Piero Marchetti

List of Publications by Year in Descending Order

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	Increased Expression of Viral Sensor MDA5 in Pancreatic Islets and in Hormone-Negative Endocrine Cells in Recent Onset Type 1 Diabetic Donors.. *Frontiers in Immunology*, **2022**, 13, 833141	8.4	0
447	TIGER: The gene expression regulatory variation landscape of human pancreatic islets. *Cell Reports*, **2021**, 37, 109807	10.6	5
446	Gain of function of Malate Dehydrogenase 2 (MDH2) and familial hyperglycemia. *Journal of Clinical Endocrinology and Metabolism*, **2021**,	5.6	1
445	Endogenous mitochondrial double-stranded RNA is not an activator of the type I interferon response in human pancreatic beta cells. *Autoimmunity Highlights*, **2021**, 12, 6	3.7	2
444	DNAJC3 deficiency induces β-cell mitochondrial apoptosis and causes syndromic young-onset diabetes. *European Journal of Endocrinology*, **2021**, 184, 455-468	6.5	12
443	Mast Cells and the Pancreas in Human Type 1 and Type 2 Diabetes. *Cells*, **2021**, 10,	7.9	2
442	First world consensus conference on pancreas transplantation: Part I-Methods and results of literature search. *American Journal of Transplantation*, **2021**, 21 Suppl 3, 1-16	8.7	2
441	Selective beta-cell toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin on isolated pancreatic islets. *Chemosphere*, **2021**, 265, 129103	8.4	3
440	Noradrenergic fibers are associated with beta-cell dedifferentiation and impaired beta-cell function in humans. *Metabolism: Clinical and Experimental*, **2021**, 114, 154414	12.7	3
439	Pro-Inflammatory Cytokines Induce Insulin and Glucagon Double Positive Human Islet Cells That Are Resistant to Apoptosis. *Biomolecules*, **2021**, 11,	5.9	2
438	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a regulator of insulin secretion. *Cell Reports*, **2021**, 34, 108703	10.6	1
437	A functional genomic approach to identify reference genes for human pancreatic beta cell real-time quantitative RT-PCR analysis. *Islets*, **2021**, 13, 51-65	2	1
436	First World Consensus Conference on pancreas transplantation: Part II - recommendations. *American Journal of Transplantation*, **2021**, 21 Suppl 3, 17-59	8.7	5
435	Protective effects of Stevia rebaudiana extracts on beta cells in lipotoxic conditions. *Acta Diabetologica*, **2021**, 1	3.9	1
434	Treating Type 1 Diabetes by Pancreas Transplant Alone: a Cohort Study on Actual Long-Term (10 Years) Efficacy and Safety. *Transplantation*, **2021**,	1.8	2
433	A circular RNA generated from an intron of the insulin gene controls insulin secretion. *Nature Communications*, **2020**, 11, 5611	17.4	19
432	A direct look at the dysfunction and pathology of the β cells in human type 2 diabetes. *Seminars in Cell and Developmental Biology*, **2020**, 103, 83-93	7.5	15

431	Preclinical evaluation of tyrosine kinase 2 inhibitors for human beta-cell protection in type 1 diabetes. *Diabetes, Obesity and Metabolism*, **2020**, 22, 1827-1836	6.7	16
430	Subcapsular Renal Hematoma in Simultaneous Pancreas Kidney Transplantation. *Case Reports in Transplantation*, **2020**, 2020, 6152035	0.6	1
429	Management of metabolic alterations in adult kidney transplant recipients: A joint position statement of the Italian Society of Nephrology (SIN), the Italian Society for Organ Transplantation (SITO) and the Italian Diabetes Society (SID). *Nutrition, Metabolism and Cardiovascular Diseases*, **2020**, 30, 1427-1441	4.5	1
428	Exenatide induces frataxin expression and improves mitochondrial function in Friedreich ataxia. *JCI Insight*, **2020**, 5,	9.9	23
427	YIPF5 mutations cause neonatal diabetes and microcephaly through endoplasmic reticulum stress. *Journal of Clinical Investigation*, **2020**, 130, 6338-6353	15.9	21
