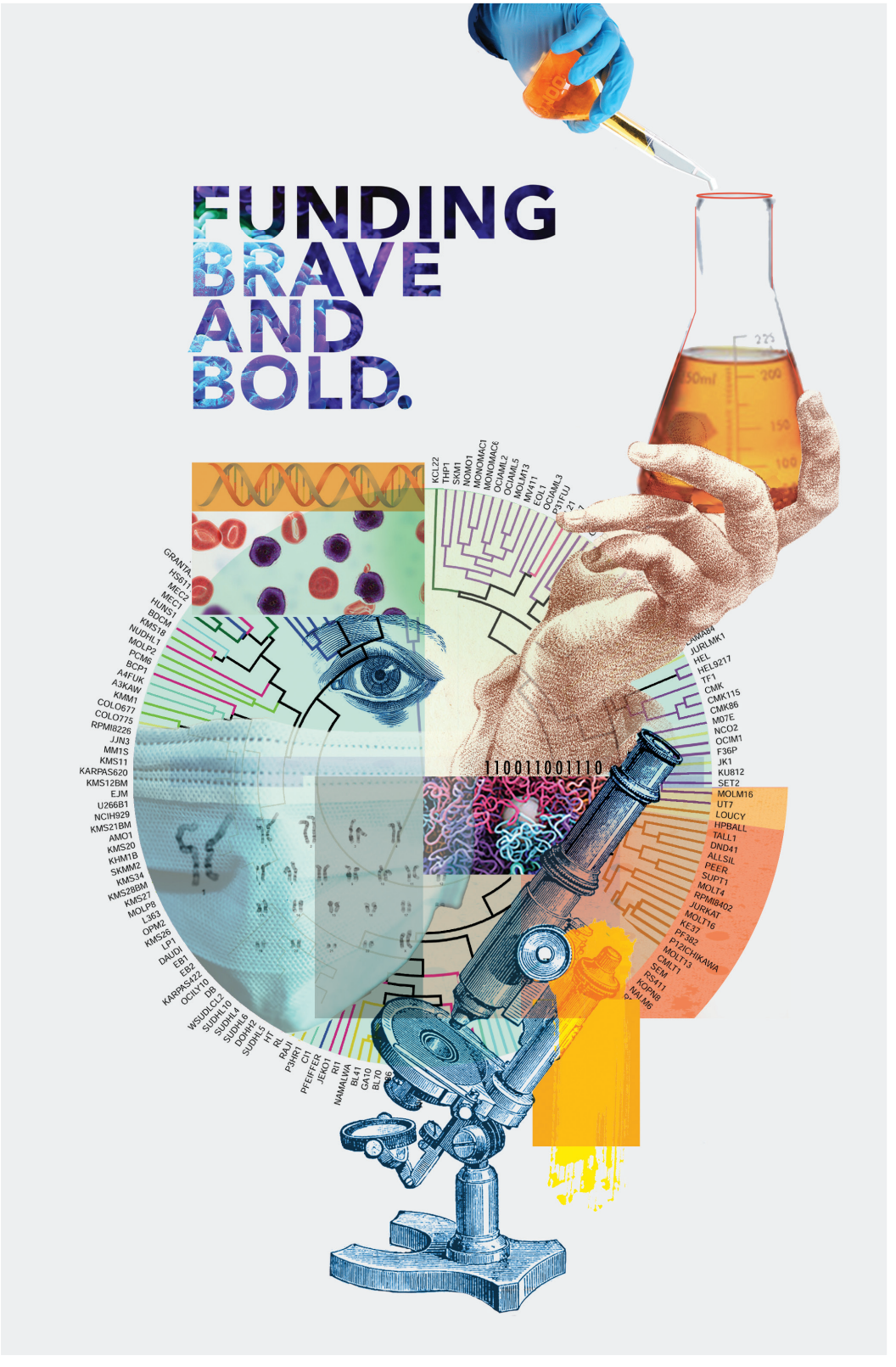
DAMON RUNYON
CANCER RESEARCH
FOUNDATION

ANNUAL REPORT 2020



At the Damon Runyon Cancer Research Foundation, we fund high-risk, high-reward cancer research. We identify and enable young scientists who are brilliant, brave and bold enough to go where others haven't.

A MESSAGE FROM THE PRESIDENT & CEO

YUNG S. LIE, PhD

BY ITS NATURE, SCIENCE REQUIRES RESILIENCE. WHEN EXPERIMENTS FAIL OR RESULTS CONFOUND EXPECTATIONS, SCIENTISTS MUST QUICKLY ADAPT TO FIND A NEW PATH FORWARD.

By its nature, science requires resilience. When experiments fail or results confound expectations, scientists must quickly adapt to find a new path forward.

The road to becoming a scientist requires no less perseverance. Navigating the gauntlet of graduate school, postdoctoral training, and building an independent research program all present challenges and roadblocks of their own. Damon Runyon's awards are intentionally designed to offer the most promising scientists the resources and support needed to clear these early career hurdles.

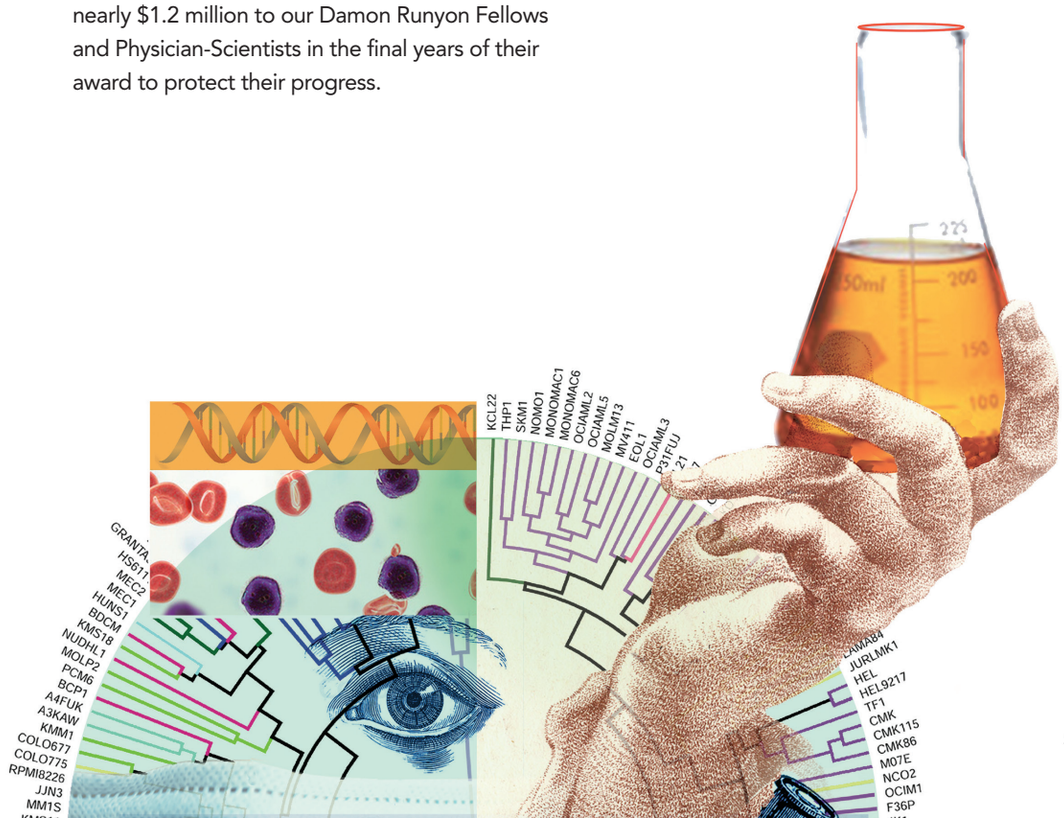
But many of our scientists in this vulnerable stage of their careers found themselves facing a new and unexpected challenge this spring when the pandemic closed research institutions across the nation. Experiments had to be paused, cell lines frozen, analyses postponed. Physician-scientists had to leave their benches for the frontline, to care for patients not only with cancer but with COVID-19. In this annual report, you'll hear from Michael W. Drazer, MD, on his experience as a physician during the earliest days of the pandemic, and Yadira M. Soto-Feliciano, PhD, on how she harnessed the resilience and fortitude built up over the course of her career to remain productive even while her laboratory was closed.

Michael and Yadira are just two of the Damon Runyon scientists whose research–and life–was affected by COVID-19. When the extent of the pandemic's impact on scientific research became evident, the Scientific Committee of our Board of Directors immediately began discussing how we could support our scientists at the most critical points of their careers. Thanks to their proactive leadership and vision, we have been able to offer an additional investment of nearly $1.2 million to our Damon Runyon Fellows and Physician-Scientists in the final years of their award to protect their progress.

FOR MANY, RETURNING TO FULL PRODUCTIVITY MAY TAKE MONTHS AS THE PANDEMIC CONTINUES, BUT OUR SCIENTISTS ARE UNDAUNTED.

Now, more than six months later, our scientists report that this support was crucial for enabling them to reopen their laboratories and resume their research. For many, returning to full productivity may take months as the pandemic continues, but our scientists are undaunted. They have adapted by working in shifts either early mornings, late nights, or on weekends to maintain social distancing guidelines, and by meeting with their colleagues and collaborators virtually rather than in person.

These are the future leaders in all areas of cancer research—our mission is to give them the support they need to break past the barriers and obstacles that lie in their path. We are inspired by their fierce determination and resolve to push cancer research forward, no matter what challenges they face. ●



YADIRA M. SOTO-FELICIANO, PhD

SOHN FELLOW
Epigenetics

INSTITUTION
The Rockefeller University

PROJECT TITLE
"Dissecting the role of Menin in acute leukemia"

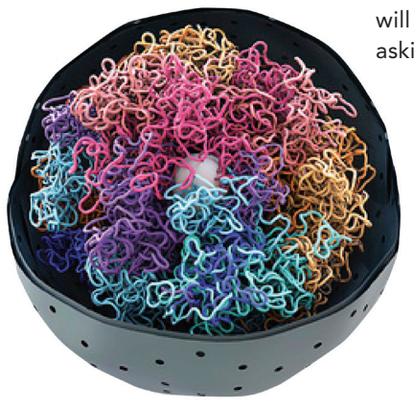
FOLLOWING THE WINDING PATH OF SCIENTIFIC DISCOVERY

Mutations leading to errors in how DNA stacks inside the chromosome are associated with many diseases, including cancer. Damon Runyon-Sohn Fellow Yadira M. Soto-Feliciano, PhD, wants to understand this process on a fundamental level to reveal new opportunities to thwart cancer. "I think basic research is critically important, particularly in cancer biology, because it helps us dissect the roots of the problems that cause disease," she explains.

We asked Yadira about her scientific journey and what kind of leader she hopes to be in her future laboratory.

DR: TELL US ABOUT YOUR SCIENTIFIC JOURNEY, WHICH HAS COVERED MANY MILES AND REQUIRED SOME LEAPS OF FAITH.

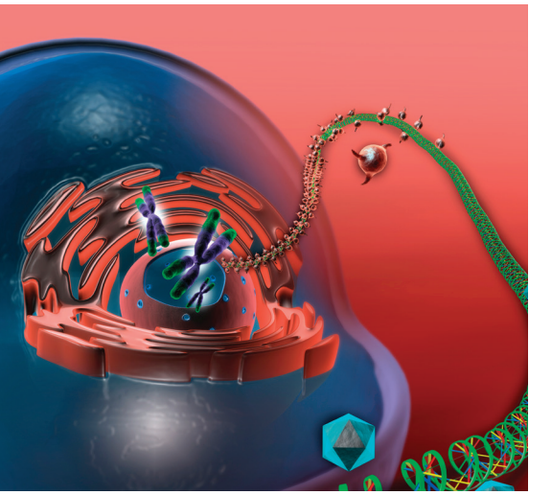
YADIRA: One day, a chemistry professor showed up to my dad's car painting shop in Puerto Rico as a client. My dad told him, "Oh, my daughter just started as a chemistry student in the same university." This opened the door for me to do research in his laboratory. Early on, that taught me the importance of having good mentors during every stage of your career. The mentality back home was to get a job in the industry in Puerto Rico when you finished college. But I made the big decision to take a job in a bioengineering lab in Boston as a research technician, which felt risky. I was moving thousands of miles away to a place where a different language was spoken, to work in a laboratory where I didn't know anyone! I'm very happy I did that—I learned many things, made great professional relationships, and was accepted to my dream PhD program at the Massachusetts Institute of Technology (MIT). I remember vividly how tough it was from both financial and personal standpoints, but at the end, it really paid off.



WHAT KIND OF LABORATORY ENVIRONMENT DO YOU WANT TO CREATE WHEN YOU LEAD YOUR OWN RESEARCH GROUP?

I want to foster an environment in my group that will make people comfortable asking questions. It sounds

trivial and simple, but the lab can be an intimidating environment. As someone who has faced the challenges of building a scientific career, I am also thinking of ways to help the next generation of scientists.



Even though as a Latina woman in science, I've not had a straightforward path to where I am today, I still consider myself privileged in the sense that I've been supported by great mentors along the way. I want to use those advantages I've had to help other scientists from underrepresented backgrounds. I want them to know that there are opportunities in science for them, there are people who look like them, and they can get to these places themselves.

EVEN HAVING ALL THE CARDS STACKED AGAINST ME, I WAS ABLE TO DO IT.

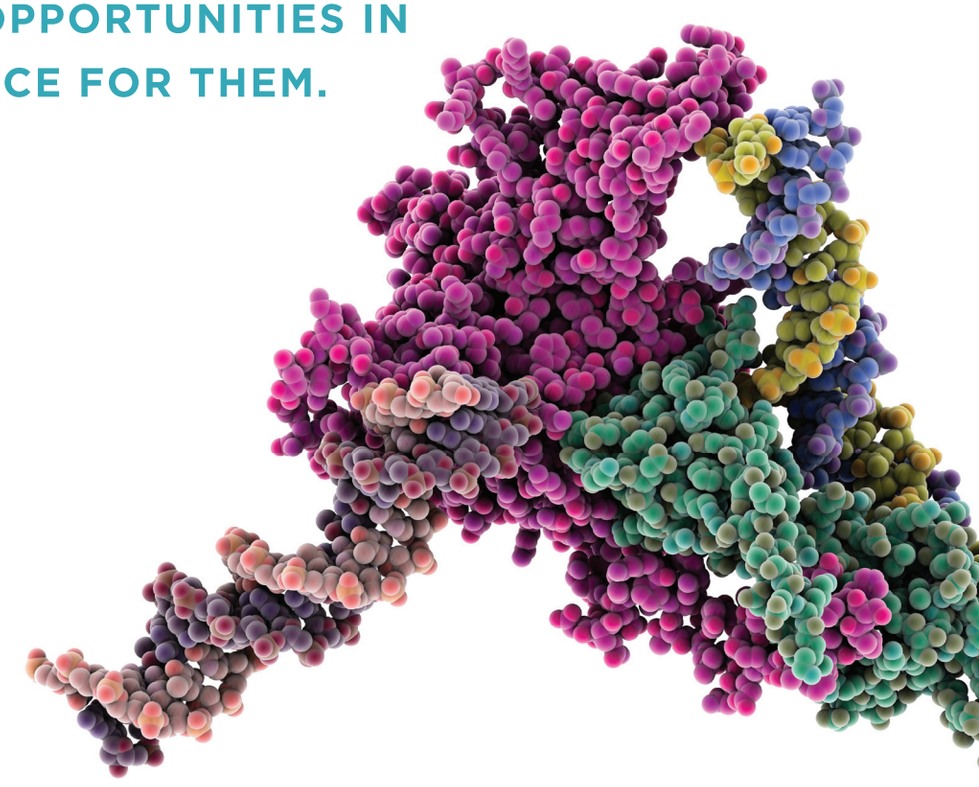
HOW DOES DAMON RUNYON PREPARE YOU FOR CHALLENGING MOMENTS IN A SCIENTIFIC CAREER?

Damon Runyon gives us the financial support for our salaries and research-related expenses, and also provides a wide network of peers, from clinicians to PhDs in different career stages, that otherwise would be really hard to reach. In my personal experience, these connections have led to scientific collaborations and important discoveries in cancer biology and other fields. The Foundation also makes an additional investment in a select group of fellows to facilitate the transition from postdoctoral training to a junior faculty position.

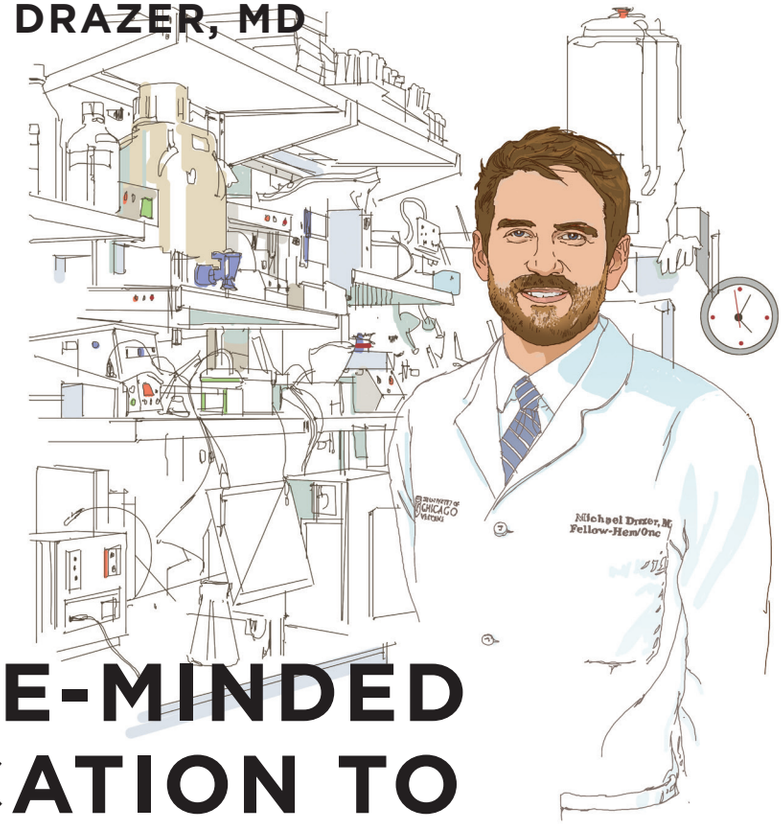
WHAT MOMENT HAVE YOU BEEN MOST PROUD OF AS A DAMON RUNYON FELLOW?

I think the proudest achievement during my fellowship has been writing and submitting a first-author manuscript this year when New York City shut down due to the pandemic. My husband and I live in a one-bedroom apartment with our two-year-old son. Without any childcare assistance and spending only an hour a day in front of my computer, I was able to prepare the figures, write drafts, and email with collaborators to submit the manuscript. Even having all the cards stacked against me, I was able to do it.

I WANT TO USE [THE] ADVANTAGES I'VE HAD TO HELP OTHER SCIENTISTS FROM UNDERREPRESENTED BACKGROUNDS. I WANT THEM TO KNOW THAT THERE ARE OPPORTUNITIES IN SCIENCE FOR THEM.



MICHAEL W. DRAZER, MD



SINGLE-MINDED DEDICATION TO UNCOVERING THE GENETIC BASIS OF BLOOD CANCERS

Researchers recently discovered that at least 13 percent of all blood cancers are caused by mutations that are passed from generation to generation within families. Damon Runyon Physician-Scientist Michael W. Drazer, MD, is investigating the cellular mechanisms that give rise to these blood cancers with the goal of developing earlier diagnostic approaches and therapies.

