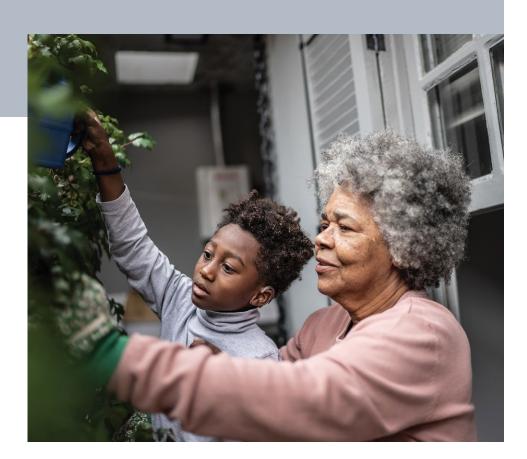


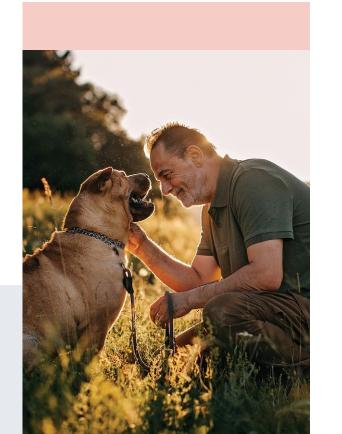
2023 Donor Impact Report

Accelerating a cure for each and every multiple myeloma patient.









A Letter from the CEO

Dear friends,

Each year as we prepare our Donor Impact Report, I am constantly reminded of the unwavering dedication of our community. Your incredible trust, energy, and enthusiasm strengthened the MMRF in 2023, just as it has for the past 26 years. We are so thankful for your partnership as we bolster our efforts to drive progress for this amazing patient community, together.

I am proud to share that your continued generosity enabled us to invest nearly \$36 million this past year in urgent research projects and support services for patients. We directly invested in two new promising therapies through the Myeloma Investment Fund® (MIF), fueled three Myeloma Accelerator Challenge (MAC) Program Projects for \$21 million with the power to deliver new scientific advances, and served 16,500 patients with educational and support services to improve their outcomes. We also welcomed the inaugural cohort of the MMRF Scholars Program, which recruits early-career Black researchers to the field of myeloma.

While 2023 has come to a close, our vital work endures. Our new strategic plan is underway and guiding our organization as we advance innovative research to deliver cures for myeloma patients. Thank you for your steadfast commitment as we continue to do incredible things in 2024.

Sincerely,

Malal Cul-

Michael Andreini President and Chief Executive Officer Multiple Myeloma Research Foundation





"Your incredible trust, energy, and enthusiasm strengthened the MMRF in 2023, just as it has for the past 26 years."

Accelerating Novel Therapies

ur first strategic priority is to accelerate the development of novel therapies. Before the MMRF, funding for multiple myeloma research was minimal. There had not been an FDA approval in more than 30 years, and patients survived just two to three years from diagnosis. Since our founding, we've accelerated promising breakthroughs for multiple myeloma patients to extend and enhance their lives. In 2023, our one-of-a-kind Myeloma Investment Fund[®] (MIF) expanded its portfolio by investing in two new early-stage companies that are advancing promising therapies for myeloma. Additionally, our collaborative research efforts through the Multiple Myeloma Research Consortium[®] (MMRC) continued, sponsoring the innovative MyDRUG[™] Study and preparing to launch the HORIZON Adaptive Trials Program.



Myeloma Investment Fund

The Myeloma Investment Fund® (MIF) is the first and only mission-driven venture philanthropy fund focused on accelerating a cure for myeloma. It identifies and invests in the most promising biotechnology companies with innovative clinical assets and technologies that could be transformative for myeloma patients. This task largely falls to early-stage, venture-backed biotech companies that take on a disproportionate amount of scientific and financial risk that can only be overcome with world-class expertise and reliable funding. Investing through the MIF enables us to provide financial and strategic support to advance a robust pipeline of new myeloma therapies and improve the probability of their success for patients. In 2023, we added two new companies immune resistance. Nectin's first-in-class lead studying exciting immunotherapies to our portfolio and immunotherapy drug candidate, NTX1088, is a made follow-on investments in three others-Cullinan prime example of the next-generation treatment Oncology, KAHR, and Indapta Therapeutics. approaches our patients need for myeloma.