426	Induction and Immunosuppressive Management of Pancreas Transplant Recipients. *Current Pharmaceutical Design*, **2020**, 26, 3425-3439	3.3	3
425	An integrated multi-omics approach identifies the landscape of interferon-mediated responses of human pancreatic beta cells. *Nature Communications*, **2020**, 11, 2584	17.4	41
424	Integration of single-cell datasets reveals novel transcriptomic signatures of cells in human type 2 diabetes. *NAR Genomics and Bioinformatics*, **2020**, 2, lqaa097	3.7	7
423	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	8.3	27
422	A nanobody-based nuclear imaging tracer targeting dipeptidyl peptidase 6 to determine the mass of human beta cell grafts in mice. *Diabetologia*, **2020**, 63, 825-836	10.3	14
421	Stearoyl CoA desaturase is a gatekeeper that protects human beta cells against lipotoxicity and maintains their identity. *Diabetologia*, **2020**, 63, 395-409	10.3	16
420	Pancreatic Alpha-Cells Contribute Together With Beta-Cells to CXCL10 Expression in Type 1 Diabetes. *Frontiers in Endocrinology*, **2020**, 11, 630	5.7	7
419	Persistent or Transient Human Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. *Cell Reports*, **2020**, 33, 108466	10.6	22
418	SARS-CoV-2 Receptor Angiotensin I-Converting Enzyme Type 2 (ACE2) Is Expressed in Human Pancreatic -Cells and in the Human Pancreas Microvasculature. *Frontiers in Endocrinology*, **2020**, 11, 596898	5.7	72
417	Circulating unmethylated CHTOP and INS DNA fragments provide evidence of possible islet cell death in youth with obesity and diabetes. *Clinical Epigenetics*, **2020**, 12, 116	7.7	8
416	Combined transcriptome and proteome profiling of the pancreatic cell response to palmitate unveils key pathways of cell lipotoxicity. *BMC Genomics*, **2020**, 21, 590	4.5	9
415	The expression of genes in top obesity-associated loci is enriched in insula and substantia nigra brain regions involved in addiction and reward. *International Journal of Obesity*, **2020**, 44, 539-543	5.5	16
414	Insulin Autoimmune Syndrome (Hirata Disease): A Comprehensive Review Fifty Years After Its First Description. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2020**, 13, 963-978	3.4	27

413	The T1D-associated lncRNA modulates human pancreatic □cell inflammation by allele-specific stabilization of mRNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9022-9031	11.5	24
412	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	5.7	37
411	Leader □cells coordinate Ca dynamics across pancreatic islets in vivo. *Nature Metabolism*, **2019**, 1, 615-629	14.6	70
410	Insulin secretory granules labelled with phogrin-fluorescent proteins show alterations in size, mobility and responsiveness to glucose stimulation in living □cells. *Scientific Reports*, **2019**, 9, 2890	4.9	11
409	Phosphoproteomics Reveals the GSK3-PDX1 Axis as a Key Pathogenic Signaling Node in Diabetic Islets. *Cell Metabolism*, **2019**, 29, 1422-1432.e3	24.6	29
408	Laser capture microdissection of human pancreatic islets reveals novel eQTLs associated with type 2 diabetes. *Molecular Metabolism*, **2019**, 24, 98-107	8.8	14
407	Fostering improved human islet research: a European perspective. *Diabetologia*, **2019**, 62, 1514-1516	10.3	9
406	The impact of proinflammatory cytokines on the □cell regulatory landscape provides insights into the genetics of type 1 diabetes. *Nature Genetics*, **2019**, 51, 1588-1595	36.3	55
405	mTORC1 to AMPK switching underlies □cell metabolic plasticity during maturation and diabetes. *Journal of Clinical Investigation*, **2019**, 129, 4124-4137	15.9	47
404	The miRNAs miR-211-5p and miR-204-5p modulate ER stress in human beta cells. *Journal of Molecular Endocrinology*, **2019**, 63, 139-149	4.5	22
403	Coxsackievirus B Tailors the Unfolded Protein Response to Favour Viral Amplification in Pancreatic □Cells. *Journal of Innate Immunity*, **2019**, 11, 375-390	6.9	14
