



*dedicated to finding a cure*

## **Understanding the Causes of Type 1 Diabetes**

As the world's largest charitable funder and leading agenda setter for type 1 diabetes research, JDRF is at the forefront of science that seeks to not only deliver cures to people with diabetes by reversing the immune response that causes the disease, but also prevent it from happening in people who are at risk (by better understanding its environmental and genetic causes). To that end, JDRF is funding or collaborating in a number of research studies and initiatives:

### **TEDDY:**

To discover the environmental triggers that lead to type 1 diabetes, JDRF is funding The Environmental Determinants of Diabetes in the Young (TEDDY) study. This research follows more than 7,000 newborns at increased genetic risk of developing diabetes, collecting vast amounts of data over a 15-year period to see which environmental factors are associated with developing diabetes. The study will be invaluable in uncovering the causes of type 1 diabetes, and developing therapies to both prevent and cure the disease.

Additional information: <http://teddy.epi.usf.edu>

### **DIPP:**

JDRF funding helped establish the largest prevention trial in the world in Finland, the country with the highest incidence of type 1 diabetes. As part of the DIPP trial, all children are tested by law every three months to see if any changes occur in their blood sugar levels in order to pinpoint the beginning of type 1 diabetes. By isolating that moment of diagnosis, researchers may be able to identify the triggers that caused the disease to take hold.

Additional information: <http://research.utu.fi/dipp/index.php?mid=8&language=en>

### **Type 1 Diabetes TrialNet:**

Type 1 Diabetes TrialNet is an international network of researchers exploring ways to prevent, delay and reverse the progression of type 1 diabetes. It is funded by a collaboration of organizations and government entities, including JDRF. TrialNet conducts clinical trials with researchers from 18 clinical centers in eight countries, and more than 150 medical centers and physicians.

TrialNet screens the relatives of people with type 1 diabetes to determine if they are "at risk" for developing type 1 diabetes. Research to learn more about what causes diabetes can lead to understanding what might predict the development of the disease.

Additional information: <http://www.diabetestrialnet.org>

**SEARCH:**

SEARCH for Diabetes in Youth is a multi-center study that focuses on children in the U.S. with diabetes. SEARCH represents the largest surveillance effort of diabetes among people under the age of 20, covering 10 locations across the country and approximately 5.5 million children. SEARCH documents trends in the incidence of type 1 diabetes in kids, revealing patterns in who gets the disease and when. It is focused on helping researchers understand and compare how type 1 diabetes affects certain populations of children.

Additional information: <http://www.searchfordiabetes.org/public/patient/index.cfm>

**JDRF Clinical Trials Matching Service:**

To provide a simple tool for people with diabetes interested in participating in clinical trials, and to quicken the pace of science leading to a cure, JDRF is creating a clinical trial Matching Service. The JDRF Matching Service is an online tool that provides people with type 1 diabetes information about all the clinical trials in the U.S. involving diabetes, including those funded by JDRF, and direct access to those trials.

While the initial purpose of the Matching Service is to help people with diabetes learn more about participating in trials, it also has the capacity to build on JDRF's diabetes research knowledge. By voluntarily providing information about how people with diabetes are managing their disease, the Matching Service can ultimately become a source for demographic data to help us learn more about the population of people with type 1 diabetes in the U.S.

Additional information: <http://www.trials.jdrf.org>