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Diabetes mellitus and the β cell: the last ten years

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704	An advanced method for identifying protein-protein interaction by analyzing TAP/MS data. 2012 ,		
703	The emerging landscape of childhood diabetes: unraveling the diagnosis. 2012 , 2, 521-535		1
702	Unanchoring integrins in focal adhesions. 2012 , 14, 981-3		18
701	Investigating the pathogenesis and risk of Type 2 diabetes: clinical applications of metabolomics. 2012 , 7, 641-659		10
700	Harnessing the immunomodulatory and tissue repair properties of mesenchymal stem cells to restore β cell function. 2012 , 12, 612-22		31
699	Monogenic models: what have the single gene disorders taught us?. 2012 , 12, 659-66		20

698	Ultrastructural morphometric analysis of insulin secretory granules in human type 2 diabetes. 2012 , 49 Suppl 1, S247-52	27
697	Integrating insulin secretion and ER stress in pancreatic β cells. 2012 , 14, 979-81	19
696	Redox homeostasis in pancreatic β cells. 2012 , 2012, 932838	27
695	Minireview: Toward the establishment of a link between melatonin and glucose homeostasis: association of melatonin MT2 receptor variants with type 2 diabetes. 2013 , 27, 1217-33	42
694	The role of osteocalcin in human glucose metabolism: marker or mediator?. 2013 , 9, 43-55	153
693	Systematic identification of interaction effects between genome- and environment-wide associations in type 2 diabetes mellitus. 2013 , 132, 495-508	86
692	Interventions to preserve beta-cell function in the management and prevention of type 2 diabetes. 2013 , 13, 252-60	35
691	Mangiferin from <i>Salacia chinensis</i> prevents oxidative stress and protects pancreatic β cells in streptozotocin-induced diabetic rats. 2013 , 16, 719-27	38
690	Insulin biosynthetic interaction network component, TMEM24, facilitates insulin reserve pool release. 2013 , 4, 921-30	30
689	Hypoxia-inducible factor 1 β regulates a SOCS3-STAT3-adiponectin signal transduction pathway in adipocytes. 2013 , 288, 3844-57	50
688	Mouse Models of β cell K Channel Dysfunction. 2013 , 10, e101-e109	2
687	Imaging energy status in live cells with a fluorescent biosensor of the intracellular ATP-to-ADP ratio. 2013 , 4, 2550	239
686	Local cAMP signaling in disease at a glance. 2013 , 126, 4537-43	53
685	Islet amyloid polypeptide toxicity and membrane interactions. 2013 , 110, 19279-84	109
684	K(ATP) channels and islet hormone secretion: new insights and controversies. 2013 , 9, 660-9	166
683	Natural product vindoline stimulates insulin secretion and efficiently ameliorates glucose homeostasis in diabetic murine models. 2013 , 150, 285-97	33
682	How to make a functional β cell. 2013 , 140, 2472-83	171
681	Glucose principally regulates insulin secretion in mouse islets by controlling the numbers of granule fusion events per cell. 2013 , 56, 2629-37	35

680	MicroRNAs in cardiovascular health: from order to disorder. 2013 , 154, 4000-9	20
679	Diabetes mellitus. 2013 , 7-15	
678	Adenosine-to-inosine RNA editing and human disease. 2013 , 5, 105	167
677	Monogenic diabetes: a diagnostic algorithm for clinicians. 2013 , 4, 522-35	14
676	Regulation of insulin secretion in human pancreatic islets. 2013 , 75, 155-79	399
675	Identification of hydroxychavicol and its dimers, the lipase inhibitors contained in the Indonesian spice, <i>Eugenia polyantha</i> . 2013 , 136, 1239-42	13
674	Anneau, bypass ou sleeve : que choisir ?. 2013 , 150, 104-115	
673	Adjustable gastric banding, sleeve gastrectomy or gastric bypass. Can evidence-based medicine help us to choose?. 2013 , 150, 85-95	16
672	Evaluating insulin secretagogues in a humanized mouse model with functional human islets. 2013 , 62, 90-9	11
671	The Human Diabetes Proteome Project (HDPP): From network biology to targets for therapies and prevention. 2013 , 1, 3-11	18
670	Targeting versus tinkering: explaining why the clinic is frustrated with molecular mapping of disease mechanisms. 2013 , 81, 553-6	1
669	MicroRNAs in metabolic disease. 2013 , 33, 178-85	183
668	Beta cell dynamics: beta cell replenishment, beta cell compensation and diabetes. 2013 , 44, 303-11	18
667	Mechanisms of islet amyloidosis toxicity in type 2 diabetes. 2013 , 587, 1119-27	135
666	Endogenous metabolites as ligands for G protein-coupled receptors modulating risk factors for metabolic and cardiovascular disease. 2013 , 304, H501-13	11
665	Racial/ethnic differences in clinical and biochemical type 2 diabetes mellitus risk factors in children. 2013 , 21, 2081-90	22
664	Predictors and prevention of diabetic cardiomyopathy. 2013 , 6, 151-60	59
663	Loss of sphingosine kinase 1 predisposes to the onset of diabetes via promoting pancreatic β cell death in diet-induced obese mice. 2013 , 27, 4294-304	58

662	Reconstituting pancreas development from purified progenitor cells reveals genes essential for islet differentiation. 2013 , 110, 12691-6	50
661	Role of reduced β cell mass versus impaired β cell function in the pathogenesis of type 2 diabetes. 2013 , 36 Suppl 2, S113-9	153
660	First-born children have reduced insulin sensitivity and higher daytime blood pressure compared to later-born children. 2013 , 98, 1248-53	50
659	In vivo JNK activation in pancreatic β cells leads to glucose intolerance caused by insulin resistance in pancreas. 2013 , 62, 2308-17	36
658	T2D@ZJU: a knowledgebase integrating heterogeneous connections associated with type 2 diabetes mellitus. 2013 , 2013, bat052	21
657	PICK1 and ICA69 control insulin granule trafficking and their deficiencies lead to impaired glucose tolerance. 2013 , 11, e1001541	50
656	Insulin-resistance-associated compensatory mechanisms of pancreatic Beta cells: a current opinion. 2013 , 4, 146	21
655	Beta cell dysfunction and insulin resistance. 2013 , 4, 37	373
654	Pathogenesis of the metabolic syndrome: insights from monogenic disorders. 2013 , 2013, 920214	9
653	Association of intercellular adhesion molecule 1 (ICAM1) with diabetes and diabetic nephropathy. 2012 , 3, 179	33
652	Adipokines mediate inflammation and insulin resistance. 2013 , 4, 71	344
651	PICK1 deficiency impairs secretory vesicle biogenesis and leads to growth retardation and decreased glucose tolerance. 2013 , 11, e1001542	57
650	Epigenomic plasticity enables human pancreatic β cell reprogramming. 2013 , 123, 1275-84	294
649	Autosomal dominant diabetes arising from a Wolfram syndrome 1 mutation. 2013 , 62, 3943-50	75
648	Long term effects of the implantation of Wharton's jelly-derived mesenchymal stem cells from the umbilical cord for newly-onset type 1 diabetes mellitus. 2013 , 60, 347-57	136
647	Intermittent hypoxia exacerbates pancreatic β cell dysfunction in a mouse model of diabetes mellitus. 2013 , 36, 1849-58	33
646	Oxidative stress and birth defects in infants of women with pregestational diabetes. 2013 , 15, 37-40	5
645	Expansion and conversion of human pancreatic ductal cells into insulin-secreting endocrine cells. 2013 , 2, e00940	105

644	Stimulating β cell regeneration by combining a GPR119 agonist with a DPP-IV inhibitor. 2013 , 8, e53345	30
643	Complex disease interventions from a network model for type 2 diabetes. 2013 , 8, e65854	9
642	Gastric inhibitory polypeptide receptor methylation in newly diagnosed, drug-naïve patients with type 2 diabetes: a case-control study. 2013 , 8, e75474	10
641	ADIPONECTIN REGULATION IN TYPE 2 DIABETIC RATS: EFFECTS OF INSULIN, METFORMIN AND DEXAMETHASONE. 2013 , 8, 197-208	4
640	Glucagon-like peptide 1 receptor agonists regulate beta-cell glucose competence by epigenetic silencing of Fxyd3 expression. 2014 , 9, e103277	6
639	Human fetal pancreatic Beta cell lines: new tools to study Beta cell cycle and terminal differentiation. 2014 , 9, e108202	13
638	A network pharmacology approach to determine active compounds and action mechanisms of ge-gen-qin-lian decoction for treatment of type 2 diabetes. 2014 , 2014, 495840	86
637	Functional implications of long non-coding RNAs in the pancreatic islets of Langerhans. 2014 , 5, 209	34
636	Vaccines for metabolic diseases: current perspectives. 2014 , 55	
635	Bone-specific insulin resistance disrupts whole-body glucose homeostasis via decreased osteocalcin activation. 2014 , 124, 1-13	171
634	Impact of type 2 diabetes susceptibility variants on quantitative glycemic traits reveals mechanistic heterogeneity. 2014 , 63, 2158-71	235
633	Effect of Nε-carboxymethyllysine on oxidative stress and the glutathione system in beta cells. 2014 , 1, 973-980	9
632	Dyrk1A induces pancreatic β cell mass expansion and improves glucose tolerance. 2014 , 13, 2221-9	38
631	Association of dioxin and other persistent organic pollutants (POPs) with diabetes: epidemiological evidence and new mechanisms of beta cell dysfunction. 2014 , 15, 7787-811	26
630	Thioredoxin/Txnip: redoxosome, as a redox switch for the pathogenesis of diseases. 2014 , 4, 514	189
629	RFX6 regulates insulin secretion by modulating Ca ²⁺ homeostasis in human β cells. 2014 , 9, 2206-18	51
628	Methylenetetrahydrofolate reductase A1298C polymorphism and diabetes risk: evidence from a meta-analysis. 2014 , 36, 1013-7	7
627	Insights into β -Cell Biology and Type 2 Diabetes Pathogenesis from Studies of the Islet Transcriptome. 2014 , 111-121	

626	Exposure to high levels of glucose increases the expression levels of genes involved in cholesterol biosynthesis in rat islets. 2014 , 8, 991-997	8
625	Architecture and Morphology of Human Pancreatic Islets. 2014 , 257-268	
624	Reversible changes in pancreatic islet structure and function produced by elevated blood glucose. 2014 , 5, 4639	153
623	Management of patients using combination therapy with pioglitazone and a dipeptidyl peptidase-4 inhibitor: an analysis of initial versus sequential combination therapy. 2014 , 126, 47-55	
622	Cellular inhibitor of apoptosis protein-1 and survival of beta cells undergoing endoplasmic reticulum stress. 2014 , 95, 269-98	3
621	Is diabetes in Cushing's syndrome only a consequence of hypercortisolism?. 2014 , 170, 311-9	45
620	BLX-1002 restores glucose sensitivity and enhances insulin secretion stimulated by GLP-1 and sulfonylurea in type 2 diabetic pancreatic islets. 2014 , 2, e12014	
619	Chlorella protects against hydrogen peroxide-induced pancreatic β cell damage. 2014 , 17, 1273-80	4
618	Deoxysphingolipids, novel biomarkers for type 2 diabetes, are cytotoxic for insulin-producing cells. 2014 , 63, 1326-39	74
617	A Case of a Patient With Type 2 Diabetes and Respiratory Comorbidities. 2014 , 29, 313-324	2
616	Protein phosphatases in pancreatic islets. 2014 , 221, R121-44	16
615	Vitamin K: dietary intake and requirements in different clinical conditions. 2014 , 17, 531-8	23
614	Stem cells for pancreatic β cell replacement in diabetes mellitus: actual perspectives. 2014 , 19, 162-8	18
613	Age-related impairment of pancreatic Beta-cell function: pathophysiological and cellular mechanisms. 2014 , 5, 138	65
612	Detection of insulin granule exocytosis by an electrophysiology method with high temporal resolution reveals enlarged insulin granule pool in BIG3-knockout mice. 2014 , 307, E611-8	10
611	Diabetes mellitus and cellular replacement therapy: Expected clinical potential and perspectives. 2014 , 5, 777-86	15
610	Metabolism-secretion coupling and mitochondrial calcium activities in clonal pancreatic β cells. 2014 , 95, 63-86	3
609	High-intensity exercise training for the prevention of type 2 diabetes mellitus. 2014 , 42, 7-14	14