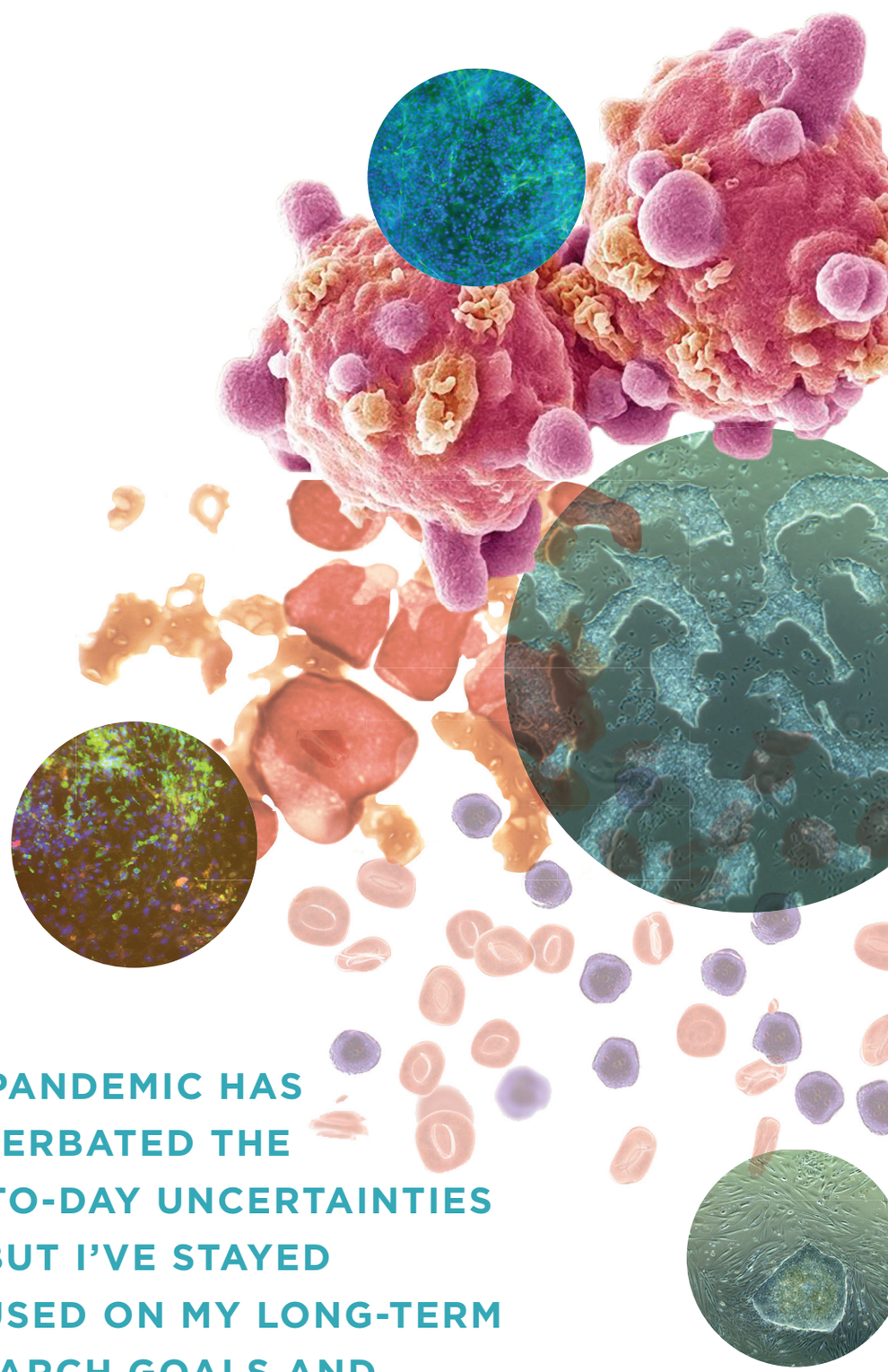
We asked Dr. Drazer to discuss the challenges of conducting research during a pandemic.

MICHAEL: I was raised on a small family farm in Indiana, and I've always been struck by how the uncertainty of farming mirrors the uncertainty of scientific research. Both disciplines require a single-minded

PHYSICIAN-SCIENTIST
Cancer Genetics

INSTITUTION
The University of Chicago

PROJECT TITLE
"Defining leukemogenic mechanisms in hereditary hematologic malignancies"



THE PANDEMIC HAS EXACERBATED THE DAY-TO-DAY UNCERTAINTIES [...] BUT I'VE STAYED FOCUSED ON MY LONG-TERM RESEARCH GOALS AND THE BELIEF THAT THIS WILL IMPACT PATIENT LIVES.

dedication and an ability to respond to challenges that are often beyond our control. When I was in second grade, for example, our farm flooded unexpectedly–my dad and I stayed up all night digging a trench, trying to drain our fields and save our work for that year. The pandemic has exacerbated the day-to-day uncertainties we always encounter, but I've stayed focused on my long-term research goals and the belief that this will impact patient lives.

DR: HOW HAVE YOU BEEN AFFECTED BY THE COVID-RELATED SHUTDOWN?

My initial concern was for my patients with blood cancers who are often immunocompromised and more susceptible to the life-threatening effects of the coronavirus. I had to protect those patients without compromising the efficacy of their treatments. Some interventions, such as stem cell transplants, are extraordinarily time-sensitive, so our teams had to be creative in performing those procedures early in the pandemic when our healthcare system was already stretched thin.

As a physician-scientist, I also had to freeze my experiments in the lab as efficiently as possible, so I could resume my work at some point. Damon Runyon has supported my research developing novel, one-of-a-kind experimental models of people with the different blood cancers that I study.

WE HAD TO PRESERVE OUR HIGH-TECH PATIENT "AVATARS": NOVEL, ONE-OF-A-KIND EXPERIMENTAL MODELS OF PEOPLE WITH THE DIFFERENT BLOOD CANCERS THAT I STUDY.

This irreplaceable collection of high-tech patient "avatars" is, I believe, the largest of its kind.

HOW HAVE YOU ADJUSTED YOUR APPROACH TO RESEARCH?

I pivoted to answer clinical questions and turned my attention to bioinformatics projects which can be completed remotely. For example, I suspected that many genetic tests incorrectly evaluated patients for their risk of developing a blood cancer. We published a paper demonstrating that the majority of these tests are completely inadequate for our patients with hereditary cancer syndromes. We want physicians to realize that this is a problem, so patients aren't given false reassurances and are offered proper treatments earlier. This could save lives and improve the care of their family members.

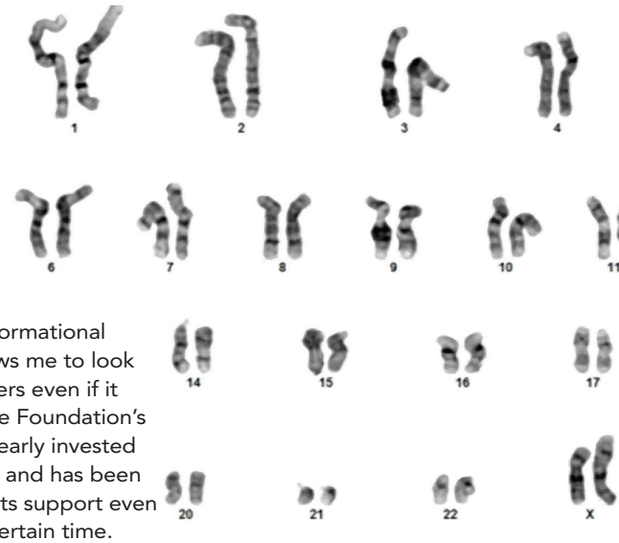
Now, I am back in the lab at 20% of my normal capacity as we maintain social distancing. Though we shifted our research priorities and never stopped working, we will still lose months to years of progress during this time.

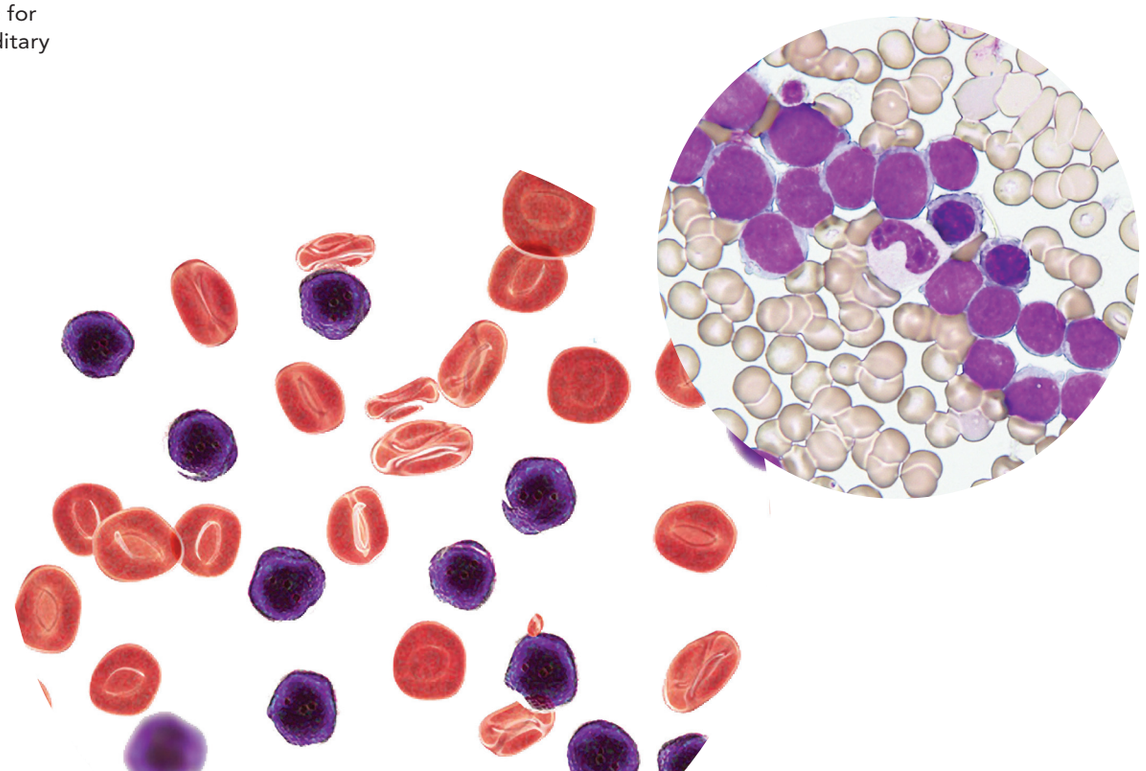
IN WHAT WAYS HAVE DAMON RUNYON'S SUPPORT AND RESOURCES HELPED YOU?

