

Daniel Pipeleers

List of Publications by Citations

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49
papers

1,998
citations

23
h-index

44
g-index

50
ext. papers

2,146
ext. citations

4.6
avg, IF

4.1
L-index

#	Paper	IF	Citations
49	Metabolic fate of glucose in purified islet cells. Glucose-regulated anaplerosis in beta cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18572-9	5.4	319
48	Correlation between beta cell mass and glycemic control in type 1 diabetic recipients of islet cell graft. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17444-9	11.5	146
47	The changes in adenine nucleotides measured in glucose-stimulated rodent islets occur in beta cells but not in alpha cells and are also observed in human islets. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33905-8	5.4	125
46	Pancreatic beta cells in insulin-dependent diabetes. <i>Diabetes/metabolism Reviews</i> , 1992 , 8, 209-27		112
45	Glucose suppresses superoxide generation in metabolically responsive pancreatic beta cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20389-96	5.4	102
44	Glucose-regulated gene expression maintaining the glucose-responsive state of beta-cells. <i>Diabetes</i> , 2002 , 51 Suppl 3, S326-32	0.9	97
43	Critical role for cataplerosis via citrate in glucose-regulated insulin release. <i>Diabetes</i> , 2002 , 51, 2018-24	0.9	96
42	Increased oxygen radical formation and mitochondrial dysfunction mediate beta cell apoptosis under conditions of AMP-activated protein kinase stimulation. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 64-78	7.8	85
41	Composition and function of macroencapsulated human embryonic stem cell-derived implants: comparison with clinical human islet cell grafts. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 307, E838-46	6	78
40	Prolonged culture in low glucose induces apoptosis of rat pancreatic beta-cells through induction of c-myc. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 312, 937-44	3.4	70
39	Endocytosis of low-density lipoprotein by human pancreatic beta cells and uptake in lipid-storing vesicles, which increase with age. <i>American Journal of Pathology</i> , 2000 , 156, 237-44	5.8	54
38	Five cases of somatostatinoma: clinical heterogeneity and diagnostic usefulness of basal and tolbutamide-induced hypersomatostatinemia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1983 , 56, 1236-42	5.6	52
37	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. <i>Transplantation</i> , 2018 , 102, 1223-1229	1.8	47
36	Cellular origin of hexokinase in pancreatic islets. <i>Journal of Biological Chemistry</i> , 1999 , 274, 32803-9	5.4	43
35	Peroxisome proliferator-activated receptor alpha-retinoid X receptor agonists induce beta-cell protection against palmitate toxicity. <i>FEBS Journal</i> , 2007 , 274, 6094-105	5.7	42
34	Human pancreatic duct cells exert tissue factor-dependent procoagulant activity: relevance to islet transplantation. <i>Diabetes</i> , 2004 , 53, 1407-11	0.9	37
33	Akt activation protects pancreatic beta cells from AMPK-mediated death through stimulation of mTOR. <i>Biochemical Pharmacology</i> , 2008 , 75, 1981-93	6	35

32	Immunogenicity of human embryonic stem cell-derived beta cells. <i>Diabetologia</i> , 2017 , 60, 126-133	10.3	32
31	Specificity in beta cell expression of L-3-hydroxyacyl-CoA dehydrogenase, short chain, and potential role in down-regulating insulin release. <i>Journal of Biological Chemistry</i> , 2007 , 282, 21134-44	5.4	30
30	Comparison of sirolimus alone with sirolimus plus tacrolimus in type 1 diabetic recipients of cultured islet cell grafts. <i>Transplantation</i> , 2008 , 85, 256-63	1.8	28
29	Feasibility, safety, and efficacy of percutaneous transhepatic injection of beta-cell grafts. <i>Journal of Vascular and Interventional Radiology</i> , 2005 , 16, 1693-7	2.4	26
28	Proliferation and hypertrophy of liver cells surrounding islet grafts in diabetic recipient rats. <i>Hepatology</i> , 1995 , 21, 1144-1153	11.2	26
27	Potential of protein phosphatase inhibitor 1 as biomarker of pancreatic β cell injury in vitro and in vivo. <i>Diabetes</i> , 2013 , 62, 2683-8	0.9	24
26	Minimal functional β cell mass in intraportal implants that reduces glycemic variability in type 1 diabetic recipients. <i>Diabetes Care</i> , 2013 , 36, 3483-8	14.6	23
25	Glucose, regulator of survival and phenotype of pancreatic beta cells. <i>Vitamins and Hormones</i> , 2009 , 80, 507-39	2.5	22
24	Growth and functional maturation of beta-cells in implants of endocrine cells purified from prenatal porcine pancreas. <i>Diabetes</i> , 2005 , 54, 3387-94	0.9	22
23	Heterogeneity in the Beta-Cell Population: a Guided Search Into Its Significance in Pancreas and in Implants. <i>Current Diabetes Reports</i> , 2017 , 17, 86	5.6	20
22	Comparison of cellular and medium insulin and GABA content as markers for living beta-cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E307-13	6	18
21	Plasma GAD65, a Marker for Early β Cell Loss After Intraportal Islet Cell Transplantation in Diabetic Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 2314-21	5.6	17
20	Damaged rat beta cells discharge glutamate decarboxylase in the extracellular medium. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 228, 293-7	3.4	17
19	The beta cell population in type 1 diabetes. <i>Novartis Foundation Symposium</i> , 2008 , 292, 19-24; discussion 24-31, 122-9, 202-3		16
18	Combining MK626, a novel DPP-4 inhibitor, and low-dose monoclonal CD3 antibody for stable remission of new-onset diabetes in mice. <i>PLoS ONE</i> , 2014 , 9, e107935	3.7	16
17	Boost for Alginate Encapsulation in Beta Cell Transplantation. <i>Trends in Endocrinology and Metabolism</i> , 2016 , 27, 247-248	8.8	15
16	An analytical comparison of three immunoassay platforms for subpicomolar detection of protein biomarker GAD65. <i>PLoS ONE</i> , 2018 , 13, e0193670	3.7	14
15	Combined Analysis of GAD65, miR-375, and Unmethylated Insulin DNA Following Islet Transplantation in Patients With T1D. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 451-460	5.6	12

