



# THE SCIENCE OF **LEADERSHIP**

—  
Annual Report 2018

DAMON RUNYON  
**CANCER RESEARCH**  
FOUNDATION



# Leadership is at the core of our mission. We do not simply fund cancer research. We identify and enable new generations of future scientific leaders capable of discovering radical new approaches to how we prevent, diagnose and cure the many forms of cancer.

We do this because it will take exceptional people to ultimately defeat a disease as pernicious and wily as cancer. We select these young scientists with great care and provide them with funding, mentorship, and support. They then go on to lead the most innovative and paradigm-shifting research—research that has saved and will continue to save lives.

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At the end of this year, our current President and Chief Executive Officer, **Lorraine W. Egan**, is stepping down after 18 years at the helm of the Damon Runyon Cancer Research Foundation.

She will be succeeded by **Yung S. Lie, PhD**, our Deputy Director and Chief Scientific Officer. At this momentous time for Damon

Runyon, it is fitting that the theme of this year's annual report is leadership.

In the pages that follow, we share our thoughts on leadership and how we are paving the way for new breakthroughs against cancer by finding and fostering the scientific leaders who will make the end of all suffering from cancer a reality.



## INTRODUCING

# Our Next Leader

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When our Fellowship Award Committee selected Yung S. Lie, PhD, as a Damon Runyon Fellow in 2000, little did they know that they were picking Damon Runyon's future President and CEO. She will be the first scientist and alumna to lead the organization since it was founded in 1946.

Dr. Lie received her BA degree from UC Berkeley and her PhD from Stanford University. As a Damon Runyon Fellow from 2001-2004, Dr. Lie studied how cells migrate and navigate their environment at the University of California, San Francisco and The Rockefeller University. She joined Damon Runyon in 2008 and currently serves as its Deputy Director and Chief Scientific Officer. Under her leadership, Damon Runyon scientists have pioneered the fields of immunotherapy, genomic and precision medicine; its award programs have expanded to target the greatest areas of need in cancer research; and Damon Runyon's research funding has grown by 225%, to more than \$18 million annually.

Dr. Lie's postdoctoral mentor, Mary Beth Hatten, PhD, Professor at The Rockefeller University and member of the National Academy of Sciences, calls her "a superb scientist and astute judge of scientific talent. Congratulations to Damon Runyon on an outstanding choice to lead their organization."

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In the scientific community, Damon Runyon is held in the highest esteem for its commitment to young scientists and rigor in selecting the best of the best. I am thrilled and honored to continue this important work and am confident that it will lead to new breakthroughs against cancer.

**YUNG S. LIE, PhD**



**LORRAINE W. EGAN:  
EIGHTEEN YEARS  
OF EXTRAORDINARY  
LEADERSHIP**

The Damon Runyon Cancer Research Foundation is grateful to Lorraine W. Egan for her leadership for the past eighteen years. Thousands of scientists have been funded during her tenure, and they have contributed significantly to accelerating progress against cancer during this century. She has built a deeply committed community of supporters who have enabled Damon Runyon to expand its research funding and develop new programs to ensure that the best young minds have the resources they need to pursue bold ideas. "Lorraine has set the gold standard for leadership," says Damon Runyon Board Chair Alan M. Leventhal. "Her commitment to our scientists, keen ability to inspire others, and above all, relentless drive to end cancer will have a lasting impact."



## EXECUTIVE Q&A

# Reflections on Leadership

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*The following are edited excerpts from an interview with Lorraine W. Egan, current President of the Damon Runyon Cancer Research Foundation, and her successor, Yung S. Lie, PhD. For video of the full interview, visit [www.damonrunyon.org](http://www.damonrunyon.org).*

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## Lorraine, what makes Damon Runyon a leader in cancer research?

**Lorraine:** The most important thing that comes to mind when I think about Damon Runyon is its commitment to excellence. We stand for excellence in the science that we fund, but also in terms of how we run our organization and steward our donors' gifts. Our donors are incredibly generous to support us and we take that very seriously. Our Board of Directors looks for excellence in the people to lead the organization. I'm honored that they selected me years ago and now it's incredible for me to pass the baton to somebody who is, first of all, a Damon Runyon alumna and, secondly, clearly the right person to lead Damon Runyon going forward. It's the ultimate success that we can have a seamless transition and maintain the quality and excellence of our organization.





As a scientist and former award recipient, Yung is the ideal person to lead our organization. She completely understands our mission. She understands the science. I can't think of a better person to take the helm of Damon Runyon.

LORRAINE W. EGAN

### What makes Yung the best choice to lead Damon Runyon?

**Lorraine:** It's exciting for me to be able to hand off the leadership to such a perfect person. Damon Runyon is all about the science. It is more important to us than anything, that we fund the best scientists doing paradigm-shifting work. As a scientist and former award recipient, Yung is the ideal person to lead our organization. She completely understands our mission. She understands the science. I can't think of a better person to take the helm of Damon Runyon.

### As the outgoing CEO of Damon Runyon, what advice do you have for her?

**Lorraine:** I'm not sure Yung needs any advice because she's so incredibly talented, but what has made us a good team, and what she'll carry on, is staying focused on our mission. It's all about the science and the scientists. If we stay true to that, no matter where the science goes and what new discoveries are made, funding brilliant people is always going to be the secret to success.

### Yung, what are you particularly excited about moving forward in this new role?

**Yung:** We are funding more research and more scientists than ever before, and there's the capacity to do more. I'm excited about the opportunity to work with our scientific leadership to identify the right places for Damon Runyon to fund more cancer research to make a greater impact.

**Lorraine:** The science is moving so fast and the discoveries are incredible. It's possible that during Yung's tenure as CEO tremendous breakthroughs will be made in cancer and more and more people's lives will be saved. I'll be a little jealous not to be at the helm for that.

### As a female scientist yourself, can you talk about some of the challenges that female scientists have?

**Yung:** Science is a particularly challenging career path for everyone, but we know that for women it is especially difficult to balance a very demanding career with having a young family and trying to be successful in all aspects of their lives. At Damon Runyon, we try to support our women scientists in ways that help them get through these times that can be very difficult. We help by providing all of our scientists who have young children with a childcare allowance and also provide women with additional resources to bring their children to our retreats, for example. We can also be mentors and provide additional support and advice as they need it.

### Are you ready to take the helm?

**Yung:** I feel very excited, honored and confident about stepping into this new role as the CEO at Damon Runyon. In part, it's because of the deep history and experience that I've had with Damon Runyon—having been a Fellow myself and then leading the scientific programs for so many years. Lorraine has been an incredible person to work with and to learn from, and so I do feel that I'm in the absolute best position to now move into this role.

# The Science of Identifying Future Leaders

Twelve scientists funded by Damon Runyon have received the Nobel Prize. Seventy-four are members of the prestigious National Academy of Sciences. Countless others are behind recent progress in precision medicine and immunotherapy, and spearheading promising and diverse new fields of research.

What is behind this stellar track record in choosing future leaders? Award selection committees that are as creative, risk-taking and scientifically diverse as the candidates they evaluate.

The world-renowned scientists on Damon Runyon's award committees hail from the nation's most prestigious research organizations and academic institutions. They are laser-focused on selecting the most brilliant young scientists and providing the support needed to turn their high-risk ideas into breakthroughs against cancer.

For William G. Kaelin, Jr., MD, Damon Runyon Board Member and Vice Chair of Scientific Programs, a rigorous selection process is key to identifying these rising stars.

"Clearly our peer review process has to be spectacular. You need exceptional people evaluating these individuals and their proposals because we are seeking the best and brightest people."

For our junior faculty awards, finalists must pitch their proposals in person, a dynamic process that allows committee members to interact with applicants in real time. Are they fearless, willing to push outside of their comfort zone, or are they going to take the obvious path? "We like people who ask big, important, interesting questions, and they have to be courageous in the way they pursue them."

The award selection committees also think broadly about the best science to fund. As Dr. Kaelin observes, "You can't always predict what



the outcomes of the work are going to be. The person who's working on breast cancer might break the back of some other cancer problem unrelated to breast cancer."

Rachel Green, PhD, Chair of the Fellowship Award Committee and also a former Damon Runyon Fellow, says, "Our role is to do our very best to help come up with a balanced set of views on the committee. That really does enable us to pick the best set of people." Dr. Green, a biochemist, acknowledges, "The committee members' diverse backgrounds allow them to identify the exciting ideas and approaches across many disciplines as they emerge to understand and target cancer." And new doesn't always mean better. "Something isn't good just because it uses

new methods and doesn't ask hard questions," says Dr. Green.

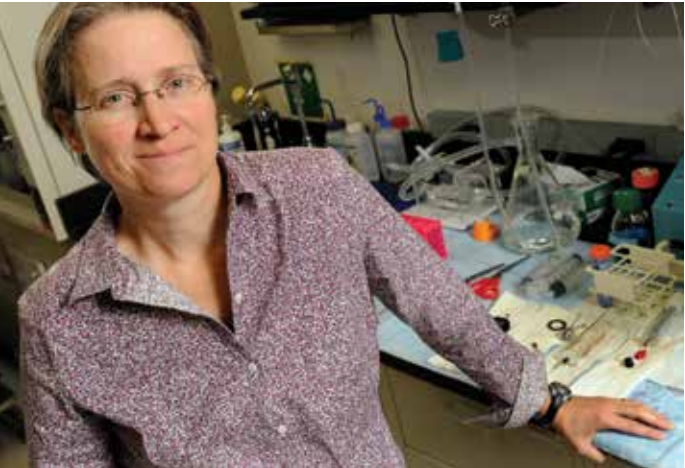
This explains why Damon Runyon alumni dominate the biomedical ecosystem—running top-tier research laboratories, publishing landmark studies and founding biotech companies to move their discoveries to patients.

Dr. Kaelin emphasizes that Damon Runyon plays a critical role in keeping the most promising scientists engaged in cancer research. **"I can't help but wonder how many of these people, along with their potential contributions toward improving cancer care, would be lost without the support of Damon Runyon and its generous donors."**



**William G. Kaelin, Jr., MD**

- Damon Runyon Board Member and Vice Chair, Scientific Programs, 2016–Present
- Chair, Physician-Scientist Training Award Committee, 2015–Present
- Member, Clinical Investigator Award Committee, 2006–2016, Chair, 2013–2016
- Dana-Farber Cancer Institute/ Harvard Cancer Center



**Rachel Green, PhD**

- Chair, Fellowship Award Committee, 2018–present, Member 2015–2018
- Member, Innovation Award Committee, 2008–2014
- Damon Runyon Fellow, 1993–1996
- Johns Hopkins University School of Medicine



## OUR SCIENTISTS

# Grooming Future Leaders

Mentorship is a critical part of enabling young scientists to reach their highest potential.