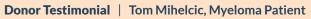
To date, the MIF has invested a total of \$17 million in **Our Investment in Reverb Therapeutics** 13 different companies. Cytokine therapy is a cutting-edge treatment approach that turns small proteins affecting cellular growth and immune and inflammatory responses

Our Investment in Nectin Therapeutics

Targeted immunotherapy can disrupt cancer cell activity and alert the immune system to seek out and kill cancer cells. Nectin Therapeutics is a biotechnology company developing novel targeted immunotherapies to address tumor

Impact of the Myeloma Investment Fund[®] (since 2019)

\$17M Invested

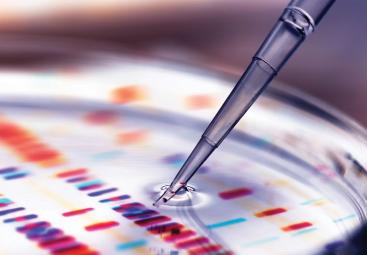




"I am grateful for the MMRF's research efforts, pipeline of new treatment options, and relentless pursuit of a cure, through which I have been able to spend more time with my family, welcome eight grandchildren, and travel, all because of the progress for patients."

Accelerating Novel Therapies





into tools in the fight against cancer. Reverb **Therapeutics'** antibody-based Amplifier[™] platform is exploring treatment possibilities by activating endogenous cytokines that naturally occur within the body to signal helpful proteins.

13 **Companies in our** portfolio

Treatments advanced to the clinic



Multiple Myeloma Research Consortium

The MMRF leads the Multiple Myeloma Research **Consortium (MMRC),** a collaborative network of leading myeloma treatment centers conducting early-stage clinical trials to evaluate novel treatment strategies for patients.

Our consortium leads ambitious clinical studies that simply could not be done by any single institution, given their size and complexity. We identify the areas of significant unmet clinical need and advance innovative treatment approaches that answer urgent questions and offer greater options for patients living with relapsed/refractory, high-risk newly diagnosed, and high-risk smoldering myeloma.

Countdown to Launch: HORIZON Adaptive Trials Program

In 2023, the MMRF and 13 North American MMRC centers worked tirelessly to develop the groundbreaking HORIZON Adaptive Trials

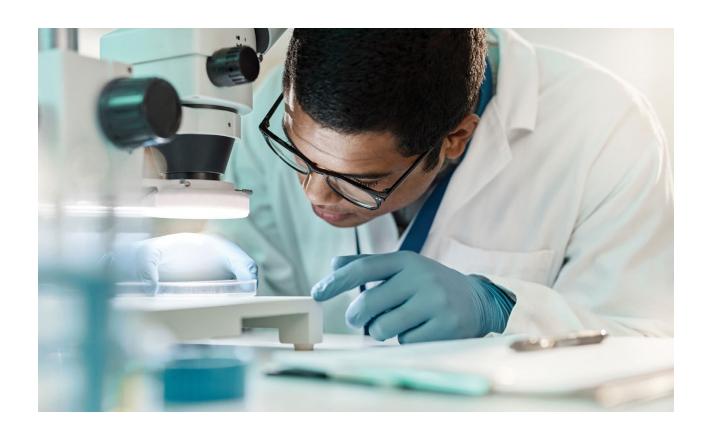
Program. Slated to open in 2024, two trials will test treatment strategies in patients with relapsed/ refractory disease and those who are newly diagnosed and have high-risk disease. The adaptive nature of the trials allows investigators to test multiple therapies simultaneously and reduce the amount of time needed to evaluate new therapies. Investigators can then rapidly expand patient cohorts receiving treatment regimens with positive outcomes, and efficiently close experimental protocols with less-than-optimal outcomes.

Groundbreaking clinical trials like HORIZON are only possible through larger-scale, multiinstitutional cooperation. These trials will allow the MMRC to explore combination therapies regardless of manufacturer, putting the most promising science and the urgent need of patients ahead of pharmaceutical profits or industry competition.

THANK YOU TO OUR 2023 MMRC PARTNERS!

We couldn't launch the HORIZON Adaptive Trials Program without you.

