

THE NEXT 75 YEARS: FUNDING BRAVE AND BOLD

## WHAT DOES THE FUTURE OF CANCER RESEARCH LOOK LIKE?

**ANNUAL REPORT 2022** 

Twenty years ago, phrases like "living drug" and "cancer vaccine" belonged in science fiction. Now, they belong in the pages of *Nature*.

Since the early 2000s, the study of the human immune system has undergone a Cambrian explosion, sparked by the availability of gene sequencing tools and computational power that make large-scale, highresolution datasets possible. In the fields of virology, immunology, and gut microbiome research, the observations of previous generations are coalescing and sharpening at an astonishing rate, ushering in a new wave of therapeutic strategies for cancer patients.

These breakthroughs do not belong to a far-off future. In our lifetimes, we may be able to use cutting-edge vaccine technology to train the immune system against currently intractable cancers, dissolve solid tumors with CAR T therapies, and optimize the gut microbiome to prevent cancer and improve treatment outcomes.

At the Damon Runyon Cancer Research Foundation, we support scientists at the forefront of these fields, just as we supported their mentors who blazed the trail twenty years ago and their predecessors before that.

We may not know exactly what the future will bring—but we fund those who will shape it.

he history of cancer research is intertwined with the history of virology. Ludwik Gross, MD, a Damon Runyon Grantee from 1951 to 1952, was the first scientist to demonstrate that viruses can cause cancer in laboratory mice.

### "You don't always know what the impact of something will be when you're doing it."

We now know that multiple viruses are linked to cancer, including Epstein Barr virus, discovered as a cause of lymphoma by George Klein, MD, PhD (Damon Runyon Fellow, 1974-76); human papillomavirus, first conclusively linked to head and neck cancers by Maura L. Gillison, MD, PhD (Damon Runyon Clinical Investigator, 2000-05); and Kaposi's sarcoma-related herpesvirus, investigated as a cancer driver by Mandy M. Muller, PhD (Damon Runyon Fellow, 2014-17).

The FDA approval, in 2020, of the HPV vaccine for the prevention of head and neck cancers marked a milestone in the twinned trajectories of virology and cancer research. "The brilliance of the HPV story is that HPV was identified as causing cervical cancer in the early 1980s, and by the early 2000s, there were already preventative vaccines entering clinical trials," Dr. Gillison said, adding, "You don't always know what the impact of something will be when you're doing it."

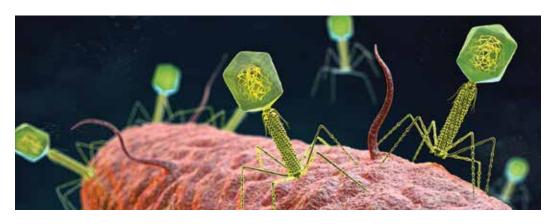
Indeed, thanks to this deep understanding of viral behavior, Damon Runyon scientists have now identified numerous ways to harness the immune system's anti-viral responses against cancer. Dmitriy Zamarin, MD, PhD (Damon Runyon Fellow, 2013-16), and Jedd D. Wolchok, MD, PhD (Damon Runyon Clinical Investigator, 2003-08), for example, are genetically engineering existing viruses to induce tumorfighting processes within the

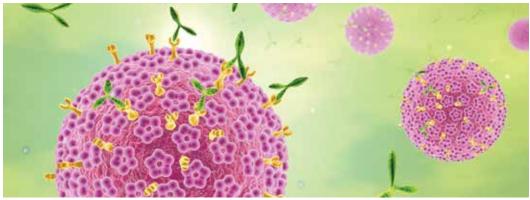
Right: Antibodies attacking HPV

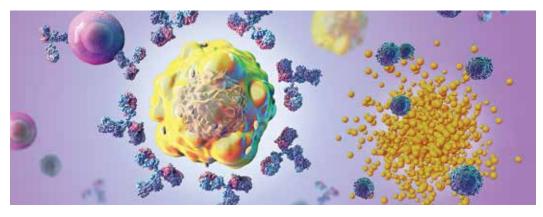
THE NEXT 75 YEARS: VIROLOGY

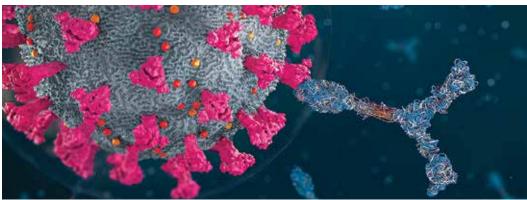
### "WE HAVE DISCOVERED A LONG LIST OF ANTIVIRAL DEFENSE SYSTEMS, FAR LARGER THAN **EXPECTED.**"

- Senén D. Mendoza, PhD Damon Runyon-HHMI Fellow









immune system. In 2018, the pair showed that injecting a modified version of Newcastle Disease Virus into a tumor triggers a powerful, widespread immune response that kills cancer cells not only in the tumor, but also outside the virus-infected region.

"Nowadays, you can do one thousand experiments at the speed that you used to be able to do one."

"I study one of the oldest and newest areas of oncology at the same time," Dr. Zamarin has said of his research. "I'm characterizing the immune response induced by these viruses, and also using some of the newer genetic engineering tools to develop novel therapeutics."

Meanwhile, current Damon Runyon Clinical Investigator Vinod P. Balachandran, MD, is working to design a vaccine for pancreatic cancer using the mRNA technology

that made Covid-19 vaccines possible. For years, his team has searched for the neoantigens—molecules on the surface of cancer cells and viruses that trigger an immune reaction—that are present in pancreatic cancer survivors, as these are the ones that have elicited a sufficient immune defense.

"We now have more evidence that the immune system recognizes neoantigens in pancreatic cancer and that we are on the right track in picking these neoantigens," Dr. Balachandran says. "This could be useful for personalized vaccines for pancreatic cancer, which urgently needs better treatments, and other cancers as well."

Having observed these novel classes of cancer therapy emerge from virus research of decades past, some of the newest Damon Runyon Awardees are using cutting-edge research methods to further our understanding of viruses and the immune system.

Damon Runyon Fellow Senén D. Mendoza, PhD, for example, is studying bacterial defenses against

From top to bottom:
Bacteriophage viruses infect a bacterium
Human papillomavirus attacked by antibodies
B-cell displaying antibodies recognizes a colorectal cancer cell
Antibody attacks a coronavirus pathogen

viruses, as many cellular defenses are now known to be shared between mammals and bacteria.

In the past decade, Dr. Mendoza explains, "there has been an explosion of interest in bacteria and how they interact with the viruses that infect them." But these studies have mainly focused on DNA-based viruses, and most human pathogenic viruses are based in RNA. By identifying the genes that help bacteria fight RNA-based viruses, Dr. Mendoza hopes to uncover counterparts in the human genome. "If we can discover a new part of the immune system that's able to counteract an oncogenic virus, that would be a very attractive candidate for a drug design."

As decades of collaboration between virologists and cancer researchers show, this kind of alliance is crucial for medical breakthroughs.

Likewise, Damon Runyon Quantitative Biology Fellow Tal Einav, PhD, has developed a mathematical model to predict how a known antibody will react to a new pathogen, such as a virus or cancer cell, based on existing data. This approach can be used to anticipate the body's immune response and identify how a patient's antibody repertoire might be bolstered to better combat an oncogenic virus or cancer.

"Nowadays, you can do one thousand experiments at the speed that you used to be able to do one," he says. "My goal is, for every one thousand, to extrapolate to a million or a billion different experiments. So everybody works together—not only to do experiments faster, but also to understand them better."

As decades of collaboration between virologists and cancer researchers show, this kind of alliance is crucial for medical breakthroughs. "No dataset should exist in isolation," Dr. Einav concludes. "By leveraging the experiments everyone before us has done, we not only expand our own datasets but expand everyone else's in return."

### **CONTRIBUTIONS BY**



Ludwik Gross, MD Institution Bronx V.A. Hospital Award Program Grantee Field of Study Retrovirology



George Klein, MD, PhD Institution Karolinska Institutet Award Program Fellow Field of Study Tumor biology



Maura L. Gillison, MD, PhD **Current Institution** The University of Texas MD Anderson Cancer Center Award Program Clinical Investigator

**Project Title** "Establishing a causal association between HPV and HNSCC"



Mandy M. Muller, PhD **Current Institution** University of California, Berkeley Award Program Fellow

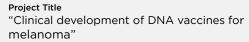
Dmitriy Zamarin, MD, PhD Current Institution Memorial Sloan Kettering Cancer Center Award Program

Fellow



Jedd D. Wolchok, MD, PhD Current Institution Weill Cornell Medicine Award Program Clinical Investigator

Project Title "Immunotherapeutic approach to cancer treatment integrating oncolytic virotherapy and immune checkpoint regulation"



**Current Institution** 

"Widespread RNA destruction and selective

preservation during viral infection"



Vinod P. Balachandran, MD **Current Institution** Memorial Sloan Kettering Cancer Center Award Program

Clinical Investigator "Recombinant interleukin-33 immunotherapy for pancreatic cancer"



Technology Award Program Fellow

Massachusetts Institute of

Senén D. Mendoza, PhD

"Discovery and characterization of bacterial immunity against RNA phages"

**Project Title** 



**Current Institution** Fred Hutchinson Cancer Research Center Award Program Quantitative Biology Fellow

Tal Einav, PhD

**Project Title** "Quantifying a polyclonal immune repertoire's ability to bind influenza"



Microscopic view of breast cancer cells

himeric antigen receptor (CAR) T cell therapy, in which a patient's own immune cells are genetically engineered to target and kill their tumor cells, has revolutionized the field of cancer immunotherapy.

