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

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: 20260805T044326+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 222 mentions in open access literature.

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

Préfontaine C, et al. (2026) Insulin production is sustained during DNA damage-mediated senescence in adult human beta cells. Diabetologia, 69(2), 421.

Onengut-Gumuscu S, et al. (2025) Type 1 Diabetes Genetics Consortium. The Journal of clinical endocrinology and metabolism, 110(6), 1505.

Huber MK, et al. (2025) Beta cell dysfunction occurs independently of insulitis in type 1 diabetes pathogenesis. Cell reports, 44(9), 116174.

Schukarucha Gomes A, et al. (2025) Molecular correlates of glycine receptor activity in human ? cells. Molecular metabolism, 96, 102156.

Virgilio E, et al. (2025) Recessive TMEM167A variants cause neonatal diabetes, microcephaly, and epilepsy syndrome. The Journal of clinical investigation, 135(22).

Niederlova V, et al. (2025) Imbalance of stem-like and effector T cell states in children with early type 1 diabetes across conventional and regulatory subsets. Nature communications, 16(1), 11301.

Varghese SS, et al. (2025) Developmental control of DNA damage responses in ?- and ?-cells shapes the selective beta-cell susceptibility in diabetes. bioRxiv : the preprint server for biology.

Castro-Gutierrez R, et al. (2025) A Recombinase-Mediated Cassette Exchange Platform for a Triple Independent Inducible Expression System for Human Pluripotent Stem Cells. Cells, 14(3).

Melton R, et al. (2025) Single-cell multiome and spatial profiling reveals pancreas cell type-specific gene regulatory programs driving type 1 diabetes progression. bioRxiv : the preprint server for biology.

Roman J, et al. (2025) Functional and Mechanistic Explanation for the Unique Clinical Success of the Glucokinase Activator Dorzagliatin in the Treatment of Type 2 Diabetes. Diabetes, 74(8), 1374.

Medina-Serpas MA, et al. (2025) Spatial transcriptomics from pancreas and local draining lymph node tissue reveals a lymphotoxin-? signature in human type 1 diabetes. bioRxiv : the preprint server for biology.

Lazimi CS, et al. (2025) Efficient transduction of pancreas tissue slices with genetically encoded calcium integrators. bioRxiv : the preprint server for biology.

Manduchi E, et al. (2025) Epigenetic adaptation of beta cells across lifespan and disease: age-related demethylation is advanced in type 2 diabetes. bioRxiv : the preprint server for biology.

Melton R, et al. (2025) Single-cell multiome and spatial profiling reveals pancreas cell type-specific gene regulatory programs of type 1 diabetes progression. Science advances, 11(37), eady0080.

Zhu W, et al. (2025) SEL1L-HRD1 ER-Associated Degradation Facilitates Prohormone Convertase 2 Maturation and Glucagon Production in Islet ? Cells. bioRxiv : the preprint server for biology.

Golden GJ, et al. (2025) Immune perturbations in human pancreas lymphatic tissues prior to and after type 1 diabetes onset. Nature communications, 16(1), 4621.

Dos Santos T, et al. (2025) Altered immune and metabolic molecular pathways drive islet cell dysfunction in human type 1 diabetes. The Journal of clinical investigation, 135(23).

Nanaware PP, et al. (2025) The antigen presentation landscape of cytokine-stressed human pancreatic islets. Cell reports, 44(8), 115927.

Masschelin PM, et al. (2025) Islet single-cell transcriptomic profiling during obesity-induced beta cell expansion in female mice. iScience, 28(3), 112031.

Becker MW, et al. (2025) Inhibition of cell-mediated immunity in type 1 diabetes by beta cell-targeted PD-1 agonists in pancreas tissue slices. bioRxiv : the preprint server for biology.