- Levine Cancer Institute
- University of Chicago •
- Barbara Ann Karmanos Cancer Center
- City of Hope •
- Emory University
- Hackensack University Medical Center
- Mayo Clinic Rochester
- Memorial Sloan Kettering Cancer Center
- Icahn School of Medicine at Mount Sinai • Sarah Cannon Research Institute at • Tennessee Oncology
- University of California, San Francisco
- Dana-Farber Cancer Institute/Harvard . Medical School
- University of Texas Southwestern





Spotlight on the MyDRUG[™] Study

The MMRC-sponsored MyDRUGSM Study (MyDRUG) is the first platform study in myeloma that evaluates targeted therapies against specific genomic alterations in patients who are considered high-risk and have already had one to three therapies. Excitingly, the treatment arm using Cotellic® (cobimetinib), an FDA-approved therapy for melanoma, was expanded to include a larger patient cohort based on promising results among MyDRUG participants who received it-creating a new possible treatment option for patients with that genomic alteration.

Driving Optimal Treatment Approaches

ur second strategic priority is to drive optimal and more personalized treatment approaches. This is crucially important because multiple myeloma is different for everyone. We are collecting and sharing comprehensive data from a diverse array of patients to ultimately identify optimal and more personalized treatments for every patient. In 2023, your donations fueled the continuation and expansion of our most successful data initiatives. We are creating the most holistic picture of myeloma disease biology ever described, driving more precise approaches through treatment combinations that take into account patients' unique genomic, immune, and clinical factors simultaneously.



Donor Testimonial | Alison Slap Tress, Family of Myeloma Patient



"Despite the number of new options for myeloma patients, the disease remains incurable, and patients continue to need better options to save their lives. We support the MMRF for its unswerving patient focus to find the right treatment at the right time and its mission to find a cure for each and every patient."

Our Data Initiatives

MMRF CoMMpassSM Study

Studying the molecular genetics and immune prof of myeloma patients makes it possible to understa more about how their cancers may progress and respond to therapy, which is important informatic that can chart the path to effective treatment. Through our groundbreaking MMRF CoMMpass Study, we have built the largest molecular and clin dataset in the public domain of multiple myeloma patients, yielding incredible insights to drive progr in research and patient care. CoMMpass is a deca long genomic clinical study of more than 1,100 patie over the course of their treatment. Since its incept the data and knowledge derived from CoMMpass supported the publication of over 100 peer-review scientific and clinical papers in leading scientific journals and many more abstracts and presentations at national and international conferences. In 2023 alone, 53 publications or abstracts utilized or referenced data from CoMMpass.

"CoMMpass is the single most

important contribution to

myeloma research."

Earlier this year, the MMRF concluded enrollment in the MMRF **CureCloud**sM, making it one of the -David Siegel, MD, PhD, Myeloma Division Chief largest longitudinal datasets in multiple myeloma, at the John Theurer Cancer Center with over 1,000 patients enrolled. The data from this study, which includes clinical, genomic, immune, and patient-reported outcomes, is being analyzed Immune Atlas in ongoing research and will be made available to The molecular genetics of multiple myeloma alone researchers to help answer important myeloma does not explain the full picture of myeloma disease research questions and inform future MMRF databiology nor how patients respond to therapy. To generating initiatives, all in support of our mission. develop a more comprehensive picture of myeloma For example, we have discovered that current disease biology, the MMRF has been building upon liquid biopsy technology cannot capture sufficient the CoMMpass dataset by generating new "multimyeloma cells, as compared to bone marrow omics" data on myeloma patients' immunity through biopsies, to enable large-scale genomic sequencing our Immune Atlas research program. Combining efforts. Several analyses of the dataset have already immune, genomic, and clinical data advances our been presented at scientific meetings, and additional understanding of how a patient's immune system publications and submissions are underway.



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changes during disease development and how it is affected by therapy.

The Immune Atlas program is a collaboration between the MMRF and five leading academic medical centers. By the end of 2023, Immune Atlas analyzed over 1,400 samples from ~750 CoMMpass patients and is the largest immune dataset from a single myeloma study in the world.

In 2023, data from the Immune Atlas was presented in publications and at scientific meetings. This new data describes changes in the critical immune cell populations that detect and eliminate malignant cells in the bone marrow of myeloma patients and how these changes may influence disease progression and patient risk stratification.

The MMRF has accumulated more than 500 TB of data—roughly the equivalent of a 500-year-long music playlist-generated through these efforts. More data is being continually generated through new studies and research collaborations to drive deeper insights into myeloma biology and the mechanisms of clinical response and relapse.

