

Beta-Cell

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Beta-Cell is engaged in the development and commercialisation of innovative cell and drug therapies for the treatment of diabetes. The primary therapeutic focus of the company is on beta-cells, the highly specialized endocrine cells located in pancreatic islets and responsible for producing insulin. Beta-Cell has an advanced pre-clinical xeno-transplantation program based on its proprietary technologies to isolate and transplant fetal pig pancreatic endocrine (FPPE) cells. As demonstrated by the company, transplanted FPPE cells have the ability to restore normoglycemia in immune competent diabetic mice. Follow-up experiments with FPPE cells in large animal models are in progress. Concurrently, Beta-Cell is conducting research projects aimed at stimulating the proliferation, survival and differentiation of precursor / stem cells into functional beta-cells. In addition to its core programs in beta-cell therapy, the company has adopted a dynamic business strategy to maximize the commercial potential of its different technology platforms. The first product made available in this process is the access to high-quality FPPE cells produced in large amounts under GLP conditions. The company also provides a combination of services using in vitro test systems based on pancreatic islets and endocrine / exocrine cells from rat, pig and human sources to accelerate the identification and validation of novel diabetes drug candidates. The third product currently commercialised by Beta-Cell is a robust murine in vivo model to evaluate drug candidates for the induction of immune suppression or immune tolerance upon xeno-transplantation. Finally, Beta-Cell is active in the development of innovative multiplex detection tools for porcine pathogens.

Recent Publications by Beta-Cell:



- [Clinical Heterogeneity in Monogenic Diabetes Caused by Mutations in the Glucokinase Gene \(GCK-MODY\).](#)

Objective: To evaluate the heterogeneity in the clinical expression in a... 12th November, 2009

IMABIS Foundation and Center for the Study of Pancreatic Beta-cell- Diabetes Care. 2009 Nov 10. (

[DOI Direct Link](#))

- [Susceptibility of pancreatic beta cells to fatty acids is regulated by LXR/PPARalpha-dependent stearyl-coenzyme A desaturase.](#)
*Chronically elevated levels of fatty acids-FA can cause beta cell death in...*30th September, 2009
Diabetes Research Center, Brussels Free University-VUB, and JDRF Center- PLoS One. 2009 Sep 29;4(9):e7266. ([DOI Direct Link](#))
- [Mesenchymal stem cell homing capacity.](#)
*Mesenchymal stem cells (MSCs) are the stromal component of bone marrow...*9th July, 2009
Beta Cell Biology Unit, Diabetes Research Institute, San Raffaele- Transplantation. 2009 May 15;87(9 Suppl):S42-5. ([DOI Direct Link](#))
- [Prevention of atherosclerosis in patients living with HIV.](#)
*INVESTIGATIONAL PRODUCT: Rosuvastatin (Crestor; Astra Zeneca). ACTIVE...*20th June, 2009
General Medicine and Prevention of Vascular Disorders, Beta Cell Diabetes- Vasc Health Risk Manag. 2009;5(1):287-300. Epub 2009 Apr 8.
- [Characterisation of the insulinotropic activity of an aqueous extract of *Gymnema sylvestre* in mouse beta-cells and human islets of Langerhans.](#)
*Leaves of the *Gymnema sylvestre* (GS) plant have been used to treat...*17th June, 2009
Beta Cell Development & Function Group and Division of Gene & Cell Based- Cell Physiol Biochem. 2009;23(1-3):125-32. Epub 2009 Feb 18. ([DOI Direct Link](#))
- [Single-cell RT-PCR identification of genes expressed by human islet endocrine cells.](#)
*Studies of gene expression by different islet endocrine cell populations...*9th June, 2009
Beta Cell Development & Function Group, King's College London, Guy's- Methods Mol Biol. 2009;560:73-86. ([DOI Direct Link](#))
- [Down-regulation of expression and function of nucleoside diphosphate kinase in insulin-secreting beta-cells under in vitro conditions of glucolipotoxicity.](#)
*Previously, we reported a significant reduction in expression and the...*16th April, 2009
Department of Pharmaceutical Sciences, Wayne State University and Beta- Mol Cell Biochem. 2009 Sep;329(1-2):121-9. Epub 2009 Apr 15. ([DOI Direct Link](#))
- [Somatostatin secreted by islet delta-cells fulfills multiple roles as a paracrine regulator of islet function.](#)
*OBJECTIVE: Somatostatin (SST) is secreted by islet delta-cells and by...*1st April, 2009
Beta Cell Development and Function Group, Division of Reproduction and- Diabetes. 2009 Feb;58(2):403-11. Epub 2008 Nov 4. ([DOI Direct Link](#))
- [The beta cell population in type 1 diabetes.](#)
*Type 1 diabetes is often considered as a disease where more than 90% of...*4th March, 2009
Diabetes Research Center at Brussels Free University-VUB, JDRF Center for- Novartis Found Symp. 2008;292:19-24; discussion 24-31, 122-9, 202-3.
- [A role for the extracellular calcium-sensing receptor in cell-cell communication in pancreatic islets of langerhans.](#)
*BACKGROUND: The extracellular calcium-sensing receptor (CaR) is expressed...*12th February, 2009
Beta Cell Development and Function Group, School of Biomedical and Health- Cell Physiol Biochem. 2008;22(5-6):557-66. Epub 2008 Dec 9. ([DOI Direct Link](#))
- [Cell-based treatments for diabetes.](#)
*In Type 1 diabetes mellitus the insulin-secreting beta-cells in pancreatic...*24th January, 2009
Beta Cell Group, Division of Reproduction and Endocrinology, King's- Drug Discov Today. 2008 Oct;13(19-20):888-93. Epub 2008 Aug 4. ([DOI Direct Link](#))
- [Metabolic-inflammatory changes, and accelerated atherosclerosis in HIV patients: rationale for preventative measures.](#)
*Human immunodeficiency virus (HIV)-infected patients are at a...*8th January, 2009
Beta cell Diabetes Centre, Chelsea and Westminster Hospital NHS Foundation- Curr Med Chem. 2008;15(28):2991-9.
- [Restoring a functional beta-cell mass in diabetes.](#)
*Type 1 and type 2 diabetes have often been presented as disease forms that...*17th December, 2008
Diabetes Research Center, Brussels Free University-VUB, JDRF Center for- Diabetes Obes Metab.

