

Resource Summary Report

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HumanIslets

RRID:SCR_025719

Type: Tool

Proper Citation

HumanIslets (RRID:SCR_025719)

Resource Information

URL: <https://www.humanislets.com/>

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Description: Data visualization portal for HumanIslets project. Integrated platform for human islet data access and analysis. Includes data on human islet donors, allows users to access linked datasets describing molecular profiles, islet function and donor phenotypes, and to perform various statistical and functional analyses at donor, islet and single-cell levels. Provides set of resources and tools to support metabolism and diabetes research community.

Resource Type: data or information resource, portal, project portal

Defining Citation: [PMID:38948734](#)

Keywords: human islet data, data access and analysis, molecular profiles, islet function, donor phenotypes, metabolism, diabetes

Funding: BC Knowledge Development Fund ;
BCCHRI Child Health Integrative Partnership Strategy Funding ;
Canada Foundation for Innovation ;
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Genome Canada ;
NIDDK U01 DK 120447;
NIDDK U01-DK-123716;
NIDDK U01-DK085545;
NIDDK U01-DK105535;
NIDDK UM-1DK126185;
UBC Life Sciences Institute ;
Wellcome Trust

Availability: Free, Freely available

Resource Name: HumanIslets

Resource ID: SCR_025719

Record Creation Time: 20240913T053239+0000

Record Last Update: 20260904T001007+0000

Ratings and Alerts

No rating or validation information has been found for HumanIslets.

No alerts have been found for HumanIslets.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Panzer JK, et al. (2026) Paracrine inhibition via G protein inwardly rectifying potassium channels regulates glucagon secretion from human pancreatic alpha cells. Cell reports, 45(3), 117068.

Hoyeck MP, et al. (2026) Persistent organic pollutant concentrations in human pancreas correlate with markers of beta cell dysfunction. Nature communications, 17(1).

Lin H, et al. (2026) Branched-chain α -keto acids impair glucose-stimulated insulin secretion in pancreatic β -cells under diabetes by reactivating the LDHA-lactate axis. Nature communications, 17(1).

Liu L, et al. (2025) VAMP8 Is an Endosomal v-SNARE That Supports GLP-1 Receptor Recycling in Pancreatic β -Cells. Diabetes, 74(9), 1577.

Iwasaki K, et al. (2025) A human and mouse subpopulation of senescent β -cells induces pathologic dysfunction through targetable paracrine signaling. bioRxiv : the preprint server for biology.

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

Liu X, et al. (2025) TMEM55A-mediated PI5P signalling regulates alpha cell actin depolymerisation and glucagon secretion. Diabetologia, 68(7), 1509.

Chen YC, et al. (2025) Peptidylglycine alpha-amidating monooxygenase is important in mice for beta-cell cilia formation and insulin secretion but promotes diabetes risk through

beta-cell independent mechanisms. *Molecular metabolism*, 96, 102123.

Cui C, et al. (2025) β cells use both PC1/3 and PC2 to process proglucagon peptides and control insulin secretion. *Science advances*, 11(38), eady8048.

Yamada Y, et al. (2025) Nrf2-and p53-inducible REDD2/DDIT4L/Rtp801L confers pancreatic β -cell dysfunction, leading to glucose intolerance in high-fat diet-fed mice. *The Journal of biological chemistry*, 301(6), 110271.

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).

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

Bayly CL, et al. (2024) An INSULIN and IAPP dual reporter enables tracking of functional maturation of stem cell-derived insulin producing cells. *Molecular metabolism*, 89, 102017.