402	Pilot, Open, Randomized, Prospective Trial for Normothermic Machine Perfusion Evaluation in Liver Transplantation From Older Donors. *Liver Transplantation*, **2019**, 25, 436-449	4.5	45
401	Ultra-high resolution MALDI-FTICR-MSI analysis of intact proteins in mouse and human pancreas tissue. *International Journal of Mass Spectrometry*, **2019**, 437, 10-16	1.9	15
400	Modeling human pancreatic beta cell dedifferentiation. *Molecular Metabolism*, **2018**, 10, 74-86	8.8	41
399	Targeting GLP-1 receptor trafficking to improve agonist efficacy. *Nature Communications*, **2018**, 9, 1602	17.4	88
398	LRH-1 agonism favours an immune-islet dialogue which protects against diabetes mellitus. *Nature Communications*, **2018**, 9, 1488	17.4	31
397	The type 2 diabetes-associated HMG20A gene is mandatory for islet beta cell functional maturity. *Cell Death and Disease*, **2018**, 9, 279	9.8	24
396	DPP-4 is expressed in human pancreatic beta cells and its direct inhibition improves beta cell function and survival in type 2 diabetes. *Molecular and Cellular Endocrinology*, **2018**, 473, 186-193	4.4	31

395	MiR-184 expression is regulated by AMPK in pancreatic islets. *FASEB Journal*, **2018**, 32, 2587-2600	0.9	28
394	MondoA Is an Essential Glucose-Responsive Transcription Factor in Human Pancreatic Cells. *Diabetes*, **2018**, 67, 461-472	0.9	15
393	A Targeted RNAi Screen Identifies Endocytic Trafficking Factors That Control GLP-1 Receptor Signaling in Pancreatic Cells. *Diabetes*, **2018**, 67, 385-399	0.9	26
392	SRp55 Regulates a Splicing Network That Controls Human Pancreatic Cell Function and Survival. *Diabetes*, **2018**, 67, 423-436	0.9	33
391	IFN- nduces a preferential long-lasting expression of MHC class I in human pancreatic beta cells. *Diabetologia*, **2018**, 61, 636-640	10.3	29
390	Conventional and Neo-antigenic Peptides Presented by Cells Are Targeted by Circulating Naïve CD8+ T Cells in Type 1 Diabetic and Healthy Donors. *Cell Metabolism*, **2018**, 28, 946-960.e6	24.6	104
389	Conformal coating by multilayer nano-encapsulation for the protection of human pancreatic islets: In-vitro and in-vivo studies. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 2191-2203	6	13
388	The effects of kisspeptin on cell function, serum metabolites and appetite in humans. *Diabetes, Obesity and Metabolism*, **2018**, 20, 2800-2810	6.7	39
387	MicroRNA Expression Analysis of In Vitro Dedifferentiated Human Pancreatic Islet Cells Reveals the Activation of the Pluripotency-Related MicroRNA Cluster miR-302s. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	11
386	Probing the light scattering properties of insulin secretory granules in single live cells. *Biochemical and Biophysical Research Communications*, **2018**, 503, 2710-2714	3.4	3
385	A patient with MEN1 and end-stage chronic kidney disease due to Alport syndrome: Decision making on the eligibility of transplantation. *Molecular and Clinical Oncology*, **2018**, 8, 449-452	1.6	
384	Virus-like infection induces human cell dedifferentiation. *JCI Insight*, **2018**, 3,	9.9	32
383	Spontaneously remitting insulin autoimmune syndrome in a patient taking alpha-lipoic acid. *Endocrinology, Diabetes and Metabolism Case Reports*, **2018**, 2018,	1.4	5
382	The Endocrine Pancreas. *Endocrinology*, **2018**, 423-454	0.1	
381	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	10.3	84
380	Duodenal graft complications requiring duodenectomy after pancreas and pancreas-kidney transplantation. *American Journal of Transplantation*, **2018**, 18, 1388-1396	8.7	9
379	Glucocorticoids Reprogram Cell Signaling to Preserve Insulin Secretion. *Diabetes*, **2018**, 67, 278-290	0.9	39
378	Exercise training protects human and rodent cells against endoplasmic reticulum stress and apoptosis. *FASEB Journal*, **2018**, 32, 1524-1536	0.9	16