Most excitingly, those first patients have been declared "cured" of leukemia after a decade in remission.

Since the first patients received CAR T cells in 2011, research efforts aimed at better understanding T cell function and developing novel CAR T therapies have skyrocketed. In the past five years, seven new CAR T therapies have received FDA approval, and many more are in the pipeline. Most excitingly, those first patients have been declared "cured" of leukemia after a decade in remission.

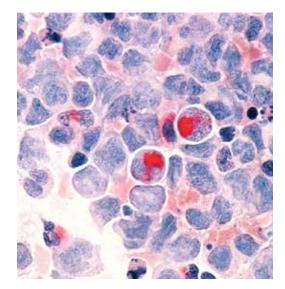
For Marcela V. Maus, MD, PhD (Damon Runyon-Rachleff Innovator, 2017-20),

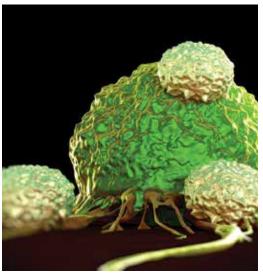
# TOFTEN NCHOF MEDICAL CS IS BORN." - Mark B. Leick, MD Damon Runyon-The Mark Foundation for Cancer Research Physician-Scientist

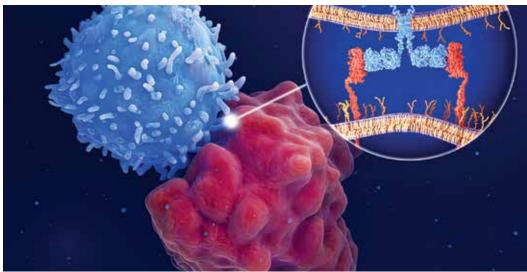
the rise of CAR T therapies has paralleled her own research trajectory. "When I was a [postdoctoral] fellow," she recalls, "CARs were starting to have these incredible responses and generate a lot of excitement in our field, which was very niche. A lot of empty rooms, very tiny groups of people. And then it all kind of exploded in 2011 and 2012."

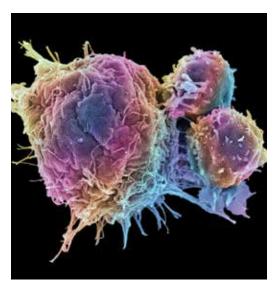
A trainee of CAR T pioneers such as Renier J. Brentjens, MD, PhD (Damon Runyon Clinical Investigator, 2006-11), Dr. Maus is now a leader of the "F1

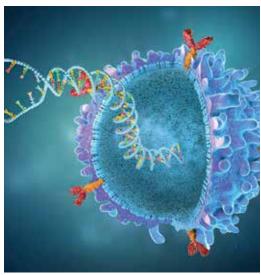
generation" working to design CAR T cells that can treat solid cancers as well as leukemias. In 2015, the Maus lab demonstrated for the first time that CAR T cells could safely cross the blood-brain barrier to reach brain tumors. When these T cells alone proved insufficient, her lab began engineering a new kind of CAR T cell, one that could target multiple cancer antigens and survive in the immunosuppressive environment of the tumor. This project, funded by Damon Runyon, remains ongoing—the team is now working to open











a clinical trial based on promising results published in 2019.

"I'm very optimistic that we're going to get a win in a solid tumor," Dr. Maus says. "There's such motivation, enthusiasm, rigor, and drive to get this figured out. And I think the T cell will cooperate with us. It will take some iteration, but we're going to crack that nut."

"It is a gift to be a part of the clinical and basic research Cambrian explosion of cellular therapeutics that have already begun to transform cancer therapy and medicine as a whole."

In addition to the challenge posed by solid tumors, however, other hurdles remain. Nearly two-thirds of patients receiving CAR T therapy for blood cancer eventually experience relapse, and up to 80% of patients experience serious side effects. Further, because of the cost and time frame for developing these custommade therapies, CAR T cells remain out of reach for many patients, even those who might otherwise be good candidates.

This is where the newest cohort of Damon Runyon scientists comes in. Many of our current awardees are carrying forward the work of their trailblazing mentors, working to develop next-generation CAR T therapies that are safer, less costly, and effective for more patients. Dr. Maus' own mentee. Damon Runyon Physician-Scientist Mark B. Leick, MD, stands at the forefront of these efforts. He is designing CAR T cells that target a gene overexpressed in leukemia cells but not in normal cells, making this therapy less toxic than previous versions.

From top to bottom:
Microscopic view of acute myeloid leukemia
T cells attacking a cancer cell
CAR T cell attacks a leukemia cell
T cells attacking a cancer cell
Genetically modified CAR T cell

"It is a gift to be a part of the clinical and basic research Cambrian explosion of cellular therapeutics that have already begun to transform cancer therapy and medicine as a whole," Dr. Leick says. "Advances in molecular biology, sequencing, and computational biology have allowed rapid turnaround of high-quality clinical trial data that are informing, in real time, the development of next generation CAR T cells on a timescale that would have been unimaginable 30 years ago."

Among those leveraging vast datasets to improve CAR T cell design is **Damon Runyon** 

### **Quantitative Biology Fellow Yapeng**

Su, PhD, who studies mechanisms of treatment resistance in pancreatic cancer. Big data could also reduce the cost of CAR T therapy, Dr. Su explains, by identifying the fraction of T cells doing the "heavy lifting"; producing just these T cells would require less time and fewer resources.

"We have so many technologies now... to give patients' T cells different superpowers."

From where he stands at the intersection of computational science and cell biology, Dr. Su is

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Marcela V. Maus, MD, PhD Current Institution Massachusetts General Hospital

Award Program Innovator

Project Title
"Next-generation CAR T cells for EGFRVIIIpositive glioblastoma"



Renier J. Brentjens, MD, PhD

Current Institution
Roswell Park Comprehensive
Cancer Center

Award Program Clinical Investigator

### Project Title "Adoptive therapy of B cell leukemias with genetically modified autologous T cells"

excited to see what the next 10 years bring. "We have so many technologies now—between CRISPR, protein engineering, synthetic biology, and data science—to give patients' T cells different superpowers. We're hopeful those superpowers will be enough to dissolve the hardest-to-treat tumors."

Dr. Maus notes the high degree of overlap between CAR T innovators and Damon Runyon Awardees. "Damon Runyon has been in it from the beginning, when it was very difficult to get traction on this kind of research," she recalls. "And that funding was transformative. There

are now seven FDA-approved CAR T cells, thousands of publications, and hundreds or even thousands of clinical trials listed. I don't think any of it would have happened without the steadfast commitment of the Foundation. I mean, the fact that you're funding Mark—it's almost like you're funding the F2, the next generation, right?"



Mark B. Leick, MD
Current Institution
Massachusetts General Hospital
Award Program
Physician-Scientist

Project Title
"Engineering novel CAR T cells for AML:
translating lessons from correlative studies and
other diseases"



Yapeng Su, PhD
Current Institution
Fred Hutchinson Cancer Research
Center

Award Program

Quantitative Biology Fellow

**Project Title** 

"Quantitative analysis to elucidate spatialtemporal heterogeneity of therapeutic T cell dysfunction mechanisms in the context of adoptive cell therapy against pancreatic cancer" THE NEXT 75 YEARS: THE GUT MICROBIOME

### "WE'RE HOPING TO ENGINEER GUT **MICROBES** AS AN ADDITIONAL WAY OF TREATING CANCER."

- Elizabeth R. Hughes, PhD Damon Runyon-Robert Black Fellow hile the study of the gut microbiome—the vast collection of bacteria and other microorganisms that live in the digestive tract—dates back to the 1800s, only recently have we gained the tools to explore our intestinal worlds on a cellular level. Advances in live cell microscopy and genetic sequencing since the early 2000s have revealed a complex interplay between gut bacteria and the rest of the body, including, most significantly for cancer research, the immune system.

Damon Runyon
Awardees have steadily
uncovered more links
between the gut
microbiome and cancer
treatment response.

Raphael H. Valdivia, PhD (Damon Runyon Fellow, 1998-2001), was instrumental in developing these new approaches to study the microbiome. Dr. Valdivia was the first to develop, optimize, and use fluorescent proteins to identify and track virulence factors, the molecules that bacterial pathogens use to colonize the host from within the cell. His innovative methods paved the way for further investigation of how bacteria interact with human cells in ways that are both helpful and harmful.

In the years since, Damon Runyon Awardees have steadily uncovered more links between the gut microbiome and cancer treatment response.

In her lab, Damon Runyon Clinical Investigator Melody Smith, MD, is investigating how "good" gut bacteria improve patients' response to CAR T therapy, a type of immunotherapy that involves genetically engineering immune

cells. Her team has found that antibiotic use prior to cancer treatment results in worse survival rates, while the presence of certain gut bacteria in patient stool samples is associated with better outcomes. These findings point to specific clinical interventions, such as adjusted antibiotic use or fecal transplants, that may improve the effectiveness of CAR T therapy and decrease its harmful side effects.

