the implications HPV infection held for cancer patients, was published in 2010. The research showed that HPV-associated head and neck cancers have a far better prognosis than those not caused by HPV, which not only let Christine explain to her patients why they had cancer, but also to give them hope. [These findings have enabled doctors to target the right treatments to the right patients based on their specific type of cancer, saving thousands of lives.](#)

Many fruitful scientific partnerships born from Damon Runyon meetings continue to this day. As former Damon Runyon Fellow Lou Laimins says, "Science is a small world, and these meetings provided some of my first interactions with young scientists who would go on to become leaders in their respective fields."

"Being a Damon Runyon scientist brings people together. Damon Runyon scientists are smart, selective, and good at what they do! You want to work with them, because you want to work with dedicated, focused people."

– CHRISTINE H. CHUNG, MD



THE BUILDING BLOCKS

Two Damon Runyon Fellows were instrumental in proving HPV was linked to cancer.

As a Damon Runyon Fellow in the early 1980s, **Lou Laimins, PhD** was one of the earliest scientists working to understand HPV on a molecular level. His work showed exactly how HPV transformed cells in the body, leading to cancer.

Just a few years later, **Nubia Aristizabal, PhD**, published definitive epidemiological work linking HPV infection rates to drastically increased cervical cancer rates in large populations.

"Funds were very tight...without Damon Runyon support, I would not have been able to conduct my postdoctoral studies."

– LOU LAIMINS, PhD



LOU LAIMINS, PhD
Damon Runyon Fellow 1981-1983



NUBIA ARISTIZABAL, PhD
Damon Runyon Fellow 1965-1967

Making An Impact

“None of this would have been possible without Damon Runyon.”

— MAURA L. GILLISON, MD, PhD

CANCERS BEGIN IN SECRET, a tiny unseen spark buried deep in the body. Finding what causes the spark is an enormous task, but a vital one in any victory against a cancer.

Thanks in large part to the Damon Runyon scientists who forged a new path in a young field, we now understand how HPV causes cancer throughout the body and how to stop it. New therapies have been developed to better help patients with existing HPV-associated cancers. Coupled with a vaccine that blocks HPV from taking hold in the body in the first place, we are poised to erase HPV-associated cancers.

It's a success story by any measure. It took a tremendous amount of courage, insight, and teamwork to get here.

And at any point, the chain of progress could have been broken:

A young postdoctoral fellow makes a choice to turn away from the lab due to money. Or promising research is laid aside because it is deemed too far-fetched.

Damon Runyon finds researchers at these crucial moments and gives them the support they need to continue on, to cast aside the safe bet in favor of the risky leap forward. It brings these brilliant scientists together, allowing them to accelerate progress far beyond what could be accomplished alone.

Eradicating HPV-associated cancers will save hundreds of thousands of lives worldwide. But that's just one success story. Damon Runyon researchers are already hard at work generating many more.

WE CAN STOP HPV-RELATED CANCERS

The CDC now recommends all women through age 26 and all men through age 21 be vaccinated for HPV in order to protect against HPV-associated cancers.

The Promise:
HPV PREVALENCE RATES
are dropping—**7.6%** in 2006
to **3.6%** in 2010

2006

2010

The Challenge:
NEARLY 650,000
HPV-associated cancer
cases worldwide

HPV-RELATED CANCERS
make up **5%** of the global
cancer burden



The Hope:

Through prevention, we can erase these devastating cancers for the next generation.

Damon Runyon Board of Directors



“The Damon Runyon Board is extraordinarily committed to supporting the best young minds in cancer research. We are singularly focused on this mission.”

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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.

THREE-YEAR AWARD:
\$450,000

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.

THREE-YEAR AWARD:
Basic Scientists:
\$156,000
Physician-Scientists:
\$186,000

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- 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

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

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

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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

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

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

ILLINOIS

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

Damon Runyon-Rachleff Innovation Awards (continued)

MASSACHUSETTS

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

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

MATTHEW G. VANDER HEIDEN, MD, PhD
“Understanding the metabolic requirements of cancer cells” at the 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

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

AGNEL SFEIR, PhD
“Pathways involved in preserving the genomic stability of mitochondrial DNA” at the New York University School of Medicine, New York

PENNSYLVANIA

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

TEXAS

NICHOLAS E. NAVIN, PhD
[Nadia’s Gift Foundation Innovator](#)
“Developing single-cell sequencing methods to investigate metastatic seeding in breast cancer” at the MD Anderson Cancer Center, Houston

