

BIOREPOSITORIES

One of our greatest resources for discovery is the BRI Immune Mediated Diseases Biorepository. A collection of biological samples and health information of volunteers with and without disease, scientists use it to learn what defines a healthy immune system and how to predict, prevent, reverse and ultimately cure diseases of the immune system.

BRI SCIENTISTS CAN

- Identify distinct cells and characteristics associated with disease progression
- Understand how environmental and genetic factors impact the immune system
- Advance our understanding of how and why diseases develop
- Identify/develop targets for new therapies.

BRI BIOREPOSITORIES FOCUS ON

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|  ALLERGIES & ASTHMA |  INFECTIOUS DISEASES |
|  CANCER |  INFLAMMATORY BOWEL DISEASES |
|  CELIAC DISEASE |  NEUROLOGIC DISEASES |
|  DOWN SYNDROME |  RHEUMATIC DISEASES |
|  HEALTHY IMMUNE SYSTEMS |  TYPE 1 DIABETES |

How does a biorepository work?



1 Blood samples are collected from donors with and without disease.



2 Samples are separated into serum, plasma, white blood cells and DNA.



3 Each sample is labeled only by a number for confidentiality, frozen and stored.



4 BRI researchers can pose a scientific question and have samples in hand the same day.



5 Samples help scientists work more quickly to make discoveries that improve patient care.

BIOREPOSITORY DISCOVERIES INCLUDE

- Identification of a cell that drives all allergies
- Identification of a cell that drives rheumatoid arthritis
- Gene variations that increase the risk of autoimmune diseases
- Understanding which immune cells contribute to type 1 diabetes, and how treatment can target these cells
- Understanding why T cells in multiple sclerosis may cause more serious disease

BRI BIOREPOSITORY RESEARCHERS ARE

- Leading type 1 diabetes studies to anticipate whose disease will progress rapidly and how to delay it
- Finding biomarkers that predict who will develop rheumatoid arthritis and how to prevent it
- Diagnosing allergies and developing ways to treat them
- Moving from lab discoveries to new treatments for patients with celiac disease

11,000

Samples used by scientists last year

16,000

People participating as volunteer donors

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Visit BenaroyaResearch.org and sign up to receive research updates.

Follow stories on the Autoimmune Life blog at BenaroyaResearch.org/blog

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Partner in Discovery

We need volunteer donors with and without disease.

BRI researchers work with hundreds of physicians and patients through biorepositories and clinical trials—all focused on improving human health.

Register to donate to a biorepository at BenaroyaResearch.org/bio

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To support lifesaving medical research visit: BenaroyaResearch.org/donate-now