Every day, researchers pour their energy and passion into work they hope will contribute to lifesaving discoveries, but along the way they will face experimental failures and disappointment. Strong mentors not only support them through these rough times, but also foster the skills needed to have long and successful careers in research.



Elaine has this exquisite ability, like an oracle,  
to see where the field is going and navigate  
in that direction. That isn't always intuitive.  
Working with her, you hone that skill.

JULIE SEGRE, PhD

Damon Runyon Board Member and former Damon Runyon Fellow Elaine V. Fuchs, PhD, is exactly the kind of mentor we seek. First and foremost, her own career makes her the perfect role model. She is one of the most renowned cell biologists today, highly recognized for her breakthrough discoveries regarding the biology of the skin and the role of stem cells in communicating with immune, dermal, and other cells in their environment. She is a Professor at The Rockefeller University, a Howard Hughes Medical Institute Investigator, and has received numerous prestigious awards for her groundbreaking science.

Beyond her personal success, she has trained many of the current leaders in science, including seven Damon Runyon scientists. “Developing young researchers to be tomorrow’s leaders is critical to the future of discovery,” says Dr. Fuchs.

Julie Segre, PhD, currently at the National Human Genome Institute, completed her Damon Runyon Fellowship with Dr. Fuchs. “Elaine fostered a vibrant scientific environment, where you were challenged to be fearless. She pushed her mentees out of their comfort zones

to find unconventional solutions to the problems they were investigating,” says Dr. Segre.

The scientists coming out of the Fuchs lab are not only trained in laboratory science, but also the business and infrastructure of running a lab. They learn how to advocate for themselves, have direction and purpose, network, and communicate their research. “Elaine has this exquisite ability, like an oracle, to see where the field is going and navigate in that direction. That isn’t always intuitive. Working with her, you hone that skill,” explains Dr. Segre.

Dr. Segre now mentors many others—including Damon Runyon-Dale F. Frey Breakthrough Scientist and former Fellow Shruti Naik, PhD. They met at the National Institutes of Health during Dr. Naik’s graduate studies. Dr. Naik went on to work under Dr. Fuchs for her Damon Runyon Fellowship before launching her own lab at New York University School of Medicine this year. “My mentors have been my anchors in science. Julie, along with my graduate advisor and Elaine, have been fantastic in leading by example. They are really daring scientists, who ask big questions,” says Dr. Naik.

**“Ultimately, the level at which science can advance depends on investing time and effort in emerging leaders,” says Dr. Fuchs.**

As a mentor, that requires answering questions, probing those failed experiments, and being open-minded to new ideas. It also means taking the time to understand the individual in the lab coat. “By doing this, you empower them to go out into the world and do great things,” adds Dr. Naik.

### Elaine V. Fuchs, PhD

- Damon Runyon Board Member
- Damon Runyon Fellow, 1977-1979
- Laboratory Head, Laboratory of Mammalian Cell Biology and Development
- Rebecca C. Lancefield Professor, The Rockefeller University

OPPOSITE PAGE, (L to R):  
Shruti Naik, PhD; Elaine V. Fuchs, PhD; Julie Segre, PhD



## OUR SCIENTISTS

# Successful Leadership— Our Ultimate Goal

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Damon Runyon has countless examples of scientists we identified and supported as young scientists who have gone on to become leaders in research.

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### Jedd D. Wolchok, MD, PhD

- Damon Runyon Clinical Investigator, 2003–2008
- Chief, Melanoma & Immunotherapeutics Service at MSK
- Director, Parker Institute for Cancer Immunotherapy at MSK





I remember the day that Dr. Wolchok walked in with the scans saying, 'The tumors are gone!' I cried, and he said, 'Why are you crying? You should be happy.' And he was right.

#### KAREN TAPHORN

Jedd D. Wolchok, MD, PhD, a former Damon Runyon Clinical Investigator at Memorial Sloan Kettering Cancer Center, is a case in point. He is a scientist we take great pride in having funded long before he became an international leader in immunotherapy\*, which has transformed melanoma from deadly to a treatable disease for people like Karen Taphorn.

Karen's melanoma first appeared in 2011 as a bleeding mole on her back. "They surgically removed it, and we hoped that was the end of the journey." Within a year, melanoma had returned in the scar tissue. Six months after that, a scan revealed the cancer had spread to 24 tumors in her lungs. She was devastated. "When someone gives you a diagnosis of stage four melanoma, a thousand things go through your mind. You just want to live." Then she found Dr. Wolchok.

**Damon Runyon funded Dr. Wolchok at a time when many doubted that immunotherapy, or harnessing patients' immune systems to attack cancers, would ever work.** We believed in Dr. Wolchok and his conviction that immunotherapy would ultimately be successful and enabled him to pursue this lifesaving work. "For the first 20 years of my career, we could expect a person to survive six or seven months, even after treatment with chemotherapy. (Patient survival) has now changed to more than three years, and sometimes indefinitely," says Dr. Wolchok.

Dr. Wolchok led the clinical trials of the first immunotherapy approved by the FDA. He enrolled Karen in a more recent clinical trial he was leading that combined two immunotherapy drugs called checkpoint

inhibitors. The drugs release the natural brakes on immune cells, allowing them to recognize and attack tumors. The results were astounding. "Karen went through the entire trial. She had no significant side effects and has had a durable complete remission, which lasts until today."

Karen maintained her quality of life during cancer treatment. "The side effects were so slight that nobody knew I was sick, period. I did not lose my hair. I did not lose weight. I did not sleep all the time. I carried on my life just as I did before they told me that I was sick.

"I remember the day that Dr. Wolchok walked in with the scans saying, 'The tumors are gone!' I cried, and he said, 'Why are you crying? You should be happy.' And he was right."

**This is what funding future leaders is all about.**

*\* This year's Nobel Prize in Physiology or Medicine recognized immunotherapy as a breakthrough that has led to an entirely new class of lifesaving drugs. Dr. Wolchok helped bring this treatment to patients by conducting the first clinical trial of the first checkpoint inhibitor approved for cancer. Watch "Anatomy of a Breakthrough," the story of Dr. Jedd Wolchok's cutting-edge work in immunotherapy, at [www.damonrunyon.org](http://www.damonrunyon.org).*



KAREN TAPHORN

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# Award Programs

In FY2018, Damon Runyon awarded nearly **\$18.3 million** to 69 newly selected, exceptional scientists.

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## DAMON RUNYON-RACHLEFF INNOVATION AWARD

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

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

*with possibility of extension up to an additional \$300,000*

## DAMON RUNYON FELLOWSHIP AWARD

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

### **FOUR-YEAR AWARD: \$231,000**

## DAMON RUNYON-DALE F. FREY AWARD FOR BREAKTHROUGH SCIENTISTS

Supports a select few Damon Runyon Fellows who have greatly exceeded the Foundation's highest expectations. This additional investment in these exceptional individuals catapults their research careers and their impact on cancer.

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

## 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; with possibility of extension up to an additional \$300,000*

## DAMON RUNYON-SOHN PEDIATRIC CANCER FELLOWSHIP AWARD

Supports dedicated basic scientists and clinicians who conduct research with the potential to significantly impact the prevention, diagnosis or treatment of one or more pediatric cancers.

### **FOUR-YEAR AWARD: \$231,000**

## DAMON RUNYON PHYSICIAN-SCIENTIST TRAINING AWARD

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

### **FOUR-YEAR AWARD: \$460,000**

*plus up to \$100,000 for medical school loan repayment*

# Innovation Award Committee

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Leader, Cancer Immunology Program  
UCSF Helen Diller Family  
Comprehensive Cancer Center  
San Francisco, California

**Joshua T. Mendell, MD, PhD**

Howard Hughes Medical  
Institute Investigator  
Professor and Vice-Chair  
Department of Molecular Biology  
University of Texas Southwestern  
Medical Center  
Dallas, Texas

**Joseph R. Osborne, MD, PhD**

Chief of Nuclear Medicine and  
Molecular Imaging Division  
Clinical Chief of Molecular Imaging  
Innovation Institute (MI3)  
New York-Presbyterian Hospital/  
Weill Cornell Medicine  
New York, New York

**Julie Segre, PhD**

Senior Investigator  
Chief, Translational and Functional  
Genomics Branch  
Head, Microbial Genomics Section  
National Human Genome  
Research Institute, NIH  
Bethesda, Maryland

**FOUNDING MEMBER**

**Ronald Levy, MD**

Robert K. and Helen K.  
Summy Professor  
Stanford University School  
of Medicine  
Stanford, California



The funding has enabled me to pursue a highly innovative project, which would have been difficult to do without the help from the Foundation. It has allowed me to expand the research of my lab in a new direction.



**GUILLEM PRATX, PhD**

Damon Runyon-Rachleff Innovator, 2015-2018  
Stanford University

DAMON RUNYON-RACHLEFF

# Innovation Awards

CALIFORNIA

**Rushika M. Perera, PhD**  
Mechanisms of cellular transformation at the signal organelle level at the University of California, San Francisco

MASSACHUSETTS

**Eric S. Fischer, PhD\***  
Novel mechanisms for small molecule induced targeted degradation of RRM family proteins at Dana-Farber Cancer Institute, Boston

**Marcela V. Maus, MD, PhD**  
Next-generation CAR T cells for EGFRvIII-positive glioblastoma at Massachusetts General Hospital, Boston

NEW YORK

**Arnold S. Han, MD, PhD\***  
Precision T cell receptor-based cancer therapies at Columbia University, New York

**Amaia Lujambio, PhD\***  
Overcoming the resistance to anti-PD1 immunotherapy in hepatocellular carcinoma at the Icahn School of Medicine at Mount Sinai, New York

**Benjamin L. Martin, PhD,**  
**and David Q. Matus, PhD**  
Cell cycle regulation of cellular behaviors associated with cancer metastasis at Stony Brook University, Stony Brook

NORTH CAROLINA

**Lawrence A. David, PhD,**  
**and Anthony D. Sung, MD\***  
Personalized prebiotics to optimize microbiota metabolism and improve transplant outcomes at Duke University, Durham

OHIO

**Wayne O. Miles, PhD\***  
Maximizing pro-apoptotic protein levels at The Ohio State University, Columbus

\*Initial Year

DAMON RUNYON-RACHLEFF

# Innovation Award Stage 2 Funding

CALIFORNIA

**Scott J. Dixon, PhD\***  
Exploring the role of reductive stress in promoting cancer cell death at Stanford University, Stanford

**Nicholas T. Ingolia, PhD**  
Cis-regulatory code for the translational control of gene expression at the University of California, Berkeley

**Peter J. Turnbaugh, PhD\***  
*Nadia's Gift Foundation Innovator*  
The gut microbiome: an unexpected contributor to cancer drug resistance at the University of California, San Francisco