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

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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Houston, Texas

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

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

ANN MULLALLY, 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. DeAngelo, MD, PhD, Brigham and Women’s Hospital, Boston

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

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
“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

TENNESSEE

CHRISTINE M. LOVLY, MD, PhD
“Developing novel therapeutic strategies for ALK-fusion positive lung cancer” with William Pao, MD, PhD, Vanderbilt University, Nashville

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Chief, Pediatric Bone Marrow Transplant Service
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Memorial Sloan-Kettering Cancer Center
New York, New York

Damon Runyon Clinical Investigator Awards (continued)

TEXAS

RALPH J. DEBERARDINIS, MD, PhD
“Translational studies in cancer metabolism” with Helen H. Hobbs, MD, University of Texas Southwestern Medical Center, Dallas

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

UTAH

KEVIN B. JONES, MD
“The mitochondrial apoptosis pathway in synovial sarcoma” with Mario R. Capecchi, PhD, and Sunil Sharma, MD, University of Utah, Salt Lake City

JOSHUA D. SCHIFFMAN, MD
“Microsatellite length and integrin signaling as risk factors for Ewing’s Sarcoma” with Stephen L. Lessnick, MD, PhD, University of Utah, Salt Lake City

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

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

Damon Runyon Clinical Investigator Award Continuation Grants

CONNECTICUT

TOBIAS J.E. CARLING, MD, PhD
“Molecular genetics of endocrine tumor disease” with Richard P. Lifton, MD, PhD, and Robert Udelsman, MD, Yale University School of Medicine, New Haven

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

MINNESOTA

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

NORTH CAROLINA

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

WASHINGTON

BRIAN G. TILL, MD
[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

Damon Runyon Fellowship Award Committee

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Memorial Sloan-Kettering Cancer Center
New York, New York

BRENT R. STOCKWELL, PhD

Associate Professor
Department of Biological Sciences and Department of Chemistry
Columbia University
New York, New York

Damon Runyon Fellowship Awards

CALIFORNIA

PEDRO J. BATISTA, PhD
[Kenneth G. and Elaine A. Langone Fellow](#)

“Role of RNA modifications in lncRNA function” with Howard Y. Chang, MD, PhD, Stanford University School of Medicine, Stanford

GIRA BHABHA, PhD
[Merck Fellow](#)

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

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

DAVID K. BRESLOW, PhD
[Connie and Bob Lurie Fellow](#)
“Dissecting the functions of phosphoinositide lipids in the primary cilium” with Maxence V. Nachury, PhD, Stanford University, Stanford

DENIZ S. BUCK, 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, San Francisco

GAMZE Ö. ÇAMDERE, PhD
“*In vitro* and *in vivo* characterization of cohesin-DNA interaction” with Douglas E. Koshland, PhD, University of California, Berkeley, Berkeley

STEVEN D. CAPPELL, PhD
“Molecular dynamics of the G1/S transition” with Tobias Meyer, PhD, Stanford University, Stanford

LEON Y. CHAN, PhD
[Howard Hughes Medical Institute Investigator](#)
“Elucidating the role of RNA turnover in the meiotic and mitotic cell divisions” with Karsten Weis, PhD, University of California, Berkeley, Berkeley

STEPHANIE TURNER CHEN, PhD
“Analysis of somatosensory neuron function and lineage through nuclear reprogramming” with David J. Julius, PhD, University of California, San Francisco, San Francisco

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, San Francisco

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

ADAM DE LA ZERDA
“Imaging cancer glycomes with functionalized carbon nanotubes” with Carolyn R. Bertozzi, PhD, University of California, Berkeley, 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, Berkeley

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, 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, San Francisco

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

SARAH E. EWALD, PhD
[Dennis and Marsha Dammerman Fellow](#)
“Innate immune detection of *Toxoplasma gondii* in the host cell cytosol” with John C. Boothroyd, PhD, Stanford University School of Medicine, Stanford

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

ITAMAR HAREL, PhD
“Defined factors for the rejuvenation of aged cells” with Anne Brunet, PhD, Stanford University School of Medicine, Stanford

XI HUANG, PhD
[Kandis Ann Ulrich-Carleton Fellow](#)
“Functional significance of potassium channel EAG2 in medulloblastoma” with Lily Y. Jan, PhD, University of California, San Francisco, 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, San Francisco

