Metabolism Institute

The mission of the Mount Sinai Metabolism Institute is to develop better therapeutic and prevention strategies for obesity, diabetes, and the Metabolic Syndrome through basic and clinical research. Six areas form the core of the Metabolism Institute’s research enterprise: (1) **Type 1 Diabetes Research Program**, in collaboration with the Immunology Institute, is a translational program focused on identifying new potential therapies for type 1 diabetes, including MHC blockade, chemokine blockade, and induction of central and peripheral tolerance; (2) **Genetics of Metabolic Disorders Program**, in collaboration with the Charles R. Bronfman Institute for Personalized Medicine, aims to identify the critical genetic factors that increase or decrease the risks for obesity/diabetes/metabolic syndrome and their complications; (3) **Central Nervous System Control of Metabolism**, in collaboration with the Friedman Brain Institute, investigates how the brain and nervous system regulate metabolic pathways; (4) **Endocrine Disruptors**, in collaboration with the Department of Preventive Medicine, analyzes the role of Endocrine Disruptors especially during pregnancy and infancy on the development of obesity and the metabolic syndrome later in life; (5) **Pathophysiology of Metabolic Disorders Center** has several research programs, including the role of glucocorticoids in the metabolic syndrome; the role of advanced glycation end-products (AGEs) in the development of diabetes and its complications (in collaboration with the Department of Geriatrics); non-alcoholic hepatosteatosis (NASH) (in collaboration with the Liver Division); and the effects of diabetes on cognition and memory (in collaboration with the Department of Psychiatry); and (6) **Diabetes and Cancer Program**, in collaboration with the Cancer Institute, focuses on the association between type 2 diabetes and cancer, especially breast cancer. The cores of the Metabolism Institute include mouse MRI, metabolic cages, and access to mouse metabolic phenotyping and metabolomic facilities.

**For more information:**
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