377	Pancreatic cell tRNA hypomethylation and fragmentation link TRMT10A deficiency with diabetes. *Nucleic Acids Research*, **2018**, 46, 10302-10318	20.1	42
376	PDL1 is expressed in the islets of people with type 1 diabetes and is up-regulated by interferons- and- via IRF1 induction. *EBioMedicine*, **2018**, 36, 367-375	8.8	86
375	Inflammation-Induced Citrullinated Glucose-Regulated Protein 78 Elicits Immune Responses in Human Type 1 Diabetes. *Diabetes*, **2018**, 67, 2337-2348	0.9	31
374	Imaging of Human Insulin Secreting Cells with Gd-DOTA-P88, a Paramagnetic Contrast Agent Targeting the Beta Cell Biomarker FXYD2. *Molecules*, **2018**, 23,	4.8	8
373	Protective role of the ELOVL2/docosahexaenoic acid axis in glucolipotoxicity-induced apoptosis in rodent beta cells and human islets. *Diabetologia*, **2018**, 61, 1780-1793	10.3	20
372	Interferon- 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	10.3	90
371	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. *American Journal of Human Genetics*, **2017**, 100, 238-256	11	50
370	dUTPase () Is Mutated in a Novel Monogenic Syndrome With Diabetes and Bone Marrow Failure. *Diabetes*, **2017**, 66, 1086-1096	0.9	12
369	Neuron-enriched RNA-binding Proteins Regulate Pancreatic Beta Cell Function and Survival. *Journal of Biological Chemistry*, **2017**, 292, 3466-3480	5.4	31
368	Stem cells to restore insulin production and cure diabetes. *Nutrition, Metabolism and Cardiovascular Diseases*, **2017**, 27, 583-600	4.5	19
367	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	8.8	32
366	The immunoproteasome is induced by cytokines and regulates apoptosis in human islets. *Journal of Endocrinology*, **2017**, 233, 369-379	4.7	16
365	Guanabenz Sensitizes Pancreatic Cells to Lipotoxic Endoplasmic Reticulum Stress and Apoptosis. *Endocrinology*, **2017**, 158, 1659-1670	4.8	17
364	High-throughput screening and bioinformatic analysis to ascertain compounds that prevent saturated fatty acid-induced cell apoptosis. *Biochemical Pharmacology*, **2017**, 138, 140-149	6	17
363	Protective Role of Complement C3 Against Cytokine-Mediated Cell Apoptosis. *Endocrinology*, **2017**, 158, 2503-2521	4.8	18
362	Ultrastructural alterations of pancreatic beta cells in human diabetes mellitus. *Diabetes/Metabolism Research and Reviews*, **2017**, 33, e2894	7.5	35
361	Palmitate-induced lipotoxicity alters acetylation of multiple proteins in clonal cells and human pancreatic islets. *Scientific Reports*, **2017**, 7, 13445	4.9	32
360	Co-localization of acinar markers and insulin in pancreatic cells of subjects with type 2 diabetes. *PLoS ONE*, **2017**, 12, e0179398	3.7	12

359	Atorvastatin but Not Pravastatin Impairs Mitochondrial Function in Human Pancreatic Islets and Rat Cells. Direct Effect of Oxidative Stress. *Scientific Reports*, **2017**, 7, 11863	4.9	41
358	The Myokine Irisin Is Released in Response to Saturated Fatty Acids and Promotes Pancreatic Cell Survival and Insulin Secretion. *Diabetes*, **2017**, 66, 2849-2856	0.9	68
357	A adenosine receptors control pancreatic dysfunction in high-fat-diet-induced obesity. *FASEB Journal*, **2017**, 31, 4985-4997	0.9	21
356	A nanobody-based tracer targeting DPP6 for non-invasive imaging of human pancreatic endocrine cells. *Scientific Reports*, **2017**, 7, 15130	4.9	33
355	Pancreatic cell protection from inflammatory stress by the endoplasmic reticulum proteins thrombospondin 1 and mesencephalic astrocyte-derived neutrotrophic factor (MANF). *Journal of Biological Chemistry*, **2017**, 292, 14977-14988	5.4	28
354	MCL-1 Is a Key Antiapoptotic Protein in Human and Rodent Pancreatic Cells. *Diabetes*, **2017**, 66, 2446-2458	8.9	14
353	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 Cells. *Diabetes*, **2017**, 66, 100-112	0.9	69