**Roberto Zoncu, PhD\***  
Identifying and disabling organelle circuits that fuel cancer cell metabolism at the University of California, Berkeley

MARYLAND

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

OHIO

**Christin E. Burd, PhD\***  
Exploiting mutational specificity to target RAS-driven melanoma at The Ohio State University, Columbus

WASHINGTON

**Brian H. Shirts, MD, PhD**  
Participatory genetics for defining genotype-phenotype associations of rare cancer variants at the University of Washington, Seattle

WISCONSIN

**Philip A. Romero, PhD\***  
Digital circulating tumor cell detection using scalable molecular logic at the University of Wisconsin, Madison

\*Initial Year

DAMON RUNYON

# Clinical Investigator Award Committee

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**Charles L. Sawyers, MD**

Chair, Human Oncology and  
Pathogenesis Program  
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Henry R. Kravis Chair  
Howard Hughes Medical  
Institute Investigator  
Memorial Sloan Kettering  
Cancer Center  
New York, New York

**Karla V. Ballman, PhD**

Chief of the Division of Biostatistics  
and Epidemiology  
Professor, Department of Healthcare  
Policy and Research  
Weill Cornell Medicine  
New York, New York

**David P. Carbone, MD, PhD**

Barbara J. Bonner Chair in  
Lung Cancer Research  
Professor, Division of  
Internal Medicine  
Director, James Thoracic  
Oncology Center  
The Ohio State University  
Comprehensive Cancer Center  
Columbus, Ohio

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Director and Full Member  
Clinical Research Division  
Fred Hutchinson Cancer  
Research Center  
Head, Department of Medicine  
Division of Medical Oncology  
University of Washington  
Seattle, Washington

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Associate Dean of Cancer Programs  
Director of the LIVESTRONG  
Cancer Institute  
Chair, Department of Oncology  
Dell Medical School  
The University of Texas at Austin  
Austin, Texas

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Director of the Brain Tumor Center  
New York-Presbyterian/Weill  
Cornell Medical Center  
Associate Director for  
Translational Research  
Sandra and Edward Meyer  
Cancer Center  
Feil Professor of Medicine  
Chief, Division of Neuro-Oncology  
Department of Neurology  
Weill Cornell Medicine  
New York, New York

**Amato J. Giaccia, PhD**

Jack, Lulu and Sam Willson  
Professor in Cancer Biology  
Director, Division of Radiation  
and Cancer Biology  
Department of Radiation Oncology  
Stanford University School of Medicine  
Stanford, California

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Richard W. Vague Professor  
in Immunotherapy  
Department of Pathology and  
Laboratory Medicine  
Perelman School of Medicine  
Director, Center for Cellular  
Immunotherapies  
Director, Parker Institute for  
Cancer Immunotherapy  
Abramson Cancer Center  
University of Pennsylvania  
Philadelphia, Pennsylvania

**Andrew L. Kung, MD, PhD**

Chair, Department of Pediatrics  
Memorial Sloan Kettering  
Cancer Center  
New York, New York

**Drew M. Pardoll, MD, PhD**

Director, Bloomberg-Kimmel Institute  
for Cancer Immunotherapy  
Co-Director, Cancer  
Immunology Program  
Sidney Kimmel Comprehensive  
Cancer Center  
Abeloff Professor in Oncology  
Johns Hopkins University School  
of Medicine  
Baltimore, Maryland

**Ramon Parsons, MD, PhD**

Director, Tisch Cancer Institute  
Icahn Scholar  
Ward-Coleman Chair Cancer Research  
Professor and Chairman, Department  
of Oncological Sciences  
Icahn School of Medicine at Mount Sinai  
New York, New York

**David R. Piwnica-Worms, MD, PhD**

Chair and Professor, Department of  
Cancer Systems Imaging  
Deputy Division Head, Research  
Affairs, Division of Diagnostic Imaging  
The University of Texas MD Anderson  
Cancer Center  
Houston, Texas

**Stanley R. Riddell, MD**

Full Member, Fred Hutchinson  
Cancer Research Center  
Clinical Research Division  
Program in Immunology  
Professor of Medicine and Oncology  
University of Washington School  
of Medicine  
Seattle, Washington

**Kwok-Kin Wong, MD, PhD**

Anne Murnick Cogan and David H.  
Cogan Professor of Oncology  
Department of Medicine  
Director, Division of Hematology/  
Medical Oncology  
Laura and Isaac Perlmutter  
Cancer Center  
NYU Langone Health  
New York, New York

**Sandra L. Wong, MD, MS**

Chair, Department of Surgery  
Senior Vice President of the  
Surgical Service Line  
Dartmouth-Hitchcock Medical Center  
The Geisel School of Medicine  
at Dartmouth  
Lebanon, New Hampshire

**FOUNDING MEMBER**

**Richard J. O'Reilly, MD**

Chief, Pediatric Bone Marrow  
Transplant Service  
Claire L. Tow Chair in Pediatric  
Oncology Research  
Memorial Sloan Kettering Cancer Center  
New York, New York



DAMON RUNYON

# Clinical Investigator Awards

## CALIFORNIA

**Ami S. Bhatt, MD, PhD**

Applying microbiome-based therapeutics in cancer patients with Linda Boxer, MD, PhD, and Michael P. Snyder, PhD, Stanford University School of Medicine, Stanford

**Collin M. Blakely, MD, PhD\***

*Doris Duke-Damon Runyon Clinical Investigator*  
Mechanisms of incomplete response and primary resistance to osimertinib in EGFR-mutant lung cancer with Trever G. Bivona, MD, PhD, University of California, San Francisco

**Catherine C. Smith, MD\***

Defining structure, function and therapeutic impact of oncogenic FLT3 mutations with Neil P. Shah, MD, PhD, University of California, San Francisco

## ILLINOIS

**Jaehyuk Choi, MD, PhD**

*Doris Duke-Damon Runyon Clinical Investigator*  
Identification of genetic basis of altered T cell receptor signaling in cutaneous T cell lymphoma with Stephen D. Miller, PhD, and John D. Crispino, PhD, Northwestern University, Chicago

## MASSACHUSETTS

**Geoffrey R. Oxnard, MD**

*Gordon Family Clinical Investigator*  
Noninvasive genotyping of cell-free plasma DNA (cfDNA) as a tool for guiding personalized lung cancer care with Pasi Jänne, MD, PhD, Dana-Farber Cancer Institute, Boston

**Mark G. Shrime, MD, PhD**

Cash transfers for cancer surgery in West Africa: their health and economic consequences with John G. Meara, MD, DMD, MBA, Massachusetts Eye and Ear Infirmary, Boston

## MISSOURI

**Vivek K. Arora, MD, PhD**

Defining a targetable oncogenic dyad in bladder cancer with Lee Ratner, MD, PhD, Washington University in St. Louis

**Gavin P. Dunn, MD, PhD**

Characterizing the immunogenic landscape of glioblastoma with John DePersio, MD, PhD, and Robert Schreiber, PhD, Washington University School of Medicine in St. Louis

## NEW YORK

**Vinod P. Balachandran, MD**

*William Raveis Charitable Fund Investigator*  
Defining the evolutionary dynamics and antigen potential of neoantigens for human pancreatic cancer immunotherapy with Steven D. Leach, MD, and Jedd D. Wolchok, MD, PhD, Memorial Sloan Kettering Cancer Center, New York

**Christopher E. Barbieri, MD, PhD**

*MetLife Foundation Clinical Investigator*  
Presurgical trials to target distinct subclasses of localized prostate cancer with Lewis C. Cantley, PhD, Weill Cornell Medicine, New York

**Adrienne A. Boire, MD, PhD**

*William Raveis Charitable Fund Investigator*  
Molecular determinants of leptomeningeal metastasis: a translational approach with Joan Massagué, PhD, Memorial Sloan Kettering Cancer Center, New York

**Matthew D. Hellmann, MD\***

Defining intratumoral and peripheral mechanisms mediating initiation of response, durability, and resistance to PD-1 blockade to inform rational immunotherapeutic development in NSCLC with Charles M. Rudin, MD, PhD, and Jedd D. Wolchok, MD, PhD, Memorial Sloan Kettering Cancer Center, New York

**Andrew M. Intlekofer, MD, PhD\***

Metabolic coupling of the hypoxic niche to stemness with Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

**Alex Kentsis, MD, PhD**

*Richard A. Lumsden Foundation Investigator*  
Mechanism and function of regulatory signaling in acute myeloid leukemia with Scott A. Armstrong, MD, PhD, and Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

**Christopher A. Klebanoff, MD\***

Clinical development of next-generation T cell receptor (TCR)-based adoptive immunotherapies for the treatment of patients with common epithelial malignancies with Michel Sadelain, MD, PhD, and Larry Norton, MD, Memorial Sloan Kettering Cancer Center, New York

**Piro Lito, MD, PhD**

Modeling the evolution of resistance to ERK signaling inhibitors at the single cell level with Neal X. Rosen, MD, PhD, and Charles M. Rudin, MD, PhD, Memorial Sloan Kettering Cancer Center, New York

**Heather L. Yeo, MD**

Use of mobile applications to evaluate post surgical recovery in aging patients with GI cancer with Manish A. Shah, MD, and Deborah Estrin, PhD, MS, Weill Cornell Medicine, New York

## PENNSYLVANIA

**Brian C. Capell, MD, PhD\***

Defining the role of epigenetic enhancer dysfunction in epithelial carcinogenesis with Shelley L. Berger, PhD, University of Pennsylvania, Philadelphia

\*Initial Year

DAMON RUNYON

# Clinical Investigator Award Continuation Grants

CALIFORNIA

**L. Elizabeth Budde, MD, PhD**

Targeting CD123 using chimeric antigen receptor T cells for treatment of acute myeloid leukemia with Stephen J. Forman, MD, FACP, City of Hope, Duarte

MASSACHUSETTS

**Priscilla K. Brastianos, MD\***

Investigation of novel targeted therapeutic approaches for brain metastases with Keith T. Flaherty, MD, and Tracy T. Batchelor, MD, Massachusetts General Hospital, Boston

**Eliezer M. Van Allen, MD\***

Dissecting response to conventional and emerging DNA damage and repair therapies with Geoffrey I. Shapiro, MD, PhD, Dana-Farber Cancer Institute, Boston

MISSOURI

**Stephen T. Oh, MD, PhD**

Targeting aberrant signaling pathways in myeloproliferative neoplasms with Daniel Link, MD, Washington University School of Medicine in St. Louis

NEW YORK

**Joshua Brody, MD**

*William Raveis Charitable Fund Investigator*  
Flt3L-primed 'in situ' vaccination for low-grade lymphoma with Nina Bhardwaj, MD, PhD, and Miriam Merad, MD, PhD, Icahn School of Medicine at Mount Sinai, New York

