Piero Marchetti

List of Publications by Year
in descending order

456 papers	32,496 citations	3731 89 h-index	5829 161 g-index
475 all docs	475 docs citations	475 times ranked	35651 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
2	Bcl-2 inhibits the mitochondrial release of an apoptogenic protease.. Journal of Experimental Medicine, 1996, 184, 1331-1341.	8.5	1,109
3	Mechanisms by which common variants in the TCF7L2 gene increase risk of type 2 diabetes. Journal of Clinical Investigation, 2007, 117, 2155-2163.	8.2	683
4	Common variant in MTNR1B associated with increased risk of type 2 diabetes and impaired early insulin secretion. Nature Genetics, 2009, 41, 82-88.	21.4	642
5	Prolonged Exposure to Free Fatty Acids Has Cytostatic and Pro-Apoptotic Effects on Human Pancreatic Islets. Diabetes, 2002, 51, 1437-1442.	0.6	547
6	NEW-ONSET DIABETES AFTER TRANSPLANTATION: 2003 INTERNATIONAL CONSENSUS GUIDELINES1. Transplantation, 2003, 75, SS3-SS24.	1.0	547
7	Results of an International, Randomized Trial Comparing Glucose Metabolism Disorders and Outcome with Cyclosporine Versus Tacrolimus. American Journal of Transplantation, 2007, 7, 1506-1514.	4.7	530
8	Coxsackie B4 virus infection of Î² cells and natural killer cell insulitis in recent-onset type 1 diabetic patients. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5115-5120.	7.1	521
9	Initiation and execution of lipotoxic ER stress in pancreatic Î²-cells. Journal of Cell Science, 2008, 121, 2308-2318.	2.0	512
10	Evidence of Î²-Cell Dedifferentiation in Human Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 1044-1054.	3.6	438
11	Functional and Molecular Defects of Pancreatic Islets in Human Type 2 Diabetes. Diabetes, 2005, 54, 727-735.	0.6	421
12	Epigenetic regulation of PPARGC1A in human type 2 diabetic islets and effect on insulin secretion. Diabetologia, 2008, 51, 615-622.	6.3	421
13	The Human Pancreatic Islet Transcriptome: Expression of Candidate Genes for Type 1 Diabetes and the Impact of Pro-Inflammatory Cytokines. PLoS Genetics, 2012, 8, e1002552.	3.5	398
14	Beta Cell Hubs Dictate Pancreatic Islet Responses toÂGlucose. Cell Metabolism, 2016, 24, 389-401.	16.2	370
15	The endoplasmic reticulum in pancreatic beta cells of type 2 diabetes patients. Diabetologia, 2007, 50, 2486-2494.	6.3	361
16	Insulin Independence After Islet Transplantation Into Type I Diabetic Patient. Diabetes, 1990, 39, 515-518.	0.6	357
17	DNA methylation profiling identifies epigenetic dysregulation in pancreatic islets from type 2 diabetic patients. EMBO Journal, 2012, 31, 1405-1426.	7.8	355
18	Functional and morphological alterations of mitochondria in pancreatic beta cells from type 2 diabetic patients. Diabetologia, 2005, 48, 282-289.	6.3	322

#	Article	IF	Citations
19	Autophagy in human type 2 diabetes pancreatic beta cells. Diabetologia, 2009, 52, 1083-1086.	6.3	311
20	Pancreatic Islets from Type 2 Diabetic Patients Have Functional Defects and Increased Apoptosis That Are Ameliorated by Metformin. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 5535-5541.	3.6	304
21	High Glucose Causes Apoptosis in Cultured Human Pancreatic Islets of Langerhans. Diabetes, 2001, 50, 1290-1301.	0.6	296
22	Encapsulated islets for diabetes therapy: History, current progress, and critical issues requiring solution. Advanced Drug Delivery Reviews, 2014, 67-68, 35-73.	13.7	263
23	Gene Expression Profiles of Beta-Cell Enriched Tissue Obtained by Laser Capture Microdissection from Subjects with Type 2 Diabetes. PLoS ONE, 2010, 5, e11499.	2.5	252
24	The emerging role of autophagy in the pathophysiology of diabetes mellitus. Autophagy, 2011, 7, 2-11.	9.1	252
25	PK11195, a Ligand of the Mitochondrial Benzodiazepine Receptor, Facilitates the Induction of Apoptosis and Reverses Bcl-2-Mediated Cytoprotection. Experimental Cell Research, 1998, 241, 426-434.	2.6	249
26	Guidelines for the treatment and management of newâ€onset diabetes after transplantation¹. Clinical Transplantation, 2005, 19, 291-298.	1.6	228
27	RNA Sequencing Identifies Dysregulation of the Human Pancreatic Islet Transcriptome by the Saturated Fatty Acid Palmitate. Diabetes, 2014, 63, 1978-1993.	0.6	226
28	A local glucagon-like peptide 1 (GLP-1) system in human pancreatic islets. Diabetologia, 2012, 55, 3262-3272.	6.3	208
29	Lipotoxicity disrupts incretin-regulated human Î² cell connectivity. Journal of Clinical Investigation, 2013, 123, 4182-4194.	8.2	203
30	Glucagon-Like Peptide-1 Agonists Protect Pancreatic Î²-Cells From Lipotoxic Endoplasmic Reticulum Stress Through Upregulation of BiP and JunB. Diabetes, 2009, 58, 2851-2862.	0.6	202
31	Palmitate induces a pro-inflammatory response in human pancreatic islets that mimics CCL2 expression by beta cells in type 2 diabetes. Diabetologia, 2010, 53, 1395-1405.	6.3	200
32	RESULTS OF OUR FIRST NINE INTRAPORTAL ISLET ALLOGRAFTS IN TYPE 1, INSULIN-DEPENDENT DIABETIC PATIENTS. Transplantation, 1991, 51, 76-85.	1.0	185
33	Phasic Insulin Release and Metabolic Regulation in Type 2 Diabetes. Diabetes, 2002, 51, S109-S116.	0.6	183
34	Cytokines induce endoplasmic reticulum stress in human, rat and mouse beta cells via different mechanisms. Diabetologia, 2015, 58, 2307-2316.	6.3	181
35	Peripheral and Islet Interleukin-17 Pathway Activation Characterizes Human Autoimmune Diabetes and Promotes Cytokine-Mediated Î²-Cell Death. Diabetes, 2011, 60, 2112-2119.	0.6	178
36	Reduction of Circulating Neutrophils Precedes and Accompanies Type 1 Diabetes. Diabetes, 2013, 62, 2072-2077.	0.6	177

#	ARTICLE	IF	CITATIONS
37	Conventional and Neo-antigenic Peptides Presented by Î² Cells Are Targeted by Circulating NaÃ¯ve CD8+ T Cells in Type 1 Diabetic and Healthy Donors. Cell Metabolism, 2018, 28, 946-960.e6.	16.2	177
38	Multilayer Nanoencapsulation. New Approach for Immune Protection of Human Pancreatic Islets. Nano Letters, 2006, 6, 1933-1939.	9.1	174
39	Targeting GLP-1 receptor trafficking to improve agonist efficacy. Nature Communications, 2018, 9, 1602.	12.8	162
40	The functionality of mitochondria differentiates human spermatozoa with high and low fertilizing capability. Fertility and Sterility, 2006, 86, 1526-1530.	1.0	161
41	Islet inflammation and CXCL10 in recent-onset type 1 diabetes. Clinical and Experimental Immunology, 2010, 159, 338-343.	2.6	161
42	The E23K Variant of KCNJ11 Encoding the Pancreatic Î²-Cell Adenosine 5â€²-Triphosphate-Sensitive Potassium Channel Subunit Kir6.2 Is Associated with an Increased Risk of Secondary Failure to Sulfonylurea in Patients with Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 2334-2339.	3.6	156
43	Lipotoxicity in Human Pancreatic Islets and the Protective Effect of Metformin. Diabetes, 2002, 51, S134-S137.	0.6	155
44	PTPN2, a Candidate Gene for Type 1 Diabetes, Modulates Interferon-Î³â€"Induced Pancreatic Î²-Cell Apoptosis. Diabetes, 2009, 58, 1283-1291.	0.6	152
45	GLIS3, a Susceptibility Gene for Type 1 and Type 2 Diabetes, Modulates Pancreatic Beta Cell Apoptosis via Regulation of a Splice Variant of the BH3-Only Protein Bim. PLoS Genetics, 2013, 9, e1003532.	3.5	151
46	SARS-CoV-2 Receptor Angiotensin I-Converting Enzyme Type 2 (ACE2) Is Expressed in Human Pancreatic Î²-Cells and in the Human Pancreas Microvasculature. Frontiers in Endocrinology, 2020, 11, 596898.	3.5	144
47	PDL1 is expressed in the islets of people with type 1 diabetes and is up-regulated by interferons-Î± and-Î³ via IRF1 induction. EBioMedicine, 2018, 36, 367-375.	6.1	138
48	Interferon-Î± mediates human beta cell HLA class I overexpression, endoplasmic reticulum stress and apoptosis, three hallmarks of early human type 1 diabetes. Diabetologia, 2017, 60, 656-667.	6.3	135
49	Rosiglitazone prevents the impairment of human islet function induced by fatty acids: evidence for a role of PPARÎ³₂ in the modulation of insulin secretion. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E560-E567.	3.5	134
50	Systems biology of the IMIDIA biobank from organ donors and pancreatectomised patients defines a novel transcriptomic signature of islets from individuals with type 2 diabetes. Diabetologia, 2018, 61, 641-657.	6.3	131
51	Class II Phosphoinositide 3-Kinase Regulates Exocytosis of Insulin Granules in Pancreatic Î² Cells. Journal of Biological Chemistry, 2011, 286, 4216-4225.	3.4	130
52	Leader Î²-cells coordinate Ca2+ dynamics across pancreatic islets in vivo. Nature Metabolism, 2019, 1, 615-629.	11.9	128
53	Encapsulation of pancreatic islets for transplantation in diabetes: the untouchable islets. Trends in Molecular Medicine, 2002, 8, 363-366.	6.7	127
54	<i>PTPN2</i>, a Candidate Gene for Type 1 Diabetes, Modulates Pancreatic Î²-Cell Apoptosis via Regulation of the BH3-Only Protein Bim. Diabetes, 2011, 60, 3279-3288.	0.6	127

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55	MicroRNA-124a is hyperexpressed in type 2 diabetic human pancreatic islets and negatively regulates insulin secretion. Acta Diabetologica, 2015, 52, 523-530.	2.5	127
56	Glucoseâ€•and arginineâ€induced insulin secretion by human pancreatic Î²â€cells: the role of HERG K + channels in firing and release. FASEB Journal, 2000, 14, 2601-2610.	0.5	126
57	A Common Polymorphism in the Promoter of UCP2 Contributes to the Variation in Insulin Secretion in Glucose-Tolerant Subjects. Diabetes, 2003, 52, 1280-1283.	0.6	125
58	ADCY5 Couples Glucose to Insulin Secretion in Human Islets. Diabetes, 2014, 63, 3009-3021.	0.6	124
59	Is There a Role for Locally Produced Interleukin-1 in the Deleterious Effects of High Glucose or the Type 2 Diabetes Milieu to Human Pancreatic Islets?. Diabetes, 2005, 54, 3238-3244.	0.6	118
60	Death Protein 5 and p53-Upregulated Modulator of Apoptosis Mediate the Endoplasmic Reticulum Stressâ€"Mitochondrial Dialog Triggering Lipotoxic Rodent and Human Î²-Cell Apoptosis. Diabetes, 2012, 61, 2763-2775.	0.6	118