352	FGF-2b and h-PL Transform Duct and Non-Endocrine Human Pancreatic Cells into Endocrine Insulin Secreting Cells by Modulating Differentiating Genes. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	6
351	Pancreatic Beta Cell Identity in Humans and the Role of Type 2 Diabetes. *Frontiers in Cell and Developmental Biology*, **2017**, 5, 55	5.7	23
350	Update on pancreatic transplantation on the management of diabetes. *Minerva Medica*, **2017**, 108, 405-418	2.8	15
349	Both 3,5-diiodo-L-thyronine (T2) and T3 modulate glucose-induced insulin secretion. *Journal of Biological Regulators and Homeostatic Agents*, **2017**, 31, 503-508	0.7	6
348	Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. *Cell Metabolism*, **2016**, 24, 389-401	24.6	248
347	Glucolipotoxicity initiates pancreatic cell death through TNFR5/CD40-mediated STAT1 and NF-B activation. *Cell Death and Disease*, **2016**, 7, e2329	9.8	26
346	Thrombospondin 1 protects pancreatic cells from lipotoxicity via the PERK-NRF2 pathway. *Cell Death and Differentiation*, **2016**, 23, 1995-2006	12.7	43
345	Islet inflammation in type 2 diabetes. *Diabetologia*, **2016**, 59, 668-72	10.3	28
344	Sorcin Links Pancreatic Cell Lipotoxicity to ER Ca2+ Stores. *Diabetes*, **2016**, 65, 1009-21	0.9	32
343	Evidence of Cell Dedifferentiation in Human Type 2 Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2016**, 101, 1044-54	5.6	294
342	The Endocrine Pancreas. *Endocrinology*, **2016**, 1-32	0.1	

341	Phenylpropenoic Acid Glucoside from Rooibos Protects Pancreatic Beta Cells against Cell Death Induced by Acute Injury. *PLoS ONE*, **2016**, 11, e0157604	3.7	20
340	Changes in the expression of the type 2 diabetes-associated gene VPS13C in the □cell are associated with glucose intolerance in humans and mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 311, E488-507	6	14
339	Ubiquitin D Regulates IRE1/c-Jun N-terminal Kinase (JNK) Protein-dependent Apoptosis in Pancreatic Beta Cells. *Journal of Biological Chemistry*, **2016**, 291, 12040-56	5.4	36
338	Frequency and characteristics of diabetes in 300 pre-liver transplant patients. *Nutrition, Metabolism and Cardiovascular Diseases*, **2016**, 26, 441-2	4.5	9
337	Cytokines induce endoplasmic reticulum stress in human, rat and mouse beta cells via different mechanisms. *Diabetologia*, **2015**, 58, 2307-16	10.3	131
336	Pancreatic □Cells are Resistant to Metabolic Stress-induced Apoptosis in Type 2 Diabetes. *EBioMedicine*, **2015**, 2, 378-85	8.8	62
335	A red-shifted photochromic sulfonylurea for the remote control of pancreatic beta cell function. *Chemical Communications*, **2015**, 51, 6018-21	5.8	43
334	The p66(Shc) redox adaptor protein is induced by saturated fatty acids and mediates lipotoxicity-induced apoptosis in pancreatic beta cells. *Diabetologia*, **2015**, 58, 1260-71	10.3	34
333	□Cell mass and function in human type 2 diabetes **2015**, 354-370		3
332	TYK2, a Candidate Gene for Type 1 Diabetes, Modulates Apoptosis and the Innate Immune Response in Human Pancreatic □Cells. *Diabetes*, **2015**, 64, 3808-17	0.9	74
331	Mast cells infiltrate pancreatic islets in human type 1 diabetes. *Diabetologia*, **2015**, 58, 2554-62	10.3	35
330	Kidney-Pancreas Transplantation **2015**, 439-453		
329	MicroRNA-124a is hyperexpressed in type 2 diabetic human pancreatic islets and negatively regulates insulin secretion. *Acta Diabetologica*, **2015**, 52, 523-30	3.9	102
328	Defects in mitophagy promote redox-driven metabolic syndrome in the absence of TP53INP1. *EMBO Molecular Medicine*, **2015**, 7, 802-18	12	30
327	In vitro use of free fatty acids bound to albumin: A comparison of protocols. *BioTechniques*, **2015**, 58, 228-33	2.5	43