2008 Nov;10 Suppl 4:54-62. ([DOI Direct Link](#))

- [Insulin signalling in islets.](#)

Studies in transgenic animals, rodent insulin-secreting cell lines and... 4th November, 2008
Beta Cell Development & Function Group, King's College London, London, UK.- Biochem Soc Trans.
2008 Jun;36(Pt 3):290-3. ([DOI Direct Link](#))

- [Rapamycin monotherapy in patients with type 1 diabetes modifies CD4+CD25+FOXP3+ regulatory T-cells.](#)

OBJECTIVE: Rapamycin is an immunosuppressive drug currently used to... 2nd October, 2008
Telethon-Juvenile Diabetes Research Foundation Center for Beta Cell- Diabetes. 2008
Sep;57(9):2341-7. Epub 2008 Jun 16. ([DOI Direct Link](#))

Press Releases on Beta-Cell:

Cell Therapeutics Wins Federal Appeal to Pursue \$22.8 Million Claim Against The Lash Group	20th November, 2009	Cell Therapeutics, Inc.	SEATTLE, Nov. 20 /PRNewswire-FirstCall/ -- Cell Therapeutics, Inc. (CTI) (Nasdaq and MTA: CTIC) announced today that the Ninth Circuit Court of Appeals reversed a U.S. District Court order and ruled FREMONT, Calif., Nov. 19 /PRNewswire-FirstCall/ -- WaferGen Biosystems, Inc. (OTC Bulletin Board: WGBS), a leading developer of state-of-the-art genetic analysis systems, today announced a new,
WaferGen to Introduce New Service for Gene-Expression Profiling Using the SmartChip(TM) Real-Time PCR System	19th November, 2009	WaferGen Biosystems, Inc.	_____ TOPIC ALERT New Mammogram Guidelines (33 responses) _____ EXPERT ALERTS 1. Law: Challenge of Jackson Estate's Executor Selection May Be Too Late 2. Law: New Law
PROFNET EXPERT ALERTS: New Mammogram Guidelines	18th November, 2009		-- Wise Young, M.D., bv Ph.D., Professor II of Cell Biology & Neuroscience at Rutgers University, and Director of the W. M. Keck Center for Collaborative Neuroscience/The
New Jersey Leaders in Medicine, Biotechnology and Discovery Join Richard Gephardt for 'Best and Brightest Forum on Medical Innovation'	18th November, 2009	Council for American Medical Innovation	

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18th November,

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NEW YORK, Nov. 18

/PRNewswire/ --

Reportlinker.com announces that a new market research report is available in its catalogue.

Biotechnology Reagents - A

Global Market Perspective

<http://www>

BioNews Results for Beta-Cell



- [Mouse gene suppresses Alzheimer's plaques and tangles](#)
Innovations Report: Nov 16 2009 4:41AM Matching: beta cell
- [Mechanism of Insulin Production That can Lead to Better Treatment for Diabetes Discovered](#)
MedIndia: Nov 15 2009 5:47PM Matching: beta cell
- [USC researcher and expert in metabolism to receive Columbia's 2009 Naomi Berrie Award](#)
Genetic Engineering News: Nov 15 2009 11:58AM Matching: beta cell
- [Functional Genetics Announces Discovery of Target That Regulates Alzheimer's Disease](#)
PR-USA.net: Nov 15 2009 12:47PM Matching: beta cell
- [Pioneering Discoveries About The Development Of Cells](#)
Medical News Today: Nov 14 2009 10:14AM Matching: beta cell
- [How Does The Pancreas In An Embryo Know Which Cells Are To Produce Insulin?](#)
Science Daily: Nov 14 2009 5:19AM Matching: beta cell
- [Medical News: Discovery Of Mechanism Of Insulin Production May Lead To Better Treatment For Diabetes](#)
BioFind: Nov 14 2009 12:57PM Matching: beta cell
- [Discovery Of Mechanism Of Insulin Production May Lead To Better Treatment For Diabetes](#)
Medical News Today: Nov 14 2009 8:50AM Matching: beta cell
- [Hebrew University researchers discover insulin production mechanism that could lead to better diabetes treatme](#)
Manufacturing Chemist: Nov 14 2009 2:43AM Matching: beta cell
- [USC researcher and expert in metabolism to receive Columbia's 2009 Naomi Berrie Award](#)
Genetic Engineering News: Nov 14 2009 12:32AM Matching: beta cell
- [Tackle weight gain during insulin therapy](#)
Times of India: Nov 14 2009 6:36AM Matching: beta cell
- [Functional Genetics Announces Discovery of Target That Regulates Alzheimer's Disease](#)
PR.com: Nov 14 2009 8:40AM Matching: beta cell
- [Cequent Files its First IND with FDA: CEQ508, a tkRNAi Drug Candidate in Oncology](#)
PipelineReview: Nov 14 2009 9:31PM Matching: beta cell
- [Cequent Pharmaceuticals Files its First IND with FDA](#)
PharmaceuticalProcessing: Nov 14 2009 5:23PM Matching: beta cell
- [New knowledge of basic science may be applied in future medical treatments](#)
News-Medical.Net: Nov 13 2009 1:42PM Matching: beta cell

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