608	Revealing transcription factors during human pancreatic β cell development. 2014 , 25, 407-14	47
607	Malondialdehyde regulates glucose-stimulated insulin secretion in murine islets via TCF7L2-dependent Wnt signaling pathway. 2014 , 382, 8-16	24
606	Rare insights into cancer biology. 2014 , 33, 2547-56	66
605	Targeting the pancreatic β cell to treat diabetes. 2014 , 13, 278-89	192
604	Genome-wide association study identifies three novel loci for type 2 diabetes. 2014 , 23, 239-46	138
603	Dyrk1a haploinsufficiency induces diabetes in mice through decreased pancreatic beta cell mass. 2014 , 57, 960-9	30
602	Analysis of a sample of type 2 diabetic patients with obesity or overweight and at cardiovascular risk: a cross sectional study in Spain. 2014 , 7, 48	4
601	Diabetes. Solving human β cell development--what does the mouse say?. 2014 , 10, 253-5	3
600	Hydrolase domain-6-accessible monoacylglycerol controls glucose-stimulated insulin secretion. 2014 , 19, 993-1007	88
599	Involvement of cAMP/EPAC/TRPM2 activation in glucose- and incretin-induced insulin secretion. 2014 , 63, 3394-403	42
598	Insulin resistance and hyperglycaemia in cardiovascular disease development. 2014 , 10, 293-302	285
597	Pancreatic islet enhancer clusters enriched in type 2 diabetes risk-associated variants. 2014 , 46, 136-143	366
596	Glycemic control in diabetes is restored by therapeutic manipulation of cytokines that regulate beta cell stress. 2014 , 20, 1417-26	169
595	SIK2 regulates insulin secretion. 2014 , 16, 210-2	2
594	Calcium signaling in pancreatic β cells in health and in Type 2 diabetes. 2014 , 56, 340-61	125
593	Antioxidant signaling involving the microtubule motor KIF12 is an intracellular target of nutrition excess in beta cells. 2014 , 31, 202-14	20
592	Recessive mutations in PCBD1 cause a new type of early-onset diabetes. 2014 , 63, 3557-64	29
591	The control of insulin secretion by adipokines: current evidence for adipocyte-beta cell endocrine signalling in metabolic homeostasis. 2014 , 25, 442-54	44

590	Involvement of gene methylation changes in the differentiation of human amniotic epithelial cells into islet-like cell clusters. 2014 , 33, 591-8	2
589	Ionic mechanisms in pancreatic β cell signaling. 2014 , 71, 4149-77	56
588	Adipsin is an adipokine that improves β cell function in diabetes. <i>Cell</i> , 2014 , 158, 41-53	56.2 217
587	The pancreatic β cell: recent insights from human genetics. 2014 , 25, 425-34	23
586	Aspirin, diabetes, and amyloid: re-examination of the inhibition of amyloid formation by aspirin and ketoprofen. 2014 , 9, 1632-7	8
585	DOC2 isoforms play dual roles in insulin secretion and insulin-stimulated glucose uptake. 2014 , 57, 2173-82	20
584	Increased DNase I activity in diabetes might be associated with injury of pancreas. 2014 , 393, 23-32	22
583	Cellular reprogramming for pancreatic β cell regeneration: clinical potential of small molecule control. 2014 , 3, 6	14
582	Chronic high glucose and pyruvate levels differentially affect mitochondrial bioenergetics and fuel-stimulated insulin secretion from clonal INS-1 832/13 cells. 2014 , 289, 3786-98	31
581	CFTR and Anoctamin 1 (ANO1) contribute to cAMP amplified exocytosis and insulin secretion in human and murine pancreatic beta-cells. 2014 , 12, 87	79
580	A phospho-BAD BH3 helix activates glucokinase by a mechanism distinct from that of allosteric activators. 2014 , 21, 36-42	42
579	Efficacy and safety of the dipeptidyl peptidase-4 inhibitor sitagliptin compared with β glucosidase inhibitor in Japanese patients with type 2 diabetes inadequately controlled on sulfonylurea alone (SUCCESS-2): a multicenter, randomized, open-label, non-inferiority trial. 2014 , 16, 761-5	14
578	A microRNA-operated switch of asymmetric-to-symmetric cancer stem cell divisions. 2014 , 16, 212-4	28
577	Prevention by metformin of alterations induced by chronic exposure to high glucose in human islet beta cells is associated with preserved ATP/ADP ratio. 2014 , 104, 163-70	33
576	Diagnosis and classification of autoimmune diabetes mellitus. 2014 , 13, 403-7	88
575	A role for trans-caryophyllene in the moderation of insulin secretion. 2014 , 444, 451-4	32
574	Inhibition of human insulin gene transcription and MafA transcriptional activity by the dual leucine zipper kinase. 2014 , 26, 1792-9	7
573	Carboxyl-ester lipase maturity-onset diabetes of the young is associated with development of pancreatic cysts and upregulated MAPK signaling in secretin-stimulated duodenal fluid. 2014 , 63, 259-69	23

572	Acute exposure of beta-cells to troglitazone decreases insulin hypersecretion via activating AMPK. 2014 , 1840, 577-85	15
571	Glutathione peroxidase mimic ebselen improves glucose-stimulated insulin secretion in murine islets. 2014 , 20, 191-203	38
570	How Ca ²⁺ Regulates Animal Cell Physiology. 2014 , 313-387	
569	Bibliography. 2014 , 617-737	
568	Na ⁺ current properties in islet β and α cells reflect cell-specific Scn3a and Scn9a expression. 2014 , 592, 4677-96	60
567	Optische Kontrolle der Insulinsekretion mit einem Inkretinschalter. 2015 , 127, 15786-15790	7
566	Age-Dependent Onset of Insulin Resistance in Insulin-Resistant Mice. 2015 , 38, 1925-34	4
565	Diabetic pdx1-mutant zebrafish show conserved responses to nutrient overload and anti-glycemic treatment. 2015 , 5, 14241	40
564	The Soybean Peptide Vglycin Preserves the Diabetic β cells through Improvement of Proliferation and Inhibition of Apoptosis. 2015 , 5, 15599	13
563	Higher plasma betatrophin/ANGPTL8 level in Type 2 Diabetes subjects does not correlate with blood glucose or insulin resistance. 2015 , 5, 10949	82
562	Lepr(db) mouse model of type 2 diabetes: pancreatic islet isolation and live-cell 2-photon imaging of intact islets. 2015 , e52632	10
561	Lack of associations between betatrophin/ANGPTL8 level and C-peptide in type 2 diabetic subjects. 2015 , 14, 112	22
560	Joint Consensus Statement of the American Academy of Sleep Medicine and Sleep Research Society on the Recommended Amount of Sleep for a Healthy Adult: Methodology and Discussion. 2015 , 38, 1161-83	380
559	Developing Therapies with Functional Beta Cells to Treat Diabetes. 2015 , 2015, 41-66	1
558	The TrxG Complex Mediates Cytokine Induced De Novo Enhancer Formation in Islets. 2015 , 10, e0141470	7
557	Medicinal Plants Qua Glucagon-Like Peptide-1 Secretagogue via Intestinal Nutrient Sensors. 2015 , 2015, 171742	11
556	Delta Cell Hyperplasia in Adult Goto-Kakizaki (GK/MolTac) Diabetic Rats. 2015 , 2015, 385395	13
555	Joint Consensus Statement of the American Academy of Sleep Medicine and Sleep Research Society on the Recommended Amount of Sleep for a Healthy Adult: Methodology and Discussion. 2015 , 11, 931-52	175

554	Type 2 diabetes mellitus: From a metabolic disorder to an inflammatory condition. 2015 , 6, 598-612	198
553	Inhibition of the malate-aspartate shuttle in mouse pancreatic islets abolishes glucagon secretion without affecting insulin secretion. 2015 , 468, 49-63	10
552	Associated autoimmune diseases in children and adolescents with type 1 diabetes mellitus (T1DM). 2015 , 14, 781-97	66
551	Optical Control of Insulin Secretion Using an Incretin Switch. 2015 , 54, 15565-9	60
550	Polymorphism in microRNA-binding site in HNF1B influences the susceptibility of type 2 diabetes mellitus: a population based case-control study. 2015 , 16, 75	21
549	Thrombin stimulates insulin secretion via protease-activated receptor-3. 2015 , 7, e1118195	13
548	A primer of NAADP-mediated Ca(2+) signalling: From sea urchin eggs to mammalian cells. 2015 , 58, 27-47	90
547	Insulin secretion from beta cells within intact islets: location matters. 2015 , 42, 406-14	25
546	Epigenetic alterations caused by nutritional stress during fetal programming of the endocrine pancreas. 2015 , 46, 93-100	8
545	Influence of maternal overnutrition and gestational diabetes on the programming of metabolic health outcomes in the offspring: experimental evidence. 2015 , 93, 438-51	34
544	The Edges of Pancreatic Islet β Cells Constitute Adhesive and Signaling Microdomains. 2015 , 10, 317-325	39
543	Essential role of mitochondrial Ca ²⁺ uniporter in the generation of mitochondrial pH gradient and metabolism-secretion coupling in insulin-releasing cells. 2015 , 290, 4086-96	47
542	Loss of FFA2 and FFA3 increases insulin secretion and improves glucose tolerance in type 2 diabetes. 2015 , 21, 173-7	188
541	In vivo reprogramming for tissue repair. 2015 , 17, 204-11	64
540	Bicaudal C1 promotes pancreatic NEUROG3+ endocrine progenitor differentiation and ductal morphogenesis. 2015 , 142, 858-70	14
539	Diabetogenic milieus induce specific changes in mitochondrial transcriptome and differentiation of human pancreatic islets. 2015 , 24, 5270-84	23
538	p13 overexpression in pancreatic β cells ameliorates type 2 diabetes in high-fat-fed mice. 2015 , 461, 612-7	6
537	Optimization of insulin pump therapy based on high order run-to-run control scheme. 2015 , 120, 123-34	17

536	To Be(ta Cell) or Not to Be(ta cell): New Mouse Models for Studying Gene Function in the Pancreatic β Cell. 2015 , 156, 2365-7	4
535	Activation of innate immunity modulates insulin sensitivity, glucose effectiveness and pancreatic β cell function in both African ancestry and European ancestry healthy humans. 2015 , 64, 513-520	11
534	Type 2 diabetes mellitus: limitations of conventional therapies and intervention with nucleic acid-based therapeutics. 2015 , 115, 4719-43	49
533	Slow potentials encode intercellular coupling and insulin demand in pancreatic beta cells. 2015 , 58, 1291-9	29
532	Multilevel control of glucose homeostasis by adenylyl cyclase 8. 2015 , 58, 749-57	20
531	CNC-bZIP protein Nrf1-dependent regulation of glucose-stimulated insulin secretion. 2015 , 22, 819-31	45
530	Salt-Inducible Kinase 1 Terminates cAMP Signaling by an Evolutionarily Conserved Negative-Feedback Loop in β Cells. 2015 , 64, 3189-202	24
529	H ₂ O ₂ -Activated Mitochondrial Phospholipase iPLA ₂ Prevents Lipotoxic Oxidative Stress in Synergy with UCP2, Amplifies Signaling via G-Protein-Coupled Receptor GPR40, and Regulates Insulin Secretion in Pancreatic β Cells. 2015 , 23, 958-72	32
528	Optogenetic control of insulin secretion by pancreatic β cells in vitro and in vivo. 2015 , 22, 553-9	27
527	Calcium influx activates adenylyl cyclase 8 for sustained insulin secretion in rat pancreatic beta cells. 2015 , 58, 324-33	28
526	Yhhu4488, a novel GPR40 agonist, promotes GLP-1 secretion and exerts anti-diabetic effect in rodent models. 2015 , 466, 740-7	12
525	Arsenic and human health effects: A review. 2015 , 40, 828-46	421
524	Dynamics of glucose-induced insulin secretion in normal human islets. 2015 , 309, E640-50	52
523	Human pluripotent stem cell based islet models for diabetes research. 2015 , 29, 899-909	17
522	Two-photon fluorescence lifetime imaging of primed SNARE complexes in presynaptic terminals and β cells. 2015 , 6, 8531	28
521	IL-1 β reciprocally regulates chemokine and insulin secretion in pancreatic β cells via NF- κ B. 2015 , 309, E715-26	50
520	Minireview: Directed Differentiation and Encapsulation of Islet β Cells-Recent Advances and Future Considerations. 2015 , 29, 1388-99	9
519	Macrophage migration inhibitory factor promotes expression of GLUT4 glucose transporter through MEF2 and Zac1 in cardiomyocytes. 2015 , 64, 1682-93	9