JOHN J. KARIJOLICH, PhD
“Identification and characterization of noncoding RNAs involved in Epstein-Barr virus-mediated cellular transformation” with Britt A. Glaunsinger, PhD, University of California, Berkeley, Berkeley

YUMI KIM, PhD
[Howard Hughes Medical Institute Investigator](#)
“Identification of the signaling cascades regulating meiotic chromosome dynamics” with Abby F. Dernburg, PhD, University of California, Berkeley, Berkeley

JESSICA P. LAO, PhD
“Identifying metabolic targets of the DNA damage checkpoint” with David P. Toczyski, PhD, University of California, San Francisco, San Francisco

STEVEN LIN, PhD
[Howard Hughes Medical Institute Investigator](#)
“Molecular mechanism of Cas9, an RNA-guided DNA endonuclease” with Jennifer A. Doudna, PhD, University of California, Berkeley, Berkeley

XIAOXIAO SHAWN LIU, PhD
“Mechanisms of Hedgehog signal transduction by smoothened in the cilium” with Philip A. Beachy, PhD, Stanford University, Stanford

HUA LU, PhD
[Jake Wetchler Foundation Fellow for Pediatric Innovation](#)
“Homogeneous antibody-drug conjugates containing unnatural amino acid for targeted AML therapy” with Peter G. Schultz, PhD, Scripps Research Institute, La Jolla

WAN-JIN LU, PhD
[Merck Fellow](#)
“Role of Hedgehog signaling pathway in injury-inducible regenerative response and cancer development” with Philip A. Beachy, PhD, Stanford University School of Medicine, Stanford

WENYU LUO, PhD
“A *Drosophila* model to study resilience to social stress and depression-like behavior” with Yuh-Nung Jan, PhD, University of California, San Francisco, San Francisco

RAYMOND E. MOELLERING, PhD
[Howard Hughes Medical Institute Investigator](#)
“Characterization of novel pathogenic pathways in cancer: do tumor cells use quorum-sensing molecules to support malignancy?” with Benjamin F. Cravatt, PhD, Scripps Research Institute, La Jolla

ANDREW R. NAGER, PhD
[Fayez Sarofim Fellow](#)
“Dissecting the mechanism of selective diffusion into the primary cilium” with Maxence V. Nachury, PhD, Stanford University School of Medicine, Stanford

EVGENIA N. NIKOLOVA, PhD
[Robert Black Fellow](#)
“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

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

LISA R. RACKI, PhD
[Howard Hughes Medical Institute Investigator](#)
“Polyphosphates and stationary phase survival” with Dianne K. Newman, PhD, California Institute of Technology, Pasadena

MAURIZIO RIGHINI, PhD
[Merck Fellow](#)
“Single molecule translation control” with Carlos J. Bustamante, PhD, University of California, Berkeley, Berkeley

JAMES P. SCOTT-BROWNE, PhD
[Fraternal Order of Eagles Fellow](#)
“Function and genomic stability of 5-hydroxymethylcytosine” with Anjana Rao, PhD, La Jolla Institute for Allergy and Immunology, La Jolla

LORA B. SWEENEY, PhD
[Howard Hughes Medical Institute Investigator](#)
“Spinal circuit remodeling during developmental transitions in motor behavioral strategy” with Christopher R. Kintner, PhD, and Thomas M. Jessell, PhD, Salk Institute, San Diego

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, San Francisco

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, San Diego

JAKOB VON MOLTKE, PhD
[Howard Hughes Medical Institute Investigator](#)
“Innate type II cells and wound healing” with Richard Locksley, MD, University of California, San Francisco, San Francisco

VICTORIA E.H. 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, 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, Los Angeles

ALEXANDER WARD, PhD
[Howard Hughes Medical Institute Investigator](#)
“Investigations of cancer signaling pathways in *Drosophila* olfactory system development” with Lihun Luo, PhD, Stanford University, Stanford

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

QIONG YANG, PhD
[Howard Hughes Medical Institute Investigator](#)
“Nonlinear coupling of positive and negative feedback loops in *Xenopus* early embryonic cycles” with James E. Ferrell, MD, PhD, Stanford University, Stanford

Damon Runyon Fellowship Awards (continued)

HYUN YOUK, PhD
[Howard Hughes Medical Institute Investigator](#)

“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, San Francisco

COLORADO

JENS C. SCHMIDT, PhD
[Merck Fellow](#)