WASHINGTON

**Aude G. Chapuis, MD\***

Multifaceted transgenic TCR approach to high-risk AML with Philip D. Greenberg, MD, Fred Hutchinson Cancer Research Center, Seattle

\*Initial Award

DAMON RUNYON

# Fellowship Award Committee

CHAIR

**Rachel Green, PhD**

Howard Hughes Medical Institute Investigator  
Bloomberg Distinguished Professor  
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Johns Hopkins University School of Medicine  
Baltimore, Maryland

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Urbana, Illinois

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Immunology Program  
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New York, New York

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The University of Kansas School of Medicine  
Stowers Institute for Medical Research  
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**Antonio J. Giraldez, PhD**

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Fergus F. Wallace Professor and Chair, Department of Genetics  
Yale University School of Medicine  
New Haven, Connecticut

**Lucy A. Godley, MD, PhD**

Co-Director, Center for Clinical Cancer Genetics  
Professor, Department of Medicine  
Section of Hematology and Oncology  
Cancer Research Center  
The University of Chicago Medicine  
Chicago, Illinois

DAMON RUNYON

# Fellowship Award Committee

(continued)

**Richard Gregory, PhD**

Professor  
Department of Biological Chemistry  
and Molecular Pharmacology  
Department of Pediatrics  
Harvard Medical School  
Harvard Stem Cell Institute  
The Stem Cell Program at  
Boston Children's Hospital  
Boston, Massachusetts

**Howard C. Hang, PhD**

Richard E. Salomon Family  
Associate Professor  
Laboratory of Chemical Biology  
and Microbial Pathogenesis  
The Rockefeller University  
New York, New York

**E. Jane Albert Hubbard, PhD**

Professor  
Department of Cell Biology  
Skirball Institute of  
Biomolecular Medicine  
New York University School  
of Medicine  
New York, New York

**Susan Kaech, PhD**

Professor and Director  
NOMIS Laboratories for  
Immunobiology and  
Microbial Studies  
NOMIS Chair  
Salk Institute for Biological Studies  
La Jolla, California

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Professor of Pediatrics  
Harvard Medical School  
Shwachman Chair in  
Gastroenterology  
Boston Children's Hospital  
Boston, Massachusetts

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J. Lowell Orbison Endowed Chair  
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Department of Biochemistry  
and Biophysics  
School of Medicine and Dentistry  
Director, University of Rochester  
Center for RNA Biology  
Chair, University of Rochester  
Graduate Women in Science  
University of Rochester  
Rochester, New York

**Philip A. Newmark, PhD**

Howard Hughes Medical  
Institute Investigator  
Burnell R. Roberts Chair in  
Regenerative Biology  
Morgridge Institute for Research  
Department of Zoology  
University of Wisconsin  
Madison, Wisconsin

**Joel Rothman, PhD**

Professor and Wilcox Family Chair  
in Biotechnology  
University of California,  
Santa Barbara  
Santa Barbara, California

**David Ruggero, PhD**

Professor  
Helen Diller Family Endowed Chair  
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University of California San  
Francisco School of Medicine  
Member, UCSF Comprehensive  
Cancer Center  
San Francisco, California

**Susan R. Schwab, PhD**

Associate Professor  
Department of Pathology  
Skirball Institute of  
Biomolecular Medicine  
New York University School  
of Medicine  
New York, New York

**M. Celeste Simon, PhD**

Scientific Director and Investigator  
Abramson Family Cancer  
Research Institute  
Associate Director-Shared Resources,  
Abramson Cancer Center  
Arthur H. Rubenstein,  
MBBCh Professor  
Department of Cell and  
Developmental Biology  
University of Pennsylvania  
Perelman School of Medicine  
Philadelphia, Pennsylvania

**Jessica Tyler, PhD**

Professor  
Department of Pathology  
and Laboratory Medicine  
Weill Cornell Medicine  
New York, New York

**Matthew G. Vander Heiden,  
MD, PhD**

Eisen and Chang Career  
Development Professor  
Associate Professor of Biology  
Associate Director, Koch Institute  
for Integrative Cancer Research  
at MIT  
Cambridge, Massachusetts

**Amy Wagers, PhD**

Forst Family Professor Stem Cell  
and Regenerative Biology  
Harvard University, Cambridge  
Senior Investigator  
Joslin Diabetes Center  
Harvard Medical School  
Boston, Massachusetts

DAMON RUNYON

# Fellowship Awards

## CALIFORNIA

### Salk Institute

**Corina E. Antal, PhD**

*Robert Black Fellow*

Stromal reprogramming as a therapeutic approach in pancreatic cancer with Ronald M. Evans, PhD

**Jeanine L. Van Nostrand, PhD**

Elucidating the AMPK-dependent regulation of mTOR signaling in the metabolic checkpoint of tumorigenesis with Reuben J. Shaw, PhD

### Scripps Research Institute

**Marsha M. Hirschi, PhD\***

*Dennis and Marsha Dammerman Fellow*

Molecular engineering of an optically controlled glutamate receptor with Gabriel C. Lander, PhD

**Joseph D. Schonhoff, PhD**

*Merck Fellow*

Probing the relation between sequence, aggregation and proteotoxicity in cardiac amyloidoses caused by free antibody light chains with Jeffery W. Kelly, PhD

**Xiaoyu Zhang, PhD\***

Discovery of chemical probes that support targeted protein degradation in human cancer with Benjamin F. Cravatt, PhD

### Stanford University

**Christopher J. Cambier, PhD**

*HHMI Fellow*

*In vivo* characterization of mycobacterial cording with Carolyn R. Bertozzi, PhD

**Kelsie A. Eichel, PhD\***

*Robert A. Swanson Family Fellow*

Mechanisms of polarized membrane protein trafficking with Kang Shen, PhD

**Ryan A. Flynn, MD, PhD**

The interplay between cellular metabolism and RNA homeostasis in disease with Carolyn R. Bertozzi, PhD

**Victoria Hung, PhD**

*Fraternal Order of Eagles Fellow*

Defining the post-translational landscape of ribosomes in control of gene regulation and cell fate with Maria Barna, PhD

**John C. Janetzko, PhD\***

A biophysical approach to studying GRK-GPCR complexes with Brian K. Kobilka, MD

**Chuan Li, PhD\***

*Connie and Bob Lurie Fellow*

Quantifying epistasis between tumor suppressor genes and revealing the underlying expression profiles at the single-cell level in murine lung adenocarcinoma with Dmitri Petrov, PhD

**Jianjin Shi, PhD**

*Layton Family Fellow*

Biochemical and genetic dissection of axon degeneration with Marc Tessier-Lavigne, PhD

**Shaogeng Steven Tang, PhD**

*Merck Fellow*

Toward small-molecule inhibitors against human immune checkpoint PD-1 with Peter S. Kim, PhD

**Leeat Yankielowicz-Keren, PhD**

Studying the tumor immune microenvironment in breast cancer using a novel multiplexed imaging platform with Michael R. Angelo, MD, PhD, and Edgar G. Engleman, PhD

### Stanford University School of Medicine

**Anupam K. Chakravarty, PhD**

Investigating the phenomenon of epigenetic inheritance mediated by non-amyloid protein aggregates with Daniel F. Jarosz, PhD

**Christopher P. Lapointe, PhD\***

Regulatory roles of the 3' untranslated region in human translation with Joseph Puglisi, PhD

**Kathrin Leppek, PhD**

*Layton Family Fellow*

Mechanistic characterization of 5'UTR RNA elements that confer translational specificity to shape vertebrate embryonic development with Maria Barna, PhD

**Fangfei Qu, PhD\***

Decoding the molecular and cellular mechanisms of the growth of brain metastases with Julien Sage, PhD

**Albert G. Tsai, MD, PhD<sup>s</sup>**

Diagnosis of hematologic malignancies from paucicellular aspirate material using highly multiplexed single cell analysis with Sean C. Bendall, PhD

**Jing Lin Xie, PhD\***

*The Mark Foundation for Cancer Research Fellow*

Remembering the past: epigenetic mechanisms of cancer drug resistance with Daniel F. Jarosz, PhD

### University of California, Berkeley

**Gina V. Caldas, PhD**

Analysis of CSR- function in *C. elegans* embryonic cell division with Abby F. Dernburg, PhD

**Allison Didychuk, PhD\***

Viral mimics of host transcription factors in oncogenic herpes viruses with Britt Glaunsinger, PhD

**Stephanie Gates, PhD\***

*HHMI Fellow*

Decoding the ubiquitin receptor recognition mechanism of the 26S proteasome with Andreas Martin, PhD

**Jamie Lahvic, PhD\***

*The Mark Foundation for Cancer Research Fellow*

Uncovering cell non-autonomous mechanisms of tumor suppression with Iswar Hariharan, MMBS, PhD

**Andrew C. Murley, PhD**

*HHMI Fellow*

Cell non-autonomous communication of ER stress resistance with Andrew G. Dillin, PhD

**University of California, Los Angeles**

**Magdalena E. Potok, PhD**

The relationship between epigenetic gene silencing, nuclear architecture, and genome stability with Steven E. Jacobsen, PhD

**Christina M. Termini, PhD\***

Proteoglycan remodeling of the bone marrow niche regulates hematopoietic stem cell regeneration with John P. Chute, MD

**University of California, San Diego**

**Richard W. Baker, PhD**

Understanding the mechanisms of SWI/SNF-mediated chromatin remodeling and its misregulation in cancer with Andres E. Leschziner, PhD

**University of California, San Francisco**

**Vladislav Belyy, PhD**

Mapping the unfolded protein response signaling network with optogenetic actuators with Peter Walter, PhD

**Kyle G. Daniels, PhD**

Controlling T cell signaling and fate choice using synthetic receptors with Wendell A. Lim, PhD

**Qi Hu, PhD**

Design of inhibitors of cancer-associated mutant GNAS with Kevan M. Shokat, PhD

**Jeffrey A. Hussmann, PhD**

*Rebecca Ridley Kry Fellow*

Genome-wide measurement of ribosome spacing on individual transcripts with Carol A. Gross, PhD

**Brian J. Laidlaw, PhD**

*HHMI Fellow*

Role of EBI2 in the regulation of lymphocyte migration during viral infection and cancer with Jason G. Cyster, PhD

**Kara L. McKinley, PhD**

Mechanisms and functions of cellular rearrangements in epithelia with Ronald D. Vale, PhD

**Lyndsay M. Murrow, PhD**

Fate specification of mammary stem cells by cell self-sorting with Zev J. Gartner, PhD

**Trang Nguyen, PhD\***

Bypassing the unresponsiveness of T cell anergy and exhaustion with Arthur Weiss, MD, PhD

