Resource Summary Report

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Human Islet Research Network (HIRN)

RRID:SCR_014393
Type: Tool

Proper Citation

Human Islet Research Network (HIRN) (RRID:SCR_014393)

Resource Information

URL: https://hirnetwork.org

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Description: Network helps to organize and support collaborative research related to loss of functional beta cell mass in Type 1 Diabetes (T1D). Project consists of four independent research initiatives: Consortium on Beta Cell Death and Survival (CBDS), Consortium on Human Islet Biomimetics (CHIB), Consortium on Modeling Autoimmune Interactions (CMAI), Consortium on Targeting and Regeneration (CTAR), and Human Pancreas Analysis Program (HPAP).

Abbreviations: HIRN

Synonyms: Human Islet Research Network

Resource Type: data or information resource, topical portal, disease-related portal, portal

Keywords: islet, human, consortia, functional loss, beta cell, research network, funding resource

Related Condition: Type 1 diabetes, Diabetes

Funding: NIDDK

Resource Name: Human Islet Research Network (HIRN)

Resource ID: SCR_014393

Record Creation Time: 20220129T080320+0000

Record Last Update: 20250429T055639+0000

Ratings and Alerts

No rating or validation information has been found for Human Islet Research Network (HIRN) .

No alerts have been found for Human Islet Research Network (HIRN) .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 173 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Huber MK, et al. (2025) Beta cell dysfunction occurs independently of insulitis in type 1 diabetes pathogenesis. bioRxiv : the preprint server for biology.

Mummey HM, et al. (2024) Single cell multiome profiling of pancreatic islets reveals physiological changes in cell type-specific regulation associated with diabetes risk. bioRxiv : the preprint server for biology.

Patil AR, et al. (2024) Modeling type 1 diabetes progression using machine learning and single-cell transcriptomic measurements in human islets. Cell reports. Medicine, 5(5), 101535.

Ewald JD, et al. (2024) HumanIslets: An integrated platform for human islet data access and analysis. bioRxiv : the preprint server for biology.

Liu X, et al. (2024) TMEM55A-mediated PI5P signaling regulates ?-cell actin depolymerization and glucagon secretion. bioRxiv : the preprint server for biology.

Balasenthilkumaran NV, et al. (2024) Network approach reveals preferential T-cell and macrophage association with ?-linked ?-cells in early stage of insulitis in NOD mice. Frontiers in network physiology, 4, 1393397.

Golden GJ, et al. (2024) Immune perturbations in human pancreas lymphatic tissues prior to and after type 1 diabetes onset. bioRxiv : the preprint server for biology.

Manji J, et al. (2024) Exploring Transcriptional Regulation of Beta Cell SASP by Brd4-Associated Proteins and Cell Cycle Control Protein p21. Epigenomes, 8(1).

Raval K, et al. (2024) Dysfunctional ?-cell longevity in diabetes relies on energy conservation and positive epistasis. Life science alliance, 7(12).

Barra JM, et al. (2024) Combinatorial genetic engineering strategy for immune protection of stem cell-derived beta cells by chimeric antigen receptor regulatory T cells. Cell reports, 43(11), 114994.

Robertson CC, et al. (2024) Untangling the genetics of beta cell dysfunction and death in type 1 diabetes. Molecular metabolism, 86, 101973.

Maestas MM, et al. (2024) Identification of unique cell type responses in pancreatic islets to stress. Nature communications, 15(1), 5567.

Qadir MMF, et al. (2024) Sex-specific regulatory architecture of pancreatic islets from subjects with and without type 2 diabetes. The EMBO journal, 43(24), 6364.

Golson ML, et al. (2024) Pancreatic ? Cells: An Overlooked Cell in Focus. Advances in anatomy, embryology, and cell biology, 239, 141.

Mongia A, et al. (2024) AnnoSpat annotates cell types and quantifies cellular arrangements from spatial proteomics. Nature communications, 15(1), 3744.

Knebel UE, et al. (2024) Disrupted RNA editing in beta cells mimics early-stage type 1 diabetes. Cell metabolism, 36(1), 48.

Drawshy Z, et al. (2024) DNA Methylation-Based Assessment of Cell Composition in Human Pancreas and Islets. Diabetes, 73(4), 554.

Xie G, et al. (2024) NKX2-2 based nuclei sorting on frozen human archival pancreas enables the enrichment of islet endocrine populations for single-nucleus RNA sequencing. BMC genomics, 25(1), 427.

Eisenberg JD, et al. (2024) Three-dimensional imaging of the enteric nervous system in human pediatric colon reveals new features of Hirschsprung disease. Gastroenterology.

Balasenthilkumaran NV, et al. (2024) Network approach reveals preferential T-cell and macrophage association with ?-linked ?-cells in early stage of insulitis in NOD mice. bioRxiv : the preprint server for biology.