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

### Genomics Study Specifications

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

**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.

<b>Platform types</b>	Expression microarray, Expression
<b>Platforms</b>	<a href="#">Show platform Affymetrix HG_U95A</a>
<b>Study Design Type</b>	<ul style="list-style-type: none"> <li>• cell_type_comparison_design</li> <li>• development_or_differentiation_design</li> </ul>
<b>Study Factors</b>	<a href="#">Show study factors</a>
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### 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: [Stoekert Lab](#)

### Resource Tags

Login to edit tags

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### 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)

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*There are no gene lists currently available for this study.*

### Genome Browser

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

### Lists of Locations


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

### Repositories

---

Stoeckert Lab

 Request this resource

**Stock #:** *Not provided*


**Availability Notes:** *Not provided*

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### Comments

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*There are no comments for this entry.*

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