My patients provide me with direct insights into questions that inspire my research. The Physician-Scientist Training Award is transformational because it allows me to look for those answers even if it takes years. The Foundation's leadership is clearly invested in us as people and has been unwavering in its support even during this uncertain time.

WHAT IS THE LONG-TERM GOAL FOR YOUR RESEARCH?

I hope that my research in hereditary blood cancers informs the development of treatments for all types of blood cancers. I am inspired by scientists like Dr. William G. Kaelin, Jr. and my sponsor Dr. Lucy Godley, who have used a similar scientific philosophy and dedication to develop treatments that are saving lives. ●





A FEW WORDS FROM OUR BOARD MEMBERS

WILLIAM G. KAELIN, JR., MD

2019 Nobel Laureate
Vice Chair, Scientific Programs
Damon Runyon Board Member

"Basic research is an investment in future breakthroughs. It's important to point out that one of the reasons things have gone so quickly with COVID-19 is the decades of investment in basic understanding of what makes a virus tick.

We are reaping the benefits of lots of knowledge that was accumulated over time. Because of basic research, we almost immediately knew how to sequence the virus, identify the potential genes, identify the likely protein products produced by those genes, and so on. We were almost limited more by resources than knowledge.

That's where we'd like to get with cancer —to have enough knowledge so that for every single patient's tumor, we can say 'We've seen this before and we know exactly what to do. We know, for example, what the altered genes in this tumor do and how to treat them.' It's important to point out that for COVID-19, the virus is a 10-gene problem, as opposed to cancer, which is on the order of 20,000 different genes that can be altered in different tumors. It's a fundamentally different and, in many ways, more complex problem despite all the knowledge we've already gathered, we still have knowledge to gain. The COVID experience shows that if you have enough knowledge, disseminate the information, and work together, then things can go quite rapidly. In the field of cancer research, Damon Runyon is one of the most active forces in building that library of knowledge and training the researchers who will be able to use it." ●

"The fundamental research that Damon Runyon supports is enormously valuable. That kind of basic research serves as a building block for discoveries that apply to nearly all areas of human health. To use a timely example, scientists who understand the fundamental mechanisms of stem cells, inflammatory responses, virology and the immune system have led the way to a greater understanding of how the SARS-CoV-2 virus acts in the human body. By supporting young scientists now in basic science that relates to cancer research, Damon Runyon generates a cadre of scientists who will serve the world well as we increasingly face unexpected health challenges that include but extend beyond cancer." ●

ELAINE V. FUCHS, PhD

Former Damon Runyon Fellow
Damon Runyon Board Member

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AWARD PROGRAMS

In FY2020, Damon Runyon awarded nearly **$20M** to 71 newly selected, exceptional scientists.

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

DAMON RUNYON QUANTITATIVE BIOLOGY FELLOWSHIP AWARD

Supports quantitative scientists (trained in fields such as mathematics, computer science, physics, engineering, or related) to pursue research careers in computational biology.

THREE-YEAR AWARD: $240,000
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.

FOUR-YEAR AWARD: $231,000
plus up to $100,000 for medical school loan repayment

DAMON RUNYON-DALE F. FREY AWARD FOR BREAKTHROUGH SCIENTISTS

Supports a select few Damon Runyon Fellows who have 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 PHYSICIAN-SCIENTIST TRAINING AWARD

Supports and encourages outstanding recent medical school graduates to pursue cancer research careers by funding a protected research training experience under the guidance of a highly qualified and gifted mentor.

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

DAMON RUNYON CLINICAL INVESTIGATOR AWARD

Supports early career physician-scientists conducting patient-oriented research. This innovative program aims to increase the number of physicians who can seamlessly move between the laboratory and the patient's bedside in search of breakthrough treatments.

THREE-YEAR AWARD: $600,000
plus up to $100,000 for medical school loan repayment and the possibility of an additional $400,000 extension over two years

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: $400,000
with the possibility of an additional $400,000 extension over two years

DAMON RUNYON

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Professor and Director, NOMIS Center for Immunobiology and Microbial Studies
NOMIS Chair
Salk Institute for Biological Studies
LA JOLLA, CALIFORNIA

Jonathan C. Kagan, PhD
Associate Professor, Pediatrics
Harvard Medical School
Shwachman Chair in Gastroenterology
Boston Children's Hospital
BOSTON, MASSACHUSETTS

Lynne E. Maquat, PhD
J. Lowell Orbison Endowed Chair
Professor, Biochemistry and Biophysics
School of Medicine and Dentistry
Director, Center for RNA Biology
Chair of Graduate Women in Science
University of Rochester Medical Center
ROCHESTER, NEW YORK

Emmanuelle Passegué, PhD
Professor, Genetics and Development
Director, Columbia Stem Cell Initiative
Columbia University Irving Medical Center
NEW YORK, NEW YORK

Joel H. Rothman, PhD
Professor and Wilcox Family Chair in Biotechnology
Director, Biomolecular Science and Engineering Program
University of California, Santa Barbara
SANTA BARBARA, CALIFORNIA

Susan R. Schwab, PhD
Associate Professor, Pathology, Skirball Institute of Biomolecular Medicine
New York University School of Medicine
NEW YORK, NEW YORK

M. Celeste Simon, PhD
Arthur H. Rubenstein, MBBCh Professor
Scientific Director, Abramson Family Cancer Research Institute
Associate Director, Abramson Cancer Center Core Facilities
Department of Cell and Developmental Biology
University of Pennsylvania Perelman School of Medicine
PHILADELPHIA, PENNSYLVANIA

Nancy A. Speck, PhD
Investigator
Abramson Family Cancer Research Institute
Member, Abramson Cancer Center
Member, Institute for Regenerative Medicine
Co-Leader, Hematologic Malignancies Program, Abramson Cancer Center
Professor and Chair, Cell and Developmental Biology
University of Pennsylvania Perelman School of Medicine
PHILADELPHIA, PENNSYLVANIA

Aaron F. Straight, PhD
Professor and Chair, Biochemistry
Stanford University School of Medicine
STANFORD, CALIFORNIA

Jessica Tyler, PhD
Professor, Pathology and Laboratory Medicine
Weill Cornell Medicine
NEW YORK, NEW YORK

Matthew G. Vander Heiden, MD, PhD
Eisen and Chang Associate Professor and Associate Director
Koch Institute for Integrative Cancer Research at MIT
Instructor of Medicine
Dana-Farber Cancer Institute and Harvard Medical School
Member, Broad Institute
CAMBRIDGE, MASSACHUSETTS

DAMON RUNYON

FELLOWSHIP AWARD

California

California Institute of Technology

Zibo Chen, PhD*
Combinatorial signal classification with a protein-based synthetic neural network with Michael Elowitz, PhD

Ariana Peck, PhD
The Mark Foundation for Cancer Research Fellow
Expanding the reach of structure determination with nanocrystal tomography with Grant J. Jensen, PhD

Ludwig Institute for Cancer Research

Julia Su Zhou Li, PhD*
Spatial regulation of the inheritance of genomic abnormalities in cancer cells with Don W. Cleveland, PhD

Salk Institute

Hokyung K. Chung, PhD
Next generation adoptive cell therapy: SMARTER T cells for enhanced and durable anti-tumor immunity with Susan M. Kaech, PhD

Thomas H. Mann, PhD
Calcium signaling and the molecular clock of T cell exhaustion with Susan M. Kaech, 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

Haoxin Li, PhD*
The Mark Foundation for Cancer Research Fellow
Cysteine-modification screening to identify functional and druggable sites in cancer dependencies with Benjamin F. Cravatt, PhD

Yunxiao Zhang, PhD*
Merck Fellow
Mechanotransduction in pathogenesis of osteoarthritis with Ardem Patapoutian, PhD

Stanford University

Yiming Chen, PhD*
Optical interrogation of neuropeptide and peptide hormones with Karl Deisseroth, MD, PhD

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

Shuo Han, PhD*
Fayez Sarofim Fellow
Spatiotemporally precise manipulation of Hedgehog signaling for tissue regeneration and repair with Philip A. Beachy, PhD

Christina L. Hueschen, PhD
Molecular basis and regulation of apicomplexan parasite motility with Alex Dunn, 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

Christopher P. Lapointe, PhD
Regulatory roles of the 3' untranslated region in human translation with Joseph D. Puglisi, PhD

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 A. Petrov, PhD

Colleen N. McLaughlin, PhD*
HHMI Fellow
Cell surface mechanisms of neural circuit assembly with Liqun Luo, PhD

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

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

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

University of California, Berkeley

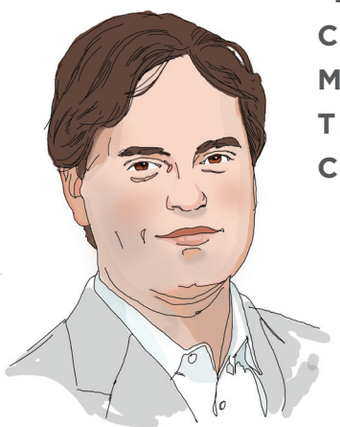
Tess C. Branon, PhD*
Robert Black Fellow
Elucidating mechanisms of bidirectional host-microbiota communication with Gregory M. Barton, PhD

Steven W.M. Crossley, PhD*
AGBT - Elaine R. Mardis Fellowship in Cancer Genomics
Mapping targets for cancer therapeutics via Methionine-selective warheads with Christopher J. Chang, PhD, and Daniel K. Nomura, PhD

Allison Didychuk, PhD
The Rhee Family Fellow
Viral mimics of host transcription factors in oncogenic herpesviruses with Britt A. 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 K. Hariharan, MBBS, PhD



"BEING PART OF THE DAMON RUNYON COMMUNITY WAS INSTRUMENTAL TO ME GETTING WHERE I AM TODAY. I AM THANKFUL FOR THE SUPPORT AT A CRITICAL POINT IN MY CAREER."

