Guy A Rutter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

336	16,794	73	113
papers	citations	h-index	g-index
369	19,160 ext. citations	6.3	6.84
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
336	Destabilization of #Cell FIT2 by saturated fatty acids alter lipid droplet numbers and contribute to ER stress and diabetes <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113074119	11.5	1
335	Opposing effects on regulated insulin secretion of acute vs chronic stimulation of AMP-activated protein kinase <i>Diabetologia</i> , 2022 , 65, 997	10.3	
334	Autotaxin signaling facilitates #cell dedifferentiation and dysfunction induced by Sirtuin 3 deficiency <i>Molecular Metabolism</i> , 2022 , 101493	8.8	O
333	Homocysteine Metabolism Pathway Is Involved in the Control of Glucose Homeostasis: A Cystathionine Beta Synthase Deficiency Study in Mouse. <i>Cells</i> , 2022 , 11, 1737	7.9	2
332	Consequences for Pancreatic	5.7	O
331	The Ca -binding protein sorcin stimulates transcriptional activity of the unfolded protein response mediator ATF6. <i>FEBS Letters</i> , 2021 , 595, 1782-1796	3.8	1
330	Dysregulation of the Pdx1/Ovol2/Zeb2 axis in dedifferentiated #cells triggers the induction of genes associated with epithelial-mesenchymal transition in diabetes. <i>Molecular Metabolism</i> , 2021 , 53, 101248	8.8	2
329	Replication and cross-validation of type 2 diabetes subtypes based on clinical variables: an IMI-RHAPSODY study. <i>Diabetologia</i> , 2021 , 64, 1982-1989	10.3	11
328	124-OR: Repetitive Ca2+ Waves Emanate from a Stable Leader Cell in Mouse Islets. <i>Diabetes</i> , 2021 , 70, 124-OR	0.9	
327	87-LB: Binding Kinetics, Bias, Receptor Internalization, and Effects on Insulin Secretion for a Novel GLP1R-GIPR Dual Agonist, HISHS-2001. <i>Diabetes</i> , 2021 , 70, 87-LB	0.9	2
326	228-LB: 🗗 rrestin-2 Deletion Influences GLP-1 Receptor Signaling in Pancreatic ICells In Vivo. <i>Diabetes</i> , 2021 , 70, 228-LB	0.9	
325	Adipocyte-specific deletion of Tcf7l2 induces dysregulated lipid metabolism and impairs glucose tolerance in mice. <i>Diabetologia</i> , 2021 , 64, 129-141	10.3	6
324	Genetic and biased agonist-mediated reductions in #arrestin recruitment prolong cAMP signaling at glucagon family receptors. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100133	5.4	18
323	Pancreatic Sirtuin 3 Deficiency Promotes Hepatic Steatosis by Enhancing 5-Hydroxytryptamine Synthesis in Mice With Diet-Induced Obesity. <i>Diabetes</i> , 2021 , 70, 119-131	0.9	4
322	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis. <i>Diabetologia</i> , 2021 , 64, 850-864	10.3	3
321	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a regulator of insulin secretion. <i>Cell Reports</i> , 2021 , 34, 108703	10.6	1
320	Evaluation of efficacy- versus affinity-driven agonism with biased GLP-1R ligands P5 and exendin-F1. <i>Biochemical Pharmacology</i> , 2021 , 190, 114656	6	1

(2020-2021)

319	Distinct Molecular Signatures of Clinical Clusters in People With Type 2 Diabetes: An IMI-RHAPSODY Study. <i>Diabetes</i> , 2021 , 70, 2683-2693	0.9	4
318	Intravital imaging of islet Ca dynamics reveals enhanced #cell connectivity after bariatric surgery in mice. <i>Nature Communications</i> , 2021 , 12, 5165	17.4	2
317	Mechanisms of weight loss after obesity surgery. Endocrine Reviews, 2021,	27.2	5
316	Macrophage monocarboxylate transporter 1 promotes peripheral nerve regeneration after injury in mice. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
315	PDX1 MAFA #cells contribute to islet function and insulin release. <i>Nature Communications</i> , 2021 , 12, 674	17.4	15
314	Covid-19 and Diabetes: A Complex Bidirectional Relationship. Frontiers in Endocrinology, 2020 , 11, 5829	3 6 .7	36
313	Functional Genomics in Pancreatic #Cells: Recent Advances in Gene Deletion and Genome Editing Technologies for Diabetes Research. <i>Frontiers in Endocrinology</i> , 2020 , 11, 576632	5.7	7
312	The type 2 diabetes gene product STARD10 is a phosphoinositide-binding protein that controls insulin secretory granule biogenesis. <i>Molecular Metabolism</i> , 2020 , 40, 101015	8.8	10
311	Synthesis and in vivo behaviour of an exendin-4-based MRI probe capable of ⊕cell-dependent contrast enhancement in the pancreas. <i>Dalton Transactions</i> , 2020 , 49, 4732-4740	4.3	4
310	Dietary substitution of SFA with MUFA within high-fat diets attenuates hyperinsulinaemia and pancreatic islet dysfunction. <i>British Journal of Nutrition</i> , 2020 , 124, 247-255	3.6	8
309	A polysaccharide extract from the medicinal plant Maidong inhibits the IKK-NF- B pathway and IL-1\(\mathbb{H}\) induced islet inflammation and increases insulin secretion. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12573-12587	5.4	4
308	Age matters: Grading granule secretion in beta cells. <i>Journal of Biological Chemistry</i> , 2020 , 295, 8912-89	1534	1
307	Glucocorticoid Metabolism in Obesity and Following Weight Loss. <i>Frontiers in Endocrinology</i> , 2020 , 11, 59	5.7	30
306	The pore-forming subunit MCU of the mitochondrial Ca uniporter is required for normal glucose-stimulated insulin secretion in vitro and in vivo in mice. <i>Diabetologia</i> , 2020 , 63, 1368-1381	10.3	16
305	Disconnect between signalling potency and in vivo efficacy of pharmacokinetically optimised biased glucagon-like peptide-1 receptor agonists. <i>Molecular Metabolism</i> , 2020 , 37, 100991	8.8	16
304	Signalling, trafficking and glucoregulatory properties of glucagon-like peptide-1 receptor agonists exendin-4 and lixisenatide. <i>British Journal of Pharmacology</i> , 2020 , 177, 3905-3923	8.6	20
303	Glucose in the hypothalamic paraventricular nucleus regulates GLP-1 release. JCI Insight, 2020, 5,	9.9	2
302	1683-P: Upregulation of Pancreatic Islet EGF Receptor Improves Beta-Cell Identity and In Vivo Vascularisation in a Directly Observed Transplant Model. <i>Diabetes</i> , 2020 , 69, 1683-P	0.9	

301	1912-P: Bariatric Surgery Downregulates Glucocorticoid Signaling in Mice. <i>Diabetes</i> , 2020 , 69, 1912-P	0.9	
300	2100-P: Binding Kinetics, GLP-1 Receptor Internalization, and Effects on Insulin Secretion for GL0034 and Related GLP-1R Agonists. <i>Diabetes</i> , 2020 , 69, 2100-P	0.9	
299	320-OR: Bariatric Surgery Improves Ca2+ Dynamics across Pancreatic Islets In Vivo. <i>Diabetes</i> , 2020 , 69, 320-OR	0.9	
298	2072-P: Deletion of the Mitofusins 1 and 2 (Mfn1 and Mfn2) in the Pancreatic Beta Cell Disrupts Mitochondrial Structure and Function In Vitro and Strongly Impairs Glucose-Stimulated Insulin Secretion In Vivo. <i>Diabetes</i> , 2020 , 69, 2072-P	0.9	
297	1798-P: Chronic Administration of a Long-Acting Glucagon Analogue Results in Enhanced Insulin Secretory Activity in a Directly-Observed Murine Model. <i>Diabetes</i> , 2020 , 69, 1798-P	0.9	
296	Effects on pancreatic Beta and other Islet cells of the glucose-dependent insulinotropic polypeptide. <i>Peptides</i> , 2020 , 125, 170201	3.8	8
295	Control by Ca of mitochondrial structure and function in pancreatic ⊕cells. <i>Cell Calcium</i> , 2020 , 91, 10228	324	6
294	Ligand-Specific Factors Influencing GLP-1 Receptor Post-Endocytic Trafficking and Degradation in Pancreatic Beta Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
293	Persistent or Transient Human #Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. <i>Cell Reports</i> , 2020 , 33, 108466	10.6	22
292	The roles of cytosolic and intramitochondrial Ca and the mitochondrial Ca-uniporter (MCU) in the stimulation of mammalian oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , 2020 , 295, 10506	5.4	2
291	A surrogate of Roux-en-Y gastric bypass (the enterogastro anastomosis surgery) regulates multiple beta-cell pathways during resolution of diabetes in ob/ob mice. <i>EBioMedicine</i> , 2020 , 58, 102895	8.8	6
2 90	Comment on Satin et al. "Take Me To Your Leader": An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. Diabetes 2020;69:830-836. <i>Diabetes</i> , 2020 , 69, e10-e11	0.9	12
289	Loss of ⊕cell identity and diabetic phenotype in mice caused by disruption of CNOT3-dependent mRNA deadenylation. <i>Communications Biology</i> , 2020 , 3, 476	6.7	8
288	Metabolic and functional specialisations of the pancreatic beta cell: gene disallowance, mitochondrial metabolism and intercellular connectivity. <i>Diabetologia</i> , 2020 , 63, 1990-1998	10.3	27
287	Metabolic and Functional Heterogeneity in Pancreatic #Cells. <i>Journal of Molecular Biology</i> , 2020 , 432, 1395-1406	6.5	13
286	The Influence of Peptide Context on Signaling and Trafficking of Glucagon-like Peptide-1 Receptor Biased Agonists. <i>ACS Pharmacology and Translational Science</i> , 2020 , 3, 345-360	5.9	20
285	Long Non-Coding RNAs as Key Modulators of Pancreatic & Cell Mass and Function. <i>Frontiers in Endocrinology</i> , 2020 , 11, 610213	5.7	4
284	Agonist-induced membrane nanodomain clustering drives GLP-1 receptor responses in pancreatic beta cells. <i>PLoS Biology</i> , 2019 , 17, e3000097	9.7	34

283	An essential role for the Zn transporter ZIP7 in B cell development. <i>Nature Immunology</i> , 2019 , 20, 350-3	619.1	54
282	Leader ⊪cells coordinate Ca dynamics across pancreatic islets in vivo. <i>Nature Metabolism</i> , 2019 , 1, 615-6	29 4.6	70
281	Contributions of Mitochondrial Dysfunction to ∄Cell Failure in Diabetes Mellitus 2019 , 217-243		2
2 80	Convolutional neural networks for reconstruction of undersampled optical projection tomography data applied to in vivo imaging of zebrafish. <i>Journal of Biophotonics</i> , 2019 , 12, e201900128	3.1	6
279	Fostering improved human islet research: a European perspective. <i>Diabetologia</i> , 2019 , 62, 1514-1516	10.3	9
278	Pancreatic islet secretion: gabbling via GABA. <i>Nature Metabolism</i> , 2019 , 1, 1032-1033	14.6	
277	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. <i>Nature Genetics</i> , 2019 , 51, 1596-1606	36.3	45
276	mTORC1 to AMPK switching underlies #cell metabolic plasticity during maturation and diabetes . <i>Journal of Clinical Investigation</i> , 2019 , 129, 4124-4137	15.9	47
275	2183-P: miR-125b Is Regulated by Glucose via AMPK and Impairs ECell Function. <i>Diabetes</i> , 2019 , 68, 2183	3 - ₽ .9	2
274	161-LB: Inhibition of Kidney SGLT2 Expression following Bariatric Surgery in Mice. <i>Diabetes</i> , 2019 , 68, 161-LB	0.9	
273	Zn-transporters ZIP7 and ZnT7 play important role in progression of cardiac dysfunction via affecting sarco(endo)plasmic reticulum-mitochondria coupling in hyperglycemic cardiomyocytes. <i>Mitochondrion</i> , 2019 , 44, 41-52	4.9	28
272	Targeting GLP-1 receptor trafficking to improve agonist efficacy. <i>Nature Communications</i> , 2018 , 9, 1602	17.4	88
271	Sensors for measuring subcellular zinc pools. <i>Metallomics</i> , 2018 , 10, 229-239	4.5	25
270	Control of insulin secretion by GLP-1. <i>Peptides</i> , 2018 , 100, 75-84	3.8	42
269	MiR-184 expression is regulated by AMPK in pancreatic islets. FASEB Journal, 2018, 32, 2587-2600	0.9	28
268	A Targeted RNAi Screen Identifies Endocytic Trafficking Factors That Control GLP-1 Receptor Signaling in Pancreatic	0.9	26
267	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca Mobilization From Acidic Stores in Pancreatic Ecells. <i>Diabetes</i> , 2018 , 67, 1128-1139	0.9	46
266	Mice harboring the human R138X loss-of-function mutation have increased insulin secretory capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E76	54 2 -€7	649

265	Down-regulation of vascular GLP-1 receptor expression in human subjects with obesity. <i>Scientific Reports</i> , 2018 , 8, 10644	4.9	12
264	The effects of kisspeptin on #cell function, serum metabolites and appetite in humans. <i>Diabetes, Obesity and Metabolism</i> , 2018 , 20, 2800-2810	6.7	39
263	Hypothalamic arcuate nucleus glucokinase regulates insulin secretion and glucose homeostasis. <i>Diabetes, Obesity and Metabolism</i> , 2018 , 20, 2246-2254	6.7	6
262	Chronic d-serine supplementation impairs insulin secretion. <i>Molecular Metabolism</i> , 2018 , 16, 191-202	8.8	11
261	Obesity, diabetes and zinc: A workshop promoting knowledge and collaboration between the UK and Israel, november 28-30, 2016 - Israel. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018 , 49, 79-85	4.1	О
260	Neuronatin regulates pancreatic #cell insulin content and secretion. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3369-3381	15.9	26
259	Real-Time In Vivo Imaging of Whole Islet Ca2+ Dynamics Reveals Glucose-Induced Changes in Beta-Cell Connectivity in Mouse and Human Islets. <i>Diabetes</i> , 2018 , 67, 249-LB	0.9	0
258	Manipulation and Measurement of AMPK Activity in Pancreatic Islets. <i>Methods in Molecular Biology</i> , 2018 , 1732, 413-431	1.4	3
257	Systems biology of the IMIDIA biobank from organ donors and pancreatectomised patients defines a novel transcriptomic signature of islets from individuals with type 2 diabetes. <i>Diabetologia</i> , 2018 , 61, 641-657	10.3	84
256	Glucocorticoids Reprogram #Cell Signaling to Preserve Insulin Secretion. <i>Diabetes</i> , 2018 , 67, 278-290	0.9	39
255	The Impact of Pancreatic Beta Cell Heterogeneity on Type 1 Diabetes Pathogenesis. <i>Current Diabetes Reports</i> , 2018 , 18, 112	5.6	9
254	The Etell in diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 694-704	15.2	49
253	Age-related islet inflammation marks the proliferative decline of pancreatic beta-cells in zebrafish. <i>ELife</i> , 2018 , 7,	8.9	19
252	Transcription factor-7-like 2 () gene acts downstream of the / kinase to control mTOR signaling, € cell growth, and insulin secretion. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14178-14189	5.4	15
251	The Role of Oxidative Stress and Hypoxia in Pancreatic Beta-Cell Dysfunction in Diabetes Mellitus. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 501-518	8.4	273
250	Diabetes: Controlling the identity of the adult pancreatic	15.2	4
249	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. <i>American Journal of Human Genetics</i> , 2017 , 100, 238-256	11	50
248	Hyperglycemia-Induced Changes in ZIP7 and ZnT7 Expression Cause Zn Release From the Sarco(endo)plasmic Reticulum and Mediate ER Stress in the Heart. <i>Diabetes</i> , 2017 , 66, 1346-1358	0.9	46

247	GABA signaling: A route to new pancreatic #cells. <i>Cell Research</i> , 2017 , 27, 309-310	24.7	6
246	The transcription factor is required for pancreatic #cell identity, glucose-regulated ATP synthesis, and Ca dynamics in adult mice. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8892-8906	5.4	34
245	Local and regional control of calcium dynamics in the pancreatic islet. <i>Diabetes, Obesity and Metabolism</i> , 2017 , 19 Suppl 1, 30-41	6.7	29
244	SLC30A9 mutation affecting intracellular zinc homeostasis causes a novel cerebro-renal syndrome. <i>Brain</i> , 2017 , 140, 928-939	11.2	43
243	Molecular phenotyping of multiple mouse strains under metabolic challenge uncovers a role for in glucose-induced insulin secretion. <i>Molecular Metabolism</i> , 2017 , 6, 340-351	8.8	30
242	Pancreatic alpha cell-selective deletion of Tcf7l2 impairs glucagon secretion and counter-regulatory responses to hypoglycaemia in mice. <i>Diabetologia</i> , 2017 , 60, 1043-1050	10.3	13
241	Remote control of glucose homeostasis in vivo using photopharmacology. <i>Scientific Reports</i> , 2017 , 7, 291	4.9	23
240	Analysis of Purified Pancreatic Islet Beta and Alpha Cell Transcriptomes Reveals 11\pm\Hydroxysteroid Dehydrogenase (Hsd11b1) as a Novel Disallowed Gene. <i>Frontiers in Genetics</i> , 2017 , 8, 41	4.5	36
239	Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. Cell Metabolism, 2016, 24, 389-401	24.6	248
238	Lipid-tuned Zinc Transport Activity of Human ZnT8 Protein Correlates with Risk for Type-2 Diabetes. <i>Journal of Biological Chemistry</i> , 2016 , 291, 26950-26957	5.4	50
237	Proglucagon-Derived Peptides Do Not Significantly Affect Acute Exocrine Pancreas in Rats. <i>Pancreas</i> , 2016 , 45, 967-73	2.6	
236	Photoswitchable diacylglycerols enable optical control of protein kinase C. <i>Nature Chemical Biology</i> , 2016 , 12, 755-62	11.7	83
235	Molecular Genetic Regulation of Slc30a8/ZnT8 Reveals a Positive Association With Glucose Tolerance. <i>Molecular Endocrinology</i> , 2016 , 30, 77-91		51
234	Allosteric Optical Control of a Class B G-Protein-Coupled Receptor. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5865-8	16.4	36
233	Cell type-specific deletion in mice reveals roles for PAS kinase in insulin and glucagon production. <i>Diabetologia</i> , 2016 , 59, 1938-47	10.3	7
232	Calcium-insensitive splice variants of mammalian E1 subunit of 2-oxoglutarate dehydrogenase complex with tissue-specific patterns of expression. <i>Biochemical Journal</i> , 2016 , 473, 1165-78	3.8	22
231	Zinc and diabetes. Archives of Biochemistry and Biophysics, 2016, 611, 79-85	4.1	96
230	Pancreatic #cell imaging in humans: fiction or option?. <i>Diabetes, Obesity and Metabolism</i> , 2016 , 18, 6-15	6.7	31

229	Disallowance of Acot7 in & Cells Is Required for Normal Glucose Tolerance and Insulin Secretion. <i>Diabetes</i> , 2016 , 65, 1268-82	0.9	19
228	Sorcin Links Pancreatic ⊕Cell Lipotoxicity to ER Ca2+ Stores. <i>Diabetes</i> , 2016 , 65, 1009-21	0.9	32
227	Role of microRNAs in the age-associated decline of pancreatic beta cell function in rat islets. <i>Diabetologia</i> , 2016 , 59, 161-169	10.3	31
226	MiRNAs in ⊕Cell Development, Identity, and Disease. <i>Frontiers in Genetics</i> , 2016 , 7, 226	4.5	36
225	Proglucagon Promoter Cre-Mediated AMPK Deletion in Mice Increases Circulating GLP-1 Levels and Oral Glucose Tolerance. <i>PLoS ONE</i> , 2016 , 11, e0149549	3.7	9
224	Over-expression of Slc30a8/ZnT8 selectively in the mouse Itell impairs glucagon release and responses to hypoglycemia. <i>Nutrition and Metabolism</i> , 2016 , 13, 46	4.6	16
223	Allosterische optische Steuerung eines Klasse-B-G-Protein-gekoppelten Rezeptors. <i>Angewandte Chemie</i> , 2016 , 128, 5961-5965	3.6	8
222	Changes in the expression of the type 2 diabetes-associated gene VPS13C in the ⊕cell are associated with glucose intolerance in humans and mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 311, E488-507	6	14
221	Intracellular zinc in insulin secretion and action: a determinant of diabetes risk?. <i>Proceedings of the Nutrition Society</i> , 2016 , 75, 61-72	2.9	44
220	The two pore channel TPC2 is dispensable in pancreatic ⊪cells for normal Ca⊪+ dynamics and insulin secretion. <i>Cell Calcium</i> , 2016 , 59, 32-40	4	20
219	Chronic Activation of ☑ AMPK Induces Obesity and Reduces ♯Cell Function. <i>Cell Metabolism</i> , 2016 , 23, 821-36	24.6	66
218	Modeling Type 2 Diabetes GWAS Candidate Gene Function in hESCs. Cell Stem Cell, 2016, 19, 281-2	18	4
217	Pancreatic & cell identity, glucose sensing and the control of insulin secretion. <i>Biochemical Journal</i> , 2015 , 466, 203-18	3.8	233
216	eZinCh-2: A Versatile, Genetically Encoded FRET Sensor for Cytosolic and Intraorganelle Zn(2+) Imaging. <i>ACS Chemical Biology</i> , 2015 , 10, 2126-34	4.9	64
215	Metformin activates a duodenal Ampk-dependent pathway to lower hepatic glucose production in rats. <i>Nature Medicine</i> , 2015 , 21, 506-11	50.5	242
214	Limited impact on glucose homeostasis of leptin receptor deletion from insulin- or proglucagon-expressing cells. <i>Molecular Metabolism</i> , 2015 , 4, 619-30	8.8	31
213	The zinc transporter ZIP12 regulates the pulmonary vascular response to chronic hypoxia. <i>Nature</i> , 2015 , 524, 356-60	50.4	85
212	Changes in microRNA expression during differentiation of embryonic and induced pluripotent stem cells to definitive endoderm. <i>Gene Expression Patterns</i> , 2015 , 19, 70-82	1.5	4

(2014-2015)

211	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic	5.4	43
210	Beta cell connectivity in pancreatic islets: a type 2 diabetes target?. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 453-467	10.3	46
209	Selective disruption of Tcf7l2 in the pancreatic #cell impairs secretory function and lowers #cell mass. <i>Human Molecular Genetics</i> , 2015 , 24, 1390-9	5.6	68
208	Sarco(endo)plasmic reticulum ATPase is a molecular partner of Wolfram syndrome 1 protein, which negatively regulates its expression. <i>Human Molecular Genetics</i> , 2015 , 24, 814-27	5.6	32
207	SLC30A8 mutations in type 2 diabetes. <i>Diabetologia</i> , 2015 , 58, 31-6	10.3	73
206	Dual-modal magnetic resonance/fluorescent zinc probes for pancreatic ⊪cell mass imaging. Chemistry - A European Journal, 2015 , 21, 5023-33	4.8	47
205	Defects in mitophagy promote redox-driven metabolic syndrome in the absence of TP53INP1. <i>EMBO Molecular Medicine</i> , 2015 , 7, 802-18	12	30
204	LKB1 and AMPKI are required in pancreatic alpha cells for the normal regulation of glucagon secretion and responses to hypoglycemia. <i>Molecular Metabolism</i> , 2015 , 4, 277-86	8.8	21
203	DICER Inactivation Identifies Pancreatic		53
202	Optical Control of Insulin Secretion Using an Incretin Switch. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15565-9	16.4	60
201	Loss of Liver Kinase B1 (LKB1) in Beta Cells Enhances Glucose-stimulated Insulin Secretion Despite Profound Mitochondrial Defects. <i>Journal of Biological Chemistry</i> , 2015 , 290, 20934-20946	5.4	26
200	The Zinc Transporter Slc30a8/ZnT8 Is Required in a Subpopulation of Pancreatic Ecells for Hypoglycemia-induced Glucagon Secretion. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21432-42	5.4	32
199	Cell biology. Pancreas micromanages autophagy. <i>Science</i> , 2015 , 347, 826-7	33.3	2
198	Dynamic imaging of compartmentalised intracellular free Zn2+ concentrations in rat ventricular cardiomyocytes. <i>FASEB Journal</i> , 2015 , 29, 951.3	0.9	
197	Calcium signaling in pancreatic ⊕cells in health and in Type 2 diabetes. <i>Cell Calcium</i> , 2014 , 56, 340-61	4	125
196	Biologically targeted probes for Zn: a diversity oriented modular "click-SAr-click" approach[Electronic supplementary information (ESI) available: Full experimental details including characterisation of all novel compounds can be found in the ESI. See DOI: 10.1039/c4sc01249f.	9.4	46
195	LKB1 and AMPK differentially regulate pancreatic #cell identity. <i>FASEB Journal</i> , 2014 , 28, 4972-85	0.9	60
194	Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , 2014 , 5, 5116	17.4	90

193	ADCY5 couples glucose to insulin secretion in human islets. <i>Diabetes</i> , 2014 , 63, 3009-21	0.9	91
192	Dorothy Hodgkin Lecture 2014. Understanding genes identified by genome-wide association studies for type 2 diabetes. <i>Diabetic Medicine</i> , 2014 , 31, 1480-7	3.5	27
191	Mitochondria-associated endoplasmic reticulum membranes in insulin signaling. <i>Diabetes</i> , 2014 , 63, 316	53 3 559	22
190	Mitochondrial and ER-targeted eCALWY probes reveal high levels of free Zn2+. <i>ACS Chemical Biology</i> , 2014 , 9, 2111-20	4.9	83
189	Hypoxia lowers SLC30A8/ZnT8 expression and free cytosolic Zn2+ in pancreatic beta cells. <i>Diabetologia</i> , 2014 , 57, 1635-44	10.3	31
188	Pancreatic	0.9	42
187	Use of genetically encoded sensors to monitor cytosolic ATP/ADP ratio in living cells. <i>Methods in Enzymology</i> , 2014 , 542, 289-311	1.7	12
186	Roles of lncRNAs in pancreatic beta cell identity and diabetes susceptibility. <i>Frontiers in Genetics</i> , 2014 , 5, 193	4.5	24
185	Rfx6 maintains the functional identity of adult pancreatic #cells. <i>Cell Reports</i> , 2014 , 9, 2219-32	10.6	78
184	The Peutz-Jeghers kinase LKB1 suppresses polyp growth from intestinal cells of a proglucagon-expressing lineage in mice. <i>DMM Disease Models and Mechanisms</i> , 2014 , 7, 1275-86	4.1	9
183	Incretin-modulated beta cell energetics in intact islets of Langerhans. <i>Molecular Endocrinology</i> , 2014 , 28, 860-71		47
182	Hypothalamic glucagon signals through the KATP channels to regulate glucose production. <i>Molecular Metabolism</i> , 2014 , 3, 202-8	8.8	22
181	Divergent effects of liraglutide, exendin-4, and sitagliptin on beta-cell mass and indicators of pancreatitis in a mouse model of hyperglycaemia. <i>PLoS ONE</i> , 2014 , 9, e104873	3.7	23
180	The role of microRNAs in the pancreatic differentiation of pluripotent stem cells. <i>MicroRNA</i> (Shariqah, United Arab Emirates), 2014 , 3, 54-63	2.9	9
179	Ring1b bookmarks genes in pancreatic embryonic progenitors for repression in adult #cells. <i>Genes and Development</i> , 2013 , 27, 52-63	12.6	23
178	Could lncRNAs contribute to <code>#cell</code> identity and its loss in Type 2 diabetes?. <i>Biochemical Society Transactions</i> , 2013 , 41, 797-801	5.1	14
177	Cellular and animal models of type 2 diabetes GWAS gene polymorphisms: what can we learn?. Drug Discovery Today: Disease Models, 2013, 10, e59-e64	1.3	
176	Frequency-dependent mitochondrial Ca(2+) accumulation regulates ATP synthesis in pancreatic cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2013 , 465, 543-54	4.6	59

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175	Live-cell imaging of vesicle trafficking and divalent metal ions by total internal reflection fluorescence (TIRF) microscopy. <i>Methods in Molecular Biology</i> , 2013 , 950, 13-26	1.4	6
174	Lanthanide(III) complexes of rhodamine-DO3A conjugates as agents for dual-modal imaging. <i>Inorganic Chemistry</i> , 2013 , 52, 14284-93	5.1	41
173	When less is more: the forbidden fruits of gene repression in the adult ⊕cell. <i>Diabetes, Obesity and Metabolism</i> , 2013 , 15, 503-12	6.7	71
172	Minireview: intraislet regulation of insulin secretion in humans. <i>Molecular Endocrinology</i> , 2013 , 27, 1984	4-95	51
171	Animal models of GWAS-identified type 2 diabetes genes. Journal of Diabetes Research, 2013, 2013, 90	6599	27
170	Lipotoxicity disrupts incretin-regulated human ∄cell connectivity. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4182-94	15.9	155
169	Overexpression of ZAC impairs glucose-stimulated insulin translation and secretion in clonal pancreatic beta-cells. <i>Diabetes/Metabolism Research and Reviews</i> , 2012 , 28, 645-53	7.5	10
168	Abnormal glucose tolerance and insulin secretion in pancreas-specific Tcf7l2-null mice. <i>Diabetologia</i> , 2012 , 55, 2667-2676	10.3	88
167	The mitochondrial Na+/Ca2+ exchanger upregulates glucose dependent Ca2+ signalling linked to insulin secretion. <i>PLoS ONE</i> , 2012 , 7, e46649	3.7	52
166	Regulation of ATP production by mitochondrial Ca(2+). <i>Cell Calcium</i> , 2012 , 52, 28-35	4	201
166 165	Regulation of ATP production by mitochondrial Ca(2+). <i>Cell Calcium</i> , 2012 , 52, 28-35 Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 , 213, 115-22	4-7	2 01
	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 ,		
165	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 , 213, 115-22 Comment on: Schuit et al. #Cell-specific gene repression: a mechanism to protect against inappropriate or maladjusted insulin secretion? Diabetes 2012;61:969-975. <i>Diabetes</i> , 2012 , 61, e16;	4.7	9
165 164	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 , 213, 115-22 Comment on: Schuit et al. Cell-specific gene repression: a mechanism to protect against inappropriate or maladjusted insulin secretion? Diabetes 2012;61:969-975. <i>Diabetes</i> , 2012 , 61, e16; author reply e17 Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic cells leads to	4.7	9
165 164 163	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 , 213, 115-22 Comment on: Schuit et al. Cell-specific gene repression: a mechanism to protect against inappropriate or maladjusted insulin secretion? Diabetes 2012;61:969-975. <i>Diabetes</i> , 2012 , 61, e16; author reply e17 Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic cells leads to relative hyperinsulinism during exercise. <i>Diabetes</i> , 2012 , 61, 1719-25 Glucose-induced nuclear shuttling of ChREBP is mediated by sorcin and Ca(2+) ions in pancreatic	0.9	9 4 72
165 164 163	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 , 213, 115-22 Comment on: Schuit et al. #Cell-specific gene repression: a mechanism to protect against inappropriate or maladjusted insulin secretion? Diabetes 2012;61:969-975. <i>Diabetes</i> , 2012 , 61, e16; author reply e17 Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic #cells leads to relative hyperinsulinism during exercise. <i>Diabetes</i> , 2012 , 61, 1719-25 Glucose-induced nuclear shuttling of ChREBP is mediated by sorcin and Ca(2+) ions in pancreatic #cells. <i>Diabetes</i> , 2012 , 61, 574-85 PPAR#/laffects pancreatic #cell mass and insulin secretion in mice. <i>Journal of Clinical Investigation</i>	0.9	9 4 7 ² 38
165 164 163 162	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012 , 213, 115-22 Comment on: Schuit et al. \$\mathbb{C}\text{Cell-specific gene repression: a mechanism to protect against inappropriate or maladjusted insulin secretion? Diabetes 2012;61:969-975. <i>Diabetes</i> , 2012 , 61, e16; author reply e17 Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic \$\mathbb{C}\text{cells leads to relative hyperinsulinism during exercise. <i>Diabetes</i> , 2012 , 61, 1719-25 Glucose-induced nuclear shuttling of ChREBP is mediated by sorcin and Ca(2+) ions in pancreatic \$\mathbb{C}\text{cells. <i>Diabetes</i> , 2012 , 61, 574-85 PPAR\$\mathbb{D}\text{affects pancreatic }\mathbb{C}cell mass and insulin secretion in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 4105-17 The mitochondrial Ca2+ uniporter MCU is essential for glucose-induced ATP increases in pancreatic	4.70.90.915.9	9 4 7 ² 38 35

157	Per-arnt-sim (PAS) domain-containing protein kinase is downregulated in human islets in type 2 diabetes and regulates glucagon secretion. <i>Diabetologia</i> , 2011 , 54, 819-27	10.3	38
156	miR-29a and miR-29b contribute to pancreatic beta-cell-specific silencing of monocarboxylate transporter 1 (Mct1). <i>Molecular and Cellular Biology</i> , 2011 , 31, 3182-94	4.8	208
155	Class II phosphoinositide 3-kinase regulates exocytosis of insulin granules in pancreatic beta cells. Journal of Biological Chemistry, 2011 , 286, 4216-25	5.4	96
154	Nucleo-cytosolic shuttling of FoxO1 directly regulates mouse Ins2 but not Ins1 gene expression in pancreatic beta cells (MIN6). <i>Journal of Biological Chemistry</i> , 2011 , 286, 13647-56	5.4	25
153	Human mutation within Per-Arnt-Sim (PAS) domain-containing protein kinase (PASK) causes basal insulin hypersecretion. <i>Journal of Biological Chemistry</i> , 2011 , 286, 44005-44014	5.4	18
152	RIP2-mediated LKB1 deletion causes axon degeneration in the spinal cord and hind-limb paralysis. <i>DMM Disease Models and Mechanisms</i> , 2011 , 4, 193-202	4.1	22
151	Glucose regulates free cytosolic Zn∰+ concentration, Slc39 (ZiP), and metallothionein gene expression in primary pancreatic islet ⊕cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 25778-89	5.4	91
150	Imaging dynamic insulin release using a fluorescent zinc indicator for monitoring induced exocytotic release (ZIMIR). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 21063-8	11.5	112
149	Think zinc: New roles for zinc in the control of insulin secretion. <i>Islets</i> , 2010 , 2, 49-50	2	68
148	Insulin gene mutations resulting in early-onset diabetes: marked differences in clinical presentation, metabolic status, and pathogenic effect through endoplasmic reticulum retention. <i>Diabetes</i> , 2010 , 59, 653-61	0.9	112
147	Carbohydrate-responsive element-binding protein (ChREBP) is a negative regulator of ARNT/HIF-1beta gene expression in pancreatic islet beta-cells. <i>Diabetes</i> , 2010 , 59, 153-60	0.9	53
146	Hypothalamic AMP-activated protein kinase regulates glucose production. <i>Diabetes</i> , 2010 , 59, 2435-43	0.9	68
145	Cell-wide analysis of secretory granule dynamics in three dimensions in living pancreatic beta-cells: evidence against a role for AMPK-dependent phosphorylation of KLC1 at Ser517/Ser520 in glucose-stimulated insulin granule movement. <i>Biochemical Society Transactions</i> , 2010 , 38, 205-8	5.1	7
144	LKB1 deletion with the RIP2.Cre transgene modifies pancreatic beta-cell morphology and enhances insulin secretion in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E126	51-73	61
143	Identification of genes selectively disallowed in the pancreatic islet. <i>Islets</i> , 2010 , 2, 89-95	2	112
142	Dynamic changes in cytosolic and mitochondrial ATP levels in pancreatic acinar cells. <i>Gastroenterology</i> , 2010 , 138, 1976-87	13.3	101
141	Pancreatic and duodenal homeobox 1 (PDX1) phosphorylation at serine-269 is HIPK2-dependent and affects PDX1 subnuclear localization. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 399, 155-61	3.4	21
140	ChREBP regulates Pdx-1 and other glucose-sensitive genes in pancreatic ⊪cells. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 402, 252-7	3.4	19

(2008-2010)

139	Isolation and culture of mouse pancreatic islets for ex vivo imaging studies with trappable or recombinant fluorescent probes. <i>Methods in Molecular Biology</i> , 2010 , 633, 171-84	1.4	40
138	Ablation of AMP-activated protein kinase alpha1 and alpha2 from mouse pancreatic beta cells and RIP2.Cre neurons suppresses insulin release in vivo. <i>Diabetologia</i> , 2010 , 53, 924-36	10.3	86
137	Insulin storage and glucose homeostasis in mice null for the granule zinc transporter ZnT8 and studies of the type 2 diabetes-associated variants. <i>Diabetes</i> , 2009 , 58, 2070-83	0.9	302
136	Control of insulin granule dynamics by AMPK dependent KLC1 phosphorylation. <i>Islets</i> , 2009 , 1, 198-209	2	14
135	Regulating glucagon secretion: somatostatin in the spotlight. <i>Diabetes</i> , 2009 , 58, 299-301	0.9	28
134	Mitochondrial calcium as a key regulator of mitochondrial ATP production in mammalian cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 1324-33	4.6	243
133	A role for the CREB co-activator CRTC2 in the hypothalamic mechanisms linking glucose sensing with gene regulation. <i>EMBO Reports</i> , 2009 , 10, 1175-81	6.5	32
132	Genetically encoded FRET sensors to monitor intracellular Zn2+ homeostasis. <i>Nature Methods</i> , 2009 , 6, 737-40	21.6	344
131	TCF7L2 regulates late events in insulin secretion from pancreatic islet beta-cells. <i>Diabetes</i> , 2009 , 58, 894-905	0.9	157
130	The AMP-regulated kinase family: enigmatic targets for diabetes therapy. <i>Molecular and Cellular Endocrinology</i> , 2009 , 297, 41-9	4.4	64
129	Imaging a target of Ca2+ signalling: dense core granule exocytosis viewed by total internal reflection fluorescence microscopy. <i>Methods</i> , 2008 , 46, 233-8	4.6	18
128	A rare mutation in ABCC8/SUR1 leading to altered ATP-sensitive K+ channel activity and beta-cell glucose sensing is associated with type 2 diabetes in adults. <i>Diabetes</i> , 2008 , 57, 1595-604	0.9	52
127	SREBP1 is required for the induction by glucose of pancreatic beta-cell genes involved in glucose sensing. <i>Journal of Lipid Research</i> , 2008 , 49, 814-22	6.3	22
126	Initiation and execution of lipotoxic ER stress in pancreatic beta-cells. <i>Journal of Cell Science</i> , 2008 , 121, 2308-18	5.3	449
125	Inhibition of AMP-activated protein kinase protects pancreatic beta-cells from cytokine-mediated apoptosis and CD8+ T-cell-induced cytotoxicity. <i>Diabetes</i> , 2008 , 57, 415-23	0.9	63
124	Ca2+ signalling: a new route to NAADP. <i>Biochemical Journal</i> , 2008 , 411, e1-3	3.8	5
123	TCF7L2 controls insulin gene expression and insulin secretion in mature pancreatic beta-cells. <i>Biochemical Society Transactions</i> , 2008 , 36, 357-9	5.1	55
122	The beta-cell in type 2 diabetes and in obesity. Frontiers of Hormone Research, 2008, 36, 118-134	3.5	34

121	ATP depletion inhibits Ca2+ release, influx and extrusion in pancreatic acinar cells but not pathological Ca2+ responses induced by bile. <i>Pflugers Archiv European Journal of Physiology</i> , 2008 , 455, 1025-39	4.6	35
120	Sodium-potassium ATPase 1 subunit is a molecular partner of Wolframin, an endoplasmic reticulum protein involved in ER stress. <i>Human Molecular Genetics</i> , 2008 , 17, 190-200	5.6	63
119	Glucose sensing by hypothalamic neurones and pancreatic islet cells: AMPle evidence for common mechanisms?. <i>Experimental Physiology</i> , 2007 , 92, 311-9	2.4	37
118	Inhibition by glucose or leptin of hypothalamic neurons expressing neuropeptide Y requires changes in AMP-activated protein kinase activity. <i>Diabetologia</i> , 2007 , 50, 168-77	10.3	88
117	Glucose is necessary for embryonic pancreatic endocrine cell differentiation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15228-37	5.4	55
116	MicroRNA-124a regulates Foxa2 expression and intracellular signaling in pancreatic beta-cell lines. Journal of Biological Chemistry, 2007 , 282, 19575-88	5.4	271
115	Luciferase expression for ATP imaging: application to cardiac myocytes. <i>Methods in Cell Biology</i> , 2007 , 80, 341-52	1.8	27
114	The relationship between p38 mitogen-activated protein kinase and AMP-activated protein kinase during myocardial ischemia. <i>Cardiovascular Research</i> , 2007 , 76, 465-72	9.9	18
113	Glucose-dependent regulation of gamma-aminobutyric acid (GABA A) receptor expression in mouse pancreatic islet alpha-cells. <i>Diabetes</i> , 2007 , 56, 320-7	0.9	58
112	Generating new candidate genes for neonatal diabetes: functional and genetic studies of insulin secretion in type 2 diabetes. <i>Endocrine Development</i> , 2007 , 12, 75-85		1
111	Physical exercise-induced hypoglycemia caused by failed silencing of monocarboxylate transporter 1 in pancreatic beta cells. <i>American Journal of Human Genetics</i> , 2007 , 81, 467-74	11	176
110	Mitochondrial Calcium: Role in the Normal and Ischaemic/Reperfused Myocardium 2007 , 197-220		1
109	Ca2+ microdomains and the control of insulin secretion. <i>Cell Calcium</i> , 2006 , 40, 539-51	4	92
108	Limited role for SREBP-1c in defective glucose-induced insulin secretion from Zucker diabetic fatty rat islets: a functional and gene profiling analysis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E982-94	6	46
107	ChREBP binding to fatty acid synthase and L-type pyruvate kinase genes is stimulated by glucose in pancreatic beta-cells. <i>Journal of Lipid Research</i> , 2006 , 47, 2482-91	6.3	68
106	Sustained exposure to high glucose concentrations modifies glucose signaling and the mechanics of secretory vesicle fusion in primary rat pancreatic beta-cells. <i>Diabetes</i> , 2006 , 55, 1057-65	0.9	57
105	Stimulation of AMP-activated protein kinase is essential for the induction of drug metabolizing enzymes by phenobarbital in human and mouse liver. <i>Molecular Pharmacology</i> , 2006 , 70, 1925-34	4.3	77
104	ATP regulation in adult rat cardiomyocytes: time-resolved decoding of rapid mitochondrial calcium spiking imaged with targeted photoproteins. <i>Journal of Biological Chemistry</i> , 2006 , 281, 28058-67	5.4	77

103	Insulin secretion is controlled by mGlu5 metabotropic glutamate receptors. <i>Molecular Pharmacology</i> , 2006 , 69, 1234-41	4.3	49
102	FoxO1 is required for the regulation of preproglucagon gene expression by insulin in pancreatic alphaTC1-9 cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 39358-69	5.4	26
101	Expanding role of AMPK in endocrinology. <i>Trends in Endocrinology and Metabolism</i> , 2006 , 17, 205-15	8.8	159
100	Insulin vesicle release: walk, kiss, pause then run. <i>Physiology</i> , 2006 , 21, 189-96	9.8	33
99	Glucose or insulin, but not zinc ions, inhibit glucagon secretion from mouse pancreatic alpha-cells. <i>Diabetes</i> , 2005 , 54, 1789-97	0.9	219
98	Mammalian exocyst complex is required for the docking step of insulin vesicle exocytosis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25565-70	5.4	56
97	Myosin Va transports dense core secretory vesicles in pancreatic MIN6 beta-cells. <i>Molecular Biology of the Cell</i> , 2005 , 16, 2670-80	3.5	136
96	Metformin prevents glucose-induced protein kinase C-beta2 activation in human umbilical vein endothelial cells through an antioxidant mechanism. <i>Diabetes</i> , 2005 , 54, 1123-31	0.9	87
95	Ca2+-induced Ca2+ release in pancreatic islet beta-cells: critical evaluation of the use of endoplasmic reticulum-targeted "cameleons". <i>Endocrinology</i> , 2004 , 145, 4540-9	4.8	40
94	Mechanisms of dense core vesicle recapture following "kiss and run" ("cavicapture") exocytosis in insulin-secreting cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 47115-24	5.4	159
93	Role for plasma membrane-related Ca2+-ATPase-1 (ATP2C1) in pancreatic beta-cell Ca2+ homeostasis revealed by RNA silencing. <i>Diabetes</i> , 2004 , 53, 393-400	0.9	70
92	Inhibition of mitochondrial Na+-Ca2+ exchange restores agonist-induced ATP production and Ca2+ handling in human complex I deficiency. <i>Journal of Biological Chemistry</i> , 2004 , 279, 40328-36	5.4	89
91	Impact of PPARgamma overexpression and activation on pancreatic islet gene expression profile analyzed with oligonucleotide microarrays. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E390-404	6	26
90	Involvement of Per-Arnt-Sim (PAS) kinase in the stimulation of preproinsulin and pancreatic duodenum homeobox 1 gene expression by glucose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8319-24	11.5	63
89	ATP-dependent interaction of the cytosolic domains of the inwardly rectifying K+ channel Kir6.2 revealed by fluorescence resonance energy transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 76-81	11.5	49
88	AMP-activated protein kinase: a new beta-cell glucose sensor?: Regulation by amino acids and calcium ions. <i>Diabetes</i> , 2004 , 53 Suppl 3, S67-74	0.9	67
87	Cytoplasmic dynein regulates the subcellular distribution of mitochondria by controlling the recruitment of the fission factor dynamin-related protein-1. <i>Journal of Cell Science</i> , 2004 , 117, 4389-400	5.3	190
86	Temperature-sensitive random insulin granule diffusion is a prerequisite for recruiting granules for release. <i>Traffic</i> , 2004 , 5, 750-62	5.7	32