CureCloudSM



Virtual Lab[™]

A critical barrier to medical research is a lack of access to high-quality data. Due to competition for funding and publication, academic researchers are not incentivized to share data outside of their institution. The MMRF, however, is and always has been committed to both generating and sharing our datasets widely to accelerate treatments. We ensure that myeloma researchers all over the world, no matter their affiliation, have access to a wealth of inclusive data from thousands of myeloma patients to power their work.

largest-ever myeloma data-sharing platform, Virtual Lab[™] (VLab). Launching in 2024, VLab will aggregate the data from all of the MMRF's landmark research projects in a single, proprietary platform, equipping academic and biopharma researchers with online tools to view and utilize data from thousands of patients and run detailed analyses.

Researchers will be also required to share their analyses so that we can continue to build the body of knowledge about this disease while fostering a community of experts working together to accelerate a cure.

In 2023, we continued our work on creating the



Donor Testimonial | Valerie Malsch, Myeloma Patient

"Since my diagnosis, I've undergone many treatments. I am now in remission, but I know that if my current treatment stops working I have options, thanks to the MMRF's work, and donor support is what makes these options possible. Donor support saves lives."

Myeloma Accelerator Challenge Program Projects

With our Myeloma Accelerator Challenge (MAC) translational research projects, researchers Program Projects, the MMRF identified the are sharing resources and samples to advance highest areas of unmet need and selected the best compelling hypotheses that are ready for rapid researchers around the world to work together to testing in clinical trials. In 2023, we directed three more accurately define what it means to be high-\$7 million multiyear projects focused on patients risk and determine the best treatment options with high-risk newly diagnosed multiple myeloma for those patients. Through these multicenter and high-risk smoldering myeloma.

2023 Myeloma Accelerator Challenge (MAC) Grant Recipients



Samir Parekh, MD

Icahn School of Medicine at Mount Sinai, New York, NY Transforming Treatment of High-Risk Myeloma

Collaborating institutions:

- Albert Einstein College of Medicine
- Hackensack University Medical Center
- Stanford University Medical Center
- University of California, San Francisco
- Washington University in St. Louis



Sagar Lonial, MD

Collaborating institutions:

- Institute
- Mount Sinai
- Hospital
- Mayo Clinic
- Cancer Center

Emory University Winship Cancer Institute, Atlanta, GA Clinical & Multi-Omics Platforms to Define HR SMM

• Dana-Farber Cancer

• Atrium Health Levine Cancer Institute

Icahn School of Medicine at

Massachusetts General

Memorial Sloan Kettering



Pieter Sonneveld. MD, PhD

Erasmus University Medical Center. Rotterdam, Netherlands

A Systems Biology Approach to High-Risk Multiple Myeloma

Collaborating institutions:

- Amsterdam University Medical Centers
- Julius Maximilian University of Würzburg
- University of Turin
- University of Salamanca

Empowering Patients and the Community

ur third strategic priority is to empower patients and the myeloma community. We believe every patient deserves the best possible outcome, which is why we're committed to making research opportunities more accessible and equipping patients with resources to expand their knowledge of myeloma and their ability to optimize their care. In 2023, we supported patients and their families from diagnosis through treatment by ensuring they had access to crucial information to make decisions about therapies and clinical trials. Critically, we also addressed disparities in access to quality care by broadening the field of myeloma research with diverse and talented scholars.



Donor Testimonial | Dr. Judith Harding, Myeloma Patient

"It means a great deal to me to be able to connect with renowned myeloma doctors and ask them questions to stay up-to-date on new treatments, side effects, and clinical strategies. The MMRF and the work they do is a big part of that."

Patient Education

We are committed to delivering the highest quality and confidence in discussing treatment options, while patient education programming, which includes inmany also found a profound sense of relief. person, interactive events around the United States **MMRF** Myeloma Mentors Program featuring myeloma specialists, educational summits, For those who wish to connect one-on-one with someone who has shared experience with myeloma, the MMRF Myeloma Mentors program provides patients and caregivers the opportunity to connect via phone with trained mentors who offer personal insights to help inform, empower, and support fellow patients and caregivers. There are currently 11 mentors in the program, and the number of connections made increased 20% in 2023 compared to 2022.

patient toolkits, informational brochures and webinars, and a podcast called "Myeloma Matters" that spotlights myeloma patients and their disease journey. This past year, as part of the MMRF website relaunch, our Education Resource Hub was restructured to better meet patient needs. The redesign centered on user experience, making resources and program information much more accessible. For example, information was organized by stage of the disease, where people are in their journey, and content type so that patients and caregivers can now curate resources specific to their needs and preferences. In 2023, our 25 programs educated 16,500 participants, which is more than any other organization. In addition, outcomes reports showed that 35% of patients attending an MMRF program increased their knowledge and confidence after participating.