518	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic β Cells. 2015 , 290, 21376-92	43
517	Transcriptional Regulation of the Pancreatic Islet: Implications for Islet Function. 2015 , 15, 66	10
516	Pleiotropic actions of iron balance in diabetes mellitus. 2015 , 16, 15-23	28
515	Circulating SFRP5 levels are elevated in drug-naïve recently diagnosed type 2 diabetic patients as compared with prediabetic subjects and controls. 2015 , 31, 212-9	23
514	Streptozotocin diabetogenic action in an experimental neonatal induction model. 2016 , 36, 230-8	7
513	High-Fat Diets and β Cell Dysfunction. 2016 , 115-130	1
512	Islet Amyloid Polypeptide: Structure, Function, and Pathophysiology. 2016 , 2016, 2798269	127
511	The Role of HMGB1 in the Pathogenesis of Type 2 Diabetes. 2016 , 2016, 2543268	49
510	Time-resolved studies define the nature of toxic IAPP intermediates, providing insight for anti-amyloidosis therapeutics. 2016 , 5,	85
509	The Importance of Context: Uncovering Species- and Tissue-Specific Effects of Genetic Risk Variants for Type 2 Diabetes. 2016 , 7, 112	2
508	Recent Advances in Disease Modeling and Drug Discovery for Diabetes Mellitus Using Induced Pluripotent Stem Cells. 2016 , 17, 256	22
507	Combination of Telmisartan and Linagliptin Preserves Pancreatic Islet Cell Function and Morphology in db/db Mice. 2016 , 45, 584-92	8
506	Nardilysin Is Required for Maintaining Pancreatic β Cell Function. 2016 , 65, 3015-27	14
505	Diabetic Risk Factors Promote Islet Amyloid Polypeptide Misfolding by a Common, Membrane-mediated Mechanism. 2016 , 6, 31094	8
504	Potential role of Hsp90 in rat islet function under the condition of high glucose. 2016 , 53, 621-8	7
503	Type 2 diabetes: A 21st century epidemic. 2016 , 30, 331-43	119
502	Intracellular and extracellular pH dynamics in the human placenta from diabetes mellitus. 2016 , 43, 47-53	10
501	Histone deacetylase inhibition regulates miR-449a levels in skeletal muscle cells. 2016 , 11, 579-87	14

500	Chronic Activation of β AMPK Induces Obesity and Reduces β Cell Function. 2016 , 23, 821-36	66
499	ERR α s Required for the Metabolic Maturation of Therapeutically Functional Glucose-Responsive β Cells. 2016 , 23, 622-34	102
498	The Genetics of Type 2 Diabetes and Related Traits. 2016 ,	3
497	Cell Programming for Future Regenerative Medicine. 2016 , 389-424	
496	Epigenetic changes in diabetes. 2016 , 625, 64-9	36
495	Regenerative Medicine - from Protocol to Patient. 2016 ,	0
494	ANGPTL8/Betatrophin R59W variant is associated with higher glucose level in non-diabetic Arabs living in Kuwaits. 2016 , 15, 26	13
493	The β cell burden index of food: A proposal. 2016 , 26, 872-8	1
492	Disallowed and Allowed Gene Expression: Two Faces of Mature Islet Beta Cells. 2016 , 36, 45-71	49
491	In vitro differentiation potential of human haematopoietic CD34(+) cells towards pancreatic β cells. 2016 , 40, 1084-93	3
490	Studying the Genetics of Complex Disease With Ancestry-Specific Human Phenotype Networks: The Case of Type 2 Diabetes in East Asian Populations. 2016 , 40, 293-303	10
489	Exocytosis in non-neuronal cells. 2016 , 137, 849-59	21
488	β cell differentiation status in type 2 diabetes. 2016 , 18, 1167-1175	17
487	A supervised learning framework for pancreatic islet segmentation with multi-scale color-texture features and rolling guidance filters. 2016 , 89, 893-902	2
486	Glucose and GTP-binding protein-coupled receptor cooperatively regulate transient receptor potential-channels to stimulate insulin secretion [Review]. 2016 , 63, 867-876	6
485	RNA Sequencing of Single Human Islet Cells Reveals Type 2 Diabetes Genes. 2016 , 24, 608-615	298
484	Integration of superoxide formation and cristae morphology for mitochondrial redox signaling. 2016 , 80, 31-50	38
483	Blood-based biomarkers of age-associated epigenetic changes in human islets associate with insulin secretion and diabetes. 2016 , 7, 11089	145

482	Increased serum microRNAs are closely associated with the presence of microvascular complications in type 2 diabetes mellitus. 2016 , 6, 20032	72
481	Islet-like organoids derived from human pluripotent stem cells efficiently function in the glucose responsiveness in vitro and in vivo. 2016 , 6, 35145	51
480	Insulin promotes proliferation and fibrosing responses in activated pancreatic stellate cells. 2016 , 311, G675-G687	32
479	Changes in beta cell function occur in prediabetes and early disease in the Lepr (db) mouse model of diabetes. 2016 , 59, 1222-30	25
478	A comprehensive lipidomic screen of pancreatic β cells using mass spectroscopy defines novel features of glucose-stimulated turnover of neutral lipids, sphingolipids and plasmalogens. 2016 , 5, 404-414	16
477	RNA-binding protein CUGBP1 regulates insulin secretion via activation of phosphodiesterase 3B in mice. 2016 , 59, 1959-67	8
476	Disrupted dynamics of F-actin and insulin granule fusion in INS-1 832/13 beta-cells exposed to glucotoxicity: partial restoration by glucagon-like peptide 1. 2016 , 1862, 1401-11	8
475	Insights from Monogenic Diabetes. 2016 , 223-240	
474	Epigenetics in Type 2 Diabetes. 2016 , 241-258	
473	DYRK1A: A Promising Drug Target for Islet Transplant-Based Diabetes Therapies. 2016 , 65, 1496-8	13
472	Do the human umbilical cord blood CD34+ progenitor cells home in the pancreas and kidney of diabetic mice?. 2016 , 36, 70-74	1
471	Expression of glucokinase, glucose 6-phosphatase, and stress protein in streptozotocin-induced diabetic rats treated with natural honey. 2016 , 36, 125-131	5
470	The impact of personalized medicine of Type 2 diabetes mellitus in the global health context. 2016 , 13, 381-393	2
469	Xenopus as a model system for studying pancreatic development and diabetes. 2016 , 51, 106-16	6
468	Genetic markers predicting sulphonylurea treatment outcomes in type 2 diabetes patients: current evidence and challenges for clinical implementation. 2016 , 16, 209-19	21
467	Dramatis Personae in β Cell Mass Regulation: Enter SerpinB1. 2016 , 23, 8-10	4
466	Highly Robust Nanopore-Based Dual-Signal-Output Ion Detection System for Achieving Three Successive Calibration Curves. 2016 , 88, 2386-91	35
465	Beta-cell mitochondrial carriers and the diabetogenic stress response. 2016 , 1863, 2540-9	25

464	Increased Expression of the Diabetes Gene SOX4 Reduces Insulin Secretion by Impaired Fusion Pore Expansion. 2016 , 65, 1952-61	39
463	Oxidative and endoplasmic reticulum stress in β cell dysfunction in diabetes. 2016 , 56, R33-54	151
462	A Correlative Relationship Between Chronic Pain and Insulin Resistance in Zucker Fatty Rats: Role of Downregulation of Insulin Receptors. 2016 , 17, 404-13	11
461	Isoxazole Alters Metabolites and Gene Expression, Decreasing Proliferation and Promoting a Neuroendocrine Phenotype in β Cells. 2016 , 11, 1128-36	18
460	Type II PKAs are anchored to mature insulin secretory granules in INS-1 β cells and required for cAMP-dependent potentiation of exocytosis. 2016 , 125, 32-41	5
459	Improving the physiological realism of experimental models. 2016 , 6, 20150076	3
458	Use of the Fluidigm C1 platform for RNA sequencing of single mouse pancreatic islet cells. 2016 , 113, 3293-8	104
457	Emerging Role of Nitric Oxide and Heat Shock Proteins in Insulin Resistance. 2016 , 18, 1	45
456	Controlled downregulation of the cannabinoid CB1 receptor provides a promising approach for the treatment of obesity and obesity-derived type 2 diabetes. 2016 , 21, 1-7	24
455	Molecular and cellular mechanisms linking inflammation to insulin resistance and β cell dysfunction. 2016 , 167, 228-56	158
454	Effect of cinnamon supplementation on glucose, lipids levels, glomerular filtration rate, and blood pressure of subjects with type 2 diabetes mellitus. 2016 , 7, 124-132	19
453	The Role of Oxidative Stress and Hypoxia in Pancreatic Beta-Cell Dysfunction in Diabetes Mellitus. 2017 , 26, 501-518	273
452	Association of serum pancreatic derived factor (PANDER) with beta-cell dysfunction in type 2 diabetes mellitus. 2017 , 31, 748-752	8
451	Loss of Cyclin-dependent Kinase 2 in the Pancreas Links Primary β Cell Dysfunction to Progressive Depletion of β Cell Mass and Diabetes. 2017 , 292, 3841-3853	30
450	Peroxisomal Dysfunction in Age-Related Diseases. 2017 , 28, 297-308	88
449	Loss of β 1 Calcium Channel Subunit Function Increases the Susceptibility for Diabetes. 2017 , 66, 897-907	21
448	Effect of Chinese herbal medicine on stroke patients with type 2 diabetes. 2017 , 200, 31-44	15
447	Calcium pre-conditioning substitution enhances viability and glucose sensitivity of pancreatic beta-cells encapsulated using polyelectrolyte multilayer coating method. 2017 , 7, 43171	4

446	Role of NMDA Receptors in Pancreatic Islets. 2017 , 121-134	2
445	Diabetes Secondary to Treatment with Statins. 2017 , 17, 10	28
444	The small RNA miR-375 - a pancreatic islet abundant miRNA with multiple roles in endocrine beta cell function. 2017 , 456, 95-101	53
443	Sphingosine kinase 1-interacting protein is a novel regulator of glucose-stimulated insulin secretion. 2017 , 7, 779	4
442	Next Generation Sequencing Based Clinical Molecular Diagnosis of Human Genetic Disorders. 2017 ,	0
441	Hypoglycemic and anti-inflammatory effects of <i>Psacalium paucicapitatum</i> corms infusions. 2017 , 107, 482-488	6
440	Pancreatic differentiation of induced pluripotent stem cells in activin A-grafted gelatin-poly(lactide-co-glycolide) nanoparticle scaffolds with induction of LY294002 and retinoic acid. 2017 , 77, 384-393	19
439	Protein kinase STK25 aggravates the severity of non-alcoholic fatty pancreas disease in mice. 2017 , 234, 15-27	17
438	GDF11 Attenuates Development of Type 2 Diabetes via Improvement of Islet β Cell Function and Survival. 2017 , 66, 1914-1927	38
437	Mechanisms of the amplifying pathway of insulin secretion in the β cell. 2017 , 179, 17-30	62
436	Next-Generation Sequencing for the Diagnosis of Monogenic Disorders of Insulin Secretion. 2017 , 201-242	
435	Sox5 regulates beta-cell phenotype and is reduced in type 2 diabetes. 2017 , 8, 15652	22
434	Elevated miR-130a/miR130b/miR-152 expression reduces intracellular ATP levels in the pancreatic beta cell. 2017 , 7, 44986	43
433	Functional identification of islet cell types by electrophysiological fingerprinting. 2017 , 14,	33
432	Ultrastructural alterations of pancreatic beta cells in human diabetes mellitus. 2017 , 33, e2894	35
431	Lessons from basic pancreatic beta cell research in type-2 diabetes and vascular complications. 2017 , 8, 139-152	4
430	Endogenous α A-Adrenoceptor-Operated Sympathoadrenergic Tones Attenuate Insulin Secretion via cAMP/TRPM2 Signaling. 2017 , 66, 699-709	18
429	Islet Amyloid Polypeptide Membrane Interactions: Effects of Membrane Composition. 2017 , 56, 376-390	72