DANIEL A. COLÓN-RAMOS, PhD

Damon Runyon Fellow '04-'06

Yale School of Medicine

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

Katy Ong, PhD*
The Mark Foundation for Cancer Research Fellow
Long-range tumor-host signaling mechanisms driving paraneoplastic syndromes with David Bilder, PhD

Jiao Sima, PhD*
HHMI Fellow
Cellular mechanisms linking sleep disturbance and cancer development with Yang Dan, PhD

University of California, Los Angeles

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

Janice M. Reimer, PhD
Merck Fellow
Regulation of dynein by Lis1 with Andres E. Leschziner, PhD

Digvijay Singh, PhD
Cryo-electron tomography of phase-separated transcription factories *in situ* with Elizabeth Villa, PhD

University of California, San Francisco

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

Keelan Z. Guiley, PhD*
HHMI Fellow
Chemical probing of mutant p53 with Kevan M. Shokat, PhD

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

Tristan Wold Owens, PhD*
Suzanne and Bob Wright Fellow
Molecular mechanisms of heat shock transcription factor 1 in cancer with David Agard, PhD

Cristina Puchades, PhD*
Deciphering the molecular basis for modulation of TMEM16A activity with Yifan Cheng, PhD, and Lily Jan, PhD

Sukrit Silas, PhD
Discovery and characterization of virally-encoded proteins of unknown function with Joseph Bondy-Denomy, PhD, and Carol A. Gross, PhD

Adam J. Stevens, PhD
Synthetic adhesion molecules: redirecting cell infiltration and organization with Wendell A. Lim, PhD

Kouki Touhara, PhD*
Robert A. Swanson Family Fellow
Investigating chemical signaling between gut enteroendocrine cells and intrinsic primary afferent neurons with David Julius, 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

Yichen Xu, PhD
Elucidating the role of ER as a novel RNA-binding protein and its function in regulating translation with Davide Ruggero, 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
Understanding and perturbing protein post-translational modifications in cancer and autoimmune diseases with James A. Wells, PhD

Connecticut

Yale University

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

Illinois

University of Illinois at Urbana-Champaign

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

Maryland

Johns Hopkins School of Medicine

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

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

National Institutes of Health

Warakorn Pete 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

Liudmila Andreeva, PhD
Making an inflammasome: Structural and biochemical elucidation of NLRP3 inflammasome activation with Hao Wu, PhD

Aaron L. Moye, PhD
Role of Lgr6-expressing Mesenchymal cells in lung cancer initiation and progression with Carla F. Kim, PhD

Esteban A. Orellana Vinueza, PhD
Role of METTL1-WDR4 tRNA methyltransferase complex in cancer with Richard I. Gregory, PhD

Yuxiang Zhang, MD, PhD
HHMI Fellow
Mechanisms that promote DNA double strand break clusters in brain and liver with Frederick W. Alt, PhD

Ge Zheng, PhD
HHMI Fellow
Novel approaches to targeting zinc-finger domain of the transcription repressor BCL11A with Stuart Orkin, MD

Brigham and Women's Hospital

Kunitoshi Chiba, PhD
William Raveis Charitable Fund Fellow
The role of a tumor suppressor gene ASXL1 in immune evasion during tumorigenesis with Stephen J. Elledge, PhD

Broad Institute

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

Veronika Shoba, PhD*
Phosphorlyation-inducing chimeric small molecules with Amit Choudhary, PhD, and Stuart L. Schreiber, 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
HHMI Fellow
Using organoid cancer models to identify genome catastrophe mechanisms with David S. Pellman, MD

Jasper E. Neggers, PhD
Validation of VPS4A as a synthetic lethal target in cancers with VPS4B loss on chromosome 18q with Andrew J. Aguirre, MD, PhD, and Todd R. Golub, MD

Harvard Medical School

Amelia N. Chang, PhD
The role of activity-regulated gene expression in human brain evolution with Michael E. Greenberg, PhD

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

Erin E. Duffy, PhD*
Activity-dependent changes in RNA stability as a mechanism for synaptic plasticity with Michael E. Greenberg, PhD

Yuan Gao, PhD
HHMI Fellow
Mechanism of protein import into peroxisomes with Tom A. Rapoport, PhD

Pragya Goel, PhD*
Dale F. and Betty Ann Frey Fellow
Signaling structure for neuromodulatory coding in the vertebrate striatum with Pascal Kaeser, MD

Rachel S. Greenberg, PhD*
HHMI Fellow
Developing functional diversity in interoceptive circuits with Stephen Liberles, PhD

Zhejian Ji, PhD
HHMI Fellow
Function of the Cdc48 ATPase in protein degradation with Tom A. Rapoport, PhD

Lucy Liu, PhD
The fat-brain axis: Identifying the roles of adipokine signaling in nervous system function 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

Nikit B. Patel, PhD*
Determining the core genetic regulators of the erythro-myeloid switch with Allon Klein, 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

Jonathan G. Van Vranken, PhD
The Mark Foundation for Cancer Research Fellow
Systematic identification of metabolite-protein interactions in human cells with Steven Gygi, PhD

Chuchu Zhang, PhD
Molecular dissection of Area Postrema and its role in nausea with Stephen D. Liberles, 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., MD

Mark R. Sullivan, PhD*
Merck Fellow
Identifying requirements for lung infection by opportunistic pathogens with Eric J. Rubin, MD, PhD

Harvard University

Grace E. Kenney, PhD
Merck Fellow
Two enzymatic routes towards diazo biosynthesis in cytotoxic natural products with Emily P. Balskus, PhD

Thomas R. LaBar, PhD
Elucidating the mechanisms of cellular evolution with experimental evolution with Andrew W. Murray, PhD

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

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

Massachusetts General Hospital

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

Jingyi Wu, PhD
Epigenetic clonal evolution in gliomas with Bradley Bernstein, MD, PhD

Massachusetts Institute of Technology

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

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

Jon McGinn, PhD*
Dissecting the genetic networks underlying host subversion during Rickettsia infection with Rebecca Lamason, PhD, and Michael Laub, PhD

Sharanya Sivanand, PhD
Understanding metabolic heterogeneity in primary and metastatic tumors with Matthew G. Vander Heiden, MD, PhD

Whitehead Institute for Biomedical Research

Laura V. Blanton, PhD
Lallage Feazel Wall Fellow
The impact of sex chromosome constitution on immune cell gene expression and function with David C. Page, MD

"CANCER PATIENTS NEED INVESTIGATORS TO TAKE THESE RISKS—THEY CANNOT WAIT FOR THE CURES TO BECOME OBVIOUS."

CHRISTIN E. BURD, PhD

Damon Runyon-Rachleff Innovator '16-'19

The Ohio State University

Elizabeth A. Costa, PhD
Robert Black Fellow
Exploring the cell adhesion landscape through host-pathogen interactions with Sebastian Lourido, PhD

Daniel H. Lin, PhD
HHMI Fellow
The influence of RNA and protein conformation on target-directed miRNA degradation with David P. Bartel, PhD

Jingchuan Luo, PhD*
HHMI Fellow
Deciphering roles of nuclear-mitochondrial communication in cellular homeostasis with Jonathan S. Weissman, PhD

Alexandra Nguyen, PhD
Defining the cell type specific cell division requirements in acute myeloid leukemias with Iain M. Cheeseman, PhD

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

Missouri

Washington University

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

New Jersey

Princeton University

Caroline Bartman, PhD
The Mark Foundation for Cancer Research Fellow
Systems analysis of *in vivo* tumor and stromal cell metabolism in pancreatic ductal adenocarcinoma with Joshua Rabinowitz, MD, PhD

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

Courtney Ellison, PhD*
The role of type IV pili in *Pseudomonas aeruginosa* biofilm formation with Joshua Shaevitz, PhD, and Zemer Gitai, 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

Memorial Sloan Kettering Cancer Center

Kaixian Liu, PhD*
The studies of double-strand break proteins in germline genome transmission with Scott N. Keeney, PhD, and Shixin Liu, PhD

Ryan H. Moy, MD, PhD*§
Robert Black Fellow
Identifying the key drivers and mechanisms underlying metastatic liver colonization in colorectal cancer with Sohail Tavazoie, MD, PhD

Jose Reyes, PhD
HHMI Fellow
Dynamics and impact of genetic and non-genetic diversification driven by loss of p53 with Scott Lowe, PhD, and Dana Pe'er, PhD

New York University

Sophia C. Tintori, PhD
Mechanisms of radiation tolerance in *Caenorhabditis* from Chernobyl with Matthew Rockman, PhD

New York University School of Medicine

Nicholas M. Adams, PhD*
Marion Abbe Fellow
Elucidating how pDC genome organization regulates IFN production in cancer with Boris Reizis, PhD

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

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

Gregory P. Donaldson, PhD
Robert Black Fellow
Cross-talk between B lymphocytes and bacteria in the maintenance of a non-inflammatory mucosal microbiome with Daniel Mucida, PhD

Anita Gola, PhD*
A spatially patterned stem cell and immune cell barrier at the skin surface with Elaine V. Fuchs, PhD

