

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

Microarray analysis of in vitro differentiation of adult human pancreatic progenitor cells - Study GBCO870

Genomics Study Specifications

Study Name	Microarray analysis of in vitro differentiation of adult human pancreatic progenitor cells
Contact Name	Joel F. Habener (Massachusetts General Hospital/HHMI)
Publication	Not provided
My Strategies	Return to My Strategies page
Classification	Cell differentiation; Differentiation of insulin-producing cells
Links	 Biomaterials Graph  ArrayExpress
BCBC Release Date	January 30, 2004
Public Release Date	January 30, 2004
Citation	<i>unavailable</i>

Synopsis**Study Description**

Goals

Approaches

Results

Conclusions

Related Studies


We have developed an in vitro culture system that allows us to expand progenitor cells from human islet preparations and differentiate them into insulin-producing cells. We noticed however, that cultures from individual islet preparations had very heterogeneous outcomes, from good differentiation to almost none. We therefore speculated that our progenitor cell cultures contained different kinds of cells and that the true endocrine progenitor cells are present in the successful cultures, but not in the unsuccessful ones. To address this issue and to begin to identify markers for the true endocrine progenitor cells we compared global gene expression between a very successful culture (final insulin-expression 10% of islets) and an unsuccessful one (final insulin-expression 0%). We also included RNA from freshly isolated islets for control purposes. The cultures from donor A yielded substantial differentiation, while the cultures from donor B showed no successful differentiation.

Platform types	Expression microarray, Expression
Platforms	Show platform Affymetrix HG_U95A
Study Design Type	<ul style="list-style-type: none"> cell_type_comparison_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.

Access Status

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Stoeckert Lab](#)

Resource Tags

 Login to edit tags

 [Read more about tags](#)

Resource History & Actions

Approved on Jan 30, 2004
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.

Gene List(s)

There are no gene lists currently available for this study.

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.

 Login to add comments

[Home](#) · [Your Account](#) · [News & Events](#) · [Resources](#) · [Policies & Guidelines](#) · [About Us](#) · [FAQ](#) · [Site Map](#)

© 2002-2015 Beta Cell Biology Consortium - All Rights Reserved. [Terms of usage and disclaimer.](#)