“Single-molecule analysis of telomerase recruitment to telomeres” with Thomas R. Cech, PhD, University of Colorado, Boulder

ILLINOIS

MELANIE ISSIGONIS, PhD
[Howard Hughes Medical Institute Investigator](#)

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

YOKO SHIBATA, PhD
[Howard Hughes Medical Institute Investigator](#)

“Identifying protein quality control mechanisms in the nucleus” with Richard I. Morimoto, PhD, Northwestern University, Evanston

MARYLAND

CHIH-YUNG LEE, PhD
[Howard Hughes Medical Institute Investigator](#)

“Regulation of primordial germ cell fate in *C. elegans*” with Geraldine Seydoux, PhD, The Johns Hopkins University, Baltimore

MASSACHUSETTS

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

ANNE H. BOTHMER, PhD
[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

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

SIDI CHEN, PhD
“Investigation 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

MICHAEL A. CIANFROCCO, PhD
[Howard Hughes Medical Institute Investigator](#)

“How does dynein achieve processivity?” with Andres Leschziner, PhD, and Samara L. Reck-Peterson, PhD, Harvard University, Cambridge

WENWEN FANG, PhD
[Howard Hughes Medical Institute Investigator](#)
“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, Cambridge

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

MARIA M. MIHAYLOVA, PhD
[Robert Black Fellow](#)
“Examining how nutrient state dependent metabolic reprogramming in the Paneth cells controls intestinal stem cell renewal, differentiation and tumorigenesis” with David M. Sabatini, MD, PhD, Whitehead Institute for Biomedical Research, Cambridge

RENEE OTTEN, PhD
[Howard Hughes Medical Institute Investigator](#)
“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, 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

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

CHRISTOPHER 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

JOSHUA J. SIMS, PhD
“Regulation of mitochondrial apoptosis” with Peter K. Sorger, PhD, Harvard Medical School, Cambridge

MICHAEL J. SMANSKI, PhD
[Howard Hughes Medical Institute Investigator](#)
“Refactoring the genetics of magnetic nanoparticle synthesis” with Christopher A. Voigt, PhD, Massachusetts Institute of Technology, Cambridge

SUMMER B. THYME, PhD
[Howard Hughes Medical Institute Investigator](#)
“Chromatin modifications and pioneer transcription factors in development” with Alexander F. Schier, PhD, Harvard University, Cambridge

COLE TRAPNELL, PhD
“Globally characterizing lncRNA oncogenes with next-generation transcriptomics” with John L. Rinn, PhD, Harvard University, Cambridge

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, Cambridge

OZLEM YILDIRIM, PhD
[Howard Hughes Medical Institute Investigator](#)
“Role of lncRNAs in inheritance of chromatin states during self-renewal and differentiation” with Robert E. Kingston, PhD, Massachusetts General Hospital, Boston

NEW JERSEY

STEPHANIE C. WEBER, PhD
[Howard Hughes Medical Institute Investigator](#)
“Mechanisms controlling cell and body size in the nematode *Caenorhabditis elegans*” with Clifford P. Brangwynne, PhD, and Howard A. Stone, PhD, Princeton University, Princeton

NEW YORK

NICHOLAS ARPAIA, PhD
[Robert Black Fellow](#)
“The role of microbiota-derived metabolic signals in shaping the intestinal immune landscape” with Alexander Y. Rudensky, PhD, Memorial Sloan-Kettering Cancer Center, New York

IOK IN CHRISTINE CHIO, PhD
“Regulation of the global redox landscape: Investigating the role of Nrf2 in pancreatic cancer development” with David A. Tuveson, MD, PhD, Cold Spring Harbor Laboratory, Cold Spring Harbor

LYDIA FINLEY, PhD
[Jack Sorrell Fellow](#)
“Regulation of cancer cell growth and survival by the propionate catabolic pathway” with Craig B. Thompson, MD, 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

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 Investigator](#)
“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

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

JIHYE YUN, PhD
“Discovering novel metabolic pathways and enzymes altered by oncogenes” with Lewis C. Cantley, PhD, Weill Medical College of Cornell University, New York

DMITRIY ZAMARIN, MD, PhD
[Dr. Bart A. Kamen Fellow](#)
“Immunotherapeutic approach to cancer treatment integrating oncolytic virotherapy and immune checkpoint regulation” with Jedd D. Wolchok, MD, PhD, Memorial Sloan-Kettering Cancer Center, New York