14	Direct effect of glucocorticoids on glucose-activated adult rat β cells increases their cell number and their functional mass for transplantation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 311, E698-E705	6	10
13	Increase Functional β Cell Mass in Subcutaneous Alginate Capsules With Porcine Prenatal Islet Cells but Loss With Human Adult Islet Cells. <i>Diabetes</i> , 2018 , 67, 2640-2649	0.9	10
12	Development of an Enhanced Sensitivity Bead-Based Immunoassay for Real-Time In Vivo Detection of Pancreatic β Cell Death. <i>Endocrinology</i> , 2015 , 156, 4755-60	4.8	9
11	Serum Cytokines as Biomarkers in Islet Cell Transplantation for Type 1 Diabetes. <i>PLoS ONE</i> , 2016 , 11, e0146649	3.7	9
10	Early alteration of kidney function in nonuremic type 1 diabetic islet transplant recipients under tacrolimus-mycophenolate therapy. <i>Transplantation</i> , 2014 , 98, 451-7	1.8	8
9	Concise Review: Markers for Assessing Human Stem Cell-Derived Implants as β Cell Replacement in Type 1 Diabetes. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1338-1344	6.9	7
8	Glucose regulates rat beta cell number through age-dependent effects on beta cell survival and proliferation. <i>PLoS ONE</i> , 2014 , 9, e85174	3.7	7
7	Predictive factors of allosensitization after immunosuppressant withdrawal in recipients of long-term cultured islet cell grafts. <i>Transplantation</i> , 2013 , 96, 162-9	1.8	5
6	Xenotransplantation of purified pre-natal porcine beta cells in mice normalizes diabetes when a short anti-CD4-CD8 antibody treatment is combined with transient insulin injections. <i>Xenotransplantation</i> , 2006 , 13, 415-22	2.8	5
5	Lower beta cell yield from donor pancreases after controlled circulatory death prevented by shortening acirculatory warm ischemia time and by using IGL-1 cold preservation solution. <i>PLoS ONE</i> , 2021 , 16, e0251055	3.7	5
4	Use of hyperglycemic clamp to assess pancreatectomy and islet cell autotransplant in patient with heterotaxy syndrome and dorsal pancreas agenesis leading to chronic pancreatitis. <i>American Journal of Transplantation</i> , 2020 , 20, 3662-3666	8.7	1
3	Age and Early Graft Function Relate With Risk-Benefit Ratio of Allogenic Islet Transplantation Under Antithymocyte Globulin-Mycophenolate Mofetil-Tacrolimus Immune Suppression. <i>Transplantation</i> , 2017 , 101, 2218-2227	1.8	1
2	Use of Culture to Reach Metabolically Adequate Beta-cell Dose by Combining Donor Islet Cell Isolates for Transplantation in Type 1 Diabetes Patients. <i>Transplantation</i> , 2020 , 104, e295-e302	1.8	1
1	Formation of amyloid in encapsulated human pancreatic and human stem cell-generated beta cell implants. <i>American Journal of Transplantation</i> , 2021 , 21, 2090-2099	8.7	1