Patient Navigation Center

Our Patient Navigation Center enables myeloma patients and caregivers to connect with Patient Navigators, all of whom previously worked as oncology nurses, for guidance and support throughout their journey. Patient Navigators answer questions, share resources, and help keep patients on the Right Track. Patients can connect with a Patient Navigator by phone, email, or an online form. In 2023, our Patient Navigators worked with 3,250 patients. These interactions led to remarkable outcomes, with over

In collaboration with the Harvard Business School Kraft Precision Medicine Accelerator and other leading cancer research and advocacy organizations, the MMRF developed the Right Track framework to help myeloma patients optimize their decision-making at every step post-diagnosis. There are three critical components to the Right Track:





70% of survey respondents gaining empowerment

As	a Myeloma Mentor,
I fe	el lucky to have the
abi	lity to offer guidance,
hop	e, and reassurance
tha	t they too will
ove	rcome this challenge
and	l come out stronger."

-Lisa Brown, Myeloma Mentor since March 2022













2023 Health Equity Summit

The MMRF's annual **Health Equity Summit** brings together the entire myeloma ecosystem policymakers, academic researchers, biopharma executives, retail pharmacists, and community health advocates—to identify strategies and solutions to drive greater inclusivity in and access to clinical research studies in multiple myeloma.

For many patients with multiple myeloma, clinical trials offer the best treatment options. However, patients who are older, who are Black and/or Hispanic, and/or who live in rural areas are often excluded from cancer clinical trials and the benefits of potentially efficacious therapies.

One of the areas of focus for the 2023 Summit was reevaluating and expanding cancer clinical trial eligibility criteria—a well-documented factor in the exclusion of racial and ethnic minority groups from trials, including those studying multiple myeloma treatments. Chief among these exclusionary factors are blood count criteria that do not consider racial and ethnic variations, such as differences in "normal" absolute neutrophil counts and anemia rates.

The second area of focus highlighted several initiatives that have expanded access to clinical trials, including various partnerships that have facilitated "Like-minded people working together with a common purpose truly have the capacity to change the world and, in that process, find a cure for every myeloma patient locally and globally."

–Yvens Laborde, MD, Ochsner Health

the integration of research into the care continuum, and decentralized and hybrid study designs.

Addressing inequities in myeloma clinical research is intrinsic to the MMRF's goal of ensuring every person with multiple myeloma gets optimized treatment and eventually a cure. The MMRF is taking action to integrate key learnings shared at the Summit into its research strategy.

2023 Health Equity Summit Co-Chairs

Ola Banjo, PharmD, AAHIVP Senior Director, Community Engagement and Partnerships, Multiple Myeloma Research Foundation

Hearn Jay Cho, MD, PhD Chief Medical Officer, Multiple Myeloma Research Foundation

Anne Quinn Young, MPH Chief Mission Officer, Multiple Myeloma Research Foundation

2023 Health Equity Summit Session Chairs

Monique Hartley-Brown, MD, MMSc Medical Oncology, Dana-Farber Cancer Institute

Bindu Kanapuru, MD

Multiple Myeloma Team Lead, Division of Hematologic Malignancies 2, US Food and Drug Administration

Gurbakhash Kaur, MD Assistant Professor of Internal Medicine, University of Texas Southwestern

Brian Rivers, PhD, MPH Professor and Director, Morehouse School of Medicine, Cancer Health Equity Institute



In 2024, the MMRF will begin enrollment in the **HORIZON Adaptive Trials Program,** which will use expanded inclusion/exclusion criteria and a new adaptive platform model to broaden the eligible patient population.







