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

Effects of low or high concentrations of monothioglycerol on human embryonic stem cell derived EBs - Study GBCO3668

Genomics Study Specifications

Study Name	Effects of low or high concentrations of monothioglycerol on human embryonic stem cell derived EBs
Contact Name	Teresa Ku (Beckman Research Institute of the City of Hope)
Publication	Not provided
My Strategies	Return to My Strategies page
Classification	Cell differentiation
Links	Biomaterials Graph ArrayExpress
BCBC Release Date	August 11, 2009
Public Release Date	July 29, 2011
Citation	*unavailable*
Synopsis	Study Description | Goals | Approaches | Results | Conclusions | Related Studies Prior studies indicated that high concentrations of monothioglycerol (MTG), a thio-containing compound, is necessary to promote the survival or differentiation of insulin 1 expressing cells from murine ES-derived embryonic bodies (EBs). In this experiment, we tested the hypothesis that human ES cell-derived EBs, when cultured in the presence of high concentrations of MTG could preferentially differentiate to definitive endoderm, compared to those cultured in the presence of low concentrations of MTG. In addition, we wish to establish that the EBs cultured from the high MTG group is effectively committed to all 3 germ layers, compared to the undifferentiated ES cells. Thus, 3 groups of samples were submitted for micro-array analyses. Each group has 4 biological replicates.
Platform types	Expression microarray, Expression
Platforms	Show platform Agilent Whole Human Genome Microarray 4x44K [G4112F]
Study Design Type	• compound_treatment_design • development_or_differentiation_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:

High MTG treated versus undifferentiated HESC

Access Status

This resource is publicly viewable.

Request this Resource

Request from a repository

Primary contributor: Ku Lab

Resource Tags

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Resource History & Actions

Approved on Aug 11, 2009
Last modified on Aug 02, 2011

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No matching resources

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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): undiff HESC

Find Genes

Low MTG treated versus undifferentiated HESC

High versus Low MTG treated HESC

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

Ku Lab

Request this resource

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

Comments

There are no comments for this entry.

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