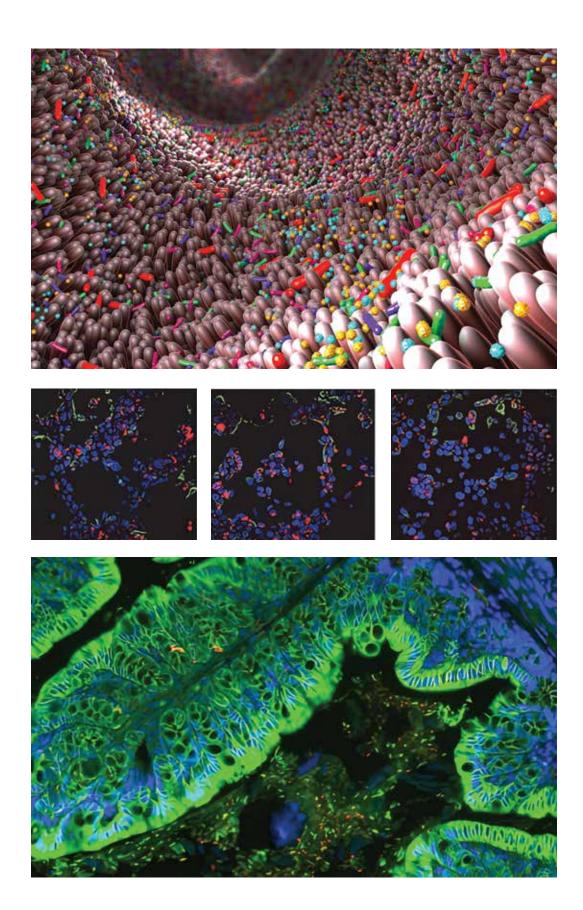
The idea that specific gut bacteria might enhance anti-tumor immunity suggests a new approach to treating colon cancer.

Likewise, Abigail E. Overacre-Delgoffe, PhD (Damon Runyon Fellow, 2019-22), and her lab are exploring therapeutic strategies to modify the gut microbiome of patients whose cancers do not respond to immunotherapy. Recently, her team found that infecting mice with the bacterium Helicobacter hepaticus, rather than sickening the mice, actually shrank their colon tumors and lengthened their lifespans. The idea that specific gut bacteria might enhance antitumor immunity suggests a new potential approach to treating therapy-resistant colon cancer.

Clinical interventions such as fecal transplants may increase the effectiveness of CAR T therapy.

Back in Dr. Valdivia's lab, Damon Runyon Fellow Elizabeth R. Hughes, PhD, is also studying how a specific gut bacterium, Akkermansia muciniphila, improves response to immunotherapies. The presence of this bacterium in patient samples has been shown to correlate with better treatment outcomes, but it is not yet clear why. Dr. Hughes aims to

From top to bottom:
Illustration of gut microbiome
Fluorescent images of infected cells and immunotherapy drugs
Akkermansia muciniphila



### **CONTRIBUTIONS BY**



Field of Study Microbiology



Fellow



Melody Smith, MD Current Institution Stanford University Award Program Physician-Scientist Clinical Investigator

Project Title
"Regulatory mechanisms of the intestinal
microbiome on chimeric antigen receptor T cells"



Abigail E. Overacre-Delgoffe, PhD

Current Institution
University of Pittsburgh

Award Program
Fellow

Project Title
"Microbiome control of the tumor
microenvironment: harnessing
immunosuppression and exhaustion"



Elizabeth R. Hughes, PhD
Current Institution
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Medicine
Award Program
Fellow

Project Title
"Mechanisms of microbial modulation of cancer immunotherapy"



Peter J. Turnbaugh, PhD
Current Institution
University of California, San
Francisco
Award Program
Innovator

Project Title
"The gut microbiome: an unexpected contributor to cancer drug resistance"

discover how *A. muciniphila* bolsters immune response and to design microbe-based therapeutics for use in combination with immunotherapy.

## "We have learned just how integral the gut microbiome is to cancer and response to immune-based therapies."

"These two fields have advanced in parallel," she explains. "The first immune checkpoint inhibitor was approved by the FDA about a decade ago, and while we knew gut microbes were important for nutrition, it's only in the past few decades that we've learned they're also important for immunity. So you can see how we've now arrived at the point where we're realizing that the gut microbiome has a big impact on cancer treatment."

Cancer treatment, it should be noted, also impacts the gut microbiome. As **Peter J. Turnbaugh**, **PhD** (Damon Runyon-Rachleff Innovator, 2016-20) recently showed, certain chemotherapy drugs inhibit the growth of intestinal bacteria, raising questions about the consequences of this disruption on both the drug's efficacy and gastrointestinal function.

But if the exponential progress of the past 20 years is any indication, the future of gut microbiome research is looking bright.

"We have learned just how integral the gut microbiome is to cancer and response to immune-based therapies," says Dr. Overacre-Delgoffe. "My hope is that we can dig deeper and understand how the gut microbiome and the immune system collaborate to fight cancer, and ultimately that we can welcome a new wave of therapies for cancer patients."

n 1946 when the Damon Runyon
Cancer Research Foundation was
established, the treatments that
would become the gold standard
of cancer care—chemotherapy,
radiation, precise surgical
interventions—were not yet a reality.

Damon Runyon's focused and strategic funding quickly transformed the options available to treat cancer, offering patients hope.

In the following years, continued funding yielded more discoveries, a better understanding of how cancer hijacks cellular processes, and more refined therapies and treatment approaches. Thanks to Damon Runyon scientists, cancer patients of the early 2000s had much better prognoses than the cancer patients of the 1970s, who in turn had far more options than the patients of the early 1940s.

Patients in the 2030s may benefit from cancer vaccines, gut microbes engineered to boost anti-tumor immunity, and new generations of the CAR T-cell therapies that have already revolutionized cancer care. Even a decade ago, any one of these might have sounded impossible. Now, we are knocking at the door.

Imagine the discoveries that will prove transformative for patients of the 2040s, 2050s, and beyond. We will not be satisfied until every cancer diagnosis is a survivable one.

Thank you for everything your support has made possible in these past 75 years, and everything it will make possible in the future.

### 100% OF YOUR DONATIONS GO DIRECTLY TO BRAVE AND BOLD CANCER RESEARCH.

Since its founding in 1946, in partnership with donors across the nation, the Damon Runyon Cancer Research Foundation has invested over \$430 million and funded nearly 3,950 scientists.

We currently support 187 researchers at 54 institutions.

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Founder and Managing Director Fusion Partners Global LLC NEW YORK, NEW YORK

### **Kathy Braddock**

Managing Director William Raveis New York City NEW YORK, NEW YORK

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President, Melissa Cohn Group Raveis Mortgage NEW YORK, NEW YORK

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President
TRATE Properties, LLC
NEW YORK, NEW YORK

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Head, Client Engagement Hirtle, Callaghan & Co. WEST CONSHOHOCKEN, PENNSYLVANIA

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Co-Chairman and Chief Executive Officer Amerimar Enterprises, Inc. President and Chief Executive Officer Netrality Data Centers NEW YORK, NEW YORK

### Joseph R. Osborne, MD, PhD

Chief, Molecular Imaging and Therapeutics Director, Molecular Imaging Innovations Institute for Inclusion Professor of Radiology New York-Presbyterian/ Weill Cornell Medicine

### Paul Purcell

Managing Director
William Raveis New York City
NEW YORK, NEW YORK

\*Indicates member is also a Board Member

### IN MEMORIAM



SIDNEY ALTMAN, PhD

Sidney Altman, PhD, a molecular biologist at Yale, shared the 1989 Nobel Prize in Chemistry with Thomas R. Cech, PhD, for their discovery that RNA molecules are able to catalyze chemical reactions within the cell. The purported existence of these protein-like "ribozymes" stirred much controversy in the scientific community at the time, as RNA molecules were then understood to be solely carriers of genetic information. For many years, Dr. Altman had difficulty getting invited to conferences or publishing his work. Eventually, supporting evidence emerged from other labs. Ribozymes are now a major research focus in the field of molecular biology.

Dr. Altman received a Damon Runyon Fellowship in 1967, which allowed him to pursue a research career at Harvard under the mentorship of noted geneticist Matthew Meselson, PhD. He went on to serve on the Foundation's Board of Directors from 1990 to 1996. An out-of-the-box thinker and a steadfast supporter of young scientists, Dr. Altman embodied the Damon Runyon mission all his life.

### AWARD PROGRAMS

In fiscal year 2022, we awarded nearly \$17.2 million in new grants to 58 exceptional scientists, and provided an additional \$1.6 million in stipend increases, extension funding for pandemic-related research delays, and other support.

