Resource Summary Report

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HIRN Human Pancreas Analysis Program

RRID:SCR_016202
Type: Tool

Proper Citation

HIRN Human Pancreas Analysis Program (RRID:SCR_016202)

Resource Information

URL: https://hpap.pmacs.upenn.edu

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Description: Program is performing deep phenotyping of human endocrine pancreas and its interaction with immune system to better understand cellular and molecular events that precede and lead to beta cell loss in Type-1 Diabetes (T1D) and islet dysfunction in Type-2 Diabetes (T2D).

Abbreviations: HIRN-HPAP, HPAP

Synonyms: Human Pancreas Analysis Program (HIRN-HPAP), PANC-DB

Resource Type: data or information resource, database

Defining Citation: PMID:31127054

Keywords: pancreas, endocrinology, immunology, molecular, biology, human, t1d, beta, cell

Related Condition: Type 1 diabetes, Diabetes

Funding: NIDDK ;
NIDDK U01 DK104162;
NIDDK UC4 DK112217;
NIDDK UC4 DK112232

Resource Name: HIRN Human Pancreas Analysis Program

Resource ID: SCR_016202

Old URLs: https://hirnetwork.org/consortium/hpap

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260821T194040+0000

Ratings and Alerts

No rating or validation information has been found for HIRN Human Pancreas Analysis Program.

No alerts have been found for HIRN Human Pancreas Analysis Program.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 152 mentions in open access literature.

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

Sato G, et al. (2026) Genetic regulation across germline and somatic variation on the Y chromosome contributes to type 2 diabetes. Nature medicine, 32(3), 894.

Fuentes-Páez G, et al. (2026) SPICEY: an R package for quantifying tissue specificity from single cell multi-omics data. BMC bioinformatics, 27(1).

Wagner MR, et al. (2026) Stromal and Neuronal Sources of Slit2/3 Ligands in the Adult Pancreas Exhibit Distinct Expression Patterns Independent of Robo2 Receptor Expression in the Islet. bioRxiv : the preprint server for biology.

Singh S, et al. (2026) Temporal single-cell transcriptional dynamics of murine pancreatic islet remodeling during hyperglycaemia progression. Molecular metabolism, 110, 102387.

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

Yu G, et al. (2026) Activated Human Pancreatic Stellate Cells SignatureCommunication in Type 1 Diabetes. Research square.

Roy J, et al. (2026) Synthetic Immunological Niche Reveals Early Immune Dysregulation and Stratifies Therapeutic Response in Type 1 Diabetes. bioRxiv : the preprint server for biology.

Benhayon H, et al. (2026) A web tool for easy and versatile analysis of human endocrine pancreas single-cell RNAseq data. Diabetes, obesity & metabolism, 28(2), 1545.

Chung RH, et al. (2026) Elucidating the Epigenetic Landscape of Type 2 Diabetes Mellitus: A Multi-Omics Analysis Revealing Novel CpG Sites and Their Association with Cardiometabolic Traits. Diabetes & metabolism journal, 50(1), 153.

Chen SY, et al. (2026) Biological sex affects human islet gene expression and mitochondrial function in type 2 diabetes. Endocrinology, 167(5).

Ma Q, et al. (2026) Zinc accumulation-induced integrated stress response triggers ?-cell identity loss. Cell research, 36(5), 359.

Zhu W, et al. (2026) SEL1L-HRD1 ER-associated degradation facilitates prohormone convertase 2 maturation and glucagon production in islet ? cells. Nature communications, 17(1).

Medina-Serpas MA, et al. (2026) Spatial transcriptomics from pancreas and local draining lymph node tissue reveals a lymphotoxin-? signature in human type 1 diabetes. Cell reports, 45(4), 117144.

Erdem N, et al. (2026) Human pancreatic ductal cells from non-diabetic donors function as non-professional antigen-presenting cells upon inflammatory cytokine exposure. Diabetologia, 69(8), 2323.

Evans-Molina C, et al. (2026) Heterogeneous endocrine cell composition defines human islet functional phenotypes. Nature communications, 17(1).

Bechi Genzano C, et al. (2026) Modeling immune responses to autologous and allogeneic human stem cell-derived islet grafts in vivo. JCI insight, 11(11).

Nam Y, et al. (2026) Cellular immunology data enable clinical severity prediction via supervised machine learning. iScience, 29(6), 116343.

Sellick K, et al. (2026) ?-cell SLC38A5 supports amino acid-induced ?-cell proliferation and glucagon secretion. Frontiers in endocrinology, 17, 1830329.

Martin-Vazquez E, et al. (2026) From bats to humans: uncovering ISG15 as a new resistance factor in type 1 diabetes. bioRxiv : the preprint server for biology.

Manduchi E, et al. (2026) Epigenetic adaptation of beta cells across lifespan and disease. Nature metabolism, 8(4), 941.