NORTH CAROLINA

ERIN A. OSBORNE NISHIMURA, PhD
[Howard Hughes Medical Institute Investigator](#)
“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 Investigator](#)
“Investigating the genetic and neurochemical basis of sleep homeostasis” with Amita Sehgal, PhD, University of Pennsylvania School of Medicine, Philadelphia

TENNESSEE

MARY J. HARNER, PhD
“Discovery of ATAD2 inhibitors for cancer treatment” with Stephen W. Fesik, PhD, Vanderbilt University Medical Center, Nashville

TEXAS

CHRISTINE R. BECK, PhD
[Howard Hughes Medical Institute Investigator](#)
“Mechanisms underlying copy number gain in cancer and genomic disorder-associated complex rearrangements” with James R. Lupski, MD, PhD, Baylor College of Medicine, 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, Houston

Damon Runyon Fellowship Awards (continued)

WASHINGTON

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

PETER J. SKENE, PhD
“Roadblocks to reprogramming: the role of Chd1 and histone variant H3.3” with Mark T. Groudine, MD, PhD, and Steven Henikoff, PhD, Fred Hutchinson Cancer Research Center, Seattle

Damon Runyon-Sohn
Pediatric Cancer Fellowship Award Committee

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Julia and Edward J. Minskoff
Professor of Pediatrics
Professor of Pathology
NYU Langone Medical Center
New York, New York

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Director, Leukemia Center
Vice Chair for Basic and
Translational Research,
Department of Pediatrics
Grayer Family Chair
Memorial Sloan-Kettering
Cancer Center
New York, New York

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The Johns Hopkins University
School of Medicine
Baltimore, Maryland

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

FREDERICK R. CROSS, PhD
Professor, Laboratory of Yeast
Molecular 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
William E. Snee Chair
Member, Developmental
Biology Program
Memorial Sloan-Kettering
Cancer Center
New York, New York

JAMES M. OLSON, MD, PhD
Member
Division of Clinical Research
Fred Hutchinson Cancer
Research Center
Seattle, Washington

MARTINE F. ROUSSEL, PhD
Member and Endowed Chair in
Molecular Oncogenesis
Co-Director, Cancer Center Signal
Transduction Program
St. Jude Children’s
Research Hospital
Memphis, Tennessee

CHRISTOPHER C. WYLIE, PhD
William Schubert Chair and Director
Division of Developmental Biology
Children’s Hospital Medical Center
Cincinnati, Ohio

Damon Runyon-Sohn
Pediatric Cancer Fellowship Awards

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

SCOTT HAIHUA CHU, PhD
“The role of DOT1L in pediatric
leukemias” with Scott A. Armstrong,
MD, PhD, Memorial Sloan-Kettering
Cancer Center, New York, New York

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

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

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, San Francisco,
California

ANGELA J. SIEVERT, MD
“Preclinical models for therapeutic
targeting of BRAF altered pediatric
astrocytomas” with John M.
Maris, MD, Children’s Hospital
of Philadelphia, 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

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

JASON M. CRAWFORD, PhD
“Systematic approaches to
discovering bioactive bacterial
metabolites” at Yale University,
New Haven, Connecticut

ADAM DE LA ZERDA, PhD
"Molecular imaging of cell-
cell signaling in the tumor
microenvironment" at Stanford
University, Stanford, California

GABRIEL C. LANDER, PhD
"Deciphering the structural basis of
macromolecular functions involved
in cellular homeostasis" at The
Scripps Research Institute, La Jolla,
California



Damon Runyon 5K

Thank you to our donors.

Your support this year enabled us to fund \$12.3 million of research by today's most brilliant young cancer researchers chasing bold new ideas. Since its founding in 1946, in partnership with donors across the nation, the Foundation has invested nearly \$270 million in funding more than 3,400 young scientists.

Our 2013 Annual Breakfast raised **\$1.35 million** to support the nation's most revolutionary young cancer researchers. Sir Martin Sorrell, Group Chief Executive of WPP, the world's largest communications services group, was honored.