428	Gene expression signature: a powerful approach for drug discovery in diabetes. 2017 , 232, R131-R139	6
427	Fumarate Hydratase Deletion in Pancreatic β Cells Leads to Progressive Diabetes. 2017 , 20, 3135-3148	34
426	Alpha TC1 and Beta-TC-6 genomic profiling uncovers both shared and distinct transcriptional regulatory features with their primary islet counterparts. 2017 , 7, 11959	13
425	Low-Dose Persistent Organic Pollutants Impair Insulin Secretory Function of Pancreatic β Cells: Human and In Vitro Evidence. 2017 , 66, 2669-2680	38
424	ANGPTL8 (betatrophin) role in diabetes and metabolic diseases. 2017 , 33, e2919	36
423	Coumarins as potential antidiabetic agents. 2017 , 69, 1253-1264	83
422	Amyloid precursor protein in pancreatic islets. 2017 , 235, 49-67	20
421	Sulfonylureas as Concomitant Insulin Secretagogues and NLRP3 Inflammasome Inhibitors. 2017 , 12, 1449-1457	32
420	Transcribing β cell mitochondria in health and disease. 2017 , 6, 1040-1051	38
419	Upregulation of UCP2 in beta-cells confers partial protection against both oxidative stress and glucotoxicity. 2017 , 13, 541-549	24
418	T2DiACoD: A Gene Atlas of Type 2 Diabetes Mellitus Associated Complex Disorders. 2017 , 7, 6892	20
417	Engineered Epidermal Progenitor Cells Can Correct Diet-Induced Obesity and Diabetes. 2017 , 21, 256-263.e4	25
416	Deterioration of insulin release rate response to glucose during oral glucose tolerance test is associated with an increased risk of incident diabetes in normal glucose tolerance subjects. 2017 , 69, 756-766	1
415	Recent Advances in GLP-1 Receptor Agonists for Use in Diabetes Mellitus. 2017 , 78, 292-299	14
414	Glucose potentiates β cell function by inducing expression in rat islets. 2017 , 31, 5342-5355	9
413	PKM2 aggravates palmitate-induced insulin resistance in HepG2 cells via STAT3 pathway. 2017 , 492, 109-115	7
412	miRNAs: Nanomachines That Micromanage the Pathophysiology of Diabetes Mellitus. 2017 , 82, 199-264	10
411	Fusion pore in exocytosis: More than an exit gate? A β cell perspective. 2017 , 68, 45-61	10

410	deletion in pancreatic β cells impairs proinsulin trafficking and insulin biogenesis in mice. 2017 , 216, 4153-4164	21
409	ATP synthase F_1 subunit abnormality in pancreas islets of rats with polycystic ovary syndrome and type 2 diabetes mellitus. 2017 , 37, 210-216	3
408	Mutant Mice With Calcium-Sensing Receptor Activation Have Hyperglycemia That Is Rectified by Calcilytic Therapy. 2017 , 158, 2486-2502	21
407	The dual DPP4 inhibitor and GPR119 agonist HBK001 regulates glycemic control and beta cell function ex and in vivo. 2017 , 7, 4351	20
406	Lineage conversion of mouse fibroblasts to pancreatic β cells. 2017 , 49, e350	1
405	Recent advances in mathematical modeling and statistical analysis of exocytosis in endocrine cells. 2017 , 283, 60-70	7
404	Dammarane-type triterpene extracts of Panax notoginseng root ameliorates hyperglycemia and insulin sensitivity by enhancing glucose uptake in skeletal muscle. 2017 , 81, 335-342	15
403	Anti-diabetic action of all-trans retinoic acid and the orphan G protein coupled receptor GPRC5C in pancreatic β cells. 2017 , 64, 325-338	20
402	The Pancreatic Islet Regulome Browser. 2017 , 8, 13	21
401	Evidence for Loss in Identity, De-Differentiation, and β -Differentiation of Islet β Cells in Type 2 Diabetes. 2017 , 8, 35	42
400	Proinsulin Promotes Self-Renewal of a Hematopoietic Progenitor Cell Line In Vitro. 2017 , 2017, 5649191	
399	Heart rate variability based on risk stratification for type 2 diabetes mellitus. 2017 , 15, 141-147	9
398	Determining the role of missense mutations in the POU domain of HNF1A that reduce the DNA-binding affinity: A computational approach. 2017 , 12, e0174953	31
397	Screening for celiac disease in poorly controlled type 2 diabetes mellitus: worth it or not?. 2017 , 17, 62	5
396	Dietary food patterns and glucose/insulin homeostasis: a cross-sectional study involving 24,182 adult Americans. 2017 , 16, 192	34
395	LED-Based Tomographic Imaging for Live-Cell Monitoring of Pancreatic Islets in Microfluidic Channels. 2017 , 1, 552	5
394	Cost-Minimization Analysis of Linagliptin Compared to Sitagliptin in the Treatment of Type 2 Diabetes Mellitus from a Turkish Healthcare Perspective. 2017 , 08,	0
393	DJ-1 alleviates high glucose-induced endothelial cells injury via PI3K/Akt-eNOS signaling pathway. 2018 , 17, 1205-1211	1

392	LncRNAs: key players and novel insights into diabetes mellitus. 2017 , 8, 71325-71341	54
391	The pathogenetic role of β cell mitochondria in type 2 diabetes. 2018 , 236, R145-R159	46
390	Control of pancreatic β cell bioenergetics. 2018 , 46, 555-564	12
389	Transcription factor 7-like 2 gene links increased in vivo insulin synthesis to type 2 diabetes. 2018 , 30, 295-302	8
388	A Common Type 2 Diabetes Risk Variant Potentiates Activity of an Evolutionarily Conserved Islet Stretch Enhancer and Increases C2CD4A and C2CD4B Expression. 2018 , 102, 620-635	34
387	Anti-inflammatory and insulin secretory activity in experimental type-2 diabetic rats treated orally with magnesium. 2018 , 29, 507-514	3
386	Methylation in 3' near region of GC gene and its association with the level of vitamin D binding protein and type 2 diabetes mellitus. 2018 , 54, 52-59	3
385	In type 2 diabetes induced by cigarette smoking, activation of p38 MAPK is involved in pancreatic β cell apoptosis. 2018 , 25, 9817-9827	6
384	SWELL1 is a glucose sensor regulating β cell excitability and systemic glycaemia. 2018 , 9, 367	44
383	Regulation of glucose-stimulated insulin secretion by ATPase Inhibitory Factor 1 (IF1). 2018 , 592, 999-1009	12
382	IL-6 receptor blockade ameliorates diabetic nephropathy via inhibiting inflammasome in mice. 2018 , 83, 18-24	51
381	Exploring biological and social networks to better understand and treat diabetes mellitus: Comment on "Network science of biological systems at different scales: A review" by Gosak et al. 2018 , 24, 146-148	1
380	Intravenous immunoglobulin improves glucose control and β cell function in human IAPP transgenic mice by attenuating islet inflammation and reducing IAPP oligomers. 2018 , 54, 145-152	2
379	SIRT6-mediated transcriptional suppression of Txnip is critical for pancreatic beta cell function and survival in mice. 2018 , 61, 906-918	23
378	Maternal obesity, diabetes during pregnancy and epigenetic mechanisms that influence the developmental origins of cardiometabolic disease in the offspring. 2018 , 55, 71-101	76
377	The RhoGAP Stard13 controls insulin secretion through F-actin remodeling. 2018 , 8, 96-105	11
376	Towards a comprehensive understanding of emerging dynamics and function of pancreatic islets: A complex network approach: Comment on "Network science of biological systems at different scales: A review" by Gosak et al. 2018 , 24, 140-142	3
375	Activation of Nrf2 signaling by natural products-can it alleviate diabetes?. 2018 , 36, 1738-1767	103

374	Interleukin-23 promotes intestinal T helper type17 immunity and ameliorates obesity-associated metabolic syndrome in a murine high-fat diet model. 2018 , 154, 624	13
373	Comprehensive genomic analysis identifies pathogenic variants in maturity-onset diabetes of the young (MODY) patients in South India. 2018 , 19, 22	40
372	Diverse effects of interleukin-22 on pancreatic diseases. 2018 , 18, 231-237	4
371	Circulating LncRNAs Analysis in Patients with Type 2 Diabetes Reveals Novel Genes Influencing Glucose Metabolism and Islet β Cell Function. 2018 , 46, 335-350	51
370	Effects of microRNA-21 on Nerve Cell Regeneration and Neural Function Recovery in Diabetes Mellitus Combined with Cerebral Infarction Rats by Targeting PDCD4. 2018 , 55, 2494-2505	18
369	Significance of A-to-I RNA editing of transcripts modulating pharmacokinetics and pharmacodynamics. 2018 , 181, 13-21	11
368	Single molecule characterisation of metal nanoparticles using nanopore-based stochastic detection methods. 2018 , 255, 2032-2049	6
367	Vascular endothelial growth factor-B: Impact on physiology and pathology. 2018 , 12, 215-227	4
366	Teaching an old scaffold new recognition tricks: oligopyrrolamide antagonists of IAPP aggregation. 2018 , 16, 733-741	4
365	The E3 ubiquitin ligase MARCH1 regulates glucose-tolerance and lipid storage in a sex-specific manner. 2018 , 13, e0204898	5
364	Role of Endocrine-Disrupting Engineered Nanomaterials in the Pathogenesis of Type 2 Diabetes Mellitus. 2018 , 9, 704	10
363	Importance of the Gastrointestinal Tract in Type 2 Diabetes. Metabolic Surgery Is More Than Just Incretin Effect. 2018 , 96, 537-545	3
362	Biomaterials for Tissue Engineering Applications in Diabetes Mellitus. 2018 ,	1
361	VAMP7 Regulates Autophagosome Formation by Supporting Atg9a Functions in Pancreatic β Cells From Male Mice. 2018 , 159, 3674-3688	11
360	Cholesterol-sensing role of phenylalanine in the interaction of human islet amyloid polypeptide with lipid bilayers.. 2018 , 8, 40581-40588	1
359	Importance of the gastrointestinal tract in type 2 diabetes. Metabolic surgery is more than just incretin effect. 2018 , 96, 537-545	
358	Explicit Theoretical Analysis of How the Rate of Exocytosis Depends on Local Control by Ca Channels. 2018 , 2018, 5721097	5
357	TNF, but not hyperinsulinemia or hyperglycemia, is a key driver of obesity-induced monocytois revealing that inflammatory monocytes correlate with insulin in obese male mice. 2018 , 6, e13937	12

356	Non-insulin determinant pathways maintain glucose homeostasis upon metabolic surgery. 2018 , 4, 58	6
355	Circular RNAs in Metabolic Diseases. 2018 , 1087, 275-285	13
354	Primary study on the hypoglycemic mechanism of 5 α oLGLP-HV in STZ-induced type 2 diabetes mellitus mice. 2018 , 43, 921-929	1
353	Identification of key gene pathways and coexpression networks of islets in human type 2 diabetes. 2018 , 11, 553-563	9
352	Highly specific monoclonal antibodies for allosteric inhibition and immunodetection of the human pancreatic zinc transporter ZnT8. 2018 , 293, 16206-16216	8
351	Type 2 Diabetes-Associated Genetic Variants Regulate Chromatin Accessibility in Human Islets. 2018 , 67, 2466-2477	31
350	Dynamic transcriptome profile in db/db skeletal muscle reveal critical roles for long noncoding RNA regulator. 2018 , 104, 14-24	6
349	Comparison of antidiabetic drugs added to sulfonylurea monotherapy in patients with type 2 diabetes mellitus: A network meta-analysis. 2018 , 13, e0202563	8
348	The somatostatin-secreting pancreatic β cell in health and disease. 2018 , 14, 404-414	84
347	A novel high-affinity inhibitor against the human ATP-sensitive Kir6.2 channel. 2018 , 150, 969-976	9
346	MALAT1 via microRNA-17 regulation of insulin transcription is involved in the dysfunction of pancreatic β cells induced by cigarette smoke extract. 2018 , 233, 8862-8873	12
345	Impaired Inflammatory Response to LPS in Type 2 Diabetes Mellitus. 2018 , 2018, 2157434	15
344	Probing the Protein-Protein Interaction Network of Proteins Causing Maturity Onset Diabetes of the Young. 2018 , 110, 167-202	5
343	Emerging role of nutrition and the non-coding landscape in type 2 diabetes mellitus: A review of literature. 2018 , 675, 54-61	6
342	Genetic interaction effects reveal lipid-metabolic and inflammatory pathways underlying common metabolic disease risks. 2018 , 11, 54	7
341	KATP Channel Blockade as a Novel Antiarrhythmic Strategy: Evolving From Tachy to Brady Therapy. 2018 , 159, 3081-3082	
340	Transcriptional Regulation of Glucose Metabolism: The Emerging Role of the HMGA1 Chromatin Factor. 2018 , 9, 357	20
339	Adipokines, Inflammation, and Insulin Resistance in Obesity. 2018 , 225-252	1