**Thomas M. Norman, PhD**

Identifying the stochastic determinants of drug resistance with Jonathan S. Weissman, PhD

**Linda T. Vo, PhD\***

Off-the-shelf T cells from human pluripotent stem cells with precise tumor recognition using combinatorial antigen-sensing circuits with Jeffrey A. Bluestone, PhD

**Lan Wang, PhD**

Conferring organelle-specificity to tail-anchored proteins with Peter Walter, PhD

**Andrew L. Wolfe, PhD**

The therapeutic potential and biological effects of targeting oncogenic KRAS with Frank McCormick, PhD

**Jiaxi Wu, PhD**

Mechanism of dendritic cell missing-self recognition and migration to activate CD4 T cell responses with Jason G. Cyster, PhD

**Yichen Xu, PhD**

Elucidating the role of ER as a novel RNA-binding protein and its function in regulating translation with Davide Ruggero, PhD

**Dian Yang, PhD\***

Dissecting intratumoral heterogeneity and hierarchy at single cell resolution with Jonathan Weissman, PhD, and Trever G. Bivona, MD, PhD

**Ziyang Zhang, PhD**

*HHMI Fellow*

Controlling the activity of bispecific T cell engagers with a chemically cleavable molecular switch with Kevan M. Shokat, PhD

**Xin Zhou, PhD**

*Merck Fellow*

Engineering “Glue” domains to enable cryo-EM study of small cancer protein structures with James A. Wells, PhD

**CONNECTICUT**

**Yale School of Medicine**

**Zhuobin Liang, PhD**

Mechanistic dissection of the Fanconi anemia pathway in coordinating R-loop processing and DNA repair with Patrick Sung, DPhil, and Gary Kupfer, MD

**Esen Sefik, PhD\***

*HHMI Fellow*

The effect of microbes, diet on the intestinal immune system in the context of obesity with Richard A. Flavell, PhD

**Seyed Fakhreddin Torabi, PhD**

*Robert Black Fellow*

Evolution of triplex-forming RNAs from random sequences: a search for additional MALAT1-like triplex motifs with Joan A. Steitz, PhD

**ILLINOIS**

**The University of Chicago**

**John D. Leonard, PhD**

*Robert Black Fellow*

Self-antigen recognition by regulatory T cells with Erin J. Adams, PhD, and Peter A. Savage, PhD

**Sigrid Nachtergaele, PhD**

The dynamic N1-methyladenosine methylome in eukaryotic mRNA with Chuan He, PhD

**University of Illinois**

**Daniel J. Blair, PhD**

*Illini 4000 Fellow*

An automated small molecule synthesizer for the discovery of new anti-cancer agents with Martin D. Burke, MD, PhD

**Sarah Z. Tasker, PhD**

*HHMI Fellow*

Synthesis and evaluation of a collection of complex molecules biased for penetration of the blood-brain barrier with Paul J. Hergenrother, PhD

MARYLAND

Johns Hopkins University  
School of Medicine

Xintong Dong, PhD

HHMI Fellow

Investigating ligand-receptor interactions between defensins and mrgprs in cutaneous inflammation and wound healing with Xinzhong Dong, PhD

Daniel H. Goldman, PhD

Merck Fellow

Elucidating the role of the exon junction complex in regulating translation of spliced mRNA with Rachel Green, PhD

Vu Quang Nguyen, PhD

Role of chromatin organization in dynamics of transcription initiation with Carl Wu, PhD

Evan J. Worden, PhD

The mechanistic basis of crosstalk between histone H2B ubiquitylation and H3K79 methylation with Cynthia Wolberger, PhD

Boris Zinshteyn, PhD

HHMI Fellow

Mechanisms of splicing-independent nonsense-mediated mRNA decay with Rachel Green, PhD

National Institutes of Health

Danfeng Cai, PhD

Protein crowding and protein folding landscapes as predictors of healthy and diseased cell states with Jennifer Lippincott-Schwartz, PhD

Warakorn Kulalert, PhD\*

Characterization of the microbiota-mediated cutaneous neuroimmune interface and its impacts on tumorigenesis and cancer therapy with Yasmine Belkaid, PhD

MASSACHUSETTS

Boston Children's Hospital

Megan L. Insco, MD, PhD\*

William Raveis Charitable Fund Fellow

Investigating transcriptional cyclin dependent kinases as novel melanoma drug targets with Leonard I. Zon, MD

Yuxiang Zhang, MD, PhD\*

HHMI Fellow

Mechanisms that promote DNA double strand break clusters in brain and liver with Frederick W. Alt, PhD

Brigham and Women's Hospital

Emma V. Watson, PhD

Suzanne and Bob Wright Fellow

Metabolic stress response: Exploring transcript-level regulation of metabolic feedback with Stephen J. Elledge, PhD

Broad Institute

Matthew Bakalar, PhD\*

Predicting the interactions of T cell receptors with peptide-MHC complexes with Nir Hacohen, PhD

Dana-Farber Cancer Institute

Phillip A. Dumesic, MD, PhD\*

Identification of muscle-secreted factors responsible for local and systemic effects of exercise with Bruce M. Spiegelman, PhD

Tikvah K. Hayes, PhD

David M. Livingston, MD, Fellow

Systematic genomic and functional analysis of small cell lung cancer with Matthew L. Meyerson, MD, PhD

Whitney L. Johnson, PhD\*

Using organoid cancer models to identify genome catastrophe mechanisms with David S. Pellman, MD

Neil T. Umbreit, PhD

Elucidating the mechanism of chromosome bridge resolution with David S. Pellman, MD

Eric S. Wang, PhD

Robert Black Fellow

Enhancing anti-tumor immunity via pharmacological inhibition of kinases with Nathanael Gray, PhD

Harvard T.H. Chan School  
of Public Health

Jeeyun Chung, PhD

Unraveling the cellular mechanism of lipid droplet biogenesis with Tobias C. Walther, PhD, and Robert V. Farese Jr., PhD

Harvard Medical School

Justin A. Bosch, PhD

Characterizing novel molecules and mechanisms that mediate cell-cell communication with Norbert Perrimon, PhD

Anne E. Dodson, PhD

Transgenerational inheritance of structure-based infections with Scott G. Kennedy, PhD

Ivana Gasic, PhD

Merck Fellow

Molecular elucidation of the interphase microtubule integrity response (MIR) with Timothy Mitchison, PhD

Zhejian Ji, PhD\*

HHMI Fellow

Function of the CDC48 ATPase in protein degradation with Tom A. Rapoport, PhD

Lucy Liu, PhD\*

In vivo characterization of muscle autophagy in health and disease with Norbert Perrimon, PhD

Nagarajan Nandagopal, PhD\*

Philip O'Bryan Montgomery, Jr., MD, Fellow

Signal integration by bHLH circuits to enable cell fate decisions with Galit Lahav, PhD, and Sean Megason, PhD

Natasha M. O'Brown, PhD

Molecular and cellular mechanisms of transeytosis regulation in blood-brain barrier function with Chenghua Gu, PhD

Sarah J. Pfau, PhD

Investigating the molecular determinants of blood-brain barrier heterogeneity with Chenghua Gu, PhD

Deepshika Ramanan, PhD

National Mah Jongg League Fellow

Identifying functions of regulatory T cell subsets in intestinal inflammation and colorectal cancer with Christophe Benoist, MD, PhD

Justin L. Sparks, PhD

Replicative helicase bypass of bulky DNA adducts with Johannes C. Walter, PhD

Benjamin M. Stinson, PhD

Mechanism of DNA processing during non-homologous end joining with Johannes C. Walter, PhD, and Joseph L. Loparo, PhD





Damon Runyon Fellows are incredibly enthusiastic. They are the brightest minds out there, the leaders of the scientific community. They are essentially the key to going forward in science.



**AARON F. STRAIGHT, PhD**

Damon Runyon Fellowship Award Committee Member, 2018–Present  
Damon Runyon-Gordon Family Scholar, 2005–2007  
Damon Runyon Fellow, 1998–2001  
Stanford University School of Medicine

**Chuchu Zhang, PhD\***

Molecular dissection of area postrema and its role in nausea with Stephen Liberles, PhD

**Harvard University**

**Philip B. Abitua, PhD**

Developmental mechanisms of killifish cell dispersion and aggregation with Alexander F. Schier, PhD

**Brian J. Beliveau, PhD**

*HHMI Fellow*

Decoding Polycomb-mediated gene regulation in single cells with single-molecule super resolution imaging and synthetic biology with Peng Yin, PhD

**Monica E. McCallum, PhD**

Understanding alanosine biosynthesis to discover new cancer chemotherapeutics with Emily P. Balskus, PhD

**Christopher Wilson, PhD\***

*Marion Abbe Fellow*

Development of a programmable writer and eraser of m6A RNA methylation with David R. Liu, PhD

**Massachusetts General Hospital**

**Kai Mao, PhD**

Mechanisms of xenobiotic surveillance and regulation with Gary B. Ruvkun, PhD

**Iva Tchasovnikarova, PhD**

Deciphering the role of chromatin remodeling in epigenetic repression by the HUSH complex with Robert E. Kingston, PhD

**Kurt J. Warnhoff, PhD**

Molybdenum cofactor biosynthetic enzymes modulate miRNA biology and development with Gary B. Ruvkun, PhD

**Massachusetts Institute of Technology**

**Alexander M. Jaege, PhD**

*HHMI Fellow*

Targeting protein folding mechanisms to stimulate anti-tumor immune responses with Tyler E. Jacks, PhD

**Lindsay M. LaFave, PhD**

Investigating epigenetic mechanisms of transformation in SWI/SNF-mutant non-small cell lung cancer with Tyler E. Jacks, PhD

**Allison N. Lau, PhD**

*Robert Black Fellow*

Understanding metabolic heterogeneity in pancreatic cancer with Matthew G. Vander Heiden, MD, PhD

**Evan C. Lien, PhD**

Impact of diet on tumor metabolism and progression with Matthew G. Vander Heiden, MD, PhD

**Jose M. Ordovas-Montanes, PhD**

*HHMI Fellow*

Single-cell genomic approaches for tracing the contribution of inflammation to human colon cancer with Alex K. Shalek, PhD

**Peter M. Westcott, PhD**

Exploiting endogenous mutational processes in cancer to enhance response to immunotherapy with Tyler E. Jacks, PhD

**Whitehead Institute for Biomedical Research**

**Laura V. Blanton, PhD**

*Lallage Peazel Wall Fellow*

The impact of sex chromosome constitution on immune cell gene expression and function with David C. Page, MD

**Nora Kory, PhD**

*HHMI Fellow*

Identifying new components of mitochondrial one-carbon metabolism with David M. Sabatini, MD, PhD