326	Glucagon-like peptide 1 protects INS-1E mitochondria against palmitate-mediated beta-cell dysfunction: a proteomic study. *Molecular BioSystems*, **2015**, 11, 1696-707		15
325	Loss-of-Function Mutations in APPL1 in Familial Diabetes Mellitus. *American Journal of Human Genetics*, **2015**, 97, 177-85	11	91
324	Labeling and Tracking of Human Pancreatic Islets Using Carbon Nanotubes. *Journal of Biomedical Nanotechnology*, **2015**, 11, 730-8	4	5

323	Unveiling a common mechanism of apoptosis in □cells and neurons in Friedreich□s ataxia. *Human Molecular Genetics*, **2015**, 24, 2274-86	5.6	47
322	The □Cell in Human Type 2 Diabetes **2015**, 801-815		
321	St. John□s wort extract and hyperforin protect rat and human pancreatic islets against cytokine toxicity. *Acta Diabetologica*, **2014**, 51, 113-21	3.9	18
320	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, 512-21	10.3	62
319	IL-17A increases the expression of proinflammatory chemokines in human pancreatic islets. *Diabetologia*, **2014**, 57, 502-11	10.3	39
318	RNA sequencing identifies dysregulation of the human pancreatic islet transcriptome by the saturated fatty acid palmitate. *Diabetes*, **2014**, 63, 1978-93	0.9	174
317	Optical control of insulin release using a photoswitchable sulfonylurea. *Nature Communications*, **2014**, 5, 5116	17.4	90
316	ADCY5 couples glucose to insulin secretion in human islets. *Diabetes*, **2014**, 63, 3009-21	0.9	91
315	Mitochondrial and ER-targeted eCALWY probes reveal high levels of free Zn2+. *ACS Chemical Biology*, **2014**, 9, 2111-20	4.9	83
314	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, 1876-83	10.3	57
313	Discovery of molecular pathways mediating 1,25-dihydroxyvitamin D3 protection against cytokine-induced inflammation and damage of human and male mouse islets of Langerhans. *Endocrinology*, **2014**, 155, 736-47	4.8	38
312	JunB protects □cells from lipotoxicity via the XBP1-AKT pathway. *Cell Death and Differentiation*, **2014**, 21, 1313-24	12.7	31
311	Prevention by metformin of alterations induced by chronic exposure to high glucose in human islet beta cells is associated with preserved ATP/ADP ratio. *Diabetes Research and Clinical Practice*, **2014**, 104, 163-70	7.4	33
310	Gluco-incretins regulate beta-cell glucose competence by epigenetic silencing of Fxyd3 expression. *PLoS ONE*, **2014**, 9, e103277	3.7	6
309	A combined "omics" approach identifies N-Myc interactor as a novel cytokine-induced regulator of IRE1 protein and c-Jun N-terminal kinase in pancreatic beta cells. *Journal of Biological Chemistry*, **2014**, 289, 20677-93	5.4	30
308	BACH2, a candidate risk gene for type 1 diabetes, regulates apoptosis in pancreatic □cells via JNK1 modulation and crosstalk with the candidate gene PTPN2. *Diabetes*, **2014**, 63, 2516-27	0.9	69
307	Amelioration of cardiac morphology and function in type 1 diabetic patients with sustained success of pancreas transplant alone. *Diabetes Care*, **2014**, 37, e171-2	14.6	7
306	Incretin-modulated beta cell energetics in intact islets of Langerhans. *Molecular Endocrinology*, **2014**, 28, 860-71		47

305	Dipeptidyl peptidase-4 (DPP-4): Localization and activity in human and rodent islets. *Biochemical and Biophysical Research Communications*, **2014**, 453, 398-404	3.4	21
304	Nova1 is a master regulator of alternative splicing in pancreatic beta cells. *Nucleic Acids Research*, **2014**, 42, 11818-30	20.1	53
303	Encapsulated islets for diabetes therapy: history, current progress, and critical issues requiring solution. *Advanced Drug Delivery Reviews*, **2014**, 67-68, 35-73	18.5	217
302	Are we overestimating the loss of beta cells in type 2 diabetes?. *Diabetologia*, **2014**, 57, 362-5	10.3	85
301	Automated assessment of -cell area and density per islet and patient using TMEM27 and BACE2 immunofluorescence staining in human pancreatic -cells. *PLoS ONE*, **2014**, 9, e98932	3.7	7