### **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: \$260,000

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-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

### FELLOWSHIP AWARD COMMITTEE

### **CHAIR**

### Richard M. White, MD, PhD

Professor of Medicine Nuffield Department of Medicine Ludwig Cancer Research University of Oxford OXFORD, UNITED KINGDOM

### **VICE CHAIR**

### Kathryn A. O'Donnell, PhD

Associate Professor Department of Molecular Biology University of Texas Southwestern Medical Center DALLAS, TEXAS

### **OUTGOING CHAIR**

### E. Jane Albert Hubbard, PhD

Professor, Cell Biology and Pathology Skirball Institute of Biomolecular Medicine New York University Grossman School of Medicine NEW YORK, NEW YORK

### David Bilder, PhD

Professor of Cell Biology, Development and Physiology Department of Molecular and Cell Biology University of California, Berkeley BERKELEY, CALIFORNIA

### Martin D. Burke, MD, PhD

May and Ving Lee Professor for Chemical Innovation Professor, Chemistry University of Illinois at Urbana-Champaign Professor of Biomedical and Translational Sciences Carle Illinois College of Medicine URBANA. ILLINOIS

### Xinwei Cao, PhD

Associate Member
Developmental Neurobiology
Comprehensive Cancer Center
St. Jude Children's
Research Hospital
MEMPHIS, TENNESSEE

### Jayanta Chaudhuri, PhD

Professor, Immunology Program Memorial Sloan Kettering Cancer Center NEW YORK, NEW YORK

### Jason M. Crawford, PhD

Maxine F. Singer '57 PhD Associate Professor
Departments of Chemistry and Microbial Pathogenesis Director and Member of the Institute of Biomolecular Design and Discovery Yale University
WEST HAVEN, CONNECTICUT

### Gianna E. Hammer, PhD

Associate Professor Department of Pathology University of Utah Health School of Medicine SALT LAKE CITY, UTAH

### Howard C. Hang, PhD

Professor, Immunology and Microbiology and Chemistry Scripps Research LA JOLLA, CALIFORNIA

### Jay Hesselberth, PhD

Associate Professor, Biochemistry and Molecular Genetics University of Colorado School of Medicine AURORA, COLORADO

### Jonathan C. Kagan, PhD

Marian R. Neutra, PhD Professor of Pediatrics Harvard Medical School Director of Basic Research and Shwachman Chair in Gastroenterology Boston Children's Hospital BOSTON, MASSACHUSETTS

### Katrin Karbstein, PhD

Howard Hughes Medical Institute Faculty Scholar Professor, Department of Integrative Structural and Computational Biology Scripps Research JUPITER, FLORIDA

### Martin McMahon, PhD

Cumming-Presidential Chair of Cancer Biology
Professor, Department of Dermatology
Senior Director for Preclinical Translation
Huntsman Cancer Institute
University of Utah Health
School of Medicine
SALT LAKE CITY, UTAH

### Alfonso Mondragón, PhD

Ethel and John Lindgren Professor Director of the Structural Biology Facility Department of Molecular Biosciences Northwestern University EVANSTON, ILLINOIS

### Akinyemi I. Ojesina, MD, PhD

Assistant Professor, Obstetrics and Gynecology Medical College of Wisconsin MILWAUKEE, WISCONSIN

### Emmanuelle Passegué, PhD

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

### Rajat Rohatgi, MD, PhD

Associate Professor of Biochemistry and Medicine (Oncology) Stanford University School of Medicine STANFORD, CALIFORNIA

### Carla Rothlin, PhD

Howard Hughes Medical Institute Faculty Scholar Dorys McConnell Duberg Professor of Immunobiology and Professor of Pharmacology Yale Cancer Center Yale School of Medicine NEW HAVEN, CONNECTICUT

### DAMON RUNYON FELLOWSHIP AWARD COMMITTEE CONTINUED

### Jared Rutter, PhD

Howard Hughes Medical Institute Investigator Dee Glen and Ida Smith Endowed Chair for Cancer Research Distinguished Professor of Biochemistry University of Utah Health School of Medicine SALT LAKE CITY, UTAH

### Susan R. Schwab, PhD

Associate Professor, Pathology Skirball Institute of Biomolecular Medicine New York University Grossman School of Medicine NEW YORK, NEW YORK

### Agnel Sfeir, PhD

Member, Molecular Biology Program Sloan Kettering Institute Memorial Sloan Kettering Cancer Center NEW YORK, NEW YORK

### David R. Sherwood, PhD

Jerry G. and Patricia Crawford Professor and Professor of Biology Co-Director Regeneration Next Initiative Department of Biology Duke University DURHAM, NORTH CAROLINA

### Nancy A. Speck, PhD

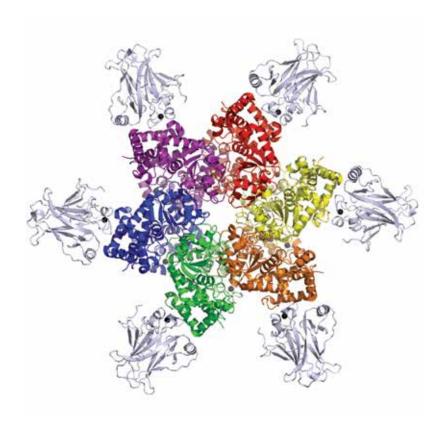
Investigator, Abramson Family
Cancer Research Institute
Member, Abramson Cancer Center
Member, Institute for
Regenerative Medicine
Co-Leader, Hematologic
Malignancies Program,
Abramson Cancer Center
Professor and Chair, Cell and
Developmental Biology
University of Pennsylvania
Perelman School of Medicine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



Protein structure, Viral LTag.

### DAMON RUNYON

### **FELLOWSHIP AWARD**

### **CALIFORNIA**

### California Institute of Technology

### Zibo Chen, PhD

Combinatorial signal classification with a protein-based synthetic neural network with Michael B. Elowitz, PhD

### Bo Gu, PhD

### Fraternal Order of Eagles Fellow

Understanding and engineering combinatorial gene regulation in mammalian cells with Michael B. Elowitz, PhD

### Georgia R. Squyres, PhD National Mah Jongg League Fellow

Spatiotemporal regulation of eDNA release in Pseudomonas aeruginosa biofilms with Dianne K. Newman, 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

### Wen Mai Wong, PhD\* Kenneth G. and Elaine A. Langone Fellow

Modulation of neuronal circuitry using sonogenetics with Sreekanth H. Chalasani, PhD

### Stanford University

### Debadrita Bhattacharya, PhD\* **Robert Black Fellow**

Investigating molecular and cellular mechanisms of intra-tumoral heterogeneity in small-cell lung cancer with Julien Sage, PhD

### Felix C. Boos, PhD\*

Inter-organ communication of protein homeostasis stress responses in vertebrate aging with Anne Brunet, PhD

### Yiming Chen, PhD

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

### Lauren E. Cote, PhD

Constructing one continuous digestive tract, cell by cell with Jessica L. Feldman, 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

### Seungsoo Kim, PhD

### **HHMI Fellow**

Transcription factor cooperation shaping TWIST1 multifunctionality across craniofacial development and cancer metastasis with Joanna K. Wysocka, PhD

### Ali Lashkaripour, PhD\*

High-throughput biomimetic screening of T cell activation in large sequence landscapes with Polly M. Fordyce, PhD

### Conor J. McClune, PhD **HHMI Fellow**

Resolving plant biosynthesis of therapeutic compounds by systematic perturbation, measurement, and metabolic phenotyping at single-cell scale with Elizabeth S. Sattely, PhD, and Polly M. Fordyce, PhD

### Colleen N. McLaughlin, PhD HHMI Fellow

Cell surface mechanisms of neural circuit assembly with Liqun Luo, PhD

### Xiaowei Yan, PhD\*

### Connie and Bob Lurie Fellow

Spatial organization and inheritance regulation of oncogenic extrachromosomal DNA (ecDNA) with Howard Y. Chang, MD, PhD

### Scripps Research

### 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

Sensory innervation of the pancreas with Ardem Patapoutian, PhD

### University of California, Berkeley

### Steven W. M. Crossley, PhD AGBT-Elaine R. Mardis Fellow

Mapping targets for cancer therapeutics via methionineselective warheads with Christopher J. Chang, PhD, and Daniel K. Nomura, PhD

### Timothy J. Eisen, PhD

### **David Ryland Fellow**

Mechanistic dissection of Tec kinases in immune-cell signaling with John Kuriyan, PhD

### DAMON RUNYON FELLOWSHIP AWARD CONTINUED

### 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

### Akanksha Thawani, PhD

### **Merck Fellow**

Targeted genetic supplementation by harnessing transposable elements with Eva Nogales, PhD, and Kathleen Collins, PhD

### University of California, Los Angeles

### Yajing Gao, PhD The Mark Foundation for

The Mark Foundation for Cancer Research Fellow

Characterize the role of nonvesicular cholesterol transport in CD8+ T cell function with Peter Tontonoz, MD, PhD

### University of California, San Diego

### Digvijay Singh, PhD

Cryo-electron tomography of phase-separated compartments and nuclear pore complexes involved in gene regulation with Elizabeth Villa, PhD

### University of California, San Francisco

### Keelan Z. Guiley, PhD HHMI Fellow

Chemical probing of mutant p53 with Kevan M. Shokat, PhD

### Benjamin G. H. Guthrie, PhD

Connie and Bob Lurie Fellow Fluoropyrimidine bioactivation and metabolism by the gut microbiome with Peter J. Turnbaugh, PhD

### Fangyu Liu, PhD

Discovery of novel ligands that treat metabolic disorders with Brian K. Shoichet. PhD