Yusong R. Guo, PhD
HHMI Fellow
Structural and mechanistic characterization of mechanosensitive Piezo channels with Roderick MacKinnon, MD

Juhee Pae, PhD
Berger Foundation Fellow
Mechanisms of germinal center B Cell proliferation with Gabriel D. Victora, PhD

John C. Zinder, PhD
Lorraine W. Egan Fellow
Structure and biochemistry of human shelterin and associated factors with Titia de Lange, PhD

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 & 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

Balint Z. Kacsoh, PhD*
Rebecca Ridley Kry Fellow
Influence of social environment on cancer progression with Shelley Berger, PhD, and Christopher J. Lengner, PhD

Romain L. Riscal, PhD
Exploiting Cholesterol metabolism as a liability in clear cell Renal Cell Carcinoma (ccRCC) with M. Celeste Simon, PhD

University of Pittsburgh

Abigail E. Overacre-Delgoffe, PhD
Microbiome control of the tumor microenvironment: harnessing immunosuppression and exhaustion with Timothy W. Hand, PhD, and Olivera Finn, PhD

Utah

University of Utah School of Medicine

Lexy von Diezmann, PhD
The Mark Foundation for Cancer Research Fellow
State changes of a liquid-like compartment monitor crossover recombination with Ofer Rog, PhD, and Erik Jorgensen, PhD

Washington

Fred Hutchinson Cancer Research Center

Tyler Starr, PhD
HHMI Fellow
The sequence-function landscape of antibody affinity maturation with Jesse D. Bloom, PhD, and Frederick Matsen, PhD

University of Washington

Junhong Choi, PhD*
HHMI Fellow
Determinants and consequences of DNA replication program with Jay A. Shendure, MD, PhD

Canada

University of Calgary

Ysbrand Nusse, PhD*
Robert Black Fellow
Defining the role of eosinophils in liver injury and repair with Paul Kubes, PhD

**Initial Year*
§ Physician-Scientists

QUANTITATIVE BIOLOGY FELLOWSHIP AWARD COMMITTEE

Aviv Regev, PhD
Executive Vice President and Head, Research and Early Development
Genentech, Inc.
SOUTH SAN FRANCISCO, CALIFORNIA

Andrea Califano, PhD
Chair, Systems Biology
Irving Cancer Research Center
Columbia University
NEW YORK, NEW YORK

Anshul Kundaje, PhD
Assistant Professor, Genetics and Computer Science
Stanford University
STANFORD, CALIFORNIA

X. Shirley Liu, PhD
Professor, Data Science
Director, Center for Functional Cancer Epigenetics
Dana-Farber Cancer Institute
Harvard University
BOSTON, MASSACHUSETTS

Lior Pachter, PhD
Bren Professor of Computational Biology
Departments of Biology and Computing/Mathematical Sciences
California Institute of Technology
PASADENA, CALIFORNIA

Dana Pe'er, PhD
Chair, Computational and Systems Biology Program
Scientific Director, Metastasis and Tumor Ecosystems Center
Sloan Kettering Institute
Memorial Sloan Kettering Cancer Center
NEW YORK, NEW YORK

Caroline Uhler, PhD
Henry L. and Grace Doherty Associate Professor
Department of Electrical Engineering and Computer Science
Institute for Data, Systems and Society
Massachusetts Institute of Technology
CAMBRIDGE, MASSACHUSETTS

Ad Hoc Member

Todd R. Golub, MD
Director, Cancer Program
Chief Scientific Officer
The Broad Institute of MIT and Harvard
Howard Hughes Medical Institute Investigator
CAMBRIDGE, MASSACHUSETTS

"I BUILT PERSONAL RELATIONSHIPS WITH THE FOUNDATION, SCIENTIFIC COMMITTEE MEMBERS, AND OTHER AWARDEES, WHICH I FORESEE BEING LONG-LASTING AND LEADING TO FRUITFUL AND FEARLESS COLLABORATIONS."

GIADA BIANCHI, MD

Damon Runyon Physician-Scientist '16-'19

Dana-Farber Cancer Institute and Harvard Medical School

QUANTITATIVE BIOLOGY FELLOWSHIP AWARD

California

Hang Xu, PhD*
Investigating the dynamics of chromosomal instability in cancer with Christina N. Curtis, PhD, and Calvin Kuo, PhD, Stanford University School of Medicine, Stanford

Massachusetts

Denis Schapiro, PhD*
Single cell pharmacodynamics and spatial signatures of drug response in the intact tumor microenvironment with Aviv Regev, PhD, and Peter K. Sorger, PhD, Harvard Medical School, Boston

Collin Tokheim, PhD*
Computationally identifying oncogenic substrates of the ubiquitin-proteasome system in human cancers with X. Shirley Liu, PhD, and Eric S. Fischer, PhD, Dana-Farber Cancer Institute, Boston

Shou-Wen Wang, PhD*
Inferring cell fate choice from clonal and transcriptomic data, with application to hematopoiesis with Allon M. Klein, PhD, and Fernando Camargo, PhD, Harvard Medical School, Boston

New York

Siting Gan, PhD*
In situ single-cell dissection of the tumor-microenvironment interplay mediating brain metastasis with Joan Massagué, PhD, and Dana Pe'er, PhD, Memorial Sloan Kettering Cancer Center, New York

Oregon

Jeremy Copperman, PhD*
Whole-cell modeling for the prediction and control of micro-environmentally regulated proliferative and migratory variability with Daniel M. Zuckerman, PhD, and Joe W. Gray, PhD, Oregon Health and Science University, Portland

Texas

Runmin Wei, PhD*
Integrating single cell genomic and spatial information to delineate tumor heterogeneity and microenvironment interactions in inflammatory breast cancer with Nicholas E. Navin, PhD, and Ken Chen, PhD, University of Texas MD Anderson Cancer Center, Houston

Vermont

Vitor Mori, PhD*
EBUS-TBNI of cisplatin optimization in heterogeneous lung tumors with Jason H.T. Bates, PhD, DSc, and C. Matthew Kinsey, MD, University of Vermont, Burlington

Washington

Tal Einav, PhD*
Quantifying a polyclonal immune repertoire's ability to bind influenza with Jesse D. Bloom, PhD, and Jonathan W. Yewdell, MD, PhD, Fred Hutchinson Cancer Research Center, Seattle

**Initial Year*

PEDIATRIC CANCER FELLOWSHIP AWARD COMMITTEE

CHAIR

Andrew L. Kung, MD, PhD
Chair and Professor, Pediatrics
Memorial Sloan Kettering Cancer Center
NEW YORK, NEW YORK

Scott A. Armstrong, MD, PhD
President, Dana-Farber/Boston Children's Cancer and Blood Disorders Center
Chair, Pediatric Oncology
Dana-Farber Cancer Institute
David G. Nathan Professor of Pediatrics
Harvard Medical School
Associate Chief of the Division of Hematology/Oncology
Boston Children's Hospital
BOSTON, MASSACHUSETTS

Julia Glade Bender, MD
Vice Chair for Clinical Research
Department of Pediatrics
Memorial Sloan Kettering Cancer Center
NEW YORK, NEW YORK

Patrick A. Brown, MD
Director, Pediatric Leukemia
Associate Professor, Oncology
Assistant Professor, Pediatrics
Johns Hopkins School of Medicine
BALTIMORE, MARYLAND

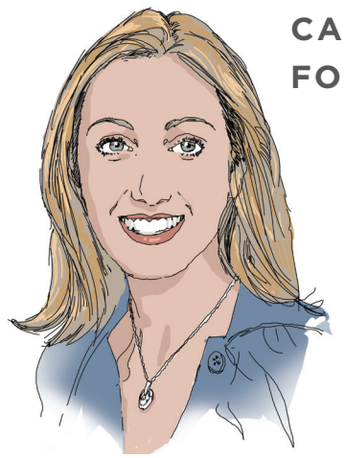
Peter D. Cole, MD
Professor, Pediatrics
Chief, Division of Pediatric Hematology/Oncology
Embrace Kids Foundation Chair in Pediatric Hematology/Oncology
Rutgers Cancer Institute of New Jersey
Robert Wood Johnson Medical School
Rutgers, The State University of New Jersey
NEW BRUNSWICK, NEW JERSEY

Adolfo A. Ferrando, MD, PhD
Professor, Pediatrics and Pathology
Institute for Cancer Genetics
Columbia University Medical Center
NEW YORK, NEW YORK

Lee J. Helman, MD
Professor, Pediatrics and Medicine
Keck School of Medicine
University of Southern California
Head, Basic and Translational Research, Children's Center for Cancer and Blood Diseases
Children's Hospital Los Angeles
LOS ANGELES, CALIFORNIA

Agata Smogorzewska, MD, PhD
Associate Professor and Head
Laboratory of Genome Maintenance
The Rockefeller University
NEW YORK, NEW YORK

"I AM THANKFUL TO ALL THE BRILLIANT STUDENTS AND COLLEAGUES I HAVE WORKED WITH AND THE AMAZING SUPPORT, LIKE THE DAMON RUNYON, I HAVE RECEIVED THROUGHOUT MY CAREER. IT MOTIVATES ME TO PAY IT FORWARD."



