

Virtual Lab™

Revolutionizing Multiple Myeloma Research by Creating the Largest-Ever Myeloma Data-Sharing Platform

The Multiple Myeloma Research Foundation® (MMRF®) is a world-recognized leader in cancer research. From the lab to the clinic, we address the barriers to progress and leverage every opportunity to transform myeloma treatment and improve patient outcomes. The Virtual Lab™ is a first-of-its-kind online research environment that will allow researchers everywhere to access a wealth of data from thousands of multiple myeloma patients. Through Virtual Lab, the MMRF is increasing the accessibility and inclusivity of our data sets to drive optimal and more personalized treatment approaches for every patient.

In Cancer Research, Data Drives Discoveries

Multiple myeloma is a highly heterogeneous disease, which means that it is different in each individual. Therefore, the approach to treating or even curing myeloma is likely to be different for each and every patient. To provide patients with precisely the right treatment at the right time, it is essential to collect a vast amount of data from a diverse array of individuals with the disease.

Paving the Way for Myeloma Data Sharing

Despite the critical need for large datasets, research data has not traditionally been widely shared among scientists. At academic institutions, researchers are hindered from sharing data to protect intellectual property and publishing rights. Similarly, biopharmaceutical companies are hindered from sharing their data in order to protect their intellectual property and commercial interests.

The MMRF is an unbiased third party, unhampered by the data-sharing restrictions placed on academic institutions and corporations. This allows us to lead the way when it comes to sharing data across the myeloma research community. We are committed to sharing our data so that researchers everywhere have the resources they need to drive more scientific discoveries and accelerate the development of new treatments.

Building the Most Comprehensive Picture of Myeloma

The MMRF has invested in several large-scale observational studies to document the disease biology of myeloma. The MMRF CoMMpassSM Study provides researchers with highly detailed genomic and clinical outcomes data on over 1,100 patients starting from the time of their diagnosis. Our Immune Atlas characterizes the immune microenvironment of the same CoMMpass patients to help us understand how patients' immune systems drive response and resistance to therapy. The MMRF CureCloud[®] was another observational study that aggregated electronic health records, patient-reported outcomes data, and genomic information from over 1,000 patients. While the sample size for typical studies in academic centers might be considered large at a few hundred patients, across CoMMpass, Immune Atlas and CureCloud, the MMRF has collected data from over 2,100 patients.

Aggregating the Largest-Ever Myeloma Data Set

The MMRF's Virtual Lab will allow researchers to access and analyze data from the MMRF and other myeloma studies on a single platform. In addition, the MMRF's Informatics team harmonizes the studies so that their combined data can be searched and analyzed seamlessly.

Critically, Virtual Lab is an online research environment. Researchers will be able to explore the data, analyze findings, and make new discoveries using Virtual Lab's online tools. They will be required to share their analyses so that we can continue to build the body of knowledge about this disease while also building a community of experts working together to accelerate a cure.

With access to exponentially more data than they could possibly collect on their own, researchers can broaden their view of myeloma, ask better questions, and design better studies—all of which will accelerate new myeloma treatments.

Support Innovation in Myeloma Data Generation and Aggregation

Philanthropic support will fuel The Next Leap Forward. Your generous support will help us break down the barriers to data sharing and speed the discovery of a cure for each and every patient. Connect with the Multiple Myeloma Research Foundation team directly by contacting Brian Hochberg at development@themmrf.org or **203-652-0444**.

**Multiple Myeloma
Research Foundation**
383 Main Avenue
5th Floor
Norwalk, CT 06851