### Tadashi Manabe, MD, PhD\* Connie and Bob Lurie Fellow

Characterization of oncogenic kinase signaling by membraneless cytoplasmic protein granules with Trever G. Bivona, MD, PhD

### Tristan Wold Owens, PhD

**Suzanne and Bob Wright Fellow** Molecular mechanisms of heat shock transcription factor 1 in cancer with David A. 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

### Erron W. Titus, MD, PhD\*§

Connie and Bob Lurie Fellow Engineered cellular fusogens for novel immune effector functions with Matthew F. Krummel, PhD

### Kouki Touhara, PhD

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

### Qinheng Zheng, PhD

### Connie and Bob Lurie Fellow

Drugging K-Ras(G12D) with targeted covalent inhibitors with Kevan M. Shokat, PhD

### **COLORADO**

### University of Colorado Boulder

### Edward M. C. Courvan, PhD\* HHMI Fellow

Functional analysis of posttranscriptional RNA regulation in hypoxic macrophages with Roy R. Parker, PhD

### Dylan M. Parker, PhD\*

### **HHMI Fellow**

Stress granule regulators and their roles in cancer progression with Roy R. Parker, PhD

### CONNECTICUT

### Yale University

### Elizabeth J. Culp, PhD The Mark Foundation for

### The Mark Foundation for Cancer Research Fellow

Mechanisms and consequences of microbial transformation of dietary xenobiotics in cancer risk with Andrew L. Goodman, PhD

### Jung-Shen Tai, PhD

From form to function: Cell shape, cell ordering, and gene regulation in bacterial biofilm with Jing Yan, PhD (Yale University), and Christopher Waters, PhD (Michigan State University)

### **MARYLAND**

The Johns Hopkins University School of Medicine

### Marco A. Catipovic, PhD HHMI Fellow

The role of ribosome biogenesis in recycling damaged ribosomes with Rachel Green, PhD

### Cayla E. Jewett, PhD\* Merck Fellow

Mechanisms of centriole number control in multiciliated cells with Andrew J. Holland, 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

### Ge Zheng, PhD

Novel approaches to targeting zinc-finger domain of the transcription repressor BCL11A with Stuart H. Orkin, MD

### **Boston University**

### Heidi E. Klumpe, PhD\* Merck Fellow

The design principles of stable aggregation with Ahmad S. Khalil, PhD, and Mary Dunlop, PhD

### Brigham and Women's Hospital

### Kunitoshi Chiba, PhD

Elucidating tissue specificity of cancer with Stephen J. Elledge, PhD

### Ge Zhu, PhD\* HHMI Fellow

Charting the tumor antigen landscape of breast cancer with Stephen J. Elledge, PhD

### **Broad Institute**

### Veronika Shoba, PhD

Phosphorlyation-inducing chimeric small molecules with Amit Choudhary, PhD, and Stuart L. Schreiber, PhD

### Dana-Farber Cancer Institute

### Parker L. Sulkowski, PhD HHMI Fellow

Investigation of histone secretion in cancer with William G. Kaelin, Jr., MD

### David M. Walter, PhD

Identifying the selective mechanism behind U2AF1 mutations in lung adenocarcinoma with Matthew L. Meyerson, MD, PhD

### Jingyi Wu, PhD

Epigenetic clonal evolution in gliomas with Bradley E. Bernstein, MD, PhD

### Harvard Medical School

### Erin E. Duffy, PhD

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

### Yuan Gao, PhD

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 D. Liberles, PhD

### Hannah A. Grunwald, PhD Lallage Feazel Wall Fellow

Unraveling the role of molecular capacitors that obscure cryptic genetic variants in fish with Clifford J. Tabin. PhD

### Xin Gu, PhD\*

Characterization of a novel pathway regulating the protein degradation of immediate-early genes with Michael E. Greenberg, PhD

### Manuel Osorio Valeriano, PhD\* Philip O'Bryan Montgomery, Jr., MD, Fellow

Molecular and structural basis of gene expression regulation by the nucleosome remodeling and deacetylase (NuRD) complex in human cancer with Lucas Farnung, PhD, and Danesh Moazed, PhD

### Jonathan G. Van Vranken, PhD The Mark Foundation for

### Cancer Research Fellow

Systematic identification of metabolite-protein interactions in human cells with Steven P. Gygi, PhD

### Harvard T.H. Chan School of Public Health

### Madi Y. Cissé, PhD Merck Fellow

Integration on oncogenic signaling and nutrient sensing by mTOR in tumors with Brendan D. Manning, PhD

### Mark R. Sullivan, PhD Merck Fellow

Identifying requirements for lung infection by opportunistic pathogens with Eric J. Rubin, MD, PhD

### DAMON RUNYON FELLOWSHIP AWARD CONTINUED

"It's significant that Damon Runyon funds research outside of the normal therapeutic and molecular ways that people look at cancer. Because cancer is so much more than the tumor—it affects every organ system, everything you do on a daily basis."

REBECCA S. MOORE, PhD
DAMON RUNYON-HHMI FELLOW
UNIVERSITY OF PENNSYLVANIA

### Harvard University

### Rongxin Fang, PhD HHMI Fellow

Genome-scale imaging of enhancer-promoter interactions in cancer at single cell resolution with Xiaowei Zhuang, PhD

### Grace E. Kenney, PhD Merck Fellow

New enzymatic routes towards nitrogen-nitrogen bond formation in diverse cytotoxic natural products with Emily P. Balskus, PhD

### Thomas R. LaBar, PhD

Candy and William Raveis Fellow Elucidating the mechanisms of cellular evolution with experimental evolution with Andrew W. Murray, PhD

### Massachusetts General Hospital

### Charles H. Adelmann, PhD\*

Systematic exploration of the organellar and cellular requirements of pigmentation with David E. Fisher, MD, PhD

### Stefan Niekamp, PhD

### Dennis and Marsha Dammerman Fellow

Understanding the switch: Competition between chromatin remodeler and polycomb repressive complexes with Robert E. Kingston, PhD

### Massachusetts Institute of Technology

### Fangtao Chi, PhD\*

Understanding how ketone body metabolites influence intestinal stemness, immune responses and tumorigenesis with Ömer H. Yilmaz, MD, PhD

### J. Scott P. McCain, PhD\*

Circadian clocks in nonphotosynthetic bacteria: mechanisms and impacts with Gene-Wei Li, PhD

### Jon McGinn, PhD

Dissecting the genetic networks underlying host subversion during *rickettsia* infection with Rebecca Lamason, PhD

### Senén D. Mendoza, PhD\* HHMI Fellow

Discovery and characterization of bacterial immunity against RNA phages with Michael T. Laub, PhD

### Sharanya Sivanand, PhD

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

### Patrick J. Woida, PhD\*

Functional dissection of the bacterial-host interface during cell-to-cell spread with Rebecca Lamason, PhD

Whitehead Institute for Biomedical Research

### Henry R. Kilgore, PhD\*

Subcellular pharmacokinetics with Richard A. Young, PhD

### Jingchuan Luo, PhD HHMI Fellow

Deciphering roles of nuclearmitochondrial 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 lain M. Cheeseman, PhD

### Ngoc-Han Tran, PhD\*

Endoplasmic reticulum dynamics and inheritance in germ cells specification with Ruth Lehmann, PhD

### **MINNESOTA**

### University of Minnesota

### Nicholas N. Jarjour, PhD

Antigen-independent pro-liferation of tissue-resident memory T cells and therapeutic applications with Stephen C. Jameson, PhD

### **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

### Courtney Ellison, PhD

The role of type IV pili in Pseudomonas aeruginosa biofilm formation with Joshua W. Shaevitz, PhD, and Zemer Gitai, PhD

### Nir Hananya, PhD

### Robert Black Fellow

The roles of histone ADPribosylation in DNA damage response with Tom W. Muir, PhD

### Grace E. Johnson, PhD\*

### **HHMI Fellow**

Defining quorum-sensing signaling patterns and their effects on gene expression and morphology in *V. cholerae* biofilms at the single-cell and community levels with Bonnie L. Bassler, PhD

### Aaron E. Lin, PhD

### Walter Isaacson Fellow

Contact tracing within an organism: developing a genome editing platform to record the history of virus-infected and transformed cells with Alexander Ploss, PhD, and Brittany Adamson, PhD

### Titas Sengupta, PhD\*

### Rebecca Ridley Kry Fellow

Investigating bacterial small RNA-mediated regulation of host behavior with Coleen T. Murphy, PhD

### **NEW YORK**

### Memorial Sloan Kettering Cancer Center

### Rico C. Ardy, PhD\* Robert Black Fellow

Thomas Norman, PhD

An atlas of fibroblast cell states in health and disease through functional genomics with

### Kaixian Liu, PhD

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

### José Reyes, PhD

### HHMI Fellow

Dynamics and impact of genetic and non-genetic diversification driven by loss of p53 with Scott W. Lowe, PhD, and Dana Pe'er, PhD

### Zeda Zhang, PhD\*

Decode the senescent cell surface in vivo and develop cell therapies for senescence-related diseases with Scott W. Lowe, PhD

