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**
- Allergies & Asthma
- Infections
- Inflammatory Bowel Diseases
- Neurologic Diseases
- Rheumatic Diseases
- Type 1 Diabetes
- Healthy Immune Systems
- Celiac Disease
- Down Syndrome
- Inflammatory Bowel Diseases
- Neuromuscular Diseases
- Type 1 Diabetes
- Healthy Immune Systems
- Celiac Disease
- Down Syndrome
- Inflammatory Bowel Diseases
- Neuromuscular Diseases
- 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

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**JOIN US**

**Get More Information**
Visit BenaroyaResearch.org and sign up to receive research updates.

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

**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

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

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11,000 samples used by scientists last year

16,000 people participating as volunteer donors