300	The -Cell in Human Type 2 Diabetes **2014**, 1-13		
299	Sirtuin 3 regulates mouse pancreatic beta cell function and is suppressed in pancreatic islets isolated from human type 2 diabetic patients. *Diabetologia*, **2013**, 56, 1068-77	10.3	85
298	Adiponectin increases glucose-induced insulin secretion through the activation of lipid oxidation. *Acta Diabetologica*, **2013**, 50, 851-7	3.9	19
297	Physiology of incretins and loss of incretin effect in type 2 diabetes and obesity. *Archives of Physiology and Biochemistry*, **2013**, 119, 170-8	2.2	20
296	Direct effects of rosuvastatin on pancreatic human beta cells. *Acta Diabetologica*, **2013**, 50, 983-5	3.9	8
295	Metabolic and cardiovascular effects of beta cell replacement in type 1 diabetes. *Internal and Emergency Medicine*, **2013**, 8 Suppl 1, S55-6	3.7	2
294	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, 2456-66	10.3	53
293	Reduction of circulating neutrophils precedes and accompanies type 1 diabetes. *Diabetes*, **2013**, 62, 2072-7	8.1	140
292	Microarray analysis of isolated human islet transcriptome in type 2 diabetes and the role of the ubiquitin-proteasome system in pancreatic beta cell dysfunction. *Molecular and Cellular Endocrinology*, **2013**, 367, 1-10	4.4	57
291	Glucagon-like peptide-1 protects human islets against cytokine-mediated -cell dysfunction and death: a proteomic study of the pathways involved. *Journal of Proteome Research*, **2013**, 12, 4193-206	5.6	21
290	-Cell inflammation in human type 2 diabetes and the role of autophagy. *Diabetes, Obesity and Metabolism*, **2013**, 15 Suppl 3, 130-6	6.7	28
289	Joint effect of insulin signaling genes on insulin secretion and glucose homeostasis. *Journal of Clinical Endocrinology and Metabolism*, **2013**, 98, E1143-7	5.6	13
288	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	6	132

287	tRNA methyltransferase homolog gene TRMT10A mutation in young onset diabetes and primary microcephaly in humans. *PLoS Genetics*, **2013**, 9, e1003888	6	75
286	Follow-up of secondary diabetic complications after pancreas transplantation. *Current Opinion in Organ Transplantation*, **2013**, 18, 102-10	2.5	36
285	Improved protocol for laser microdissection of human pancreatic islets from surgical specimens. *Journal of Visualized Experiments*, **2013**,	1.6	15
284	Lipotoxicity disrupts incretin-regulated human □cell connectivity. *Journal of Clinical Investigation*, **2013**, 123, 4182-94	15.9	155
283	Ectopic expression of FSH receptor isoforms in neoplastic but not in endothelial cells from pancreatic neuroendocrine tumors. *Journal of Endocrinological Investigation*, **2013**, 36, 174-9	5.2	10
282	Influence of mitochondrial membrane potential of spermatozoa on in vitro fertilisation outcome. *Andrologia*, **2012**, 44, 136-41	2.4	45
281	Immune Protection for Transplanted Pancreatic Islets by Nano-Encapsulation Strategies **2012**, 248-269		
280	A local glucagon-like peptide 1 (GLP-1) system in human pancreatic islets. *Diabetologia*, **2012**, 55, 3262-72	10.3	175
279	Central role and mechanisms of □cell dysfunction and death in friedreich ataxia-associated diabetes. *Annals of Neurology*, **2012**, 72, 971-82	9.4	60
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4	SARS-CoV-2 receptor Angiotensin I-Converting Enzyme type 2 (ACE2) is expressed in human pancreatic cells and in the human pancreas microvasculature		6
3	The impact of pro-inflammatory cytokines on the cell regulatory landscape provides new insights into the genetics of type 1 diabetes		4
2	Glucose-dependent miR-125b is a negative regulator of cell function		1
1	Reduced miR-184-3p expression occurring in Type 2 diabetic pancreatic islets protects cells from lipotoxic and proinflammatory apoptosis via a CRTC1-dependent mechanism		2