### **New York University**

### Sophia C. Tintori, PhD

Mechanisms of radiation tolerance in *Caenorhabditis* from Chernobyl with Matthew V. Rockman, PhD

### New York University Grossman School of Medicine

### Nicholas M. Adams, PhD Marion Abbe Fellow

Elucidating how pDC genome organization regulates IFN production in cancer with Boris Reizis. PhD

### The Rockefeller University

### Alain R. Bonny, PhD

### Kenneth C. Frazier Fellow

The spatiotemporal coordination between inflammation and tissue repair with Elaine V. Fuchs, 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

### Catherine A. Freije, PhD Berger Foundation Fellow

Investigating the role of fitness and host pressure in shaping hepatitis B diversity with Charles M. Rice, PhD

### Anita Gola, PhD

### National Mah Jongg League Fellow

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

### Juhee Pae, PhD

### Berger Foundation Fellow

Mechanisms of germinal center B Cell proliferation with Gabriel D. Victora, PhD

### DAMON RUNYON FELLOWSHIP AWARD CONTINUED

### Gokhan Unlu, PhD

Targeting cancer nutrient limitations using dietary interventions with Kivanç Birsoy, PhD

### John C. Zinder, PhD

Lorraine W. Egan Fellow

Structure and biochemistry of human shelterin and associated factors with Titia de Lange, PhD

### **NORTH CAROLINA**

### **Duke University**

### Elizabeth R. Hughes, PhD\* **Robert Black Fellow**

Mechanisms of microbial modulation of cancer immunotherapy with Raphael H. Valdivia, PhD

### **PENNSYLVANIA**

### University of Pennsylvania

### Rebecca S. Moore, PhD\* **HHMI Fellow**

Investigation of the role of peripheral secreted molecules on sleep and circadian rhythms with Amita Sehgal, PhD

### Catherine Triandafillou, PhD\*

Intrinsic and extrinsic drivers of heterogeneous drug resistance in cancer with Arjun Raj, 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 J. Finn, PhD

### **TEXAS**

### University of Texas Southwestern Medical Center

### Gabriel Muhire Gihana, PhD

The Mark Foundation for **Cancer Research Fellow** Cell morphological modulation of oncogenic Ras signaling with Gaudenz Danuser, PhD

### UTAH

### University of Utah

### 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 M. Jorgensen, PhD

### WASHINGTON

### Fred Hutchinson Cancer Research Center

### Ching-Ho Chang, PhD

Genetic conflicts shape protamine evolution with Harmit S. Malik, PhD

### Edie I. Crosse. PhD

Illini 4000 Fellow

Determining the role of stem cell heterogeneity in clonal evolution of hematologic malignancy with Lev Silberstein, MD, PhD, and Irwin D. Bernstein, MD

### Siai Li. PhD\*

### The Mark Foundation for **Cancer Research Fellow**

Deciphering clonal competition between oncogenic mutant and normal cells and its effect on cancer initiation with Slobodan Beronja, PhD

### University of Washington

### Junhong Choi, PhD **HHMI Fellow**

Uncovering cellular development in cancer through precise genome editing with Jay A. Shendure, MD, PhD

### Jean-Benoît Lalanne, PhD

At-scale dissection of developmental enhancers with single-cell reporters with Jay A. Shendure, MD, PhD

### CANADA

### McGill University

### Janice M. Reimer, PhD Merck Fellow

Regulation of dynein by Lis1 with Andres E. Leschziner, PhD, and Martin Schmeing, PhD

### 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

#### **DAMON RUNYON-SOHN**

# PEDIATRIC CANCER FELLOWSHIP AWARD

As of 2021, Damon Runyon no longer offers new awards through the Damon Runyon-Sohn Pediatric Cancer Fellowship Award program. We remain committed to funding pediatric cancer research through our other award programs.

#### **CALIFORNIA**

#### Zulekha A. Qadeer, PhD

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

#### Peng Wu, MD, PhD

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

#### **TENNESSEE**

#### Katherine E. Gadek, PhD

Defining endothelial progenitor cell pliancy in rhabdomyosarcoma with Mark E. Hatley, MD, PhD, and Stacey K. 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 A. Reh, PhD, University of Washington, Seattle

"It's a tremendous privilege to be a physician-scientist. It gives me an opportunity to bring my patients' problems and challenges to the lab and spend the necessary time and resources to try to address their suffering."

ANAND G. PATEL, MD, PhD

DAMON RUNYON-SOHN FELLOW

ST. JUDE CHILDREN'S RESEARCH HOSPITAL

"I think young scientists are really in the most creative stage of our careers—our ideas are really bold, but these are the ideas that can potentially solve some of the questions that people have been thinking about for decades."

YAPENG SU, PhD
QUANTITATIVE BIOLOGY FELLOW
FRED HUTCHINSON CANCER RESEARCH CENTER

#### **DAMON RUNYON**

# QUANTITATIVE BIOLOGY FELLOWSHIP AWARD COMMITTEE

#### **CHAIR**

#### Todd R. Golub, MD

Director and Founding Core Institute Member Broad Institute of MIT and Harvard Charles A. Dana Investigator in Human Cancer Genetics Dana-Farber Cancer Institute Professor of Pediatrics Harvard Medical School CAMBRIDGE, MASSACHUSETTS

#### Andrea Califano, PhD

Clyde and Helen Wu Professor of Chemical and Systems Biology Chair, Department of Systems Biology Director, JP Sulzberger Columbia Genome Center Herbert Irving Comprehensive Cancer Center Columbia University NEW YORK, NEW YORK

#### Gaudenz Danuser, PhD

Patrick E. Haggerty
Distinguished Chair in
Basic Biomedical Science
Lyda Hill Department of
Bioinformatics and
Department of Cell Biology
University of Texas
Southwestern Medical Center
DALLAS, TEXAS

#### Anshul Kundaje, PhD

Assistant Professor, Genetics and Computer Science Stanford University STANFORD, CALIFORNIA

#### Dana Pe'er, PhD

Howard Hughes Medical Institute
Investigator
Chair, Computational and Systems
Biology Program
Scientific Director, Alan and Sandra
Gerry Metastasis and Tumor
Ecosystems Center
Sloan Kettering Institute
Memorial Sloan Kettering
Cancer Center
NEW YORK, NEW YORK

#### Aviv Regev, PhD

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

#### Cole Trapnell, PhD

Assistant Professor Department of Genome Sciences University of Washington SEATTLE, WASHINGTON

#### Caroline Uhler, PhD

Professor
Department of Electrical
Engineering and Computer Science
Institute for Data, Systems,
and Society
Massachusetts Institute of
Technology
Core Institute Member
Co-Director, Eric and Wendy
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Broad Institute of MIT and Harvard
CAMBRIDGE, MASSACHUSETTS

#### Eliezer M. Van Allen, MD

Associate Professor of Medicine Harvard Medical School Chief, Division of Population Sciences Dana-Farber Cancer Institute Associate Member Broad Institute of MIT and Harvard BOSTON, MASSACHUSETTS

# QUANTITATIVE BIOLOGY FELLOWSHIP AWARD

#### CALIFORNIA

#### Haripriya Vaidehi Narayanan, PhD

Developing a mechanistic multiscale framework relating signaling and spatiotemporal dynamics in B-cell affinity maturation and lymphomagenesis with Alexander Hoffmann, PhD, and Roy Wollman, PhD, University of California, Los Angeles

#### 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**

#### Collin Tokheim, PhD

Computationally identifying oncogenic substrates of the ubiquitin-proteasome system in human cancers with Rafael A. Irizarry, 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 JERSEY**

#### Cong Ma, PhD\*

Modeling spatial organization and interactions among genetic and epigenetic states across cancer types with Benjamin Raphael, PhD, Princeton University, Princeton, and Li Ding, PhD, Washington University, St. Louis

#### **NEW YORK**

#### Tin Yi Chu, PhD

William Raveis Charitable Fund Quantitative Biology Fellow Statistical modeling of cell-cell interactions in normal intestine, inflammatory bowel disease and colorectal cancer using single cell and spatial transcriptomics with Dana Pe'er, PhD, and Elaine V. Fuchs, PhD, Memorial Sloan Kettering Cancer Center, 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

#### Sukrit Singh, PhD\*

Physics-driven prediction of drug-resistant clinical mutations to improve precision oncology with John D. Chodera, PhD, Memorial Sloan Kettering Cancer Center, and Markus A. Seeliger, PhD, Stony Brook University, New York

#### Esther Wershof, PhD

#### William Raveis Charitable Fund Quantitative Biology Fellow

Three-dimensional spatiotemporal organization of the gut tube in early organogenesis with Dana Pe'er, PhD, and Anna-Katerina Hadjantonakis, PhD, Memorial Sloan Kettering Cancer Center, New York

#### **OREGON**

#### Jeremy Copperman, PhD

Whole-cell modeling for the prediction and control of microenvironmentally regulated proliferative and migratory variability with Daniel M. Zuckerman, PhD, and Laura M. Heiser, 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

#### Yapeng Su, PhD\*

Quantitative analysis to elucidate spatial-temporal heterogeneity of therapeutic T cell dysfunction mechanisms in the context of adoptive cell therapy against pancreatic cancer with Philip D. Greenberg, MD, and Raphael Gottardo, PhD, Fred Hutchinson Cancer Research Center, Seattle

\*Initial Year

# DALE F. FREY AWARD FOR BREAKTHROUGH SCIENTISTS

#### Robert S. Banh, PhD\*

Codon- and nutrient-specific regulation of mRNA translation in pancreatic cancer at New York University Grossman School of Medicine, New York

#### Allison L. Didychuk, PhD\*

The Rhee Family Breakthrough Scientist Understanding the mechanism of genome packaging in oncogenic herpesviruses at Yale University, New Haven

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

Fundamental mechanisms that underlie human translation initiation and its dysregulation in cancer at Stanford University School of Medicine, Stanford

#### Dian Yang, PhD\*

Molecular recording of tumor evolution in response to macrophage modulations at Whitehead Institute for Biomedical Research, Boston

#### Xiaoyu Zhang, PhD\*

Discovery of chemical probes that support targeted protein degradation in human cancer at Northwestern University, Evanston

#### Xin Zhou, PhD\*

Designing signaling proteins to enact anti-tumor responses at Dana-Farber Cancer Institute and Harvard Medical School, Boston

\*Initial Year

"Being named a Dale Frey Breakthrough Scientist is a huge honor. This award, and the recognition it brings, will allow me to take risks in the first few years [of my lab] that I otherwise wouldn't have—including expanding into new approaches for me, like single molecule biophysics and functional genomics."