**Daniel H. Lin, PhD\***

*HHMI Fellow*

Global influence of mRNA conformation on eukaryotic translational regulation with David P. Bartel, PhD

**Benjamin R. Sabari, PhD**

Investigating the role of aberrant genome structuring in T-ALL with Richard A. Young, PhD

MICHIGAN

University of Michigan

Swathi Yadlapalli, PhD

Neural and genetic basis of metabolic regulation with Orië T. Shafer, PhD, and Edgar Meyhofer, PhD

MISSOURI

Washington University School of Medicine in St. Louis

Darryl A. Wesener, PhD

Synthetic food particles for studying human gut microbiota function with Jeffrey I. Gordon, MD

NEW JERSEY

Princeton University

Andrew A. Bridges, PhD

*HHMI Fellow*  
Bacterial cell fates: The role of quorum sensing in biofilm patterning with Bonnie L. Bassler, PhD

Antony J. Burton, PhD

Sculpting chromatin architecture in live cells using protein chemistry with Tom W. Muir, PhD

NEW YORK

Columbia University

J. Brooks Crickard, PhD

*The Mark Foundation for Cancer Research Fellow*  
Visualizing the strand invasion during homologous recombination on the single molecule level with Eric C. Greene, PhD

Cornell University

Sudeep Banjade, PhD

*HHMI Fellow*  
Division of labor in ESCRT-III proteins during polymer assembly and membrane remodeling with Scott D. Emr, PhD

Memorial Sloan Kettering Cancer Center

Harihar Basnet, PhD

Identifying determinants of latency in brain metastatic breast cancer cells with Joan Massagué, PhD

Bryan C. King, PhD

*Berger Foundation Fellow*  
AMPK-induced catabolism of extracellular proteins: a novel survival mechanism for nutrient-deprived cancer cells with Craig B. Thompson, MD

William Razzell, PhD

The role of tension in Hippo pathway signaling with Jennifer A. Zallen, PhD

Aaron D. Viny, MD<sup>§</sup>

*William Raveis Charitable Fund Fellow*  
Role of the Cohesin complex in oncogenic transformation of AML with Ross L. Levine, MD

New York University School of Medicine

Robert S. Banh, PhD\*

*Merck Fellow*  
Metabolic contribution of sensory neurons, via peripheral axons, to pancreatic tumorigenesis and serine metabolism with Alec Kimmelman, MD, PhD, and Michael Pacold, MD, PhD

Lacy J. Barton, PhD

*William Raveis Charitable Fund Fellow*  
Mechanisms of directed cell migration in a complex *in vivo* environment with Ruth Lehmann, PhD

June-Yong Lee, PhD

Investigation of potential roles of serum amyloid A in peripheral Th17 cell pathogenicity with Dan R. Littman, MD, PhD

The Rockefeller University

Aleksey Chudnovskiy, PhD\*

Defining dendritic cell-T cell interaction history within the tumor microenvironment using enzymatic labeling with Gabriel D. Victora, PhD

Yusong R. Guo, PhD\*

*HHMI Fellow*  
Structural and mechanistic characterization of mechanosensitive Piezo channels with Roderick MacKinnon, MD

Jonathan R. Whicher, PhD

*GE Asset Management Fellow*  
Structure and mechanism of the voltage-gated potassium channel hEag1 with Roderick MacKinnon, MD

Linghe Xi, PhD

*Dale F. and Betty Ann Frey Fellow*  
WNT signaling and fate specification of normal versus tumorigenic stem cells with Elaine V. Fuchs, PhD



The Damon Runyon Fellowship was liberating and enabling for my science, as it provided me with resources to freely test different ideas.



SUNGWOOK WOO, PhD

Damon Runyon Fellow, 2014-2018  
Harvard University

**Weill Cornell Medicine**

**Eric E. Gardner, PharmD, PhD\***

*Kenneth G. and Elaine A. Langone Fellow*  
Interrogating lung adenocarcinoma transformation to small cell lung cancer at single cell resolution with Harold E. Varmus, MD

**OREGON**

**Oregon Health and Science University**

**Yunsik Kang, PhD\***

Molecular mechanisms regulating phagocytosis of neurons with Marc R. Freeman, PhD

**PENNSYLVANIA**

**University of Pennsylvania**

**Geoffrey P. Dann, PhD\***

*Merck Fellow*  
Proteomics to bridge protein arginylation, chromatin, and cancer with Benjamin A. Garcia, PhD

**Romain Riscal, PhD\***

Fructose-1,6 bisphosphatase nuclear localization, new functions and implication in hepatocellular carcinoma progression with M. Celeste Simon, PhD

**TEXAS**

**University of Texas  
Southwestern Medical Center**

**Lindsay B. Case, PhD**

*Robert Black Fellow*  
Regulation of integrin clustering on supported lipid bilayers with Michael Rosen, PhD

**Elise C. Jeffery, PhD**

Characterizing a new hematopoietic stem cell niche factor with Sean J. Morrison, PhD

**UTAH**

**University of Utah  
School of Medicine**

**Alesia N. McKeown, PhD**

*HHMI Fellow*  
Novel roles for retrogenes in host immunity with Nels C. Elde, PhD, and Cedric Feschotte, PhD

**WASHINGTON**

**Fred Hutchinson Cancer  
Research Center**

**Tera C. Levin, PhD**

*HHMI Fellow*  
Master microbial manipulators: how hosts are shaped by bacterial infections with Harmit S. Malik, PhD

**Jeremy I. Roop, PhD**

*Fayez Sarofim Fellow*  
Defining virus-host co-evolutionary dynamics that underlie the unusually broad HIV neutralizing antibody response in infants with Julie M. Overbaugh, PhD

**Alistair B. Russell, PhD**

*Merck Fellow*  
Impact of heterogeneity on the cellular recognition of influenza infection with Jesse D. Bloom, PhD

**Ying Qi Shirleen Soh, PhD**

Mapping paths and mechanisms of virus-host adaptation with Jesse D. Bloom, PhD

**Yi Yin, PhD**

Global analysis of DNA break repair by single-cell sequencing with Jay A. Shendure, MD, PhD

**GERMANY**

**European Molecular  
Biology Laboratory**

**Albert Tsai, PhD**

Single-molecule imaging of transcription factors binding dynamics in *Drosophila* embryos with Justin Crocker, PhD

\*Initial Year

§ Physician-Scientist



Damon Runyon selects and supports some of the most driven research in the scientific community, but inspiration alone cannot drive progress. As with all human endeavors, practical support is essential.



**BRITTANY ADAMSON, PhD**

Damon Runyon Fellow, 2014-2017  
University of California, San Francisco

DAMON RUNYON-SOHN

# Pediatric Cancer Fellowship Award Committee

**CHAIR**

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Cancer Center  
New York, New York

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Chair, Department of  
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Dana-Farber Cancer Institute  
David G. Nathan Professor of  
Pediatrics, Harvard Medical School  
Associate Chief of the Division of  
Hematology/Oncology at  
Boston Children's Hospital  
Boston, Massachusetts

**Patrick A. Brown, MD**

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Associate Professor, Department  
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Johns Hopkins University  
School of Medicine  
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**Peter D. Cole, MD**

Professor of Pediatrics  
Chief, Division of Pediatric  
Hematology/Oncology  
Embrace Kids Foundation Chair  
in Pediatric Hematology/Oncology  
Rutgers Cancer Institute  
of New Jersey  
Robert Wood Johnson Medical School  
Rutgers, The State University  
of New Jersey  
New Brunswick, New Jersey

**Adolfo A. Ferrando, MD, PhD**

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

**James M. Olson, MD, PhD**

Member  
Division of Clinical Research  
Fred Hutchinson Cancer  
Research Center  
Professor of Pediatric  
Hematology/Oncology  
University of Washington School  
of Medicine  
Seattle, Washington

**Martine F. Roussel, PhD**

Member and Endowed Chair  
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Co-Leader, Cancer Biology Program  
St. Jude Children's Research Hospital  
Professor, Department of  
Molecule Sciences  
The University of Tennessee  
Health Science Center  
Memphis, Tennessee

**Agata Smogorzewska, MD, PhD**

Associate Professor  
Head, Laboratory of  
Genome Maintenance  
The Rockefeller University  
New York, New York

“

The Damon Runyon-Sohn award was a vital resource for me as an early career scientist with the goal of making an impact in the treatment of pediatric cancer. I was afforded time to explore the biology of these malignancies and make discoveries that will benefit the lives of patients.



**MARK W. ZIMMERMAN, PhD**

Damon Runyon-Sohn Pediatric Fellow, 2014-2018  
Damon Runyon-Jake Wetchler Awardee, 2016  
Dana-Farber Cancer Institute

DAMON RUNYON-SOHN

# Pediatric Cancer Fellowship Awards

## CALIFORNIA

**Özlem Aksoy, PhD**

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

**Zhipeng Lu, PhD**

*Layton Family Fellow of the Damon Runyon-Sohn Pediatric Cancer Fellowship Award*  
Elucidating the role of dynamic RNA structures in cancer with Howard Y. Chang, MD, PhD, Stanford University School of Medicine, Stanford

**Kathryn R. Taylor, PhD**

The effect of neuronal activity on pediatric glioma invasion with Michelle L. Monje, MD, PhD, Stanford University School of Medicine, Stanford

## MARYLAND

**Stacy L. Cooper, MD<sup>s</sup>**

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

**Michael A. Koldobskiy, MD, PhD<sup>s</sup>**

DNA methylation stochasticity in pediatric pre-B cell acute lymphoblastic leukemia with Andrew P. Feinberg, MD, Johns Hopkins University, Baltimore

**Cara A. Rabik, MD, PhD<sup>s</sup>**

Determination of the role of WT1 in hematopoiesis and leukemogenesis with Patrick A. Brown, MD, Johns Hopkins University, Baltimore

## MASSACHUSETTS

**Adam D. Durbin, MD\***

Interrogation of neuroblastoma dependencies and non-coding RNAs on the core-regulatory circuitry for therapeutic inhibition with A. Thomas Look, MD, Dana-Farber Cancer Institute, Boston

**Amanda Balboni Iniguez, PhD**

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

**Sarah N. Olsen, PhD\***

Targeted degradation of the MLL-AF9 fusion oncoprotein in acute myeloid leukemia with Scott A. Armstrong, MD, PhD, Dana-Farber Cancer Institute, Boston

**Maxim Pimkin, MD, PhD\*<sup>s</sup>**

Divergent core transcriptional circuitries highlight context-specific vulnerabilities in AML with Stuart Orkin, MD, Harvard Medical School, Boston

## MICHIGAN

**Challice L. Bonifant, MD, PhD<sup>s</sup>**

Dual-antigen targeting by ENG-T cells as improved anti-AML therapy with Pavan Reddy, MD, University of Michigan, Ann Arbor

