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Human pancreatic islets from normal and Type 2 diabetic subjects - Study GBCO2160

Genomics Study Specifications

| | |
|----------------------------|---|
| Study Name | Human pancreatic islets from normal and Type 2 diabetic subjects |
| Contact Name | Ronald C Kahn (Joslin Diabetes Center and Harvard Medical School) |
| Publication | http://www.ncbi.nlm.nih.gov/pubmed/16096055 |
| My Strategies | Return to My Strategies page |
| Classification | Tissue expression, surveys and comparisons |
| Links |  Biomaterials Graph  ArrayExpress |
| BCBC Release Date | January 09, 2006 |
| Public Release Date | January 09, 2006 |
| Citation | Gunton JE, Kulkarni RN, Yim S, Okada T, Hawthorne WJ, Tseng YH, Roberson RS, Ricordi C, O'Connell PJ, Gonzalez FJ, Kahn CR. Loss of ARNT/HIF1beta mediates altered gene expression and pancreatic-islet dysfunction in human type 2 diabetes . Cell. 2005. 122:337-49 |

Synopsis

| | | |
|--------------------------|---------|-------------|
| Study Description | Goals | |
| Approaches | Results | Conclusions |
| Related Studies | | |

Human pancreatic islets isolated from 7 people with normal glucose tolerance, and 5 people with type 2 diabetes. All 12 people were organ donors after either cerebrovascular accident or intracerebral haemorrhage. Normals were required to maintain glucose at least 6.1mM in intensive care. Diabetic subjects were all at least 10 years from diagnosis and not insulin-requiring. For every subject, RNA was isolated, cRNA was made and hybridized to the U133A and U133B Affymetrix arrays (total of 24 arrays). No samples were pooled.

| | |
|--------------------------|---|
| Platform types | Expression microarray, Expression |
| Platforms | <p>Show platform Affymetrix HG-U133B</p> <p>Show platform Affymetrix HG-U133A</p> |
| Study Design Type | <ul style="list-style-type: none"> disease_state_design |
| Study Factors | Show study factors |
| Study Assays | Show study assays |

Access to Study Data


This Study Data is publicly available to all users.

Gene List(s)


Use the following form(s) to refine the parameters and add the gene list to a strategy:

▼ [Islets from type 2 diabetic individuals versus normal individuals \(microarray HG-U133A\)](#)

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Stoeckert Lab](#)

Resource Tags

Affymetrix HG-U133A, Affymetrix HG-U133B, Akt2 thymoma viral proto-oncogene 2, alpha, ARNT, Arnt, aryl hydrocarbon receptor nuclear translocator, glucose phosphate isomerase, GPI, hepatic nuclear factor 4, HIF1B, HIF1BETA, Hnf4a, Insr, insulin receptor, insulin receptor substrate 2, Irs2

 Login to edit tags

 Read more about tags

Resource History & Actions

Approved on Jan 09, 2006
Last modified on Aug 02, 2011

 Login to edit or request an edit

Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

|Fold Change| Greater Than:

Confidence Level: High Confidence All Results

For a microarray experiment a result with high confidence has a confidence level of at least 80%.

For a ChIP-chip experiment a result with high confidence has a confidence level of at least 90% and all fold changes are positive.

Reference (Denominator): normal

[Find Genes](#)

► Islets from type 2 diabetic individuals versus normal individuals (microarray HG-U133B)

Genome Browser

There are no genome browser tracks currently available for this study.

Lists of Locations

There are no genomic location datasets currently available for this study.

Repositories

Stoeckert Lab

[Request this resource](#)

Stock #: *Not provided*
Availability Notes: *Not provided*

Comments

There are no comments for this entry.

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