ALLISON L. DIDYCHUK, PhD
THE RHEE FAMILY BREAKTHROUGH SCIENTIST
YALE UNIVERSITY

# PHYSICIAN-SCIENTIST TRAINING AWARD COMMITTEE

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Department of Medical Oncology
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#### Cassian Yee, MD

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

# PHYSICIAN-SCIENTIST TRAINING AWARD

#### **CALIFORNIA**

#### Caitlin F. Bell, MD

Smooth muscle cell plasticity in the tumor microenvironment: another parallel between atherosclerosis and cancer with Nicholas J. Leeper, MD, and Irving L. Weissman, MD, 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

#### Wallace A. Bourgeois, MD\*

Targeting JMJD1C and IKZF1 as therapeutic opportunities in KMT2A-rearranged leukemia with Scott A. Armstrong, MD, PhD, Dana-Farber Cancer Institute, Boston

#### Albert E. Kim, MD William G. Kaelin, Jr., MD,

Physician-Scientist
Using liquid biopsy and MRI to
non-invasively identify therapeutic
targets for brain metastases

with Priscilla K. Brastianos, MD, and Elizabeth R. Gerstner, MD, Massachusetts General Hospital, Roston

#### (Peter) Geon Kim, MD

Elucidating the mechanisms of inflammation in clonal hematopoiesis with Benjamin L. Ebert, MD, PhD, Dana-Farber Cancer Institute, Boston

#### Mark B. Leick, MD\*

The Mark Foundation for Cancer Research Physician-Scientist Engineering novel CAR T cells for AML: translating lessons from correlative studies and other

correlative studies and other diseases with Marcela V. Maus, MD, PhD, Massachusetts General Hospital, 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

#### Mira A. Patel, MD\*

Molecular mechanisms of human APOE-mediated myeloid cell modulation in cancer with Sohail F. Tavazoie, MD, PhD, The Rockefeller University, 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 Grossman School of Medicine, New York

#### ОНЮ

#### 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

#### **PENNSYLVANIA**

#### Dennis J. Hsu, MD

Metabolic determinants of codon usage bias in colorectal cancer with Jeremy N. Rich, MD, and Lin Zhang, PhD, University of Pittsburgh, Pittsburgh

#### Max M. Wattenberg, MD

Epigenetic reprogramming of dendritic cells for cancer immunotherapy with Gregory L. Beatty, MD, PhD, and Robert H. Vonderheide, MD, PhD, University of Pennsylvania, Philadelphia

#### TEXAS

## 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 John V. Heymach, MD,
PhD, University of Texas
MD Anderson Cancer Center,
Houston

\*Initial Year

# CLINICAL INVESTIGATOR AWARD COMMITTEE

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Chairman, Department of
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Dana-Farber Cancer Institute
Associate Chief, Division of
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David G. Nathan Professor
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Director of Lung, Head and Neck,
and Clinical Immunotherapy
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Associate Director of
Clinical Research
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Department of Pathology
and Immunology
Division of Oncology
Washington University
School of Medicine
ST. LOUIS, MISSOURI

#### Mignon L. Loh, MD

Chief, Division of Pediatric
Hematology, Oncology,
Bone Marrow Transplant, and
Cellular Therapies
Seattle Children's Hospital
Director, Ben Towne Center for
Childhood Cancer Research
Seattle Children's Research Institute
Professor of Pediatrics
University of Washington
Head, Pediatric Oncology Section
Fred Hutchinson Cancer
Research Center
SEATTLE, WASHINGTON

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Director, Tisch Cancer Institute
Ward-Coleman Chair in
Cancer Research
Director, Mount Sinai Cancer
and Mount Sinai Health System
Professor and Chair,
Oncological Sciences
Icahn School of Medicine
at Mount Sinai
NEW YORK, NEW YORK

\*Appointed Director of the National Cancer Institute and resigned from the committee.

#### DAMON RUNYON CLINICAL INVESTIGATOR AWARD COMMMITTEE CONTINUED

#### Ann Partridge, MD, MPH

Vice Chair of Medical Oncology Founder and Director, Program for Young Women with Breast Cancer Director, Adult Survivorship Program Eric P. Winder, MD, Chair in Breast Cancer Research Dana-Farber Cancer Institute Professor of Medicine Harvard Medical School BOSTON, MASSACHUSETTS

#### Vered Stearns, MD, FASCO

Professor of Oncology Director, Women's Malignancies Disease Group Breast Cancer Research Chair in Oncology The Sidney Kimmel Comprehensive Cancer Center Johns Hopkins University BALTIMORE, MARYLAND

#### Jedd D. Wolchok, MD, PhD

Meyer Director Sandra and Edward Meyer Cancer Center Weill Cornell Medicine NEW YORK, NEW YORK

#### Kwok-Kin Wong, MD, PhD

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

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#### **Founding Member**

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

Claire L. Tow Chair in Pediatric Oncology Research Memorial Sloan Kettering Cancer Center NEW YORK, NEW YORK

#### DAMON RUNYON

# CLINICAL INVESTIGATOR AWARD

#### CALIFORNIA

#### Daniel J. Delitto, MD, PhD\*

Pathogen sensing in fibroblasts restrains antitumor immunity in pancreatic cancer with Michael T. Longaker, MD, DSc, Stanford University, Stanford

#### Anusha Kalbasi, MD

IL13Ra2 Chimeric Antigen Receptor (CAR) T cells for metastatic melanoma with Antoni Ribas, MD, PhD, and Christine Brown, PhD, University of California, Los Angeles

#### David Y. Oh, MD, PhD

Co-receptors modulating antitumor activity of human cytotoxic CD4+ effector cells with Lawrence Fong, MD, University of California, San Francisco

#### Melody Smith, MD\*

Regulatory mechanisms of the intestinal microbiome on chimeric antigen receptor T cells with Robert S. Negrin, MD, Stanford University, Stanford

#### **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

#### MICHIGAN

#### Phillip L. Palmbos, MD, PhD

Targeting TRIM29 to reverse immune checkpoint inhibitor resistance in bladder cancer with Joshi J. Alumkal, MD, University of Michigan, Ann Arbor

#### Daniel R. Wahl, MD, PhD

Targeting metabolic interactions in the glioblastoma microenvironment to overcome therapy resistance with Theodore S. Lawrence, MD, PhD, and Maria G. Castro, PhD, University of Michigan, Ann Arbor

#### **MISSOURI**

#### Kelly L. Bolton, MD, PhD

The use of enasidenib in IDH2mutated clonal cytopenia of undetermined significance with Matthew J. Walter, MD, and Eytan M. Stein, MD, Washington University School of Medicine, St. Louis

#### Nathan Singh, MD\* **Bakewell Foundation Clinical Investigator**

Tailored cellular engineering to overcome costimulation-driven CAR T cell dysfunction with John F. DiPersio, MD, PhD, Washington University, St. Louis

#### DAMON RUNYON CLINICAL INVESTIGATOR AWARD CONTINUED

#### **NEW YORK**

# Aaron D. Viny, MD\* Damon Runyon-Doris Duke Clinical Investigator

Epigenetic coupling of DNA methylation and chromatin structure on leukemic transformation and therapeutic response with Emmanuelle Passegué, PhD, and Joseph G. Jurcic, MD, Columbia University, New York

#### **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**

#### Alexander C. Huang, MD Damon Runyon-Doris Duke Clinical Investigator

Shared antigen and neoantigenspecific T cells in checkpoint blockade efficacy and toxicity with Gerald P. Linette, MD, PhD, University of Pennsylvania, 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, University of Texas Southwestern Medical Center, Dallas

#### Xiuning Le, MD, PhD\*

Structure- and lineage-based classification and targeting of resistance in EGFR-mutant NSCLC with John V. Heymach, MD, PhD, University of Texas MD Anderson Cancer Center, Houston

#### Sangeetha M. Reddy, MD

Katelyn Shea Butts Memorial Research Award/ William Raveis Charitable Fund Clinical Investigator

