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Pancreatic Growth after Partial Pancreatectomy and Exendin-4 Treatment - Study GBCO1790

Genomics Study Specifications

Study Name	Pancreatic Growth after Partial Pancreatectomy and Exendin-4 Treatment
Contact Name	Doris A. Stoffers (University of Pennsylvania)
Publication	http://www.ncbi.nlm.nih.gov/pubmed/16410542
My Strategies	Return to My Strategies page
Classification	Pancreas development and growth
Links	 Biomaterials Graph  ArrayExpress
BCBC Release Date	July 13, 2005
Public Release Date	July 13, 2005
Citation	De León DD, Farzad C, Crutchlow MF, Brestelli J, Tobias J, Kaestner KH, Stoffers DA. Identification of transcriptional targets during pancreatic growth after partial pancreatectomy and exendin-4 treatment. <i>Physiol Genomics.</i> 2006. 24:133-43

Synopsis**Study Description**

Goals

Approaches

Results

Conclusions

Related Studies

Diabetes mellitus results from an inadequately functioning beta-cell mass. In the adult pancreas, beta-cell mass is dynamic, increasing to meet metabolic demands and decreasing with metabolic or injury insults. Exendin-4 (Ex-4) is a glucagon-like peptide-1 receptor agonist that augments beta-cell mass by increasing beta-cell neogenesis and proliferation and by reducing apoptosis. We utilized a cDNA microarray approach to identify genes that are differentially regulated during islet growth after Ex-4 treatment or a partial pancreatectomy (Ppx). Mice underwent 50% Ppx or sham operation and received Ex-4 or vehicle every 24 hours. cDNA prepared from total pancreatic RNA isolated at 12, 24 and 48 hrs after surgery was hybridized to the PancChip 4.0 microarray.


Platform types	Expression, Expression microarray
Platforms	Show platform Mouse PancChip
Study Design Type	<ul style="list-style-type: none"> compound_treatment_design reference_design stimulus_or_stress_design time_series_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)

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository


Primary contributor: [Stoffers Lab](#)

Co-contributed by:

- [Stoeckert Lab](#)

Resource Tags

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Resource History & Actions

Approved on Jul 13, 2005
Last modified on Aug 02, 2011

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Related resources

BCBC

No matching resources

Other Consortia

No matching resources

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

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

Pancreatectomy/Vehicle versus Sham/Vehicle - Mouse Pancreas 12 hour

|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): Sham Vehicle 12HR

- ▶ Pancreatectomy/Exendin-4 versus Pancreatectomy/Vehicle - Mouse Pancreas 12 hour
- ▶ Pancreatectomy/Vehicle versus Sham/Vehicle - Mouse Pancreas 24 hour
- ▶ Sham/Exendin-4 versus Sham/Vehicle - Mouse Pancreas 24 hour
- ▶ Pancreatectomy/Vehicle versus Sham/Vehicle - Mouse Pancreas 48 hour
- ▶ Sham/Exendin-4 versus Sham/Vehicle - Mouse Pancreas 12 hour
- ▶ Pancreatectomy/Exendin-4 versus Pancreatectomy/Vehicle - Mouse Pancreas 24 hour
- ▶ Pancreatectomy/Exendin-4 versus Pancreatectomy/Vehicle - Mouse Pancreas 48 hour
- ▶ Sham/Exendin-4 versus Sham/Vehicle - Mouse Pancreas 48 hour

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


Stoffers Lab

 Request this resource

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

Comments

There are no comments for this entry.

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