61	The impact of proinflammatory cytokines on the Î²-cell regulatory landscape provides insights into the genetics of type 1 diabetes. Nature Genetics, 2019, 51, 1588-1595.	21.4	117
62	Palmitate Activates Autophagy in INS-1E Î²-Cells and in Isolated Rat and Human Pancreatic Islets. PLoS ONE, 2012, 7, e36188.	2.5	116
63	New-onset diabetes after liver transplantation: From pathogenesis to management. Liver Transplantation, 2005, 11, 612-620.	2.4	115
64	Are we overestimating the loss of beta cells in type 2 diabetes?. Diabetologia, 2014, 57, 362-365.	6.3	115
65	C/EBP homologous protein contributes to cytokine-induced pro-inflammatory responses and apoptosis in Î²-cells. Cell Death and Differentiation, 2012, 19, 1836-1846.	11.2	114
66	Loss-of-Function Mutations in APPL1 in Familial Diabetes Mellitus. American Journal of Human Genetics, 2015, 97, 177-185.	6.2	114
67	Hepatitis C Virus Infection and Human Pancreatic Â-Cell Dysfunction. Diabetes Care, 2005, 28, 940-941.	8.6	113
68	Insulin independence after islet transplantation into type I diabetic patient. Diabetes, 1990, 39, 515-518.	0.6	113
69	Selective Actions of Mitochondrial Fission/Fusion Genes on Metabolism-Secretion Coupling in Insulin-releasing Cells. Journal of Biological Chemistry, 2008, 283, 33347-33356.	3.4	111
70	Pancreas transplant alone has beneficial effects on retinopathy in type 1 diabetic patients. Diabetologia, 2006, 49, 2977-2982.	6.3	109
71	p53 Up-regulated Modulator of Apoptosis (PUMA) Activation Contributes to Pancreatic Î²-Cell Apoptosis Induced by Proinflammatory Cytokines and Endoplasmic Reticulum Stress. Journal of Biological Chemistry, 2010, 285, 19910-19920.	3.4	108
72	Optical control of insulin release using a photoswitchable sulfonylurea. Nature Communications, 2014, 5, 5116.	12.8	106

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73	Cx36 makes channels coupling human pancreatic Î²-cells, and correlates with insulin expression. Human Molecular Genetics, 2009, 18, 428-439.	2.9	105
74	Insulin Secretory Function Is Impaired in Isolated Human Islets Carrying the Gly972->Arg IRS-1 Polymorphism. Diabetes, 2002, 51, 1419-1424.	0.6	103
75	Gliclazide protects human islet beta-cells from apoptosis induced by intermittent high glucose. Diabetes/Metabolism Research and Reviews, 2007, 23, 234-238.	4.0	103
76	tRNA Methyltransferase Homolog Gene TRMT10A Mutation in Young Onset Diabetes and Primary Microcephaly in Humans. PLoS Genetics, 2013, 9, e1003888.	3.5	103
77	Mitochondrial and ER-Targeted eCALWY Probes Reveal High Levels of Free Zn²⁺. ACS Chemical Biology, 2014, 9, 2111-2120.	3.4	102
78	New-onset diabetes after transplantation. Journal of Heart and Lung Transplantation, 2004, 23, S194-S201.	0.6	101
79	Sirtuin 3 regulates mouse pancreatic beta cell function and is suppressed in pancreatic islets isolated from human type 2 diabetic patients. Diabetologia, 2013, 56, 1068-1077.	6.3	101
80	An overview of pancreatic beta-cell defects in human type 2 diabetes: Implications for treatment. Regulatory Peptides, 2008, 146, 4-11.	1.9	99
81	<i>TYK2</i>, a Candidate Gene for Type 1 Diabetes, Modulates Apoptosis and the Innate Immune Response in Human Pancreatic Î²-Cells. Diabetes, 2015, 64, 3808-3817.	0.6	98
82	Pilot, Open, Randomized, Prospective Trial for Normothermic Machine Perfusion Evaluation in Liver Transplantation From Older Donors. Liver Transplantation, 2019, 25, 436-449.	2.4	98
83	Beta- and Alpha-Cell Dysfunction in Type 2 Diabetes. Hormone and Metabolic Research, 2004, 36, 775-781.	1.5	97
84	Cytokines Tumor Necrosis Factor-Î± and Interferon-Î³ Induce Pancreatic Î²-Cell Apoptosis through STAT1-mediated Bim Protein Activation. Journal of Biological Chemistry, 2011, 286, 39632-39643.	3.4	96
85	Age- and diet-dependent requirement of DJ-1 for glucose homeostasis in mice with implications for human type 2 diabetes. Journal of Molecular Cell Biology, 2012, 4, 221-230.	3.3	96
86	The Myokine Irisin Is Released in Response to Saturated Fatty Acids and Promotes Pancreatic Î²-Cell Survival and Insulin Secretion. Diabetes, 2017, 66, 2849-2856.	0.6	96
87	Pancreatic Î²-cell tRNA hypomethylation and fragmentation link TRMT10A deficiency with diabetes. Nucleic Acids Research, 2018, 46, 10302-10318.	14.5	93
88	Towards better understanding of the contributions of overwork and glucotoxicity to the Î²â€cell inadequacy of type 2 diabetes. Diabetes, Obesity and Metabolism, 2009, 11, 82-90.	4.4	92
89	<i>BACH2</i>, a Candidate Risk Gene for Type 1 Diabetes, Regulates Apoptosis in Pancreatic Î²-Cells via JNK1 Modulation and Crosstalk With the Candidate Gene <i>PTPN2</i>. Diabetes, 2014, 63, 2516-2527.	0.6	92
90	Effects of pancreas-kidney transplantation on diabetic retinopathy. Transplant International, 2005, 18, 619-622.	1.6	90

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91	Generation and expansion of multipotent mesenchymal progenitor cells from cultured human pancreatic islets. Cell Death and Differentiation, 2007, 14, 1860-1871.	11.2	89
92	Meta-analysis and functional effects of the SLC30A8 rs13266634 polymorphism on isolated human pancreatic islets. Molecular Genetics and Metabolism, 2010, 100, 77-82.	1.1	89
93	The common Arg 972 polymorphism in insulin receptor substrateâ€1 causes apoptosis of human pancreatic islets. FASEB Journal, 2001, 15, 22-24.	0.5	88
94	The Beneficial Effects of Pancreas Transplant Alone on Diabetic Nephropathy. Diabetes Care, 2005, 28, 1366-1370.	8.6	88
95	MicroRNAs miR-23a-3p, miR-23b-3p, and miR-149-5p Regulate the Expression of Proapoptotic BH3-Only Proteins DP5 and PUMA in Human Pancreatic Î²-Cells. Diabetes, 2017, 66, 100-112.	0.6	87
96	An integrated multi-omics approach identifies the landscape of interferon-Î±-mediated responses of human pancreatic beta cells. Nature Communications, 2020, 11, 2584.	12.8	87
97	Central role and mechanisms of Î²â€cell dysfunction and death in friedreich ataxiaâ€“associated diabetes. Annals of Neurology, 2012, 72, 971-982.	5.3	84
98	Pleiotropic Effects of GIP on Islet Function Involve Osteopontin. Diabetes, 2011, 60, 2424-2433.	0.6	83
99	A Technique for Retroperitoneal Pancreas Transplantation with Portal-Enteric Drainage. Transplantation, 2005, 79, 1137-1142.	1.0	81
100	The direct effects of the angiotensin-converting enzyme inhibitors, zofenoprilat and enalaprilat, on isolated human pancreatic islets. European Journal of Endocrinology, 2006, 154, 355-361.	3.7	80
101	Pancreatic Î± Cells are Resistant to Metabolic Stress-induced Apoptosis in Type 2 Diabetes. EBioMedicine, 2015, 2, 378-385.	6.1	80
102	mTORC1-to-AMPK switching underlies Î² cell metabolic plasticity during maturation and diabetes. Journal of Clinical Investigation, 2019, 129, 4124-4137.	8.2	80
103	The metabolic effects of cyclosporin and tacrolimus. Journal of Endocrinological Investigation, 2000, 23, 482-490.	3.3	78
104	Activin A stimulates insulin secretion in cultured human pancreatic islets. Journal of Endocrinological Investigation, 2000, 23, 231-234.	3.3	77
105	Increased O â€glycosylation of insulin signaling proteins results in their impaired activation and enhanced susceptibility to apoptosis in pancreatic Î²â€cells. FASEB Journal, 2004, 18, 959-961.	0.5	77
106	Microarray analysis of isolated human islet transcriptome in type 2 diabetes and the role of the ubiquitinâ€“proteasome system in pancreatic beta cell dysfunction. Molecular and Cellular Endocrinology, 2013, 367, 1-10.	3.2	76
107	Islet infiltration, cytokine expression and beta cell death in the NOD mouse, BB rat, Komeda rat, LEW.1AR1-iddm rat and humans with type 1 diabetes. Diabetologia, 2014, 57, 512-521.	6.3	76
108	Altered Insulin Receptor Signalling and Î²-Cell Cycle Dynamics in Type 2 Diabetes Mellitus. PLoS ONE, 2011, 6, e28050.	2.5	76

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109	Pharmacokinetic-Pharmacodynamic Relationships of Oral Hypoglycaemic Agents. Clinical Pharmacokinetics, 1989, 16, 100-128.	3.5	74
110	The effects of kisspeptin on Î²â€cell function, serum metabolites and appetite in humans. Diabetes, Obesity and Metabolism, 2018, 20, 2800-2810.	4.4	74
111	Laparoscopic Robot-Assisted Pancreas Transplantation. Transplantation, 2012, 93, 201-206.	1.0	73
112	PANCREAS PRESERVATION WITH UNIVERSITY OF WISCONSIN AND CELSIOR SOLUTIONS: A SINGLE-CENTER, PROSPECTIVE, RANDOMIZED PILOT STUDY. Transplantation, 2004, 77, 1186-1190.	1.0	72
113	Effects of prolonged in vitro exposure to sulphonylureas on the function and survival of human islets. Journal of Diabetes and Its Complications, 2005, 19, 60-64.	2.3	71
114	Nova1 is a master regulator of alternative splicing in pancreatic beta cells. Nucleic Acids Research, 2014, 42, 11818-11830.	14.5	71
115	Autoantibodies to CD38 (ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase) in Caucasian patients with diabetes: effects on insulin release from human islets. Diabetes, 1999, 48, 2309-2315.	0.6	70
116	Dipeptidyl peptidase 4 (DPP-4) is expressed in mouse and human islets and its activity is decreased in human islets from individuals with type 2 diabetes. Diabetologia, 2014, 57, 1876-1883.	6.3	69
117	ÃŸâ€cell function and antiâ€diabetic pharmacotherapy. Diabetes/Metabolism Research and Reviews, 2007, 23, 518-527.	4.0	68
118	Pancreatic Beta Cell Identity in Humans and the Role of Type 2 Diabetes. Frontiers in Cell and Developmental Biology, 2017, 5, 55.	3.7	67
119	Modulation of Autophagy Influences the Function and Survival of Human Pancreatic Beta Cells Under Endoplasmic Reticulum Stress Conditions and in Type 2 Diabetes. Frontiers in Endocrinology, 2019, 10, 52.	3.5	67
120	Incretin-Modulated Beta Cell Energetics in Intact Islets of Langerhans. Molecular Endocrinology, 2014, 28, 860-871.	3.7	66
121	Modeling human pancreatic beta cell dedifferentiation. Molecular Metabolism, 2018, 10, 74-86.	6.5	65
122	Phosphoproteomics Reveals the GSK3-PDX1 Axis as a Key Pathogenic Signaling Node in Diabetic Islets. Cell Metabolism, 2019, 29, 1422-1432.e3.	16.2	65
123	Persistent or Transient Human Î² Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. Cell Reports, 2020, 33, 108466.	6.4	65
124	NGF-withdrawal induces apoptosis in pancreatic beta cells in vitro. Diabetologia, 2001, 44, 1281-1295.	6.3	64
125	Activation of the Hexosamine Pathway Leads to Phosphorylation of Insulin Receptor Substrate-1 on Ser307 and Ser612 and Impairs the Phosphatidylinositol 3-Kinase/Akt/Mammalian Target of Rapamycin Insulin Biosynthetic Pathway in RIN Pancreatic Î²-Cells. Endocrinology, 2004, 145, 2845-2857.	2.8	64
126	USP18 is a key regulator of the interferon-driven gene network modulating pancreatic beta cell inflammation and apoptosis. Cell Death and Disease, 2012, 3, e419-e419.	6.3	63

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127	In vitro use of free fatty acids bound to albumin: A comparison of protocols. BioTechniques, 2015, 58, 228-33.	1.8	63
128	AUTOMATED LARGE-SCALE ISOLATION, IN VITRO FUNCTION AND XENOTRANSPLANTATION OF PORCINE ISLETS OF LANGERHANS. Transplantation, 1991, 52, 209-213.	1.0	62
129	Influence of mitochondrial membrane potential of spermatozoa on in vitro fertilisation outcome. Andrologia, 2012, 44, 136-141.	2.1	62
130	Insulin Autoimmune Syndrome (Hirata Disease): A Comprehensive Review Fifty Years After Its First Description . Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2020, Volume 13, 963-978.	2.4	62
131	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. American Journal of Human Genetics, 2017, 100, 238-256.	6.2	60
132	Pro-inflammatory cytokines induce cell death, inflammatory responses, and endoplasmic reticulum stress in human iPSC-derived beta cells. Stem Cell Research and Therapy, 2020, 11, 7.	5.5	60
133	Human Anti-CD38 Autoantibodies Raise Intracellular Calcium and Stimulate Insulin Release in Human Pancreatic Islets. Diabetes, 2001, 50, 985-991.	0.6	59
134	Surgical techniques for pancreas transplantation. Current Opinion in Organ Transplantation, 2010, 15, 102-111.	1.6	59
135	Exendin-4 protects pancreatic beta cells from palmitate-induced apoptosis by interfering with GPR40 and the MKK4/7 stress kinase signalling pathway. Diabetologia, 2013, 56, 2456-2466.	6.3	59
136	Atorvastatin but Not Pravastatin Impairs Mitochondrial Function in Human Pancreatic Islets and Rat Î²-Cells. Direct Effect of Oxidative Stress. Scientific Reports, 2017, 7, 11863.	3.3	59
137	The biguanide compound metformin prevents desensitization of human pancreatic islets induced by high glucose. European Journal of Pharmacology, 1999, 364, 205-209.	3.5	58
138	A simplified technique for the en bloc procurement of abdominal organs that is suitable for pancreas and small-bowel transplantation. Surgery, 2004, 135, 629-641.	1.9	58
139	The<i>TRIB3</i>Q84R Polymorphism and Risk of Early-Onset Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 190-196.	3.6	58
140	Unveiling a common mechanism of apoptosis in Î²-cells and neurons in Friedreich's ataxia. Human Molecular Genetics, 2015, 24, 2274-2286.	2.9	58
141	YIPF5 mutations cause neonatal diabetes and microcephaly through endoplasmic reticulum stress. Journal of Clinical Investigation, 2020, 130, 6338-6353.	8.2	58
142	Exendin-4 Prevents c-Jun N-Terminal Protein Kinase Activation by Tumor Necrosis Factor-Î± (TNFÎ±) and Inhibits TNFÎ±-Induced Apoptosis in Insulin-Secreting Cells. Endocrinology, 2010, 151, 2019-2029.	2.8	56
143	Thrombospondin 1 protects pancreatic Î²-cells from lipotoxicity via the PERKâ€"NRF2 pathway. Cell Death and Differentiation, 2016, 23, 1995-2006.	11.2	56
144	Neuron-enriched RNA-binding Proteins Regulate Pancreatic Beta Cell Function and Survival. Journal of Biological Chemistry, 2017, 292, 3466-3480.	3.4	56

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145	Inflammation-Induced Citrullinated Glucose-Regulated Protein 78 Elicits Immune Responses in Human Type 1 Diabetes. Diabetes, 2018, 67, 2337-2348.	0.6	56
146	Expression and functional assessment of candidate type 2 diabetes susceptibility genes identify four new genes contributing to human insulin secretion. Molecular Metabolism, 2017, 6, 459-470.	6.5	55
147	Pulsatile Insulin Secretion from Isolated Human Pancreatic Islets. Diabetes, 1994, 43, 827-830.	0.6	54
148	The Î²-Cell in Human Type 2 Diabetes. Advances in Experimental Medicine and Biology, 2010, 654, 501-514.	1.6	54
149	Massive Isolation, Morphological and Functional Characterization, and Xenotransplantation of Bovine Pancreatic Islets. Diabetes, 1995, 44, 375-381.	0.6	53
150	Goals of Treatment for Type 2 Diabetes: Â-Cell preservation for glycemic control. Diabetes Care, 2009, 32, S178-S183.	8.6	53
151	The Transcription Factor C/EBP delta Has Anti-Apoptotic and Anti-Inflammatory Roles in Pancreatic Beta Cells. PLoS ONE, 2012, 7, e31062.	2.5	53
152	Virus-like infection induces human Î² cell dedifferentiation. JCI Insight, 2018, 3, .	5.0	53
153	Enhanced Signaling Downstream of Ribonucleic Acid-Activated Protein Kinase-Like Endoplasmic Reticulum Kinase Potentiates Lipotoxic Endoplasmic Reticulum Stress in Human Islets. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 1442-1449.	3.6	52
154	<i>Î²</i>â€Cell inflammation in human type 2 diabetes and the role of autophagy. Diabetes, Obesity and Metabolism, 2013, 15, 130-136.	4.4	52
155	Glucocorticoids Reprogram Î²-Cell Signaling to Preserve Insulin Secretion. Diabetes, 2018, 67, 278-290.	0.6	52
156	The pancreatic beta-cell in human Type 2 diabetes. Nutrition, Metabolism and Cardiovascular Diseases, 2006, 16, S3-S6.	2.6	51
157	The diabetes-linked transcription factor Pax4 is expressed in human pancreatic islets and is activated by mitogens and GLP-1. Human Molecular Genetics, 2007, 17, 478-489.	2.9	51
158	A circular RNA generated from an intron of the insulin gene controls insulin secretion. Nature Communications, 2020, 11, 5611.	12.8	51
159	LRH-1 agonism favours an immune-islet dialogue which protects against diabetes mellitus. Nature Communications, 2018, 9, 1488.	12.8	50
160	IFN-Î± induces a preferential long-lasting expression of MHC class I in human pancreatic beta cells. Diabetologia, 2018, 61, 636-640.	6.3	50
161	Th2 Cytokines Have a Partial, Direct Protective Effect on the Function and Survival of Isolated Human Islets Exposed to Combined Proinflammatory and Th1 Cytokines. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 4974-4978.	3.6	49
162	Insulin secretion defects ofÂhuman type 2Âdiabetic islets are corrected inÂvitro byÂaÂnew reactive oxygen species scavenger. Diabetes and Metabolism, 2007, 33, 340-345.	2.9	49

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