338	Coordination of GPR40 and Ketogenesis Signaling by Medium Chain Fatty Acids Regulates Beta Cell Function. 2018 , 10,	16
337	Crosstalk Between the Unfolded Protein Response, MicroRNAs, and Insulin Signaling Pathways: In Search of Biomarkers for the Diagnosis and Treatment of Type 2 Diabetes. 2018 , 9, 210	11
336	Activation of imidazoline receptor I, and improved pancreatic β cell function in human islets. 2018 , 32, 813-818	1
335	Fatty Acid-Stimulated Insulin Secretion vs. Lipotoxicity. 2018 , 23,	44
334	Association of mean platelet volume with incident type 2 diabetes mellitus risk: the Dongfeng-Tongji cohort study. 2018 , 10, 29	4
333	Vitamin D Switches BAF Complexes to Protect β Cells. <i>Cell</i> , 2018 , 173, 1135-1149.e15	56.2 98
332	SIRT5 regulates pancreatic β cell proliferation and insulin secretion in type 2 diabetes. 2018 , 16, 1417-1425	8
331	Obesity and Cancer: Biological Links and Treatment Implications. 2018 , 18, 231-238	13
330	The therapeutics effects and toxic risk of Desf. extract on streptozotocin-induced diabetic rats. 2018 , 5, 919-926	9
329	Chemical modulation of cell fates: in situ regeneration. 2018 , 61, 1137-1150	6
328	Sirtuin 5 overexpression attenuates glucolipotoxicity-induced pancreatic β cells apoptosis and dysfunction. 2018 , 371, 205-213	10
327	Ablation of somatostatin cells leads to impaired pancreatic islet function and neonatal death in rodents. 2018 , 9, 682	16
326	Meal Plans for Diabetics. 2018 , 403-427	
325	Insulin Resistance and β Cell Dysfunction in Relation to Cardiometabolic Risk Patterns. 2018 , 103, 2207-2215	9
324	Increased capillary density in skeletal muscle is not associated with impaired insulin sensitivity induced by bed rest in healthy young men. 2018 , 43, 1334-1340	8
323	Underrated enemy - from nonalcoholic fatty liver disease to cancers of the gastrointestinal tract. 2018 , 4, 55-71	6
322	Serotonergic regulation of insulin secretion. 2019 , 225, e13101	21
321	Effects of exercise in combination with autologous bone marrow stem cell transplantation for patients with type 1 diabetes. 2019 , 35, 1233-1242	2

320	Insulin stimulus-secretion coupling is triggered by a novel thiazolidinedione/sulfonylurea hybrid in rat pancreatic islets. 2018 , 234, 509-520	5
319	Exosomes and Their Noncoding RNA Cargo Are Emerging as New Modulators for Diabetes Mellitus. 2019 , 8,	60
318	Fatty Acid and Lipopolysaccharide Effect on Beta Cells Proteostasis and its Impact on Insulin Secretion. 2019 , 8,	18
317	Systematic Review and Meta-Analysis of Randomized Controlled Trials on the Effect of SGLT2 Inhibitor on Blood Leptin and Adiponectin Level in Patients with Type 2 Diabetes. 2019 , 51, 487-494	32
316	Recombinant protein CCN5/WISP2 promotes islet cell proliferation and survival. 2019 , 37, 120-130	1
315	Altered Insulin Signaling in Alzheimer's Disease Brain - Special Emphasis on PI3K-Akt Pathway. 2019 , 13, 629	114
314	Anti-Lipid Peroxidation, β Glucosidase and β Amylase Inhibitory Effects of the Extract of <i>Capitula</i> of <i>Coreopsis tinctoria</i> Nutt. and Protection Effects on High-Fat/High-Sugar and Streptozotocin-Induced Type 2 Diabetes in Mice. 2019 , 16, e1900514	6
313	Altered metabolic gene expression in the brain of a triprolyl-human amylin transgenic mouse model of type 2 diabetes. 2019 , 9, 14588	1
312	Gymnemic Acid Ameliorates Hyperglycemia through PI3K/AKT- and AMPK-Mediated Signaling Pathways in Type 2 Diabetes Mellitus Rats. 2019 , 67, 13051-13060	29
311	Molecular aspects and biochemical regulation of diabetes mellitus. 2019 , 35-57	
310	Chemical composition, antioxidant activity and inhibitory capacity of β Amylase, β Glucosidase, lipase and non-enzymatic glycation, in vitro, of the leaves of <i>Cassia bakeriana</i> Craib. 2019 , 140, 111641	9
309	CDK8 Regulates Insulin Secretion and Mediates Postnatal and Stress-Induced Expression of Neuropeptides in Pancreatic β Cells. 2019 , 28, 2892-2904.e7	10
308	Role of the active zone protein, ELKS, in insulin secretion from pancreatic β cells. 2019 , 27S, S81-S91	6
307	Reduced Compensatory β Cell Proliferation in Nfatc3-Deficient Mice Fed on High-Fat Diet. 2021 , 129, 651-660	1
306	Metabolomics Identifies a Biomarker Revealing In Vivo Loss of Functional β Cell Mass Before Diabetes Onset. 2019 , 68, 2272-2286	16
305	The pivotal role of protein acetylation in linking glucose and fatty acid metabolism to β cell function. 2019 , 10, 66	27
304	ELKS/Voltage-Dependent Ca Channel- β Subunit Module Regulates Polarized Ca Influx in Pancreatic β Cells. 2019 , 26, 1213-1226.e7	16
303	Lean maternal hyperglycemia alters offspring lipid metabolism and susceptibility to diet-induced obesity in mice 2019 , 100, 1356-1369	8

302	Engineering human islet organoids from iPSCs using an organ-on-chip platform. 2019 , 19, 948-958	82
301	The protective role of the MKP-5-JNK/P38 pathway in glucolipotoxicity-induced islet β cell dysfunction and apoptosis. 2019 , 382, 111467	6
300	The mechanism of mulberry leaves against renal tubular interstitial fibrosis through ERK1/2 signaling pathway was predicted by network pharmacology and validated in human tubular epithelial cells. 2019 , 33, 2044-2055	7
299	Diabetes causes marked inhibition of mitochondrial metabolism in pancreatic β cells. 2019 , 10, 2474	102
298	Potential of Mitochondria-Targeted Antioxidants to Prevent Oxidative Stress in Pancreatic β -cells. 2019 , 2019, 1826303	19
297	Serum amino acid profiles and risk of type 2 diabetes among Japanese adults in the Hitachi Health Study. 2019 , 9, 7010	31
296	Increased pancreatic-derived factor (PANDER) levels in gestational diabetes mellitus. 2019 , 35, 866-868	3
295	The db mutation improves memory in younger mice in a model of Alzheimer's disease. 2019 , 1865, 2157-2167	2
294	Insulin-dependent GLUT4 trafficking is not regulated by protein SUMOylation in L6 myocytes. 2019 , 9, 6477	3
293	Protein SUMOylation regulates insulin secretion at multiple stages. 2019 , 9, 2895	5
292	Pericyte Biology in Different Organs. 2019 ,	2
291	Pancreatic Pericytes in Glucose Homeostasis and Diabetes. 2019 , 1122, 27-40	3
290	Overview of genomics and post-genomics research on type 2 diabetes mellitus: Future perspectives and a framework for further studies. 2019 , 44, 1	5
289	Novel protective effect of O-1602 and abnormal cannabidiol, GPR55 agonists, on ER stress-induced apoptosis in pancreatic β cells. 2019 , 111, 1176-1186	14
288	Bioactive compounds in plant materials for the prevention of diabetes and obesity. 2019 , 83, 975-985	11
287	Inhibition of JAK-STAT and NF- κ B signalling systems could be a novel therapeutic target against insulin resistance and type 2 diabetes. 2019 , 239, 117045	18
286	EGF suppresses the expression of miR-124a in pancreatic β cell lines via ETS2 activation through the MEK and PI3K signaling pathways. 2019 , 15, 2561-2575	9
285	De Novo Lipogenesis as a Source of Second Messengers in Adipocytes. 2019 , 19, 138	7

284	The association of two common polymorphisms in miRNAs with diabetes mellitus: A meta-analysis. 2019 , 98, e17414	2
283	Modulatory Mechanisms of the NLRP3 Inflammasomes in Diabetes. 2019 , 9,	62
282	Lung Based Engineered Micro-Pancreas Sustains Human Beta Cell Survival and Functionality. 2019 , 51, 805-811	1
281	Tangeretin inhibits streptozotocin-induced cell apoptosis via regulating NF- κ B pathway in INS-1 cells. 2019 , 120, 3286-3293	13
280	Phenomenological approach on electromagnetic waves propagation in normal and diabetic blood, influence of the relative macromolecular structures. 2019 , 274, 577-583	7
279	MicroRNA-296-5p promotes healing of diabetic wound by targeting sodium-glucose transporter 2 (SGLT2). 2019 , 35, e3104	9
278	Contribution of Oxidative Stress and Impaired Biogenesis of Pancreatic β Cells to Type 2 Diabetes. 2019 , 31, 722-751	30
277	Sphingosine kinase 2 promotes lipotoxicity in pancreatic β cells and the progression of diabetes. 2019 , 33, 3636-3646	15
276	Anti-hypertensive, anti-diabetic, hypocholesterolemic and antioxidant properties of prickly pear nopalitos in type 2 diabetic rats fed a high-fat diet. 2019 , 49, 476-490	11
275	The zinc transporter Slc39a5 controls glucose sensing and insulin secretion in pancreatic β cells via Sirt1- and Pgc-1 β -mediated regulation of Glut2. 2019 , 10, 436-449	14
274	5-Hydroxytryptamine in the Endocrine Pancreas. 2019 , 81-90	
273	Non-invasive marker-independent high content analysis of a microphysiological human pancreas-on-a-chip model. 2020 , 85-86, 205-220	44
272	Heterogeneous alpha-cell population modeling of glucose-induced inhibition of electrical activity. 2020 , 485, 110036	6
271	Circulatory miR-98-5p levels are deregulated during diabetes and it inhibits proliferation and promotes apoptosis by targeting PPP1R15B in keratinocytes. 2020 , 17, 188-201	7
270	A mechanistic and empirical review of antcins, a new class of phytosterols of formosan fungi origin. 2020 , 28, 38-59	10
269	Protein Lysine Acetylation: Grease or Sand in the Gears of β Cell Mitochondria?. 2020 , 432, 1446-1460	5
268	Genome editing in animals: an overview. 2020 , 75-104	1
267	Association of IGF1 and VEGFA polymorphisms with diabetic retinopathy in Pakistani population. 2020 , 57, 237-245	7