Multi-modality approach to enhancing antigen presentation in breast cancers with Zhijian (James) Chen, PhD, and Hans Hammers, MD, PhD, University of Texas Southwestern Medical Center, Dallas

\*Initial Year

#### **DAMON RUNYON**

# CLINICAL INVESTIGATOR AWARD CONTINUATION GRANT

#### **CALIFORNIA**

#### Collin M. Blakely, MD, PhD

Mechanisms of incomplete response and primary resistance to the 3rd generation EGFR inhibitor osimertinib in lung cancer with Trever G. Bivona, MD, PhD, University of California, San Francisco

#### 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

RNA Polymerase II as therapeutic target in AML with RAS activation with Neil P. Shah, MD, PhD, and Kevin M. Shannon, MD, University of California, San Francisco

#### **MASSACHUSETTS**

#### Matthew G. Oser, MD, PhD\*

Dissecting and therapeutically exploiting synthetic lethality between NOTCH and TRIM28 to drive anti-tumor immunity in SCLC with William G. Kaelin, Jr., MD, Dana-Farber Cancer Institute, Boston

#### **PENNSYLVANIA**

#### Jennifer M. Kalish, MD, PhD\*

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

\*Initial Year

#### DAMON RUNYON-RACHLEFF

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Professor of Genetics
Stanford University School
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Professor of Radiation Oncology
Vice-Chair, Research
Cancer Biology Division Chief
Department of Radiation Oncology
Washington University
School of Medicine
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Chief and Senior Investigator
Translational and Functional
Genomics Branch
Head, Microbial Genomics Section
National Human Genome
Research Institute
National Institutes of Health
BETHESDA, MARYLAND

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Distinguished Professor,
Microbiology, Immunology,
and Molecular Genetics
Sherie L. and Donald G. Morrison
Chair, Molecular Immunology
University of California, Los Angeles
LOS ANGELES, CALIFORNIA

#### Benjamin P. Tu, PhD

Howard Hughes Medical Institute Investigator University of Texas Southwestern Presidential Scholar Martha Steiner Professorship in Medical Research W. W. Caruth, Jr. Scholar in Biomedical Research Professor, Biochemistry University of Texas Southwestern Medical Center DALLAS, TEXAS

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#### Ronald Levy, MD

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

#### DAMON RUNYON-RACHLEFF

## **INNOVATION AWARD**

#### **CALIFORNIA**

#### Danielle Grotjahn, PhD

Nadia's Gift Foundation Innovator Uncovering structural mechanisms of mitochondrial fragmentation in cancer by cellular cryoelectron tomography at Scripps Research, I. a. Jolla

#### COLORADO

#### Sabrina L. Spencer, PhD

Causes and consequences of rapid cancer cell adaptation to MAPK pathway inhibitors at University of Colorado Boulder, Boulder

#### CONNECTICUT

#### Luisa F. Escobar-Hoyos, PhD William Raveis Charitable Fund Innovator

Understanding RNA splicing in tumor-cell adaptation and antitumor immunity at Yale University School of Medicine, New Haven

#### Mandar D. Muzumdar, MD

Targeting endocrine-exocrine signaling in pancreatic ductal adenocarcinoma progression at Yale University School of Medicine, New Haven

#### **ILLINOIS**

#### Joshua A. Weinstein, PhD

A novel DNA microscopy platform for rapid discovery of immunogenic tumor neoantigens at The University of Chicago, Chicago

#### **MARYLAND**

#### Jamie B. Spangler, PhD\*

Engineered multispecific downregulating antibodies to advance cancer immunotherapy at Johns Hopkins University, Baltimore

#### **MASSACHUSETTS**

#### Nora Kory, PhD\*

Targeting mitochondrial transporters in cancer at Harvard T.H. Chan School of Public Health, Boston

#### Srinivas R. Viswanathan, MD, PhD\*

X marks the spot: exploring how X-chromosome alterations drive sex differences in cancer at Dana-Farber Cancer Institute, Boston

#### **NEW YORK**

#### Santosha A. Vardhana, MD, PhD, and Ekaterina V. Vinogradova, PhD\*

Investigating and targeting T cell exhaustion in solid tumors at Memorial Sloan Kettering Cancer Center/The Rockefeller University. New York

#### PENNSYLVANIA

#### Chengcheng Jin, PhD\*

Investigating neuro-immune interaction in lung cancer at University of Pennsylvania, Philadelphia

\*Initial Year

#### **DAMON RUNYON-RACHLEFF**

# INNOVATION AWARD STAGE 2 FUNDING

#### **MASSACHUSETTS**

#### 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

#### 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\*

Leveraging multi-modal genome profiling approaches to study disease initiation, progression, and response to therapy in TP53 mutated myeloid neoplasms at Memorial Sloan Kettering Cancer Center, New York

#### TEXAS

#### Xiaochun Li, PhD

Investigation of Hedgehog and Wnt signaling mechanisms at University of Texas Southwestern Medical Center, Dallas

\*Initial Year

# THANK YOU TO OUR DONORS

Your support this year enabled us to invest nearly \$18.8 million in exceptional young scientists working across research disciplines to better prevent, diagnose, and treat all forms of cancer. Since our founding in 1946, in partnership with donors across the nation, the Damon Runyon Cancer Research Foundation has invested over \$430 million and funded nearly 3,950 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 50 - 52.

#### **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 would 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 thank our donors for their loyalty.



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

## **2022 EVENTS**



#### **75TH ANNIVERSARY DINNER**

Damon Runyon celebrated 75 years of funding cancer research at Gotham Hall in New York on June 1. The event raised nearly \$1 million to support our scientists and honored Walter Isaacson, author and Professor of History at Tulane University, for his illustrious career chronicling scientific innovation. Former Damon Runyon Fellow and current Board Member Elaine Fuchs, PhD, the Rebecca C. Lancefield Professor of Mammalian Cell Biology and Development at The Rockefeller University, was the event's featured scientific speaker.



#### **RAVEIS RIDE + WALK**

The William Raveis Charitable Fund hosted its eighth annual Raveis Ride + Walk on September 18 at Calf Pasture Beach in Norwalk, Connecticut. Since 2015, the Ride + Walk has raised over \$3.5 million for Damon Runyon scientists. We are grateful to the entire Raveis community for their partnership and support.



#### **RUNYON 5K AT YANKEE STADIUM**

On September 29, Damon Runyon was thrilled to host the Runyon 5K in person at Yankee Stadium for the first time in three years.

Nearly 800 participants experienced the unique course under the lights on a beautiful fall evening and helped contribute to over \$295,000 raised in support of innovative cancer research. The 2022 Runyon 5K was presented by MetLife Foundation, with additional support from Impossible Foods, Captain Lawrence Brewing Company, LMNT, RIND Snacks, Dot's Pretzels, New York Post, SiriusXM, and the Boogie Down Bronx Runners.



#### **ANNUAL FELLOWS' RETREAT**

Every September, our first- and third-year Fellows gather to present their research, offer each other feedback, and learn from accomplished senior scientists. We were delighted to gather in person again this year in Southbridge, Massachusetts, where discussions ranged in topic from genetically engineered gut bacteria to strategies for a successful postdoc career. Among the Retreat's many highlights was the presentation of the Damon Runyon-Jake Wetchler Award for Pediatric Innovation to Sohn Fellow Anand G. Patel, MD, PhD, of St. Jude Children's Research Hospital.

# 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.

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

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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.

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This award program was launched in partnership with the generous support of the Sohn Conference Foundation.

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#### DAMON RUNYON-JAKE WETCHLER AWARD FOR PEDIATRIC INNOVATION

This \$5,000 award is named in honor of Jake Wetchler, who died at age 20 after a heroic fight against two different cancers.

#### Anand G. Patel, MD, PhD

St. Jude Children's Research Hospital

<sup>\*</sup>In perpetuity

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









In conjunction with this initiative, the Accelerating Cancer Cures Research Symposium brings together our translational researchers with industry leaders to foster communication and collaboration to help speed progress against cancer. The Accelerating Cancer Cures Research Symposium was held on May 19, 2022 at Merck's headquarters in South San Francisco. The agenda featured scientific presentations from current Damon Runyon Clinical Investigators and Physician-Scientists, a keynote, and a roundtable discussion among scientists from Merck, Dana-Farber Cancer Institute, Stanford University, Amgen, and Gilead.

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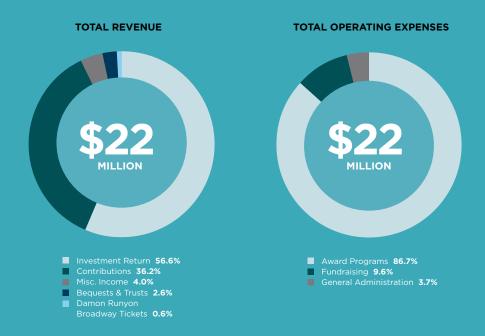
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# FINANCIAL SUMMARY FISCAL YEAR 2022

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 FY2022.

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



SUMMARY OF BALANCE SHEETS

Total Assets
Total Liabilities
Total Net Assets

\$175,580,654 \$32,562,162 \$143,018,485

2021

2022 \$143,543,813 \$31,902,382 \$111,641,431



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