

My Account

Login
Create Account

Resources

View All (813)
Adenoviruses (137)
Antibodies (175)
Bioimages (67)
Genomics Studies (145)
mESC Lines (68)
Mouse Strains (120)
Miscellaneous (46)
Protocols (55)
Research Data (4)
Resource Tags (389)
Visualization (9)



Research & Cores

Core Facilities (5)
Research Highlights (5)
Research Networks
Research Objectives

Information

About the BCBC
BCBC Events
Branding & Logos
Career Opportunities
Health
NIH hESC Registry
Policies & Guidelines
Member Publications
Research Programs
Research Investigators
Member Directory
Tutorials

Lipotoxicity Study of Rat INS1 cell lines - Study GBCO990**Genomics Study Specifications**

Study Name	Lipotoxicity Study of Rat INS1 cell lines
Contact Name	Klaus Kaestner (University of Pennsylvania)
Publication	http://www.ncbi.nlm.nih.gov/pubmed/17185391
My Strategies	Return to My Strategies page
Classification	Islet/beta-cell stimulation/injury; Cell stimulation/injury
Links	 Biomaterials Graph  ArrayExpress
BCBC Release Date	February 18, 2004
Public Release Date	February 18, 2004
Citation	Hardy OT, Hohmeier HE, Becker TC, Manduchi E, Doliba NM, Gupta RK, White P, Stoeckert CJ, Matschinsky FM, Newgard CB, Kaestner KH. Functional genomics of the beta-cell: short-chain 3-hydroxyacyl-coenzyme A dehydrogenase regulates insulin secretion independent of K+ currents. Mol Endocrinol. 2007. 21:765-73

Synopsis

Study Description	Goals	
Approaches	Results	Conclusions
Related Studies		

This experiment was designed to study the effects of lipid culture on INS-1 derived glucose-responsive 832/13 cells. After 48-hr culture with lipids, a dramatic decrease in glucose-responsiveness is observed. In order to detect some earlier changes, RNA was also collected at earlier time points (12hr and 24hr). To compensate for any changes associated with cell density, control cells (1%BSA culture) were included for each time point. RNA was prepared from INS-1 cells in Dr. Chris Newgard's lab, quantified and sent frozen in water. Six biological replicates were sent for the following conditions: (i) 1%BSA (12, 24, and 48 Hours) (ii) 1mM-Oleate/Palmitate (12, 24, and 48 Hours)

Platform types	Expression microarray, Expression
Platforms	Show platform Mouse PancChip
Study Design Type	<ul style="list-style-type: none"> growth_condition_design reference_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:

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Kaestner Lab](#)


Co-contributed by:

- [Stoeckert Lab](#)

Resource Tags


Ins1

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Resource History & Actions

Approved on Feb 18, 2004
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.

Rat INS1 Cells Cultured for 12 hours - 1mM-Oleate/Palmitate versus 1%BSA

|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): 1 percent BSA - 12HR

Rat INS1 Cells Cultured for 24 hours - 1mM-Oleate/Palmitate versus 1%BSA

Rat INS1 Cells Cultured for 48 hours - 1mM-Oleate/Palmitate versus 1%BSA

Genome Browser

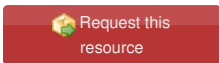
There are no genome browser tracks currently available for this study.

Lists of Locations

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

Repositories

Kaestner Lab



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

Comments

There are no comments for this entry.