In August 2012, the **Damon Runyon 5K** at Yankee Stadium drew a crowd of 4,000 participants and raised **\$752,000**. In addition to the New York Yankees' support, other sponsors included the MetLife Foundation (presenting sponsor of the 2013 Runyon 5K), Brick-Run Sports Physical Therapy, NYSID, White Rose/Unilever, the New York Daily News, SiriusXM Satellite Radio, NBC 4 New York, 24 Hour Fitness, Poland Spring, Clif Bar, Delta, and Cabot Creamery. [Thank you to the sponsors, participants, and volunteers who made this event possible.](#)

Damon Runyon Broadway Tickets continues to offer premier seats to new hits like *Betrayal* and long-running shows like *The Book of Mormon*. We are especially grateful to the Shubert Organization, Nederlander Productions, Jujamcyn Theaters, and Disney Theatrical Productions for supporting life-changing research and making this program possible. Learn more at damonrunyon.org/broadway.

ACCELERATING CANCER CURES

Accelerating Cancer Cures is a multi-million dollar project that will train a new generation of exceptional clinical investigators capable of translating the latest scientific discoveries into new diagnostics and therapeutics for patients. The initiative also fosters communication and collaboration between academia and industry. Accelerating Cancer Cures is sponsored by some of the world's leading companies: Eli Lilly and Company, Celgene, Genentech, Merck, Millennium: The Takeda Oncology Company, and Pfizer. For more information, visit www.damonrunyon.org/accelerate.

Sponsored Awards

We are fortunate to have individual, foundation, and corporate sponsors who have partnered with us to launch or provide continuing support for specific award programs. We thank them for their vision and leadership.

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This award was established thanks to the vision and generosity of Debbie and Andy Rachleff.

Island Outreach
Foundation Innovator
CHRISTINE MAYR, MD, PhD
Memorial Sloan-Kettering
Cancer Center

Lau/Paliapitiya Innovator
SARAH M. WIGNALL, PhD
Northwestern University

Nadia's Gift Foundation Innovators
GREGORY L. BEATTY, MD, PhD
University of Pennsylvania