266	Chorionic and amniotic placental membrane-derived stem cells, from gestational diabetic women, have distinct insulin secreting cell differentiation capacities. 2020 , 14, 243-256	4
265	The Role of the Islet Niche on Beta Cell Structure and Function. 2020 , 432, 1407-1418	30
264	PICK1 attenuates high glucose-induced pancreatic β cell death through the PI3K/Akt pathway and is negatively regulated by miR-139-5p. 2020 , 522, 14-20	8
263	The optimization of xanthine derivatives leading to HBK001 hydrochloride as a potent dual ligand targeting DPP-IV and GPR119. 2020 , 188, 112017	12
262	Direct Lineage Reprogramming: Harnessing Cell Plasticity between Liver and Pancreas. 2020 , 12,	1
261	Systematic Transcriptome and Regulatory Network Analyses Reveal the Hypoglycemic Mechanism of <i>Dendrobium fimbriatum</i> . 2020 , 19, 1-14	4
260	Elucidating the Relationship Between Diabetes Mellitus and Parkinson's Disease Using F-FP-(+)-DTBZ, a Positron-Emission Tomography Probe for Vesicular Monoamine Transporter 2. 2020 , 14, 682	4
259	Glucose-Induced Expression of DAPIIT in Pancreatic β Cells. 2020 , 10,	2
258	Acylated Amino oligosaccharides from the Yellow Sea sp. HO1518 as Both α Glucosidase and Lipase Inhibitors. 2020 , 18,	3
257	Persistent or Transient Human β Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. 2020 , 33, 108466	22
256	Therapeutically relevant natural products as AMPK activators in the treatment of diabetes. 2020 , 57-90	1
255	Association between 1,5-Anhydroglucitol and Acute C Peptide Response to Arginine among Patients with Type 2 Diabetes. 2020 , 2020, 4243053	1
254	Transcriptomic and Quantitative Proteomic Profiling Reveals Signaling Pathways Critical for Pancreatic Islet Maturation. 2020 , 161,	2
253	Increased Plasma Levels of Adenylate Cyclase 8 and cAMP Are Associated with Obesity and Type 2 Diabetes: Results from a Cross-Sectional Study. 2020 , 9,	4
252	Sub-stoichiometric inhibition of IAPP aggregation: a peptidomimetic approach to anti-amyloid agents. 2020 , 1, 225-232	4
251	Loss of β cell identity and diabetic phenotype in mice caused by disruption of CNOT3-dependent mRNA deadenylation. 2020 , 3, 476	8
250	The Multifunctionality of CD36 in Diabetes Mellitus and Its Complications-Update in Pathogenesis, Treatment and Monitoring. 2020 , 9,	14
249	A proteoglycan extract from protects pancreatic beta-cells against STZ-induced apoptosis. 2020 , 84, 2491-2498	3

- 248 Zanthoxylum alkylamides improve amino acid metabolism in type 2 diabetes mellitus rats. **2020**, 44, e13441 6
- 247 Signaling Molecules Regulating Pancreatic Endocrine Development from Pluripotent Stem Cell Differentiation. **2020**, 21, 3
- 246 The 8 rs2278426 (C/T) Polymorphism Is Associated with Prediabetes and Type 2 Diabetes in a Han Chinese Population in Hebei Province. **2020**, 2020, 1621239 2
- 245 Verbascoside Protects Pancreatic β Cells against ER-Stress. **2020**, 8, 13
- 244 Hypomethylation of IL1RN and NFKB1 genes is linked to the dysbalance in IL1 β /IL-1Ra axis in female patients with type 2 diabetes mellitus. **2020**, 15, e0233737 2
- 243 Identification of Hub Genes in Type 2 Diabetes Mellitus Using Bioinformatics Analysis. **2020**, 13, 1793-1801 2
- 242 Mitochondrial Superoxide Production Decreases on Glucose-Stimulated Insulin Secretion in Pancreatic β Cells Due to Decreasing Mitochondrial Matrix NADH/NAD Ratio. **2020**, 33, 789-815 5
- 241 Inhibition of long noncoding RNA MALAT1 suppresses high glucose-induced apoptosis and inflammation in human umbilical vein endothelial cells by suppressing the NF- κ B signaling pathway. **2020**, 98, 669-675 3
- 240 Salivary molecular spectroscopy: A sustainable, rapid and non-invasive monitoring tool for diabetes mellitus during insulin treatment. **2020**, 15, e0223461 26
- 239 Chemokine Receptor 5, a Double-Edged Sword in Metabolic Syndrome and Cardiovascular Disease. **2020**, 11, 146 4
- 238 Antioxidant Effects and Mechanisms of Medicinal Plants and Their Bioactive Compounds for the Prevention and Treatment of Type 2 Diabetes: An Updated Review. **2020**, 2020, 1356893 70
- 237 Intravascular Follistatin gene delivery improves glycemic control in a mouse model of type 2 diabetes. **2020**, 34, 5697-5714 3
- 236 Inhibition of human islet amyloid polypeptide aggregation and cellular toxicity by oleuropein and derivatives from olive oil. **2020**, 162, 284-300 12
- 235 NOD2 Deficiency Promotes Intestinal CD4+ T Lymphocyte Imbalance, Metainflammation, and Aggravates Type 2 Diabetes in Murine Model. **2020**, 11, 1265 4
- 234 Overexpression of native IF1 downregulates glucose-stimulated insulin secretion by pancreatic INS-1E cells. **2020**, 10, 1551 7
- 233 Insights into pancreatic islet cell dysfunction from type 2 diabetes mellitus genetics. **2020**, 16, 202-212 50
- 232 Arp2/3 nucleates F-actin coating of fusing insulin granules in pancreatic β cells to control insulin secretion. **2020**, 133, 7
- 231 Pancreatic β cell microRNA-26a alleviates type 2 diabetes by improving peripheral insulin sensitivity and preserving β cell function. **2020**, 18, e3000603 37

230	Determination of the Aggregate Binding Site of Amyloid Protofibrils Using Electron Capture Dissociation Tandem Mass Spectrometry. 2020 , 31, 267-276	9
229	(Wall.) Meisn. Water Extract Ameliorates Palmitate Induced Insulin Resistance by Regulating IRS1/GSK3 β /FoxO1 Signaling Pathway in Human HepG2 Hepatocytes. 2019 , 10, 1666	8
228	Iron metabolism and type 2 diabetes mellitus: A meta-analysis and systematic review. 2020 , 11, 946-955	16
227	Loss of the voltage-gated proton channel Hv1 decreases insulin secretion and leads to hyperglycemia and glucose intolerance in mice. 2020 , 295, 3601-3613	5
226	Glucose-Stimulated Insulin Secretion Fundamentally Requires HO Signaling by NADPH Oxidase 4. 2020 , 69, 1341-1354	25
225	Neurosecretion: Secretory Mechanisms. 2020 ,	0
224	Delay in ATP-dependent calcium inflow may affect insulin secretion from pancreatic beta-cell. 2020 , 84, 202-221	0
223	Apolipoprotein M overexpression through adeno-associated virus gene transfer improves insulin secretion and insulin sensitivity in Goto-Kakizaki rats. 2020 , 11, 1150-1158	4
222	Effects of synbiotic supplementation on gut microbiome, serum level of TNF- α and expression of microRNA-126 and microRNA-146a in patients with type 2 diabetes mellitus: study protocol for a double-blind controlled randomized clinical trial. 2020 , 21, 324	5
221	Patch-Seq Links Single-Cell Transcriptomes to Human Islet Dysfunction in Diabetes. 2020 , 31, 1017-1031.e4	84
220	DLL1- and DLL4-Mediated Notch Signaling Is Essential for Adult Pancreatic Islet Homeostasis. 2020 , 69, 915-926	15
219	Loss of EGR-1 uncouples compensatory responses of pancreatic β cells. 2020 , 10, 4233-4249	3
218	A Stem Cell Approach to Cure Type 1 Diabetes. 2021 , 13,	16
217	Enhanced structure and function of human pluripotent stem cell-derived beta-cells cultured on extracellular matrix. 2021 , 10, 492-505	4
216	SLC30A8 gene polymorphism rs13266634 associated with increased risk for developing type 2 diabetes mellitus in Jordanian population. 2021 , 768, 145279	3
215	Effect of Korean Red Ginseng on metabolic syndrome. 2021 , 45, 380-389	11
214	Imeglimin preserves islet β cell mass in Type 2 diabetic ZDF rats. 2021 , 4, e00193	8
213	High uric acid promotes dysfunction in pancreatic β cells by blocking IRS2/AKT signalling. 2021 , 520, 111070	8

- 212 The steroid hormone 20-hydroxyecdysone counteracts insulin signaling via insulin receptor dephosphorylation. **2021**, 296, 100318 2
- 211 Islet Function in the Pathogenesis of Cystic Fibrosis-Related Diabetes Mellitus. **2021**, 14, 11795514211031204 0
- 210 Differentiation of Stem Cells into Pancreatic Lineage: In vitro Cell Culture, in vivo Transplantation in Animal Models. **2021**, 155-191
- 209 Cytohistologic analyses of β cell dedifferentiation induced by inflammation in human islets. **2021**, 19, 205873922110144
- 208 Diabetes Mellitus. **2021**, 814-883 1
- 207 Potential of anthocyanin as an anti-inflammatory agent: a human clinical trial on type 2 diabetic, diabetic at-risk and healthy adults. **2021**, 70, 275-284 7
- 206 Virtual metabolic human dynamic model for pathological analysis and therapy design for diabetes. **2021**, 24, 102101 2
- 205 Efficacy and safety of Combination Therapy with Sodium-glucose Transporter 2 Inhibitors and Renin-Angiotensin System Blockers in Patients with Type 2 Diabetes: A Systematic Review and Meta-Analysis. **2021**, 7
- 204 Nanoporous gold: A review and potentials in biotechnological and biomedical applications. **2021**, 2, 1437-1458 3
- 203 Human Pluripotent Stem Cells to Model Islet Defects in Diabetes. **2021**, 12, 642152 7
- 202 Small molecule SWELL1-LRRC8 complex induction improves glycemic control and nonalcoholic fatty liver disease in murine Type 2 diabetes.
- 201 Insulin resistance in diabetes: The promise of using induced pluripotent stem cell technology. **2021**, 13, 221-235 2
- 200 Local cyclic adenosine monophosphate signalling cascades-Roles and targets in chronic kidney disease. **2021**, 232, e13641 2
- 199 Metabolome-Genome-Wide Association Study (mGWAS) Reveals Novel Metabolites Associated with Future Type 2 Diabetes Risk and Susceptibility Loci in a Case-Control Study in a Chinese Prospective Cohort. **2021**, 5, 2000088 2
- 198 Islet organoid as a promising model for diabetes. **2021**, 1 5
- 197 Functional maturation of immature β cells: A roadblock for stem cell therapy for type 1 diabetes. **2021**, 13, 193-207 1
- 196 CRISPR-based genome editing in primary human pancreatic islet cells. **2021**, 12, 2397 7
- 195 Using CRISPR to understand and manipulate gene regulation. **2021**, 148, 0

194	Genetics of canine diabetes mellitus part 1: Phenotypes of disease. 2021 , 270, 105611	2
193	CDATA[The Effect of Oxidative Stress and Antioxidant Therapies on Pancreatic β cell Dysfunction: Results from in Vitro and in Vivo Studies. 2021 , 28, 1328-1346	7
192	miRNA-770-5p expression is upregulated in patients with type 2 diabetes and miRNA-770-5p knockdown protects pancreatic β cell function via targeting BAG5 expression. 2021 , 22, 664	0
191	Genetics of canine diabetes mellitus part 2: Current understanding and future directions. 2021 , 270, 105612	1
190	Regulation of Pancreatic β Cell Function by the NPY System. 2021 , 162,	4
189	The Human Islet: Mini-Organ With Mega-Impact. 2021 , 42, 605-657	7
188	Small subpopulations of β cells do not drive islet oscillatory [Ca ²⁺] dynamics via gap junction communication. 2021 , 17, e1008948	9
187	TCONS_00230836 silencing restores stearic acid-induced β cell dysfunction through alleviating endoplasmic reticulum stress rather than apoptosis. 2021 , 16, 8	0
186	MiR-122 Participates in Oxidative Stress and Apoptosis in STZ-Induced Pancreatic Cells by Regulating PI3K/AKT Signaling Pathway. 2021 , 2021, 5525112	2
185	Machine Learning Algorithms, Applied to Intact Islets of Langerhans, Demonstrate Significantly Enhanced Insulin Staining at the Capillary Interface of Human Pancreatic β Cells. 2021 , 11,	0
184	Emerging Roles of Small GTPases in Islet β Cell Function. 2021 , 10,	4
183	Emerging roles of exosomal miRNAs in diabetes mellitus. 2021 , 11, e468	17
182	Ameliorative Effects of Oral Glucosamine on Insulin Resistance and Pancreatic Tissue Damage in Experimental Wistar rats on a High-fat Diet. 2021 , 71, 215-221	2
181	Dipstick proteinuria and risk of type 2 diabetes mellitus: a nationwide population-based cohort study. 2021 , 19, 271	1
180	RNA m6A reader IMP2/IGF2BP2 promotes pancreatic β cell proliferation and insulin secretion by enhancing PDX1 expression. 2021 , 48, 101209	9
179	Sustained In Vitro and In Vivo Delivery of Metformin from Plant Pollen-Derived Composite Microcapsules. 2021 , 13,	2
178	JunD Regulates Pancreatic β Cells Function by Altering Lipid Accumulation. 2021 , 12, 689845	0
177	Inhibition of PHLPP1/2 phosphatases rescues pancreatic β cells in diabetes. 2021 , 36, 109490	5