PARDIS C. SABETI, MD, DPhil

Damon Runyon Fellow '04-'06

Harvard University and the Broad Institute

PEDIATRIC CANCER FELLOWSHIP AWARD

California

Zulekha A. Qadeer, PhD
Targeting TGFβ pathway dependencies in Group 3 Medulloblastoma with William A. Weiss, MD, PhD, University of California, San Francisco

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

Peng Wu, MD, PhD§
Understanding and modulating aberrant differentiation in hepatoblastoma with Roeland Nusse, PhD, Stanford University School of Medicine, Stanford

Massachusetts

Adam D. Durbin, MD, PhD§
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

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

Maxim Pimkin, MD, PhD§
Divergent core transcriptional circuitries highlight context-specific vulnerabilities in AML with Stuart H. Orkin, MD, Dana-Farber Cancer Institute, Boston

New York

Jessie A. Brown, PhD
Candy and William Raveis Fellow
Master regulators of drug resistance in relapsed acute lymphoblastic leukemia with Adolfo A. Ferrando, MD, PhD, Columbia University Medical 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

Tennessee

Katherine E. Gadek, PhD
Defining endothelial progenitor cell pliancy in rhabdomyosarcoma with Mark Hatley, MD, PhD, and Stacey Ogden, PhD, St. Jude Children's Research Hospital, Memphis

Anand G. Patel, MD, PhD*§
Targeting the developmental architecture of rhabdomyosarcoma with Michael A. Dyer, PhD, St. Jude Children's Research Hospital, Memphis

Washington

Kiara C. Eldred, PhD*
Dissecting the mechanisms of tumorigenesis in the human retina with Thomas Reh, PhD, University of Washington, Seattle

Jay F. Sarthy, MD, PhD§
Characterization of the epigenomic landscape of diffuse midline gliomas with Steven Henikoff, PhD, Fred Hutchinson Cancer Research Center, Seattle

**Initial Year*
§ Physician-Scientists

DALE F. FREY AWARD FOR BREAKTHROUGH SCIENTISTS

Lindsay B. Case, PhD*
Regulation of integrin clustering on supported lipid bilayers at University of Texas Southwestern Medical Center, Dallas

Ivana Gasic, Dr.Sc.*
CRIS Cancer Foundation Breakthrough Scientist
Molecular elucidation of the interphase Microtubule Integrity Response (MIR) at University of Geneva, Geneva

Natasha M. O'Brown, PhD*
Molecular and cellular mechanisms of transcytosis regulation in blood-brain barrier function at Harvard Medical School, Boston

Benjamin M. Stinson, PhD*
Mechanism of DNA processing during non-homologous end joining at Harvard Medical School, Boston

Iva A. Tchasovnikarova, PhD*
CRIS Cancer Foundation Breakthrough Scientist
Fluorogenetic interrogation of chromatin position effects at The Gurdon Institute at the University of Cambridge, Cambridge

Yi Yin, PhD*
Global analysis of DNA break repair by single-cell sequencing at University of California, Los Angeles

**Initial Year*

"DAMON RUNYON'S MODEL OF SUPPORTING OUTSTANDING YOUNG SCIENTISTS ACROSS DIVERSE FIELDS OF STUDY IS INCREDIBLY SUCCESSFUL BECAUSE YOU CAN'T TELL WHERE THE NEXT BIG IDEA OR OPPORTUNITY WILL ORIGINATE."

THOMAS M. NORMAN, PhD

Damon Runyon Fellow '15-'18
Damon Runyon-Dale F. Frey Breakthrough Scientist '20-'22

Memorial Sloan Kettering Cancer Center

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Center for Cancer Immunology Research
The University of Texas MD Anderson Cancer Center
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PHYSICIAN-SCIENTIST TRAINING AWARD

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, Stanford University School of Medicine, Stanford

Andrew L. Ji, MD*
Cancer cell-extrinsic and intrinsic control of tumor progression and intratumoral heterogeneity with Paul A. Khavari, MD, PhD, Stanford University School of Medicine, Stanford

Maryland

Jonathan C. Dudley, MD*
Gordon Family Physician-Scientist
Earlier detection of cancer in body cavity fluids through aneuploidy analysis after cell enrichment and partitioning with Bert Vogelstein, MD, The Johns Hopkins University School of Medicine, Baltimore

Massachusetts

Elisa A. Aquilanti, MD*
The Ben and Catherine Ivy Foundation Physician-Scientist
Targeting telomerase in glioblastoma with Matthew L. Meyerson, MD, PhD, Dana-Farber Cancer Institute, Boston

Edmond M. Chan, MD
Validating a novel synthetic lethal target for microsatellite unstable cancers with Adam J. Bass, MD, Dana-Farber Cancer Institute, Boston

Christopher J. Gibson, MD
The biology and clinical implications of clonal hematopoiesis in cancer patients with Benjamin L. Ebert, MD, PhD, Dana-Farber Cancer Institute, Boston

Gabriel K. Griffin, MD
Enhancing cancer immunotherapy through epigenetic modulation of the repetitive genome with Bradley E. Bernstein, MD, PhD, and Arlene H. Sharpe, MD, PhD, Brigham and Women's Hospital, Boston

Lillian M. Guenther, MD
William Raveis Charitable Fund Physician-Scientist
Investigation of CITED2 as a novel dependency in Ewing sarcoma with Kimberly Stegmaier, MD, Dana-Farber Cancer Institute, Boston

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

Sakiko Suzuki, MD
Inflammatory cell death pathways in Myelodysplastic Syndromes with Michelle A. Kelliher, PhD, and Peter E. Newburger, MD, University of Massachusetts Medical School, Worcester

Natalie Vokes, MD*
The Mark Foundation for Cancer Research Physician-Scientist
Dissecting tumor intrinsic and immune drivers of resistance to therapy in non-small cell lung cancer with Eliezer M. Van Allen, MD, Dana-Farber Cancer Institute, Boston

New York

Andrew J. Dunbar, MD
Interrogating functional contribution of JAK2V617F in the maintenance of myeloproliferative neoplasms with Ross L. Levine, MD, Memorial Sloan Kettering Cancer Center, New York

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

Dennis J. Hsu, MD*
Metabolic determinants of codon usage bias in colorectal cancer with Sohail F. Tavazoie, MD, PhD, Memorial Sloan Kettering Cancer Center/The Rockefeller University, New York

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

Rabi Upadhyay, MD
Determining the distal effects of gut microbiota on the lung tumor microenvironment, cancer progression, and checkpoint blockade efficacy with Dan R. Littman, MD, PhD, New York University School of Medicine, New York

North Carolina

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

Ohio

Jonathan E. Shoag, MD
Harnessing clinical data to identify new prostate cancer therapeutics with Christopher E. Barbieri, MD, PhD, University Hospitals Cleveland Medical Center, Cleveland

**Initial Year*

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DAMON RUNYON

CLINICAL INVESTIGATOR AWARD

California

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

Anusha Kalbasi, MD*
IL13Rα2 Chimeric Antigen Receptor (CAR) T cells for metastatic melanoma with Antoni Ribas, MD, PhD, and Christine Brown, PhD, University of California, Los Angeles

Kavita Y. Sarin, MD, PhD
D.G. "Mitch" Mitchell Clinical Investigator
Genetic contributions and novel therapies for individuals with frequent basal cell cancer with Jean Y. Tang, MD, PhD, and Anthony E. Oro, MD, PhD, Stanford University, Stanford

Catherine C. Smith, MD
Richard Lumsden Foundation Clinical Investigator
Defining structure, function and therapeutic impact of oncogenic FLT3 mutations with Neil P. Shah, MD, PhD, University of California, San Francisco

Massachusetts

Birgit Knoechel, MD, PhD*
Mechanisms of CD8+ T-cell dysfunction and its therapeutic targeting in T-ALL with Kimberly Stegmaier, MD, and Catherine J. Wu, MD, Dana-Farber Cancer Institute, Boston

Matthew G. Oser, MD, PhD
Targeting neuroendocrine differentiation as a novel therapeutic strategy for small cell lung cancer with William G. Kaelin, Jr., MD, Dana-Farber Cancer Institute, Boston

New York

Karuna Ganesh, MD, PhD
Leveraging patient-derived organoid models to define the molecular determinants of metastatic regeneration 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

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

"SIMPLY PUT, MY DAMON RUNYON AWARD HAS SET MY CAREER ON A PATH FOR SUCCESS AS AN ACADEMIC PHYSICIAN-SCIENTIST."

DAVID M. KURTZ, MD, PhD

Damon Runyon Physician-Scientist '16-'19

Stanford University

North Carolina

Yvonne M. Mowery, MD, PhD*
Evaluating and targeting pathways of treatment resistance in head and neck squamous cell carcinoma with David G. Kirsch, MD, PhD, Duke University, Durham

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

Jennifer M. Kalish, MD, PhD
Epigenetic and genetic mechanisms of cancer in Beckwith-Wiedemann Syndrome with Marisa S. Bartolomei, PhD, and Garrett A. Brodeur, MD, Children's Hospital of Philadelphia, Philadelphia

Texas

Todd A. Aguilera, MD, PhD*
Immunologic responses to short course radiotherapy in rectal adenocarcinoma and the impact of CD40 agonist immunotherapy with Robert D. Timmerman, MD, and Yang-Xin Fu, MD, PhD, University of Texas Southwestern Medical Center, Dallas

David G. McFadden, MD, PhD
Identifying metabolic vulnerabilities in Hürthle cell carcinoma with Steven L. McKnight, PhD, and Ralph J. DeBerardinis, MD, PhD, University of Texas Southwestern Medical Center, Dallas

**Initial Year*

DAMON RUNYON

CLINICAL INVESTIGATOR AWARD CONTINUATION GRANT

Illinois

Jaehyuk Choi, MD, PhD
Development of novel therapeutic strategies for aggressive CTCL subtypes with Stephen D. Miller, PhD, and Joan Guitart, MD, Northwestern University, Chicago

Missouri

Vivek K. Arora, MD, PhD
Defining a targetable oncogenic dyad in bladder cancer with Lee Ratner, MD, PhD, Washington University, Saint Louis

New York

Vinod P. Balachandran, MD*
Recombinant interleukin-33 immunotherapy for pancreatic cancer with Steven D. Leach, MD, and Jedd D. Wolchok, MD, PhD, Memorial Sloan Kettering Cancer Center, New York

Christopher E. Barbieri, MD, PhD
Subtype-specific modes of clinical and molecular progression in prostate cancer with Lewis C. Cantley, PhD, Weill Cornell Medicine, New York

