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Ngn3-mediated differentiation of mouse embryonic stem cells into endocrine pancreas progenitors. - Study GBCO3425

Genomics Study Specifications

Study Name	Ngn3-mediated differentiation of mouse embryonic stem cells into endocrine pancreas progenitors.
Contact Name	Anthony Gavalas (MRC Clinical Sciences Centre Hammersmith Campus)
Publication	http://www.ncbi.nlm.nih.gov/pubmed/17932425
My Strategies	Return to My Strategies page
Classification	Cell differentiation; Targets and roles of transcriptional regulators; Differentiation of insulin-producing cells
Links	 Biomaterials Graph  ArrayExpress
BCBC Release Date	September 23, 2008
Public Release Date	September 23, 2008
Citation	Serafimidis I, Rakatzi I, Episkopou V, Gouti M, Gavalas A. Novel effectors of directed and Ngn3-mediated differentiation of mouse embryonic stem cells into endocrine pancreas progenitors . Stem Cells. 2008. 26:3-16

Synopsis

Study Description	Goals	
Approaches	Results	Conclusions
Related Studies		

A mouse embryonic stem cell line was generated which stably expressed the ngn3 transcription factor under the control of the Tet-On inducible system using knock-ins in the ROSA26 and the HPRT loci. The undifferentiated mouse embryonic stem cells were then differentiated into Embryoid Bodies in suspension culture and were either treated with Doxycycline to induce NGN3 expression or left untreated as a control. Cells were harvested at 12 hours, 24 hours and 48 hours.

Platform types	Expression, Expression microarray
Platforms	Show platform Affymetrix MOE430A
Study Design Type	<ul style="list-style-type: none"> 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)


Browse related gene lists by clicking on the link(s) below:

[NGN3 Induced vs. Uninduced Mm ESC](#)

Access Status

 This resource is publicly viewable.


Request this Resource

 Request from a repository

Primary contributor: [Stoeckert Lab](#)

Resource Tags

Affymetrix MOE430A, Dll1 delta-like 1 (Drosophila), IA-1, Insm1, insulinoma-associated 1, locus 2 (Drosophila), Neurod, Neurod1, Neurog3, neurogenic differentiation 1, neurogenin 3, ngn3, Ngn3, ngn3 esc, NK2 transcription factor related, Nkx2-2, Nkx2.2, paired box gene 4, Pax4

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Resource History & Actions

Approved on Sep 23, 2008
Last modified on Jan 17, 2012

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Related resources

BCBC

No matching resources

Other Consortia

No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

Genome Browser

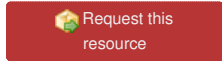
There are no genome browser tracks currently available for this study.

Lists of Locations

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

Repositories

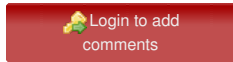
Stoeckert Lab



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

Comments

There are no comments for this entry.



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