176	β-Cells Different Vulnerability to the Parkinsonian Neurotoxins Rotenone, 1-Methyl-4-phenylpyridinium (MPP) and 6-Hydroxydopamine (6-OHDA). 2021 , 14,	0
175	Botanical Interventions to Improve Glucose Control and Options for Diabetes Therapy.. 2021 , 3, 2465-2491	2
174	GPR119 agonists: Novel therapeutic agents for type 2 diabetes mellitus. 2021 , 113, 104998	2
173	The β-cell primary cilium is an autonomous Ca ²⁺ compartment for paracrine GABA signalling.	0
172	miR-765 targeting PDX1 impairs pancreatic β-cell function to induce type 2 diabetes. 2021 , 1-10	0
171	Supercritical CO ₂ fluid extraction, physicochemical properties, antioxidant activities and hypoglycemic activity of polysaccharides derived from fallen Ginkgo leaves. 2021 , 42, 101153	6
170	Monogenic diabetes mellitus and clinical implications of genetic diagnosis. 2021 , 5, 106-116	1
169	Redox Signaling is Essential for Insulin Secretion.	
168	Sulfonylureas for Treatment of Periodontitis-Diabetes Comorbidity-Related Complications: Killing Two Birds With One Stone. 2021 , 12, 728458	0
167	Détection cβbrale du glucose et homéostasie du glucose. 2021 , 15, 518-525	
166	LDHA is enriched in human islet α cells and upregulated in type 2 diabetes. 2021 , 568, 158-166	1
165	Single-cell heterogeneity analysis and CRISPR screens in MIN6 cell line reveal transcriptional regulators of insulin. 2021 , 20, 2053-2065	2
164	A novel mechanism of imeglimin-mediated insulin secretion via the cADPR-TRP channel pathway. 2021 ,	3
163	Glucokinase neurons of the paraventricular nucleus of the thalamus sense glucose and decrease food consumption. 2021 , 24, 103122	3
162	The β-cell glucose toxicity hypothesis: Attractive but difficult to prove. 2021 , 124, 154870	0
161	NGBR is required to ameliorate type 2 diabetes in mice by enhancing insulin sensitivity. 2021 , 296, 100624	3
160	The Pancreatic β-Cell: The Perfect Redox System. 2021 , 10,	6
159	MiR-34a-5p and miR-452-5p: The Novel Regulators of Pancreatic Endocrine Dysfunction in Diabetic Zucker Rats?. 2021 , 18, 3171-3181	2

158	Exon Sequencing of G Protein-Coupled Receptor Genes and Perspectives for Disease Treatment. 2014 , 313-332	3
157	Obesity and Diabetes: Pathophysiology of Obesity-Induced Hyperglycemia and Insulin Resistance. 2020 , 81-97	4
156	New Trends in Stem Cell Transplantation in Diabetes Mellitus Type I and Type II. 2017 , 73-88	1
155	Reactive Oxygen Species and Antioxidants in Pancreatic β Cell Function Yin and Yang. 2014 , 3319-3337	2
154	Comparison of two vasoconstrictors on glycemic levels in diabetic patients. 2020 , 24, 4591-4596	1
153	A suppressor locus for MODY3-diabetes. 2016 , 6, 33087	11
152	Ubiquitin fold modifier 1 activates NF- κ B pathway by down-regulating LZAP expression in the macrophage of diabetic mouse model. 2020 , 40,	4
151	Pancreas patch-seq links physiologic dysfunction in diabetes to single-cell transcriptomic phenotypes.	5
150	A 'picturesque' case of transition from subcutaneous to oral treatment in neonatal diabetes. 2014 , 2014,	3
149	Pancreatic β Cell Electrical Activity and Insulin Secretion: Of Mice and Men. 2018 , 98, 117-214	290
148	Insulin Resistance in Osteoarthritis: Similar Mechanisms to Type 2 Diabetes Mellitus. 2020 , 2020, 4143802	9
147	Dynamin 2 regulates biphasic insulin secretion and plasma glucose homeostasis. 2015 , 125, 4026-41	27
146	RAGE binds preamyloid IAPP intermediates and mediates pancreatic β cell proteotoxicity. 2018 , 128, 682-698	30
145	The IRE1 α /XBP1s Pathway Is Essential for the Glucose Response and Protection of β Cells. 2015 , 13, e1002277	94
144	Genetic associations with diabetes: meta-analyses of 10 candidate polymorphisms. 2013 , 8, e70301	14
143	Chronic exposure to GLP-1 increases GLP-1 synthesis and release in a pancreatic alpha cell line (β TC1): evidence of a direct effect of GLP-1 on pancreatic alpha cells. 2014 , 9, e90093	23
142	Managing Type 2 Diabetes Mellitus through Periodical Hospital Visits in the Aftermath of the Great East Japan Earthquake Disaster: A Retrospective Case Series. 2015 , 10, e0125632	14
141	Circulating ANGPTL8/Betatrophin Is Increased in Obesity and Reduced after Exercise Training. 2016 , 11, e0147367	53

140	Genetic Variants of TPCN2 Associated with Type 2 Diabetes Risk in the Chinese Population. 2016 , 11, e0149614	14
139	Statistical Frailty Modeling for Quantitative Analysis of Exocytotic Events Recorded by Live Cell Imaging: Rapid Release of Insulin-Containing Granules Is Impaired in Human Diabetic β cells. 2016 , 11, e0167282	3
138	Baicalein protects rat insulinoma INS-1 cells from palmitate-induced lipotoxicity by inducing HO-1. 2017 , 12, e0176432	14
137	Differential expression of genes identified by suppression subtractive hybridization in liver and adipose tissue of gerbils with diabetes. 2018 , 13, e0191212	4
136	Islet-specific Prmt5 excision leads to reduced insulin expression and glucose intolerance in mice. 2020 , 244, 41-52	5
135	Targeting BRD9 for Cancer Treatment: A New Strategy. 2020 , 13, 13191-13200	2
134	Repositioning the Old Fungicide Ciclopirox for New Medical Uses. 2016 , 22, 4443-50	26
133	β cell Regenerative Potential of Selected Herbal Extracts in Alloxan Induced Diabetic Rats. 2019 , 16, 278-284	6
132	The Importance of Precision Medicine in Type 2 Diabetes Mellitus (T2DM): From Pharmacogenetic and Pharmacoepigenetic Aspects. 2019 , 19, 719-731	5
131	Troxerutin affects the male fertility in prepubertal type 1 diabetic male rats. 2019 , 22, 197-205	11
130	Pancreatic cancer triggers diabetes through TGF- β -mediated selective depletion of islet β cells. 2020 , 3,	6
129	Antioxidant and regulatory role of mitochondrial uncoupling protein UCP2 in pancreatic beta-cells. 2014 , 63, S73-91	20
128	Regulation of Pancreatic Beta Cell Stimulus-Secretion Coupling by microRNAs. 2014 , 5, 1018-31	33
127	Sphingosine-1-phosphate induces islet β cell proliferation and decreases cell apoptosis in high-fat diet/streptozotocin diabetic mice. 2019 , 18, 3415-3424	7
126	Pharmacogenomics of Sulfonylureas Response in Relation to rs7754840 Polymorphisms in Cyclin-Dependent Kinase 5 Regulatory Subunit-associated Protein 1-like (CDKAL1) Gene in Iranian Type 2 Diabetes Patients. 2018 , 7, 96	4
125	Metabolic balancing acts of vitamin A in type-2 diabetes and obesity. 2012 , 3, 174-7	6
124	Betatrophin: A liver-derived hormone for the pancreatic β cell proliferation. 2013 , 4, 234-7	15
123	Insulin resistance and type 2 diabetes in children. 2020 , 25, 217-226	14

- 122 The Molecular Mechanisms of Hypoglycemic Properties and Safety Profiles of Swietenia Macrophylla Seeds Extract: A Review. **2021**, 9, 370-388 1
- 121 Mulberry leaves ameliorate diabetes via regulating metabolic profiling and AGEs/RAGE and p38 MAPK/NF- κ B pathway. **2022**, 283, 114713 5
- 120 Pseudotime Ordering Single-Cell Transcriptomic of β Cells Pancreatic Islets in Health and Type 2 Diabetes. **2021**, 1, 199 0
- 119 Carbon monoxide enhances calcium transients and glucose-stimulated insulin secretion from pancreatic β cells by activating Phospholipase C signal pathway in diabetic mice. **2021**, 582, 1-7 1
- 118 Stem Cells and Diabetes. **2013**, 419-426
- 117 Pharmakologie des Energiestoffwechsels - Pharmakotherapie des Diabetes mellitus und der Adipositas. **2013**, 585-609
- 116 Insulin resistance and generation of advanced glycation end products. **2013**, 13, e5657-e5657
- 115 High-Fat Programming of β Cell Dysfunction. **2014**, 1-15
- 114 High-Fat Programming of β Cell Dysfunction. **2015**, 529-546
- 113 Epigenetik. **2015**, 291-338
- 112 Genetik menschlicher Erkrankungen. **2015**, 595-666
- 111 Lichaamsmetabolisme. **2015**, 403-445
- 110 Antidiabetika. **2016**, 645-667
- 109 References. **2016**, 441-567
- 108 The effect of mesenchymal stem cells on the endothelial cells of diabetic mice. **2017**, 57-60 1
- 107 Effects of External Voltage in the Dynamics of Pancreatic β Cells: Implications for the Treatment of Diabetes. **2018**, 57-70
- 106 Electrical Excitability of the Endoplasmic Reticulum Membrane Drives Electrical Bursting and the Pulsatile Secretion of Insulin in a Pancreatic Beta Cell Model.
- 105 Identification of differentially expressed genes in omental adipose tissues of obesity and type2diabetes: A meta-analysis of microarray datasets. **2018**, 9,

104 Lichaamsmetabolisme. **2019**, 417-458

103 Level of Fasting C-Peptide as a Predictor of β -Cell Function in Sudanese Patients with Type 2 Diabetes Mellitus. **2019**, 07, 115-123

102 [there any association of metabolic disturbances with joint destruction and pain?]. **2019**, 65, 441-456

101 Dissecting mechanisms of human islet differentiation and maturation through epigenome profiling.

100 Uncommon Presentations of Diabetes: Zebras in the Herd. **2020**, 38, 78-92

99 Salivary molecular spectroscopy: a rapid and non-invasive monitoring tool for diabetes mellitus during insulin treatment. 1

98 Antidiabetika. **2020**, 679-702

97 Genetik menschlicher Erkrankungen. **2020**, 725-812

96 Virtual metabolic human dynamic model for pathological analysis and therapy design for diabetes.

95 The root extract of *Scutellaria baicalensis* Georgi promotes β cell function and protects from apoptosis by inducing autophagy. **2022**, 284, 114790 2

94 Action Potential-Induced Ca^{2+} Influx for Both Acute and Sustained Insulin Secretion in Pancreatic Beta Cells. **2020**, 161-172

93 Potential Biological Activities of Clausena Essential Oils for the Treatment of Diabetes. **2021**, 70, 1669-1676 1

92 Progress in Noninvasive Beta-Cell Mass Imaging. **2020**, 631-639

91 Epigenetik. **2020**, 361-422

90 Type 2 Diabetes Mellitus in Osteoarthritic Patients: Does Association Between Metabolic Impairments, Joint Destruction, and Pain Exist?. **2020**, 14, 87-104

89 Lorcaserin Inhibit Glucose-Stimulated Insulin Secretion and Calcium Influx in Murine Pancreatic Islets. **2021**, 12, 761966 1

88 An adipocyte-specific lncRAP2 β gf2bp2 complex enhances adipogenesis and energy expenditure by stabilizing target mRNAs.