Empowering Patients and the Community







MMRF Career Development Awards

By funding a new wave of talented researchers, the MMRF is helping to broaden and diversify the field of myeloma research to better reflect the heterogeneity to provide financial support for Black researchers and of the myeloma patient community. The MMRF Scholars Program and the MMRF Research Fellows Award Program invest in early-career researchers and clinicians and serve as a draw to myeloma research for the brightest young investigators.

MMRF Scholars Program

We launched the **MMRF Scholars Program** in 2023 clinicians (MD and/or PhD) who are currently active or interested in pursuing a career in the field of myeloma. Awardees are provided up to \$400,000 over four years to support their career development as researchers from postdoctoral to first tenure-track positions.

Inaugural MMRF Scholars Award Recipients



Joselle Cook, MD, MBBS Mayo Clinic Prevalence of MGUS Among Unique Populations

of Black People



Eden Biltibo, MD, MS Vanderbilt University Medical Center Identifying Effective and Cost-Conscious Maintenance Daratumumab Dosing

MMRF Research Fellows Award Program

One of our longest-standing and most impactful programs, the MMRF Research Fellows Award **Program** is an initiative supporting young researchers at the postdoctoral, medical fellow, or junior faculty levels working under the supervision or guidance of a research mentor in the multiple myeloma field. We have supported these awards

Announcing the 2023 MMRF Research Fellows



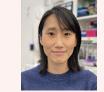
Luis Corchete Sánchez, PhD Postdoctoral Fellow, Massachusetts General Hospital, MA

Role of Sex Chromosomes in Multiple Myeloma

Marcella Kaddoura, MD

Assistant Professor, Miller School of Medicine at University of Miami, FL

Defining the Genomic Landscape of Myeloma with CCND1:IGH Translocation



Holly Lee, MD

Resident, University of Calgary, Canada

Oncogenic Dependencies of Anti-BCMA Therapy Resistant Multiple Myeloma

since our inception, creating a steady pipeline of new researchers, many of whom later credit the MMRF with helping to establish their first lab or focus on an important new area of science. These \$150,000, two-year grants change the trajectory of researchers' careers and infuse the field of myeloma research with fresh perspectives and cutting-edge training.



Ioannis Kostopoulos, PhD

Senior Postdoctoral Fellow, National and Kapodistrian University of Athens, Greece

Bone Marrow Microenvironment During the Natural History of Multiple Myeloma



Enze Liu. PhD

Assistant Professor, Indiana University, IN

Utilizing Long-Read Technology to Study Splicing and m6A as a Whole



James Nyamataga, MD

Instructor, Muhimbili University of Health and Allied Sciences, Tanzania

Molecular Characterization of Multiple Myeloma in Tanzania

Raising Funds for Myeloma Progress

ur fundraisers make our progress Ο possible, helping us raise awareness for multiple myeloma, improve lives, and find a cure. In 2023, the **Team for Cures** program raised \$5.7 million through walking, running, biking, and other creative fundraising ideas. Learn more about how you can get involved, including how you can turn your passion into a fundraiser, or sign up for a community event near you. Visit themmrf.org/events.

2023 Events **4** Hikes **6** Marathons/Half-Marathons **A** 2 Rides **15** (one virtual) Walks/Runs Ð 48 Create Your Own



tion

Donor Testimonial | John Raithel, Myeloma Patient



"It's so important to me to let newly diagnosed patients and their families know there is hope for a wonderful future! I am grateful for the MMRF's research and the community I've found through their support programs, like MMRF Moving Mountains."