## NEW YORK

**Robert L. Bowman, PhD**

Interrogating the subclonal architecture and functional contributions of mutation order in FLT3-ITD mutant AML with Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

**Srinjoy Chakraborti, PhD\***

Mining pHLA and T cell receptor (TCR) specificities by phage display for *de novo* TCR engineering and personalized cancer therapy with Jonathan R. Lai, PhD, Albert Einstein College of Medicine, Bronx

**Marissa Rashkovan, PhD**

Targeting metabolic vulnerabilities in ETP-ALL with Adolfo A. Ferrando, MD, PhD, Columbia University Medical Center, New York

**Yadira M. Soto-Feliciano, PhD**

Dissecting the role of Menin in acute leukemia with C. David Allis, PhD, The Rockefeller University, New York

## WASHINGTON

**Jay F. Sarthy, MD, PhD\*<sup>s</sup>**

Characterization of the epigenomic landscape of diffuse midline gliomas with Steven Henikoff, PhD, Fred Hutchinson Cancer Research Center, Seattle

DAMON RUNYON-DALE F. FREY AWARD

# for Breakthrough Scientists

**Ryan D. Baldridge, PhD\***

Investigating the mechanism of retro-translocation by ERAD at the University of Michigan, Ann Arbor, Michigan

**Liron Bar-Peled, PhD\***

Identification of cysteine liabilities in NRF2-driven cancers at Massachusetts General Hospital, Boston, Massachusetts

**Chao Lu, PhD\***

*Giannandrea Family Breakthrough Scientist*  
Chromatin dysregulation as driver of oncogenesis at Columbia University, New York, New York

**Matthew P. Miller, PhD\***

Deciphering tension-dependent stabilization of kinetochore-microtubule interactions at the University of Utah, Salt Lake City, Utah

**Shruti Naik, PhD\***

*Marilyn and Scott Urdang Breakthrough Scientist*  
Immune-epidermal stem cell crosstalk in skin inflammation at New York University School of Medicine, New York, New York

**Neel H. Shah, PhD\***

Identifying divergent mechanisms of oncogenicity in tyrosine kinases at Columbia University, New York, New York

\*Initial Year

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DAMON RUNYON

# Physician-Scientist Training Award Committee

**CHAIR**

**William G. Kaelin, Jr., MD**

Professor of Medicine  
Dana-Farber Cancer Institute  
and Harvard Medical School  
Howard Hughes Medical  
Institute Investigator  
Boston, Massachusetts

**David P. Carbone, MD, PhD**

Barbara J. Bonner Chair in  
Lung Cancer Research  
Director, Thoracic Oncology Center  
Professor, Division of  
Medical Oncology  
Comprehensive Cancer Center  
The Ohio State University  
Columbus, Ohio

**Lucy A. Godley, MD, PhD**

Co-Director, Center for  
Clinical Cancer Genetics  
Professor, Department of Medicine  
Section of Hematology and Oncology  
Cancer Research Center  
The University of Chicago Medicine  
Chicago, Illinois

**Peter S. Nelson, MD**

Member, Division of Human Biology  
Endowed Chair for Prostate  
Cancer Research  
Fred Hutchinson Cancer  
Research Center  
Professor, Division of  
Medical Oncology  
Adjunct Professor, Genomic  
Sciences and Pathology  
University of Washington School  
of Medicine  
Seattle, Washington

**Kornelia Polyak, MD, PhD**

Professor of Medicine  
Department of Medical Oncology  
Dana-Farber Cancer Institute  
Harvard Medical School  
Boston, Massachusetts

**Jeremy N. Rich, MD**

Professor of Medicine  
Director, Neuro-Oncology  
Director, Brain Tumor Institute  
University of California, San Diego  
La Jolla, California

**Cassian Yee, MD**

Professor, Department of  
Melanoma Medical Oncology  
Professor, Department of Immunology  
Division of Cancer Medicine  
Director, Solid Tumor Cell Therapy  
Center for Cancer  
Immunology Research  
The University of Texas MD  
Anderson Cancer Center  
Houston, Texas



DAMON RUNYON

# Physician-Scientist Training Awards

**Pavan Bachiredy, MD**

Coevolution of tumor and T cell heterogeneity following immunotherapy with Catherine J. Wu, MD, Dana-Farber Cancer Institute, Boston, Massachusetts

**Giada Bianchi, MD, PhD**

*Damon Runyon-Celgene Physician-Scientist*  
Molecular mechanisms of ROBO1 in multiple myeloma pathogenesis with Kenneth C. Anderson, MD, Dana-Farber Cancer Institute, Boston, Massachusetts

**Kristopher R. Bosse, MD**

GPC2 as an oncogene and immunotherapeutic target in high-risk neuroblastoma with John M. Maris, MD, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

**Julia C. Carnevale, MD**

Developing new therapeutic approaches for pancreatic cancer with homologous recombination repair defects with Alan Ashworth, PhD, University of California, San Francisco, California

**Jennifer L. Caswell-Jin, MD**

Breast cancer evolution and resistance in response to HER2-targeted therapy with Christina N. Curtis, PhD, and Allison W. Kurian, MD, MSc, Stanford University, Stanford, California

**Nicholas C. DeVito, MD\***

Investigating the role of EMT-mediated dendritic cell tolerization in checkpoint inhibitor resistance with Brent A. Hanks, MD, PhD, Duke University, Durham, North Carolina

**Michael W. Drazer, MD**

Defining leukomogenic mechanisms in hereditary hematologic malignancies with Lucy A. Godley, MD, PhD, The University of Chicago Medicine, Chicago, Illinois

**John R. Ferrarone, MD\***

*Lee Cooperman Physician-Scientist*  
Seeking and evaluating novel therapeutic targets in human lung adenocarcinomas with loss-of-function mutations in LKB1 with Harold E. Varmus, MD, Weill Cornell Medicine, New York, New York

**Christopher J. Gibson, MD**

Elucidating the connection between clonal hematopoiesis and lymphoma in humans with Benjamin L. Ebert, MD, PhD, Dana-Farber Cancer Institute, Boston, Massachusetts

**Lillian M. Guenther, MD\***

Investigation of CITED2 as a novel dependency in Ewing sarcoma with Kimberly Stegmaier, MD, Dana-Farber Cancer Institute, Boston, Massachusetts

**Carolyn C. Jackson, MD, MPH**

Genetic dissection of pediatric classic Kaposi sarcoma with Jean-Laurent Casanova, MD, PhD, Memorial Sloan Kettering Cancer Center, New York, New York

**David M. Kurtz, MD, PhD**

Response prediction and personalized therapy from mathematical modeling of circulating tumor DNA in non-Hodgkin lymphoma with Arash Ash Alizadeh, MD, PhD, Stanford University School of Medicine, Stanford, California

**Loretta S. Li, MD**

Mechanisms of disease and resistance in CRLF2-rearranged B-cell acute lymphoblastic leukemia with David M. Weinstock, MD, Dana-Farber Cancer Institute, Boston, Massachusetts

**David Liu, MD\***

Dissecting differential therapy response in melanoma through clinical computational oncology with Eliezer M. Van Allen, MD, and Keith T. Flaherty, MD, Dana-Farber Cancer Institute, Boston, Massachusetts

**Harshabad Singh, MBBS\***

Cellular origins of Barrett's esophagus and its role in development of adenocarcinoma with Ramesh A. Shivdasani, MD, PhD, Dana-Farber Cancer Institute, Boston, Massachusetts

**Melody Smith, MD**

CD19 targeted donor T cells improve graft versus tumor activity and reduce graft versus host disease with Marcel R.M. van den Brink, MD, PhD, Memorial Sloan Kettering Cancer Center, New York, New York

**Sakiko Suzuki, MD**

AON-directed alternative splicing as a novel therapy for leukemia with Michelle A. Kelliher, PhD, and Peter E. Newburger, MD, University of Massachusetts Medical School, Worcester, Massachusetts

\* Initial Year

# Thank You to Our Donors

Your support this year enabled us to invest nearly **\$18.3 million** in the next generation of leading cancer researchers exploring bold new ideas.

Since our founding in 1946, in partnership with donors across the nation, Damon Runyon has invested close to **\$355 million** and funded nearly 3,700 young scientists.

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## DONOR SPOTLIGHT

The \$1 million **Connie and Robert Lurie Breakthrough Challenge Fund** was established to mark Damon Runyon's upcoming 75th Anniversary in 2021, and to generate new support for Damon Runyon scientists working at Stanford University, the Gladstone Institute, and the Universities of California at San Francisco, Berkeley and Santa Cruz. Our heartfelt thanks go to the Lurie Family for generations of support, beginning with Louis "Lou" Lurie, then his son Robert "Bob" Lurie and his wife Connie, who have been extremely generous to Damon Runyon, supporting 14 Damon Runyon scientists and introducing countless people to our important work.



**BOB AND CONNIE LURIE**

"We hope the Challenge Fund will encourage new support by people who don't know about the work of the Foundation and inspire them to get involved. Our goal is to put Damon Runyon on the map as a critically important supporter of the best young scientists in the Bay Area."

– Connie Lurie

## AWARD SPONSORS

We are grateful to our individual, foundation, and corporate sponsors who have partnered with us to launch new programs or are funding one or more of our scientists. Donors can choose to fund scientists based on location, institution, research focus, or cancer type, and the award can be named in recognition of their gift. **For more information, go to: [www.damonrunyon.org/get-involved/sponsor](http://www.damonrunyon.org/get-involved/sponsor).**

**AWARD SPONSORS ARE LISTED ON PAGES 34-36.**



**BRYAN C. KING, PhD,** Berger Foundation Fellow, with **RENEE BERGER** at the Breakthroughs by the Beach event in Sag Harbor

# Events & Broadway Tickets



## 2018 ANNUAL BREAKFAST

Our 2018 Annual Breakfast raised a record-breaking \$2.6 million. Board Member Leon G. Cooperman, Founder, Chairman and CEO of Omega Advisors, Inc., was honored and introduced by Damon Runyon Emeritus Board member Kenneth G. Langone, Chairman and CEO of Invemed Associates, LLC.



## RUNYON 5K AT YANKEE STADIUM

In April 2018, the tenth annual Damon Runyon 5K at Yankee Stadium drew nearly 2,300 participants and raised more than \$420,000. The event was presented by MetLife Foundation, with additional support from Poland Spring, RXBAR, Utz, Cabot, 24 Hour Fitness, New York Post, SiriusXM and the New York Yankees.



## RAVEIS RIDE + WALK

The William Raveis Charitable Fund hosted the third annual Raveis Ride + Walk in October 2017, raising more than \$500,000 for Damon Runyon scientists. We are grateful to everyone at William Raveis for their partnership and support in raising more than \$1.5 million for Damon Runyon over three years!