87 Coding variants identified in diabetic patients alter PICK1 BAR domain function in insulin granule biogenesis.

86	Stem cells for the cell and molecular therapy of type 1 diabetes mellitus (T1D): the gap between dream and reality. 2015 , 4, 22-31	8
85	Insulin resistance quantified by the value of HOMA-IR and cardiovascular risk in patients with type 2 diabetes.. 2022 , 23, 73	1
84	Tentonin 3/TMEM150C regulates glucose-stimulated insulin secretion in pancreatic β cells. 2021 , 37, 110067	1
83	RPS4Y1 Promotes High Glucose-Induced Endothelial Cell Apoptosis and Inflammation by Activation of the p38 MAPK Signaling. 2021 , 14, 4523-4534	0
82	Molecular pathways dysregulated by Pb exposure prompts pancreatic beta-cell dysfunction.. 2022 , 11, 206-214	1
81	Stem Cell-Derived β Cells: A Versatile Research Platform to Interrogate the Genetic Basis of β Cell Dysfunction.. 2022 , 23,	0
80	Diosgenin reduces phosphodiesterase 3B (PDE3B) through AMP-activated protein kinase/mechanistic target of rapamycin (AMPK/mTOR) signaling pathway to ameliorate streptozotocin-induced pancreatic β cell apoptosis and dysfunction.. 2022 , 13, 2217-2225	0
79	Blocking Kir6.2 channels with SpTx1 potentiates glucose-stimulated insulin secretion from murine pancreatic β cells and lowers blood glucose in diabetic mice.	
78	Prediction of diabetes mellitus induced by steroid overtreatment in adrenal insufficiency.. 2022 , 12, 885	
77	Apoptosis in Type 2 Diabetes: Can It Be Prevented? Hippo Pathway Prospects.. 2022 , 23,	3
76	halfMAFA and MAFB regulate exocytosis-related genes in human β cells.. 2022 , e13761	0
75	Hypophosphorylated pRb knock-in mice exhibit hallmarks of aging and vitamin C-preventable diabetes.. 2022 , e106825	1
74	Coding variants identified in diabetic patients alter PICK1 BAR domain function in insulin granule biogenesis.. 2022 ,	0
73	Inter-organ Crosstalk in Pancreatic Islet Function and Pathology.. 2022 ,	1
72	An adipose lncRAP2-Igf2bp2 complex enhances adipogenesis and energy expenditure by stabilizing target mRNAs.. 2022 , 25, 103680	0
71	Target and Candidate Agents for Diabetes Treatment in the framework of the food nexus. 2022 , 100041	0
70	Antioxidation of a proteoglycan from Ganoderma lucidum protects pancreatic β cells against oxidative stress-induced apoptosis in vitro and in vivo.. 2022 , 200, 470-470	0
69	Identification of Ascorbic Acid and Gallic Acid as Novel Inhibitors of Secreted Frizzled-Related Protein for the Treatment of Obesity-Induced Type 2 Diabetes.. 2022 , 20, 15593258211069707	

68	Small molecule SWELL1 complex induction improves glycemic control and nonalcoholic fatty liver disease in murine Type 2 diabetes.. 2022 , 13, 784	1
67	Mechanisms Underlying the Antidiabetic Activities of Polyphenolic Compounds: A Review.. 2021 , 12, 798329	3
66	Primary study on the hypoglycemic mechanism of 5 α oLGLP-HV in STZ-induced type 2 diabetes mellitus mice. 2018 , 43, 921-929	
65	Overview of genomics and post-genomics research on type 2 diabetes mellitus: Future perspectives and a framework for further studies. 2019 , 44,	2
64	Persistent high glucose induced EPB41L4A-AS1 inhibits glucose uptake via GCN5 mediating crotonylation and acetylation of histones and non-histones.. 2022 , 12, e699	1
63	Adult pancreatic islet endocrine cells emerge as fetal hormone-expressing cells.. 2022 , 38, 110377	0
62	Blocking Kir6.2 channels with SpTx1 potentiates glucose-stimulated insulin secretion from murine pancreatic β cells and lowers blood glucose in diabetic mice.. 2022 , 11,	3
61	Mitofusin2 Promotes Cell Maturation from Mouse Embryonic Stem Cells via Sirt3/Idh2 Activation.. 2022 , 2022, 1172795	1
60	β cell mitochondria in diabetes mellitus: a missing puzzle piece in the generation of hPSC-derived pancreatic β cells?. 2022 , 20, 163	0
59	Lipid traits and type 2 diabetes risk in African ancestry individuals: A Mendelian Randomization study.. 2022 , 78, 103953	1
58	Exosome microRNAs in Metabolic Syndrome as Tools for the Early Monitoring of Diabetes and Possible Therapeutic Options.. 2021 , 14,	1
57	Role of Circulating Microparticles in Type 2 Diabetes Mellitus: Implications for Pathological Clotting.. 2021 , 48,	1
56	Role of Oxidative Stress in Diabetic Cardiomyopathy.. 2022 , 11,	5
55	Accelerated Generation of Extra-Islet Insulin-Producing Cells in Diabetic Rats, Treated with Sodium Phthalhydrazide.. 2022 , 23,	0
54	Data_Sheet_1.XLSX. 2020 ,	
53	Image_1.jpeg. 2020 ,	
52	Table_1.docx. 2020 ,	
51	Table_2.docx. 2020 ,	

50	Prospective dietary radical scavengers: Boon in Pharmacokinetics, overcome insulin obstruction via signaling cascade for absorption during impediments in metabolic disorder like Diabetic Mellitus. 1	0
49	Cyanidin-3-O-Glucoside Ameliorates Palmitic-Acid-Induced Pancreatic Beta Cell Dysfunction by Modulating CHOP-Mediated Endoplasmic Reticulum Stress Pathways.. 2022, 14,	1
48	Is Type 2 Diabetes a Primary Mitochondrial Disorder?. 2022, 11, 1617	2
47	The association of LEPR Q223R polymorphism with type 2 diabetes mellitus in Malaysia. 2022, 201044	
46	Cucurbit[7]uril Inhibits IAPP Aggregation by Targeting N-terminus Hot Segments and Attenuates Cytotoxicity.. 2022,	1
45	Cargo receptor Surf4 regulates endoplasmic reticulum export of proinsulin in pancreatic β cells.. 2022, 5, 458	1
44	Apolipoprotein C-III is linked to the insulin resistance and beta-cell dysfunction that are present in rheumatoid arthritis. 2022, 24,	
43	The influence of aluminium and copper upon the early aggregatory behaviour and size of Islet Amyloid Polypeptide under simulated physiological conditions.. 2022, 127027	0
42	Kr μ pel-like factor 15 integrated autophagy and gluconeogenesis to maintain glucose homeostasis under 20-hydroxyecdysone regulation. 2022, 18, e1010229	0
41	Antigen-specific immunotherapies in type 1 diabetes. 2022, 127040	0
40	Liver Derived S100A6 Propels β Cell Dysfunction in NAFLD.	0
39	Long non-coding RNAs: a valuable biomarker for metabolic syndrome. 2022, 297, 1169-1183	1
38	Chapter 1. Chemical Approaches for Beta-cell Biology. 2022, 1-52	0
37	Targeting pancreatic β cells for diabetes treatment. 2022, 4, 1097-1108	0
36	Association of salivary alpha-2-macroglobulin with glycemia and glycated hemoglobin in type 2 diabetes mellitus: a systematic review and meta-analysis study.	0
35	A glucose-insulin-glucagon coupled model of the isoglycemic intravenous glucose infusion experiment. 13,	0
34	A new beta cell-specific mitophagy reporter mouse shows that metabolic stress leads to accumulation of dysfunctional mitochondria despite increased mitophagy.	0
33	The T-type calcium channel CaV3.2 regulates insulin secretion in the pancreatic β cell. 2022, 102669	1

- 32 Out of destruction comes new growth: Pore-forming antimicrobials make pancreas grow. **2022**, 34, 1611-1613 ○
- 31 Inhibition of Amyloid Protein Aggregation Using Selected Peptidomimetics. 1
- 30 The cell primary cilium is an autonomous Ca²⁺ compartment for paracrine GABA signaling. **2023**, 222, ○
- 29 Targeting pancreatic beta cell death in type 2 diabetes by polyphenols. 13, ○
- 28 Silencing RIPK1/mTORC1 signalling attenuated the inflammation and oxidative stress in diabetic cardiomyopathy. **2022**, 113417 ○
- 27 Long-term monitoring of intravital biological processes using fluorescent protein-assisted NIR-II imaging. **2022**, 13, ○
- 26 Identification of Selective BRD9 Inhibitor via Integrated Computational Approach. **2022**, 23, 13513 ○
- 25 Quercetin-3-O- β -arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside Isolated from *Eucommia ulmoides*; Oliver Leaf Relieves Insulin Resistance in HepG2 cells via the IRS-1/PI3K/Akt/GSK-3 β pathway. **2022**, ○
- 24 Pathophysiology of Type 2 Diabetes: A General Overview of Glucose and Insulin Homeostasis. **2022**, 1-26 ○
- 23 Sphingolipid subtypes differentially control proinsulin processing and systemic glucose homeostasis. ○
- 22 Roles of extracellular vesicles associated non-coding RNAs in Diabetes Mellitus. 13, ○
- 21 Visit-to-visit variability in triglyceride-glucose index and diabetes: A 9-year prospective study in the Kailuan Study. 13, ○
- 20 Insights into Manganese Superoxide Dismutase and Human Diseases. **2022**, 23, 15893 1
- 19 20-Hydroxyecdysone and Receptor Interplay in the Regulation of Hemolymph Glucose Level in Honeybee (*Apis mellifera*) Larvae. **2023**, 13, 80 ○
- 18 Inflammatory and immune etiology of type 2 diabetes. **2023**, ○
- 17 Cholesterol Redistribution in Pancreatic β Cells: A Flexible Path to Regulate Insulin Secretion. **2023**, 13, 224 ○
- 16 Nutritional strategies for intervention of diabetes and improvement of beta cell function. 1
- 15 Knowledge domain and emerging trends in beta-cell research: A bibliometric and knowledge-map analysis. 13, ○

- 14 Triterpenoid saponins and C21 steroidal glycosides from *Gymnema tingens* and their glucose uptake activities. **2023**, 13, 7503-7513 ○
- 13 Adipose-targeted SWELL1 deletion exacerbates obesity- and age-related nonalcoholic fatty liver disease. **2023**, 8, ○
- 12 THADA inhibition in mice protects against type 2 diabetes mellitus by improving pancreatic β cell function and preserving β cell mass. **2023**, 14, ○
- 11 Inhibition of hyaluronan synthesis prevents β cell loss in obesity-associated type 2 diabetes. ○
- 10 Cell Encapsulation and 3D Bioprinting for Therapeutic Cell Transplantation. **2023**, 9, 1862-1890 1
- 9 Role of the inflammasome in insulin resistance and type 2 diabetes mellitus. 14, ○
- 8 A proinsulin-dependent interaction between ENPL-1 and ASNA-1 in neurons is required to maintain insulin secretion in *C. elegans*. **2023**, 150, ○
- 7 Novel Aryl Sulfonamide Derivatives as NLRP3 Inflammasome Inhibitors for the Potential Treatment of Cancer. **2023**, 66, 5223-5241 ○
- 6 A narrative review: CXC chemokines influence immune surveillance in obesity and obesity-related diseases: Type 2 diabetes and nonalcoholic fatty liver disease. ○
- 5 Prospects of potential adipokines as therapeutic agents in obesity-linked atherogenic dyslipidemia and insulin resistance. **2023**, 75, ○
- 4 Vitamin D in Diabetes: Uncovering the Sunshine Hormone's Role in Glucose Metabolism and Beyond. **2023**, 15, 1997 ○
- 3 Activation of Insulin Gene Expression via Transfection of a CRISPR/dCas9a System Using Magnetic Peptide-Imprinted Nanoparticles. **2023**, 15, 1311 ○
- 2 HM-Chromanone Alleviates Hyperglycemia by Protecting Pancreatic Islet Cells in Streptozotocin-Induced Diabetic Mice. ○
- 1 PICK1-Deficient Mice Maintain Their Glucose Tolerance During Diet-Induced Obesity. **2023**, 7, ○