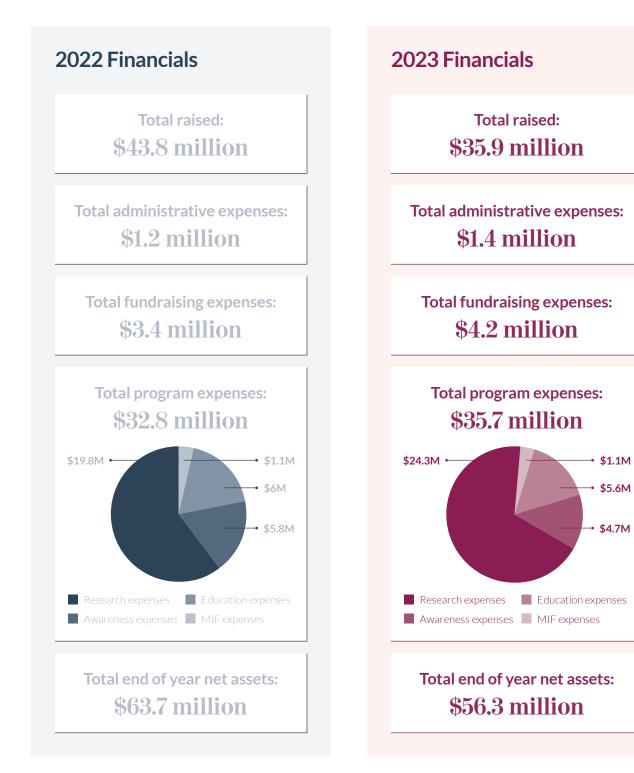


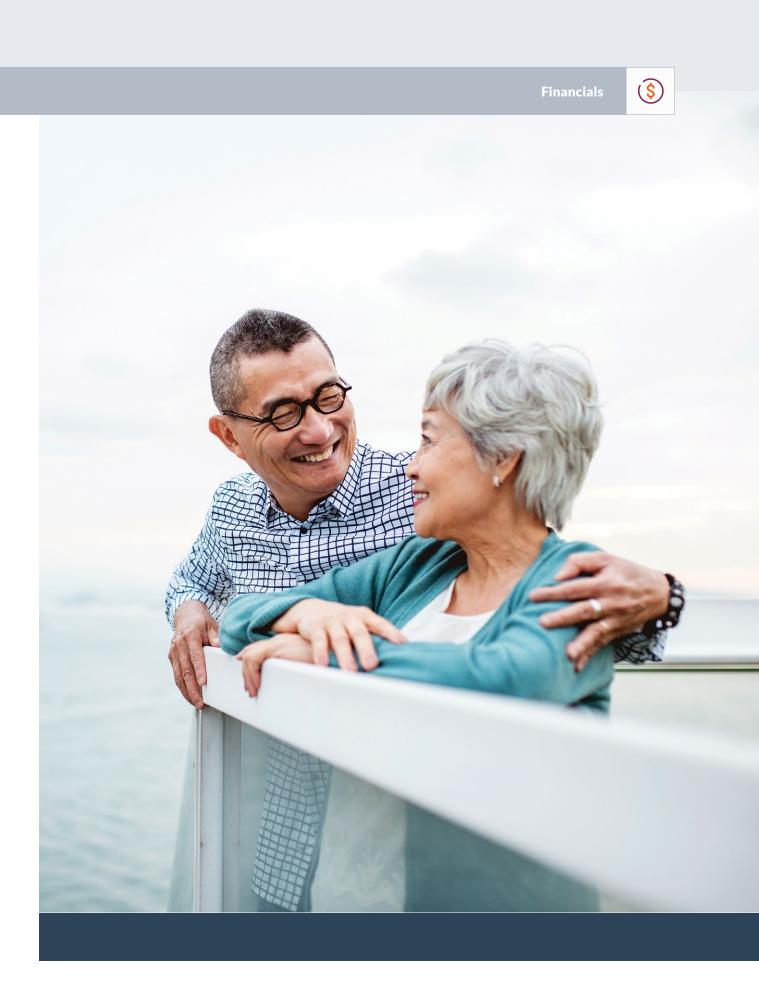


Raising Funds for Myeloma Progress



Financials







About the MMRF

he Multiple **Myeloma Research Foundation** (MMRF) is the largest nonprofit in the world solely focused on accelerating a cure for each and every multiple myeloma patient. We drive the development and delivery of next-generation therapies, leverage data to identify optimal and more personalized treatment approaches, and empower myeloma patients and the broader community with information and resources

to extend their lives. Central to our mission is our commitment to advancing health equity so that all myeloma patients can benefit from the scientific and clinical advances we pursue. Since our inception in 1998, the MMRF has raised over \$600 million for research, opened nearly 100 clinical trials, and helped bring 15+ FDA-approved therapies to market, all of which have tripled the life expectancy of myeloma patients.

Board Roster

Kathy Giusti, MBA Founder, MMRF

Karen E. Andrews Founder, MMRF

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Gerald McDougall Vice Chairman

Kenneth Anderson, MD

Rodney Gilmore

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Adrian Rosenkranz

Steven Shak, MD

Kimberly A. White

Accreditations



Charity 🕂 Navigator













Multiple Myeloma Research Foundation

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