

# RESEARCH IMPROVING CARE



**ELIZABETH WEISER CASWELL  
DIABETES INSTITUTE**  
UNIVERSITY OF MICHIGAN

Established in 2020, the Caswell Diabetes Institute supports rigorous science and its integration with patient-centered clinical care, leading the way to **prevent, treat, and cure** diabetes, its complications, and related metabolic diseases.

**A RESEARCH COMMUNITY THAT SPANS THE UNIVERSITY OF MICHIGAN**  
The Elizabeth Weiser Caswell Diabetes Institute (CDI) unites nearly 270 faculty from 55 Schools and Colleges across the U-M campus. Our members are part of a diverse community, studying complex issues, united to increase the effectiveness of our fight against diabetes, obesity, and associated disorders.

## Leaders & Best

**1** U-M is #1 in National Institute of Diabetes & Digestive and Kidney Diseases (NIDDK) extramural research funding.

**4** CDI is home to all 4 types of NIH funded Diabetes Centers - the only site to have each (Diabetes Research Center, Center for Diabetes Translational Research, Nutrition-Obesity Research Center, and Metabolic Phenotyping in Live Models of Obesity and Diabetes Research Center).

**1** CDI is home to the JDRF Center of Excellence -1 of 5 in the world. U-M's is the only COE to address the devastating complications that diabetes can cause.

### Addressing our patient's and community's most pressing health and healthcare priorities

**Prevention & Population Health**



**Prevent/reduce complications**



**Cures**



**Health Equity**



**Healthy weight management**



**Diabetes Mental Health**



**Advanced technology**



**Patient & Family Centered Care**



### Join us in improving lives throughout the Midwest and around the world!



Visit us on the WEB:  
[diabetes.med.umich.edu](http://diabetes.med.umich.edu)



Explore our expertise:  
[diabetes.med.umich.edu/our-experts](http://diabetes.med.umich.edu/our-experts)



Receive our newsletter:  
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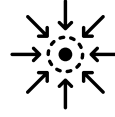
# Featured work

## ACCELERATING TARGETED RESEARCH & DISCOVERY



### ISLET BIOLOGY PROGRAM

Uncovering important new aspects of islet biology sets U-M apart - the development of implantable scaffolds for islet and stem cell transplantation, nano disc technology for immune tolerance in auto-immunity, compounds to relieve ER stress and improve insulin folding, multiorgan crosstalk to promote islet functionality, and genetic approaches to enhance mitochondrial bioenergetics to fuel beta cell viability.



### JDRF CENTER OF EXCELLENCE

This interdisciplinary program is defining the metabolic basis of diabetes complications (retinopathy, nephropathy, neuropathies, cognitive dysfunction) in persons with Type 1 diabetes beyond glucose. The primary goal is to find new diagnostic modalities and therapeutic interventions to improve the quality of life of persons with T1D.



### INFORMATICS AND INNOVATION

Integrating patient care, operations, quality improvement, and research enables a system that can continuously learn in order to improve clinical care and outcomes. Drawing from the electronic health record (including complex data from devices like continuous glucose monitors, pumps, and wearables) this team has created and maintains the CDI Data repository, provides custom data pulls, and creates customized visual dashboards.



### DIABETES MENTAL HEALTH

Designed in partnership with the CDI Patient and Family Advisory Council, we recently launched the Diabetes Mental Health Program to create a global hub and lead research, training, and dissemination on best practices for addressing and promoting the emotional and mental health of persons living with diabetes across the lifespan.

## Cultivating strong teams- Committed to Training Next-Generation Doctors and Researchers that can tackle the most pressing challenges in diabetes and related metabolic diseases

The CDI **Clinical Translational Research Scholars Program (CTRSP)** identifies and supports the most promising early-stage clinician-scholars in the fields of diabetes, obesity, and metabolism - advancing their development of new research programs to answer questions that impact the lives of their patients. The CTRSP provides up to 50% salary support for up to 3 years, protecting time for them to focus on patient-centered diabetes research. In the 4 years since the program launched, CTRSP scholars have collectively produced over 110 publications and 100% of them have received external funding to support their research.

CDI recently introduced the **Basic Science Training and Mentoring Program** to support students, trainees and faculty that study metabolic disease (including diabetic complications).

**CDI is currently recruiting scientists for our Type 1, Type 2, and Diabetes Complications Research teams.**

Diabetes increasingly impacts our families and communities. With your support, the Caswell Diabetes Institute can continue to advance rigorous science and its integration with patient-centered clinical care. Join us in improving lives:

