

Piero Marchetti

List of Publications by Citations

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448
papers

26,051
citations

81
h-index

147
g-index

474
ext. papers

29,421
ext. citations

5.2
avg, IF

6.46
L-index

#	Paper	IF	Citations
448	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	16.2	2783
447	Bcl-2 inhibits the mitochondrial release of an apoptogenic protease. <i>Journal of Experimental Medicine</i> , 1996 , 184, 1331-41	16.6	1029
446	Mechanisms by which common variants in the TCF7L2 gene increase risk of type 2 diabetes. <i>Journal of Clinical Investigation</i> , 2007 , 117, 2155-63	15.9	574
445	Common variant in MTNR1B associated with increased risk of type 2 diabetes and impaired early insulin secretion. <i>Nature Genetics</i> , 2009 , 41, 82-8	36.3	550
444	Prolonged exposure to free fatty acids has cytostatic and pro-apoptotic effects on human pancreatic islets: evidence that beta-cell death is caspase mediated, partially dependent on ceramide pathway, and Bcl-2 regulated. <i>Diabetes</i> , 2002 , 51, 1437-42	0.9	501
443	New-onset diabetes after transplantation: 2003 International consensus guidelines. Proceedings of an international expert panel meeting. Barcelona, Spain, 19 February 2003. <i>Transplantation</i> , 2003 , 75, S3-24	1.8	459
442	Results of an international, randomized trial comparing glucose metabolism disorders and outcome with cyclosporine versus tacrolimus. <i>American Journal of Transplantation</i> , 2007 , 7, 1506-14	8.7	458
441	Initiation and execution of lipotoxic ER stress in pancreatic beta-cells. <i>Journal of Cell Science</i> , 2008 , 121, 2308-18	5.3	449
440	Coxsackie B4 virus infection of beta cells and natural killer cell insulinitis in recent-onset type 1 diabetic patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5115-20	11.5	441
439	Functional and molecular defects of pancreatic islets in human type 2 diabetes. <i>Diabetes</i> , 2005 , 54, 727-35	35.9	366
438	Epigenetic regulation of PPARGC1A in human type 2 diabetic islets and effect on insulin secretion. <i>Diabetologia</i> , 2008 , 51, 615-22	10.3	362
437	The human pancreatic islet transcriptome: expression of candidate genes for type 1 diabetes and the impact of pro-inflammatory cytokines. <i>PLoS Genetics</i> , 2012 , 8, e1002552	6	313
436	Insulin independence after islet transplantation into type I diabetic patient. <i>Diabetes</i> , 1990 , 39, 515-8	0.9	305
435	The endoplasmic reticulum in pancreatic beta cells of type 2 diabetes patients. <i>Diabetologia</i> , 2007 , 50, 2486-94	10.3	303
434	DNA methylation profiling identifies epigenetic dysregulation in pancreatic islets from type 2 diabetic patients. <i>EMBO Journal</i> , 2012 , 31, 1405-26	13	301
433	Evidence of β Cell Dedifferentiation in Human Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 1044-54	5.6	294
432	Pancreatic islets from type 2 diabetic patients have functional defects and increased apoptosis that are ameliorated by metformin. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 5535-41	5.6	268

431	High glucose causes apoptosis in cultured human pancreatic islets of Langerhans: a potential role for regulation of specific Bcl family genes toward an apoptotic cell death program. <i>Diabetes</i> , 2001 , 50, 1290-301	0.9	267
430	Autophagy in human type 2 diabetes pancreatic beta cells. <i>Diabetologia</i> , 2009 , 52, 1083-6	10.3	265
429	Functional and morphological alterations of mitochondria in pancreatic beta cells from type 2 diabetic patients. <i>Diabetologia</i> , 2005 , 48, 282-9	10.3	260
428	Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. <i>Cell Metabolism</i> , 2016 , 24, 389-401	24.6	248
427	PK11195, a ligand of the mitochondrial benzodiazepine receptor, facilitates the induction of apoptosis and reverses Bcl-2-mediated cytoprotection. <i>Experimental Cell Research</i> , 1998 , 241, 426-34	4.2	230
426	Encapsulated islets for diabetes therapy: history, current progress, and critical issues requiring solution. <i>Advanced Drug Delivery Reviews</i> , 2014 , 67-68, 35-73	18.5	217
425	Gene expression profiles of Beta-cell enriched tissue obtained by laser capture microdissection from subjects with type 2 diabetes. <i>PLoS ONE</i> , 2010 , 5, e11499	3.7	207
424	The emerging role of autophagy in the pathophysiology of diabetes mellitus. <i>Autophagy</i> , 2011 , 7, 2-11	10.2	206
423	Guidelines for the treatment and management of new-onset diabetes after transplantation. <i>Clinical Transplantation</i> , 2005 , 19, 291-8	3.8	203
422	A local glucagon-like peptide 1 (GLP-1) system in human pancreatic islets. <i>Diabetologia</i> , 2012 , 55, 3262-72	20.3	175
421	RNA sequencing identifies dysregulation of the human pancreatic islet transcriptome by the saturated fatty acid palmitate. <i>Diabetes</i> , 2014 , 63, 1978-93	0.9	174
420	Glucagon-like peptide-1 agonists protect pancreatic beta-cells from lipotoxic endoplasmic reticulum stress through upregulation of BiP and JunB. <i>Diabetes</i> , 2009 , 58, 2851-62	0.9	172
419	Palmitate induces a pro-inflammatory response in human pancreatic islets that mimics CCL2 expression by beta cells in type 2 diabetes. <i>Diabetologia</i> , 2010 , 53, 1395-405	10.3	168
418	Multilayer nanoencapsulation. New approach for immune protection of human pancreatic islets. <i>Nano Letters</i> , 2006 , 6, 1933-9	11.5	156
417	Lipotoxicity disrupts incretin-regulated human β cell connectivity. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4182-94	15.9	155
416	Phasic insulin release and metabolic regulation in type 2 diabetes. <i>Diabetes</i> , 2002 , 51 Suppl 1, S109-16	0.9	154
415	Results of our first nine intraportal islet allografts in type 1, insulin-dependent diabetic patients. <i>Transplantation</i> , 1991 , 51, 76-85	1.8	151
414	Peripheral and islet interleukin-17 pathway activation characterizes human autoimmune diabetes and promotes cytokine-mediated β cell death. <i>Diabetes</i> , 2011 , 60, 2112-9	0.9	148

413	Reduction of circulating neutrophils precedes and accompanies type 1 diabetes. <i>Diabetes</i> , 2013 , 62, 2072-3	5.6	140
412	The E23K variant of KCNJ11 encoding the pancreatic beta-cell adenosine 5P triphosphate-sensitive potassium channel subunit Kir6.2 is associated with an increased risk of secondary failure to sulfonylurea in patients with type 2 diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008 , 91, 2334-9	5.6	139
411	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. <i>PLoS Genetics</i> , 2013 , 9, e1003532	6	132
410	The functionality of mitochondria differentiates human spermatozoa with high and low fertilizing capability. <i>Fertility and Sterility</i> , 2006 , 86, 1526-30	4.8	132
409	Cytokines induce endoplasmic reticulum stress in human, rat and mouse beta cells via different mechanisms. <i>Diabetologia</i> , 2015 , 58, 2307-16	10.3	131
408	PTPN2, a candidate gene for type 1 diabetes, modulates interferon-gamma-induced pancreatic beta-cell apoptosis. <i>Diabetes</i> , 2009 , 58, 1283-91	0.9	131
407	Lipotoxicity in human pancreatic islets and the protective effect of metformin. <i>Diabetes</i> , 2002 , 51 Suppl 1, S134-7	0.9	130
406	Islet inflammation and CXCL10 in recent-onset type 1 diabetes. <i>Clinical and Experimental Immunology</i> , 2010 , 159, 338-43	6.2	123
405	A common polymorphism in the promoter of UCP2 contributes to the variation in insulin secretion in glucose-tolerant subjects. <i>Diabetes</i> , 2003 , 52, 1280-3	0.9	114
404	Rosiglitazone prevents the impairment of human islet function induced by fatty acids: evidence for a role of PPARgamma2 in the modulation of insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 286, E560-7	6	114
403	Glucose- and arginine-induced insulin secretion by human pancreatic beta-cells: the role of HERG K(+) channels in firing and release. <i>FASEB Journal</i> , 2000 , 14, 2601-10	0.9	114
402	Encapsulation of pancreatic islets for transplantation in diabetes: the untouchable islets. <i>Trends in Molecular Medicine</i> , 2002 , 8, 363-6	11.5	112
401	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?. <i>Diabetes</i> , 2005 , 54, 3238-44	0.9	110
400	Conventional and Neo-antigenic Peptides Presented by β Cells Are Targeted by Circulating Naive CD8+ T Cells in Type 1 Diabetic and Healthy Donors. <i>Cell Metabolism</i> , 2018 , 28, 946-960.e6	24.6	104
399	MicroRNA-124a is hyperexpressed in type 2 diabetic human pancreatic islets and negatively regulates insulin secretion. <i>Acta Diabetologica</i> , 2015 , 52, 523-30	3.9	102
398	PTPN2, a candidate gene for type 1 diabetes, modulates pancreatic β cell apoptosis via regulation of the BH3-only protein Bim. <i>Diabetes</i> , 2011 , 60, 3279-88	0.9	102
397	New-onset diabetes after liver transplantation: from pathogenesis to management. <i>Liver Transplantation</i> , 2005 , 11, 612-20	4.5	101
396	Death protein 5 and p53-upregulated modulator of apoptosis mediate the endoplasmic reticulum stress-mitochondrial dialog triggering lipotoxic rodent and human β cell apoptosis. <i>Diabetes</i> , 2012 , 61, 2763-75	0.9	100

395	p53 up-regulated modulator of apoptosis (PUMA) activation contributes to pancreatic beta-cell apoptosis induced by proinflammatory cytokines and endoplasmic reticulum stress. <i>Journal of Biological Chemistry</i> , 2010 , 285, 19910-20	5.4	100
394	C/EBP homologous protein contributes to cytokine-induced pro-inflammatory responses and apoptosis in β cells. <i>Cell Death and Differentiation</i> , 2012 , 19, 1836-46	12.7	97
393	Palmitate activates autophagy in INS-1E β cells and in isolated rat and human pancreatic islets. <i>PLoS ONE</i> , 2012 , 7, e36188	3.7	97
392	Class II phosphoinositide 3-kinase regulates exocytosis of insulin granules in pancreatic beta cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4216-25	5.4	96
391	Insulin secretory function is impaired in isolated human islets carrying the Gly(972)-->Arg IRS-1 polymorphism. <i>Diabetes</i> , 2002 , 51, 1419-24	0.9	96
390	Cx36 makes channels coupling human pancreatic beta-cells, and correlates with insulin expression. <i>Human Molecular Genetics</i> , 2009 , 18, 428-39	5.6	95
389	Pancreas transplant alone has beneficial effects on retinopathy in type 1 diabetic patients. <i>Diabetologia</i> , 2006 , 49, 2977-82	10.3	95
388	ADCY5 couples glucose to insulin secretion in human islets. <i>Diabetes</i> , 2014 , 63, 3009-21	0.9	91
387	Loss-of-Function Mutations in APPL1 in Familial Diabetes Mellitus. <i>American Journal of Human Genetics</i> , 2015 , 97, 177-85	11	91
386	Selective actions of mitochondrial fission/fusion genes on metabolism-secretion coupling in insulin-releasing cells. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33347-56	5.4	91
385	Interferon- γ mediates human beta cell HLA class I overexpression, endoplasmic reticulum stress and apoptosis, three hallmarks of early human type 1 diabetes. <i>Diabetologia</i> , 2017 , 60, 656-667	10.3	90
384	Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , 2014 , 5, 5116	17.4	90
383	Gliclazide protects human islet beta-cells from apoptosis induced by intermittent high glucose. <i>Diabetes/Metabolism Research and Reviews</i> , 2007 , 23, 234-8	7.5	89
382	Targeting GLP-1 receptor trafficking to improve agonist efficacy. <i>Nature Communications</i> , 2018 , 9, 1602	17.4	88
381	Beta- and alpha-cell dysfunction in type 2 diabetes. <i>Hormone and Metabolic Research</i> , 2004 , 36, 775-81	3.1	88
380	Towards better understanding of the contributions of overwork and glucotoxicity to the beta-cell inadequacy of type 2 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2009 , 11 Suppl 4, 82-90	6.7	86
379	Cytokines tumor necrosis factor- α and interferon- γ induce pancreatic β cell apoptosis through STAT1-mediated Bim protein activation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 39632-43	5.4	86
378	PDL1 is expressed in the islets of people with type 1 diabetes and is up-regulated by interferons- α and- γ via IRF1 induction. <i>EBioMedicine</i> , 2018 , 36, 367-375	8.8	86

377	Sirtuin 3 regulates mouse pancreatic beta cell function and is suppressed in pancreatic islets isolated from human type 2 diabetic patients. <i>Diabetologia</i> , 2013 , 56, 1068-77	10.3	85
376	Are we overestimating the loss of beta cells in type 2 diabetes?. <i>Diabetologia</i> , 2014 , 57, 362-5	10.3	85
375	Hepatitis C virus infection and human pancreatic beta-cell dysfunction. <i>Diabetes Care</i> , 2005 , 28, 940-1	14.6	85
374	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. <i>Diabetologia</i> , 2018 , 61, 641-657	10.3	84
373	Mitochondrial and ER-targeted eCALWY probes reveal high levels of free Zn ²⁺ . <i>ACS Chemical Biology</i> , 2014 , 9, 2111-20	4.9	83
372	Meta-analysis and functional effects of the SLC30A8 rs13266634 polymorphism on isolated human pancreatic islets. <i>Molecular Genetics and Metabolism</i> , 2010 , 100, 77-82	3.7	83
371	The common Arg972 polymorphism in insulin receptor substrate-1 causes apoptosis of human pancreatic islets. <i>FASEB Journal</i> , 2001 , 15, 22-24	0.9	83
370	An overview of pancreatic beta-cell defects in human type 2 diabetes: implications for treatment. <i>Regulatory Peptides</i> , 2008 , 146, 4-11		81
369	Insulin independence after islet transplantation into type I diabetic patient. <i>Diabetes</i> , 1990 , 39, 515-518	0.9	81
368	Age- and diet-dependent requirement of DJ-1 for glucose homeostasis in mice with implications for human type 2 diabetes. <i>Journal of Molecular Cell Biology</i> , 2012 , 4, 221-30	6.3	79
367	Generation and expansion of multipotent mesenchymal progenitor cells from cultured human pancreatic islets. <i>Cell Death and Differentiation</i> , 2007 , 14, 1860-71	12.7	78
366	New-onset diabetes after transplantation. <i>Journal of Heart and Lung Transplantation</i> , 2004 , 23, S194-2015	5.8	76
365	tRNA methyltransferase homolog gene TRMT10A mutation in young onset diabetes and primary microcephaly in humans. <i>PLoS Genetics</i> , 2013 , 9, e1003888	6	75
364	TYK2, a Candidate Gene for Type 1 Diabetes, Modulates Apoptosis and the Innate Immune Response in Human Pancreatic β Cells. <i>Diabetes</i> , 2015 , 64, 3808-17	0.9	74
363	The direct effects of the angiotensin-converting enzyme inhibitors, zofenoprilat and enalaprilat, on isolated human pancreatic islets. <i>European Journal of Endocrinology</i> , 2006 , 154, 355-61	6.5	74
362	The beneficial effects of pancreas transplant alone on diabetic nephropathy. <i>Diabetes Care</i> , 2005 , 28, 1366-70	14.6	74
361	Pleiotropic effects of GIP on islet function involve osteopontin. <i>Diabetes</i> , 2011 , 60, 2424-33	0.9	72
360	Effects of pancreas-kidney transplantation on diabetic retinopathy. <i>Transplant International</i> , 2005 , 18, 619-22	3	72

359	SARS-CoV-2 Receptor Angiotensin I-Converting Enzyme Type 2 (ACE2) Is Expressed in Human Pancreatic β -Cells and in the Human Pancreas Microvasculature. <i>Frontiers in Endocrinology</i> , 2020 , 11, 5968-78	5.7	72
358	Leader β cells coordinate Ca dynamics across pancreatic islets in vivo. <i>Nature Metabolism</i> , 2019 , 1, 615-624	4.6	70
357	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 β Cells. <i>Diabetes</i> , 2017 , 66, 100-112	0.9	69
356	BACH2, a candidate risk gene for type 1 diabetes, regulates apoptosis in pancreatic β cells via JNK1 modulation and crosstalk with the candidate gene PTPN2. <i>Diabetes</i> , 2014 , 63, 2516-27	0.9	69
355	The Myokine Irisin Is Released in Response to Saturated Fatty Acids and Promotes Pancreatic β Cell Survival and Insulin Secretion. <i>Diabetes</i> , 2017 , 66, 2849-2856	0.9	68
354	Activin A stimulates insulin secretion in cultured human pancreatic islets. <i>Journal of Endocrinological Investigation</i> , 2000 , 23, 231-4	5.2	68
353	Altered insulin receptor signalling and β cell cycle dynamics in type 2 diabetes mellitus. <i>PLoS ONE</i> , 2011 , 6, e28050	3.7	68
352	Increased O-glycosylation of insulin signaling proteins results in their impaired activation and enhanced susceptibility to apoptosis in pancreatic beta-cells. <i>FASEB Journal</i> , 2004 , 18, 959-61	0.9	67
351	Effects of prolonged in vitro exposure to sulphonylureas on the function and survival of human islets. <i>Journal of Diabetes and Its Complications</i> , 2005 , 19, 60-4	3.2	66
350	The metabolic effects of cyclosporin and tacrolimus. <i>Journal of Endocrinological Investigation</i> , 2000 , 23, 482-90	5.2	65
349	Pancreas preservation with University of Wisconsin and Celsior solutions: a single-center, prospective, randomized pilot study. <i>Transplantation</i> , 2004 , 77, 1186-90	1.8	64
348	A technique for retroperitoneal pancreas transplantation with portal-enteric drainage. <i>Transplantation</i> , 2005 , 79, 1137-42	1.8	64
347	Pancreatic β Cells are Resistant to Metabolic Stress-induced Apoptosis in Type 2 Diabetes. <i>EBioMedicine</i> , 2015 , 2, 378-85	8.8	62
346	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. <i>Diabetologia</i> , 2014 , 57, 512-21	10.3	62
345	Autoantibodies to CD38 (ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase) in Caucasian patients with diabetes: effects on insulin release from human islets. <i>Diabetes</i> , 1999 , 48, 2309-15	0.9	62
344	beta-cell function and anti-diabetic pharmacotherapy. <i>Diabetes/Metabolism Research and Reviews</i> , 2007 , 23, 518-27	7.5	61
343	Central role and mechanisms of β cell dysfunction and death in friedreich ataxia-associated diabetes. <i>Annals of Neurology</i> , 2012 , 72, 971-82	9.4	60
342	Laparoscopic robot-assisted pancreas transplantation: first world experience. <i>Transplantation</i> , 2012 , 93, 201-6	1.8	59

341	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. <i>Diabetologia</i> , 2014 , 57, 1876-83	10.3	57
340	USP18 is a key regulator of the interferon-driven gene network modulating pancreatic beta cell inflammation and apoptosis. <i>Cell Death and Disease</i> , 2012 , 3, e419	9.8	57
339	Microarray analysis of isolated human islet transcriptome in type 2 diabetes and the role of the ubiquitin-proteasome system in pancreatic beta cell dysfunction. <i>Molecular and Cellular Endocrinology</i> , 2013 , 367, 1-10	4.4	57
338	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 beta-cells. <i>Endocrinology</i> , 2004 , 145, 2845-57	4.8	57
337	Pharmacokinetic-pharmacodynamic relationships of oral hypoglycaemic agents. An update. <i>Clinical Pharmacokinetics</i> , 1989 , 16, 100-28	6.2	57
336	The impact of proinflammatory cytokines on the β cell regulatory landscape provides insights into the genetics of type 1 diabetes. <i>Nature Genetics</i> , 2019 , 51, 1588-1595	36.3	55
335	A simplified technique for the en bloc procurement of abdominal organs that is suitable for pancreas and small-bowel transplantation. <i>Surgery</i> , 2004 , 135, 629-41	3.6	55
334	Exendin-4 protects pancreatic beta cells from palmitate-induced apoptosis by interfering with GPR40 and the MKK4/7 stress kinase signalling pathway. <i>Diabetologia</i> , 2013 , 56, 2456-66	10.3	53
333	Nova1 is a master regulator of alternative splicing in pancreatic beta cells. <i>Nucleic Acids Research</i> , 2014 , 42, 11818-30	20.1	53
332	Exendin-4 prevents c-Jun N-terminal protein kinase activation by tumor necrosis factor-alpha (TNFalpha) and inhibits TNFalpha-induced apoptosis in insulin-secreting cells. <i>Endocrinology</i> , 2010 , 151, 2019-29	4.8	52
331	NGF-withdrawal induces apoptosis in pancreatic beta cells in vitro. <i>Diabetologia</i> , 2001 , 44, 1281-95	10.3	51
330	Human anti-CD38 autoantibodies raise intracellular calcium and stimulate insulin release in human pancreatic islets. <i>Diabetes</i> , 2001 , 50, 985-91	0.9	51
329	Pulsatile insulin secretion from isolated human pancreatic islets. <i>Diabetes</i> , 1994 , 43, 827-30	0.9	51
328	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. <i>American Journal of Human Genetics</i> , 2017 , 100, 238-256	11	50
327	Enhanced signaling downstream of ribonucleic Acid-activated protein kinase-like endoplasmic reticulum kinase potentiates lipotoxic endoplasmic reticulum stress in human islets. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 1442-9	5.6	50
326	The pancreatic beta-cell in human Type 2 diabetes. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2006 , 16 Suppl 1, S3-6	4.5	50
325	Automated large-scale isolation, in vitro function and xenotransplantation of porcine islets of Langerhans. <i>Transplantation</i> , 1991 , 52, 209-13	1.8	50
324	The TRIB3 Q84R polymorphism and risk of early-onset type 2 diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009 , 94, 190-6	5.6	49

323	Unveiling a common mechanism of apoptosis in β cells and neurons in Friedreich's ataxia. <i>Human Molecular Genetics</i> , 2015 , 24, 2274-86	5.6	47
322	Incretin-modulated beta cell energetics in intact islets of Langerhans. <i>Molecular Endocrinology</i> , 2014 , 28, 860-71		47
321	The biguanide compound metformin prevents desensitization of human pancreatic islets induced by high glucose. <i>European Journal of Pharmacology</i> , 1999 , 364, 205-9	5.3	47
320	mTORC1 to AMPK switching underlies β cell metabolic plasticity during maturation and diabetes. <i>Journal of Clinical Investigation</i> , 2019 , 129, 4124-4137	15.9	47
319	The beta-cell in human type 2 diabetes. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 654, 501-14	3.6	46
318	Massive isolation, morphological and functional characterization, and xenotransplantation of bovine pancreatic islets. <i>Diabetes</i> , 1995 , 44, 375-81	0.9	46
317	Influence of mitochondrial membrane potential of spermatozoa on in vitro fertilisation outcome. <i>Andrologia</i> , 2012 , 44, 136-41	2.4	45
316	The transcription factor C/EBP delta has anti-apoptotic and anti-inflammatory roles in pancreatic beta cells. <i>PLoS ONE</i> , 2012 , 7, e31062	3.7	45
315	Pilot, Open, Randomized, Prospective Trial for Normothermic Machine Perfusion Evaluation in Liver Transplantation From Older Donors. <i>Liver Transplantation</i> , 2019 , 25, 436-449	4.5	45
314	A red-shifted photochromic sulfonylurea for the remote control of pancreatic beta cell function. <i>Chemical Communications</i> , 2015 , 51, 6018-21	5.8	43
313	Thrombospondin 1 protects pancreatic β cells from lipotoxicity via the PERK-NRF2 pathway. <i>Cell Death and Differentiation</i> , 2016 , 23, 1995-2006	12.7	43
312	In vitro use of free fatty acids bound to albumin: A comparison of protocols. <i>BioTechniques</i> , 2015 , 58, 228-33	2.5	43
311	Goals of treatment for type 2 diabetes: beta-cell preservation for glycemic control. <i>Diabetes Care</i> , 2009 , 32 Suppl 2, S178-83	14.6	43
310	Surgical techniques for pancreas transplantation. <i>Current Opinion in Organ Transplantation</i> , 2010 , 15, 102-11	2.5	43
309	Entrapment of dispersed pancreatic islet cells in Cultispher-S macroporous gelatin microcarriers: Preparation, in vitro characterization, and microencapsulation. <i>Biotechnology and Bioengineering</i> , 2001 , 75, 741-4	4.9	43
308	Th2 cytokines have a partial, direct protective effect on the function and survival of isolated human islets exposed to combined proinflammatory and Th1 cytokines. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 4974-8	5.6	43
307	Pancreatic β cell tRNA hypomethylation and fragmentation link TRMT10A deficiency with diabetes. <i>Nucleic Acids Research</i> , 2018 , 46, 10302-10318	20.1	42
306	Modeling human pancreatic beta cell dedifferentiation. <i>Molecular Metabolism</i> , 2018 , 10, 74-86	8.8	41

305	Atorvastatin but Not Pravastatin Impairs Mitochondrial Function in Human Pancreatic Islets and Rat β Cells. Direct Effect of Oxidative Stress. <i>Scientific Reports</i> , 2017 , 7, 11863	4.9	41
304	The pancreatic beta cells in human type 2 diabetes. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 771, 288-309	3.6	41
303	An integrated multi-omics approach identifies the landscape of interferon- β -mediated responses of human pancreatic beta cells. <i>Nature Communications</i> , 2020 , 11, 2584	17.4	41
302	The diabetes-linked transcription factor Pax4 is expressed in human pancreatic islets and is activated by mitogens and GLP-1. <i>Human Molecular Genetics</i> , 2008 , 17, 478-89	5.6	40
301	The effects of kisspeptin on β cell function, serum metabolites and appetite in humans. <i>Diabetes, Obesity and Metabolism</i> , 2018 , 20, 2800-2810	6.7	39
300	IL-17A increases the expression of proinflammatory chemokines in human pancreatic islets. <i>Diabetologia</i> , 2014 , 57, 502-11	10.3	39
299	Long-term (5 years) efficacy and safety of pancreas transplantation alone in type 1 diabetic patients. <i>Transplantation</i> , 2012 , 93, 842-6	1.8	39
298	Anti-CD38 autoimmunity in patients with chronic autoimmune thyroiditis or GravesDisease. <i>Clinical and Experimental Immunology</i> , 2001 , 126, 426-31	6.2	39
297	Type 2 diabetes susceptibility gene expression in normal or diabetic sorted human alpha and beta cells: correlations with age or BMI of islet donors. <i>PLoS ONE</i> , 2010 , 5, e11053	3.7	39
296	Glucocorticoids Reprogram β Cell Signaling to Preserve Insulin Secretion. <i>Diabetes</i> , 2018 , 67, 278-290	0.9	39
295	Discovery of molecular pathways mediating 1,25-dihydroxyvitamin D3 protection against cytokine-induced inflammation and damage of human and male mouse islets of Langerhans. <i>Endocrinology</i> , 2014 , 155, 736-47	4.8	38
294	Per-arnt-sim (PAS) domain-containing protein kinase is downregulated in human islets in type 2 diabetes and regulates glucagon secretion. <i>Diabetologia</i> , 2011 , 54, 819-27	10.3	38
293	Modulation of Autophagy Influences the Function and Survival of Human Pancreatic Beta Cells Under Endoplasmic Reticulum Stress Conditions and in Type 2 Diabetes. <i>Frontiers in Endocrinology</i> , 2019 , 10, 52	5.7	37
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