Piro Lito, MD, PhD*
Modeling responses to targeted ERK signaling inhibition 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 L. Estrin, PhD, Weill Cornell Medicine, New York

**Initial Year*

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Martha Steiner Professorship in Medical Research
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DALLAS, TEXAS

Founding Member

Ronald Levy, MD
Robert K. and Helen K. Summy Professor
Stanford University School of Medicine
STANFORD, CALIFORNIA

INNOVATION AWARD

Massachusetts

Liron Bar-Peled, PhD*
Identification of redox vulnerabilities in genetically defined cancers at Massachusetts General Hospital, Boston

Michael E. Birnbaum, PhD*
Decoding and reprogramming tumor-infiltrating T cells by pMHC-targeted lentiviruses at Massachusetts Institute of Technology, Cambridge

Brian B. Liau, PhD*
Investigating allosteric mechanisms regulating DNA methyltransferase enzymes at Harvard University, Cambridge

Joseph D. Mancias, MD, PhD
Identifying the pancreatic tumor MHC-I ligandome in response to ionizing radiation for combination radiation-immunotherapy at Dana-Farber Cancer Institute, Boston

Jan P. Schuemann, PhD
Using extreme dose rates to protect healthy tissue in proton radiation therapy at Massachusetts General Hospital, Boston

Alexandra-Chloé Villani, PhD
Deciphering the Achilles' heel of cancer immunotherapy at Massachusetts General Hospital, Boston

New York

Michael E. Pacold, MD, PhD*
Tracing molecular oxygen in pancreatic cancer at NYU Langone Health, New York

Elli Papaemmanuil, PhD*
Biological and clinical implications of allelic imbalances in clonal hematopoiesis and subsequent risk of therapy related leukemia at Memorial Sloan Kettering Cancer Center, New York

Jason M. Sheltzer, PhD
Are cancers addicted to aneuploidy? at Cold Spring Harbor Laboratory, Cold Spring Harbor

Texas

Xiaochun Li, PhD
Investigations on Patched, a tumor suppressor, and its regulation in Hedgehog pathway at University of Texas Southwestern Medical Center, Dallas

Utah

Gregory S. Ducker, PhD, and Kimberley J. Evason, MD, PhD*
Targeting phosphatidylcholine metabolism in liver cancer using zebrafish at Huntsman Cancer Institute at the University of Utah, Salt Lake City

**Initial Year*

INNOVATION AWARD STAGE 2 FUNDING

California

Rushika M. Perera, PhD
Nadia's Gift Foundation Innovator
Mechanisms of cellular transformation at the single organelle level at 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 resistance to anti-PD1 immunotherapy in hepatocellular carcinoma at 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

**Initial Year*

THANK YOU TO OUR DONORS

Your support this year enabled us to invest nearly **$20 million** in the next generation of leading scientists tackling the challenges of cancer research with bold new ideas and innovative technology. Since our founding in 1946, in partnership with donors across the nation, Damon Runyon has invested nearly **$394 million** and funded 3,826 young scientists.

AWARD SPONSORS

We are grateful to our individual 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, visit: damonrunyon.org/get-involved/sponsor

Award sponsors are listed on pages 42–44.

DAMON RUNYON BROADWAY TICKETS

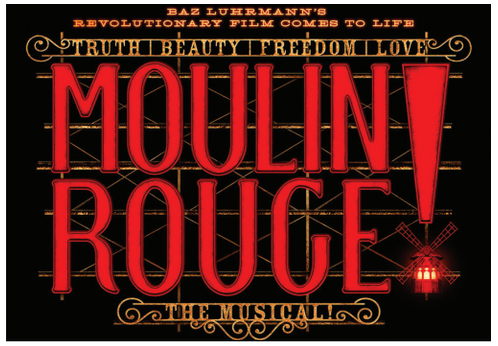
Damon Runyon Broadway Tickets offers premium seats to all of Broadway's hit shows. We are grateful to the Shubert Organization, Nederlander Productions, Jujamcyn Theaters and Disney Theatrical Productions for making this program possible. This year we'd like to extend special thanks to our Premier Circle members for their ongoing support of our efforts to end cancer. We rely on the proceeds from Damon Runyon Broadway Tickets to fund our brilliant scientists, and their loyalty has been crucial as we wait for Broadway's reopening.

TO LEARN MORE ABOUT DAMON RUNYON BROADWAY TICKETS AND PURCHASE GIFT CERTIFICATES, PLEASE VISIT DAMONRUNYON.ORG/BROADWAY.

EVENTS & MEETINGS

VIRTUAL RUNYON 5K

Between August 24 and October 4, 2020, more than 450 participants walked, ran, hiked, or biked a 5K along a course of their choice – including many Damon Runyon scientists across the nation who participated for the first time with friends, family, and labmates. The Virtual Runyon 5K raised more than $60,000 for cancer research.

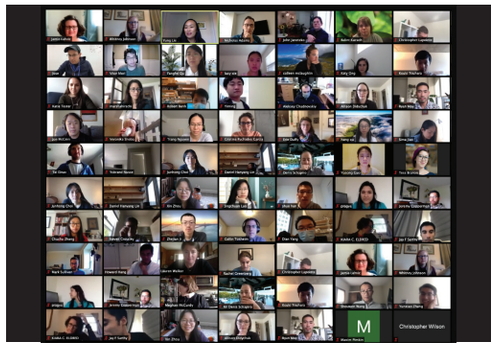


MOULIN ROUGE! THEATER BENEFIT

In November 2019, Damon Runyon Broadway Tickets supporters enjoyed a reception and conversation with Damon Runyon scientists before taking in a performance of the Tony-nominated musical *Moulin Rouge!* Our Theater Benefits provide an opportunity for donors to experience an intimate evening with fellow patrons while learning more about the work Damon Runyon Broadway Tickets supports.

RAVEIS RIDE + WALK

The William Raveis Charitable Fund hosted the fifth annual Raveis Ride + Walk in September 2019, raising $450,000 for Damon Runyon scientists. The family-friendly fundraiser attracts participants from Connecticut, New Jersey and New York. We are grateful to everyone at William Raveis for their partnership and support in raising more than $2.5 million for Damon Runyon since 2015.



GOING VIRTUAL

Since March, we've been grateful for the opportunity to connect with our community virtually through a series of webinars, symposia, and celebrations. The Damon Runyon Fellows' Retreat and Accelerating Cancer Cures symposia were both held virtually this fall, and in lieu of our Annual Breakfast, typically held in the spring, Damon Runyon donors and friends gathered online for A Virtual Toast to Science in early December. We hope to resume in-person events in 2021.

SPONSORED AWARDS

We thank our individual, foundation, and corporate sponsors who have partnered with us to launch or provide continuing support for specific award programs.

DAMON RUNYON-RACHLEFF INNOVATION AWARD

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

NADIA'S GIFT FOUNDATION INNOVATOR

STAGE 2 FUNDING

Rushika M. Perera, PhD
University of California, San Francisco

CLINICAL INVESTIGATOR AWARD

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.

D.G. "MITCH" MITCHELL CLINICAL INVESTIGATOR

Kavita Y. Sarin, MD, PhD
Stanford University

RICHARD LUMSDEN FOUNDATION CLINICAL INVESTIGATOR

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

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Esen Sefik, PhD
Yale School of Medicine

Jiao Sima, PhD
University of California, Berkeley

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Lexy von Diezmann, PhD
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Jing Lin Xie, PhD
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Mark R. Sullivan, PhD
Harvard T.H. Chan School of Public Health

Shaogeng Steven Tang, PhD
Stanford University School of Medicine

Yunxiao Zhang, PhD
Scripps Research Institute

Xin Zhou, PhD
University of California, San Francisco

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Harvard Medical School

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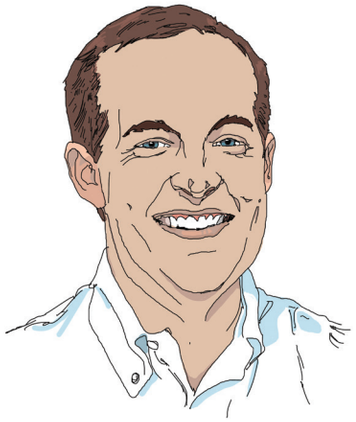

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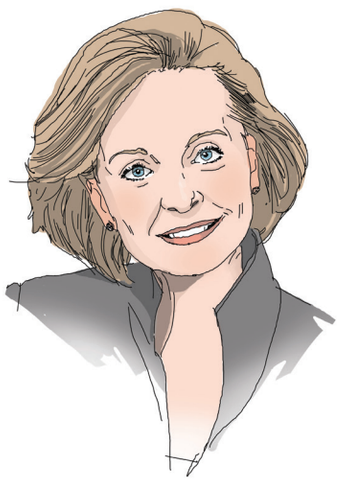

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Accelerating Cancer Cures is supported by leading biopharmaceutical companies that are committed to finding new cures for cancer. Thank you to Genentech, Merck, AbbVie, and Amgen for partnering with us to support the Damon Runyon Clinical Investigator Award.

In conjunction with this initiative, each year the Accelerating Cancer Cures Research Symposium brings together our Clinical Investigators with industry leaders to foster communication and collaboration helping speed progress against cancer.

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FINANCIAL SUMMARY FISCAL YEAR 2020

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 FY2020.

For our complete audited financial statements, please visit our website at **damonrunyon.org**

TOTAL OPERATING EXPENSES

- Award Programs **87.6%**
- Fundraising **9.1%**
- General Administration **3.3%**

TOTAL REVENUE

- Investment Return **28.6%**
- Contributions **63.2%**
- Misc. Income **2.8%**
- Bequests & Trusts **4.6%**
- Damon Runyon Broadway Tickets **0.8%**

SUMMARY OF BALANCE SHEETS

	2019	2020
Total Assets	**$150,535,887**	**$148,107,071**
Total Liabilities	**$35,517,843**	**$35,521,826**
Total Net Assets	**$115,018,044**	**$112,585,245**

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