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Cyclophosphamide-induced beta Cell Destruction in NOD Mice - Study GBCO2000

Genomics Study Specifications

Study Name	Cyclophosphamide-induced beta Cell Destruction in NOD Mice
Contact Name	Christophe Benoist (Joslin Diabetes Center and Harvard Medical School)
Publication	http://www.ncbi.nlm.nih.gov/pubmed/15331540
My Strategies	Return to My Strategies page
Classification	Islet/beta-cell stimulation/injury; Cell stimulation/injury
Links	Biomaterials Graph
BCBC Release Date	October 19, 2005
Public Release Date	October 19, 2005
Citation	Matos M, Park R, Mathis D, Benoist C. Progression to islet destruction in a cyclophosphamide-induced transgenic model: a microarray overview. Diabetes. 2004. 53:2310-21
Synopsis	Study Description | Goals | Approaches | Results | Conclusions | Related Studies Type 1 diabetes appears to progress in a highly regulated manner and insulitis can persist for long periods of time before the terminal destruction of beta cells. To study the final stage of diabetogenesis, BDC2.5/NOD mice were treated with cyclophosphamide to induce type 1 diabetes. Pancreatic islets were analyzed using the Affymetrix MU74v2A microarray platform before treatment (Eight Samples at Day 0) and as treatment progressed (Four Samples at Day 1, Three Samples at Day 2, and Three Samples at Day 3).
Platform types	Expression microarray, Expression
Platforms	Show platform Affymetrix MG_U74A
Study Design Type	• compound_treatment_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)

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

Pancreatic islets treated for 1 day with Cyclophosphamide versus untreated pancreatic islets

Access Status

This resource is publicly viewable.

Request this Resource

Request from a repository

Primary contributor: Stoeckert Lab

Resource Tags

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Resource History & Actions

Approved on Oct 19, 2005
Last modified on Jan 17, 2012

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: 1.5

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): Day 0

Find Genes

Pancreatic islets treated for 2 days with Cyclophosphamide versus untreated pancreatic islets

Pancreatic islets treated for 3 days with Cyclophosphamide versus untreated pancreatic islets

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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