## BROADWAY TICKETS

Damon Runyon Broadway Tickets offers premium seats to all of Broadway's hit shows. We are grateful to the Shubert Organization, Nederlander Productions, Jujamcyn Theaters, and Disney Theatrical Productions for making this program possible. Special thanks to our Premier Circle members for their ongoing support of our efforts to end cancer. To purchase tickets or gift certificates please visit [www.damonrunyon.org/broadway](http://www.damonrunyon.org/broadway).

# 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 sincerely thank them for their vision.

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## DAMON RUNYON-RACHLEFF INNOVATION AWARDS

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

*Nadia's Gift Foundation Innovator*

**Peter J. Turnbaugh, PhD**  
University of California,  
San Francisco

## CLINICAL INVESTIGATOR AWARDS

This award was initially established in partnership with Eli Lilly and Company. In addition to the named awards, it is supported by Accelerating Cancer Cures, a collaboration between Damon Runyon and leading biopharmaceutical companies.

*Gordon Family Clinical Investigator*

**Geoffrey R. Oxnard, MD**  
Dana-Farber Cancer Institute

*MetLife Foundation Clinical Investigator*

**Christopher E. Barbieri, MD, PhD**  
Weill Cornell Medicine

*Richard A. Lumsden Foundation  
Clinical Investigator*

**Alex Kentsis, MD, PhD**  
Memorial Sloan Kettering  
Cancer Center

*William Raveis Charitable Foundation  
Clinical Investigators*

**Vinod P. Balachandran, MD**  
Memorial Sloan Kettering  
Cancer Center

**Adrienne A. Boire, MD, PhD**  
Memorial Sloan Kettering  
Cancer Center

## CLINICAL INVESTIGATOR CONTINUATION GRANT

Follow-up funding for select Clinical Investigators has been provided thanks to the William K. Bowes, Jr. Foundation.

*William Raveis Charitable Foundation  
Clinical Investigator*

**Joshua Brody, MD**  
Icahn School of Medicine at  
Mount Sinai

## FELLOWSHIP AWARDS

The following awards are funded by donors who have generously endowed an award in perpetuity or sponsored an individual Fellow.

*Berger Foundation Fellow*

**Bryan C. King, PhD**  
Memorial Sloan Kettering  
Cancer Center

*Connie and Bob Lurie Fellow\**

**Chuan Li, PhD**  
Stanford University

*Dale F. and Betty Ann Frey Fellow\**

**Linghe Xi, PhD**  
The Rockefeller University

*David M. Livingston, MD, Fellow*

**Tikvah K. Hayes, PhD**  
Dana-Farber Cancer Institute

*Dennis and Marsha Dammerman Fellow\**

**Marsha M. Hirschi, PhD**  
Scripps Research Institute

*Fayez Sarofim Fellow\**

**Jeremy I. Roop, PhD**  
Fred Hutchinson Cancer  
Research Center

*Fraternal Order of Eagles Fellow\**

**Victoria Hung, PhD**  
Stanford University

*GE Asset Management Fellow*

**Jonathan R. Whicher, PhD**  
The Rockefeller University

*Howard Hughes Medical Institute  
(HHMI) Fellows*

**Sudeep Banjade, PhD**  
Cornell University

**Brian J. Beliveau, PhD**  
Harvard University

**Andrew A. Bridges, PhD**  
Princeton University

**Christopher J. Cambier, PhD**  
Stanford University

**Xintong Dong, PhD**  
Johns Hopkins University  
School of Medicine

**Stephanie Gates, PhD**  
University of California, Berkeley

**Yusong R. Guo, PhD**  
The Rockefeller University

**Alexander M. Jaeger, PhD**  
Massachusetts Institute of Technology

**Zhejian Ji, PhD**  
Harvard Medical School

**Nora Kory, PhD**  
Whitehead Institute for  
Biomedical Research

**Brian J. Laidlaw, PhD**  
University of California, San Francisco

**Daniel H. Lin, PhD**  
Whitehead Institute for  
Biomedical Research

**Alesia N. McKeown, PhD**  
University of Utah School of Medicine

**Andrew C. Murley, PhD**  
University of California, Berkeley

**Jose M. Ordovas-Montanes, PhD**  
Massachusetts Institute  
of Technology

**Esen Sefik, PhD**  
Yale School of Medicine

**Sarah Z. Tasker, PhD**  
University of Illinois

**Yuxiang Zhang, MD, PhD**  
Boston Children's Hospital

**Ziyang Zhang, PhD**  
University of California, San Francisco

**Boris Zinshteyn, PhD**  
Johns Hopkins University  
School of Medicine

*Illini 4000 Fellow*  
**Daniel J. Blair, PhD**  
University of Illinois

*Kenneth G. and Elaine A. Langone Fellow\**  
**Eric E. Gardner, PharmD, PhD**  
Weill Cornell Medicine

*Lallage Feazel Wall Fellow\**  
**Laura V. Blanton, PhD**  
Whitehead Institute for  
Biomedical Research

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| Marie-Noelle and Jeffrey Smith     | J. Page Turney                    | Allison C. Williams            |
| Sarah Snell                        | UBS Financial Services, Inc.      | George Wilson                  |
| Nancy and Stephen Snell            | Steven Urbach                     | Gregory Wilson                 |
| Garry Snook                        | Kathy Van Camp                    | Eleanor and Benjamin Winter    |
| The Sokol Family Gift Fund         | Mariah Varner                     | Jami McLaughlin and            |
| Sharon Sokolow                     | Craig Varrelman, CFA              | Owen Witte, MD                 |
| Gerri and Andrew Sommers           | Elizabeth J. Vega                 | Elaine and Harold Wolchok      |
| Vinton H. Sommerville              | Kathryn Vizas                     | Peggy Wong                     |
| Philippe Soriano, DSc, PhD         | Anastasia Vournas                 | Rod Wood                       |
| Teresa and Kenneth Stabler         | Linda and Edward Wacks            | Wright Investors' Service      |
| Dale and Harold Stahler, Esq.      | Robert Waldbauer                  | Holdings, Inc.                 |
| Keren and Alex Stankevich          | Joni Walser and Andrew Church     | Barbara and Robert Young       |
| State Street Foundation            | The Walt Disney Company           | Julie Yu                       |
| Matching Gift Program              | Judith and Peter Wasserman        | Gayle and Emmett Zimmerman III |
| Ian Steele                         | The Wasserman Foundation          | Seymour W. Zises               |
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| Sarah Stenn                        | Georgianna and Robert Waters      |                                |
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| Leila and Melville Straus          | Samuel G. Weinberg                |                                |
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| Diane Sullivan                     | David Weinstock, MD               |                                |
| Roy Sutherland                     | David and Candace Weir Foundation |                                |
| T. Rowe Price Trust Co.            | Carol Windsor and                 |                                |
| Dorothy Tananbaum                  | James A. Wells, PhD               |                                |
| Karen and Sanford Teplitzky        | Wells Fargo Philanthropic East    |                                |
| Patricia and J. Ronald Terwilliger | Wells Fargo Wealth Management     |                                |
| Tullia Lindsten, MD, PhD,          | Donald and Barbara                |                                |
| and Craig Thompson, MD             | Werner Foundation                 |                                |



Receiving this Fellowship meant that I could focus my time as a postdoctoral fellow on research instead of applying for grants to fund my work. I am thankful for the opportunity to have connected with so many high-achieving scientists.



**ALLISON LAU, PhD**  
Damon Runyon Fellow, 2015-2019  
Massachusetts Institute of Technology



# Broadway Premier Circle

The **Broadway Premier Circle** is a group of loyal Damon Runyon Broadway Tickets customers who have made a special donation in support of cancer research. The Premier Circle offers members priority access to tickets and other benefits.

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# Discovery Society

Discovery Society members are valued supporters who have informed us that they have provided for the Damon Runyon Cancer Research Foundation through future planned gifts. These donations provide a vital source of support and fuel future breakthroughs against cancer. If you have made a planned gift to the Foundation, please contact Hilary Rogers at 212.455.0535.

Elaine M. Addis  
Judy Chase  
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## Phone

**1.877.7CANCER or 1.877.722.6237**

9 am–5 pm ET, Monday to Friday



## Mail

One Exchange Plaza, 55 Broadway  
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## Estate Planning

Visit our website for more information:

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## Damon Runyon Broadway Tickets

Damon Runyon Broadway Tickets offers Broadway's best seats and the opportunity to support cutting-edge cancer research at the same time. Orchestra seats are available for even the most popular shows.

Join our Premier Circle to enjoy benefits like priority access to tickets before they go on sale each month, and more.

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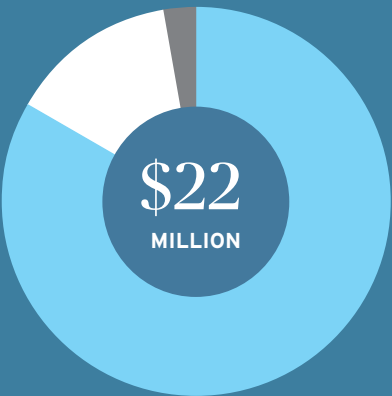
# Financial Summary

## Fiscal Year 2018

As in previous years, the financial activities of the Damon Runyon Cancer Research Foundation were audited by RMS US LLP. Below is a snapshot of FY2018.

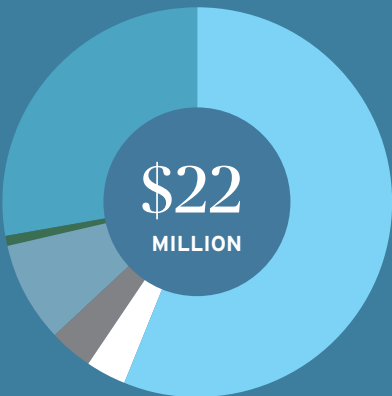
For our complete audited financial statements, please visit our website at [WWW.DAMONRUNYON.ORG](http://WWW.DAMONRUNYON.ORG)

TOTAL OPERATING EXPENSES



- Award Programs 83.5%
- Fundraising 14.0%
- General Administration 2.5%

TOTAL REVENUE



- Contributions 56.2%
- Damon Runyon Broadway Tickets 3.3%
- Donated Services 3.7%
- Bequests and Trusts 8.3%
- Misc. Income 1.0%
- Allocation from Investments 27.5%

### SUMMARY OF BALANCE SHEETS

|                   | 2017          | 2018          |
|-------------------|---------------|---------------|
| Total Assets      | \$142,411,870 | \$148,707,992 |
| Total Liabilities | \$30,256,220  | \$32,236,227  |
| Total Net Assets  | \$112,155,650 | \$116,471,765 |



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

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