NICHOLAS E. NAVIN, PhD
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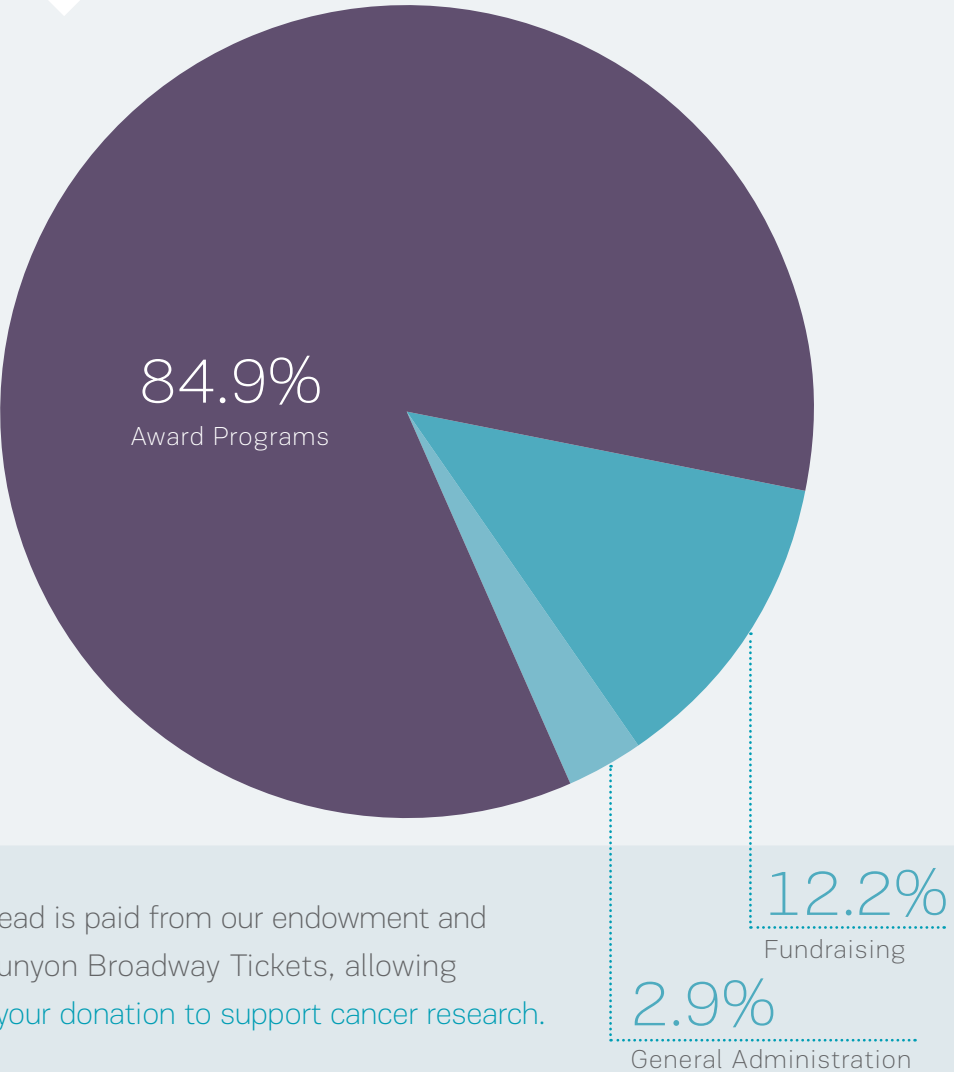
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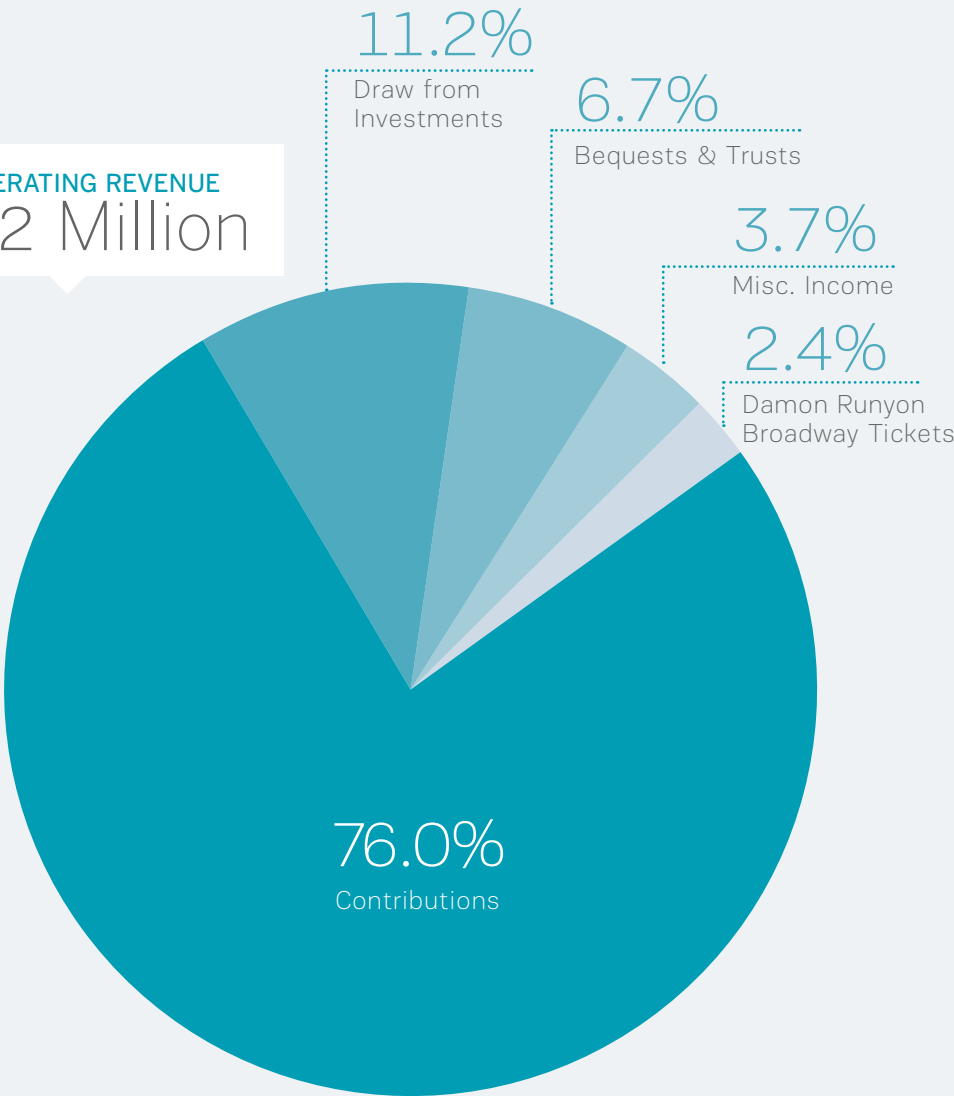
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