85	Identification of a Ras GTPase-activating protein regulated by receptor-mediated Ca2+ oscillations. <i>EMBO Journal</i> , 2004 , 23, 1749-60	13	73
84	Mitochondrial localization as a determinant of capacitative Ca2+ entry in HeLa cells. <i>Cell Calcium</i> , 2004 , 36, 499-508	4	57
83	Imaging glucose-regulated insulin secretion and gene expression in single islet beta-cells: control by AMP-activated protein kinase. <i>Cell Biochemistry and Biophysics</i> , 2004 , 40, 179-90	3.2	3
82	Imaging glucose-regulated insulin secretion and gene expression in single islet #cells. <i>Cell Biochemistry and Biophysics</i> , 2004 , 2004, 179-190	3.2	
81	Impact of adenoviral transduction with SREBP1c or AMPK on pancreatic islet gene expression profile: analysis with oligonucleotide microarrays. <i>Diabetes</i> , 2004 , 53 Suppl 3, S84-91	0.9	27
80	Over-expression of sterol-regulatory-element-binding protein-1c (SREBP1c) in rat pancreatic islets induces lipogenesis and decreases glucose-stimulated insulin release: modulation by 5-aminoimidazole-4-carboxamide ribonucleoside (AICAR). <i>Biochemical Journal</i> , 2004 , 378, 769-78	3.8	88
79	Kiss and run exocytosis of dense core secretory vesicles. <i>NeuroReport</i> , 2004 , 15, 79-81	1.7	34
78	Distinct roles for insulin and insulin-like growth factor-1 receptors in pancreatic beta-cell glucose sensing revealed by RNA silencing. <i>Biochemical Journal</i> , 2004 , 377, 149-58	3.8	73
77	Importin beta1 mediates the glucose-stimulated nuclear import of pancreatic and duodenal homeobox-1 in pancreatic islet beta-cells (MIN6). <i>Biochemical Journal</i> , 2004 , 378, 219-27	3.8	20
76	Metformin, but not leptin, regulates AMP-activated protein kinase in pancreatic islets: impact on glucose-stimulated insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 286, E1023-31	6	127
75	Impaired glucose homeostasis in transgenic mice expressing the human transient neonatal diabetes mellitus locus, TNDM. <i>Journal of Clinical Investigation</i> , 2004 , 114, 339-48	15.9	56
74	Impaired glucose homeostasis in transgenic mice expressing the human transient neonatal diabetes mellitus locus, TNDM. <i>Journal of Clinical Investigation</i> , 2004 , 114, 339-348	15.9	108
73	5PAMP-activated protein kinase controls insulin-containing secretory vesicle dynamics. <i>Journal of Biological Chemistry</i> , 2003 , 278, 52042-51	5.4	82
72	Glucagon-like peptide-1 mobilizes intracellular Ca2+ and stimulates mitochondrial ATP synthesis in pancreatic MIN6 beta-cells. <i>Biochemical Journal</i> , 2003 , 369, 287-99	3.8	165
71	Roles of 5PAMP-activated protein kinase (AMPK) in mammalian glucose homoeostasis. <i>Biochemical Journal</i> , 2003 , 375, 1-16	3.8	288
70	Calcium signalling: NAADP comes out of the shadows. <i>Biochemical Journal</i> , 2003 , 373, e3-4	3.8	19
69	Glucose metabolism and glutamate analog acutely alkalinize pH of insulin secretory vesicles of pancreatic beta-cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E262-7	1 ⁶	37
68	Multiple forms of "kiss-and-run" exocytosis revealed by evanescent wave microscopy. <i>Current Biology</i> , 2003 , 13, 563-7	6.3	176

(2001-2003)

67	Insulin secretion: fatty acid signalling via serpentine receptors. Current Biology, 2003, 13, R403-5	6.3	10
66	Kinesin I and cytoplasmic dynein orchestrate glucose-stimulated insulin-containing vesicle movements in clonal MIN6 beta-cells. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 311, 272-82	3.4	67
65	Role for AMP-activated protein kinase in glucose-stimulated insulin secretion and preproinsulin gene expression. <i>Biochemical Journal</i> , 2003 , 371, 761-74	3.8	235
64	Ryanodine receptor type I and nicotinic acid adenine dinucleotide phosphate receptors mediate Ca2+ release from insulin-containing vesicles in living pancreatic beta-cells (MIN6). <i>Journal of Biological Chemistry</i> , 2003 , 278, 11057-64	5.4	144
63	Dynamics of glucose-induced membrane recruitment of protein kinase C beta II in living pancreatic islet beta-cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 37702-10	5.4	79
62	Dynamic imaging of free cytosolic ATP concentration during fuel sensing by rat hypothalamic neurones: evidence for ATP-independent control of ATP-sensitive K(+) channels. <i>Journal of Physiology</i> , 2002 , 544, 429-45	3.9	151
61	Stimulation of acetyl-CoA carboxylase gene expression by glucose requires insulin release and sterol regulatory element binding protein 1c in pancreatic MIN6 beta-cells. <i>Diabetes</i> , 2002 , 51, 2536-45	0.9	57
60	Dynamic imaging of endoplasmic reticulum Ca2+ concentration in insulin-secreting MIN6 Cells using recombinant targeted cameleons: roles of sarco(endo)plasmic reticulum Ca2+-ATPase (SERCA)-2 and ryanodine receptors. <i>Diabetes</i> , 2002 , 51 Suppl 1, S190-201	0.9	76
59	Glucose-stimulated oscillations in free cytosolic ATP concentration imaged in single islet beta-cells: evidence for a Ca2+-dependent mechanism. <i>Diabetes</i> , 2002 , 51 Suppl 1, S162-70	0.9	115
58	Involvement of conventional kinesin in glucose-stimulated secretory granule movements and exocytosis in clonal pancreatic beta-cells. <i>Journal of Cell Science</i> , 2002 , 115, 4177-89	5.3	128
57	AMP- and stress-activated protein kinases: key regulators of glucose-dependent gene transcription in mammalian cells?. <i>Progress in Molecular Biology and Translational Science</i> , 2002 , 71, 69-90		13
56	Green fluorescent protein calcium biosensors. Calcium imaging with GFP cameleons. <i>Methods in Molecular Biology</i> , 2002 , 183, 255-64	1.4	5
55	Insulin-stimulated fatty acid synthase gene expression does not require increased sterol response element binding protein 1 transcription in primary adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 439-43	3.4	34
54	Glucose-stimulated insulin secretion does not require activation of pyruvate dehydrogenase: impact of adenovirus-mediated overexpression of PDH kinase and PDH phosphate phosphatase in pancreatic islets. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 1081-8	3.4	19
53	Mitochondrial priming modifies Ca2+ oscillations and insulin secretion in pancreatic islets. <i>Biochemical Journal</i> , 2001 , 353, 175-80	3.8	57
52	Mitochondrial priming modifies Ca2+ oscillations and insulin secretion in pancreatic islets. <i>Biochemical Journal</i> , 2001 , 353, 175-180	3.8	79
51	Dense core secretory vesicles revealed as a dynamic Ca(2+) store in neuroendocrine cells with a vesicle-associated membrane protein aequorin chimaera. <i>Journal of Cell Biology</i> , 2001 , 155, 41-51	7.3	174
50	Nutrient-secretion coupling in the pancreatic islet beta-cell: recent advances. <i>Molecular Aspects of Medicine</i> , 2001 , 22, 247-84	16.7	153

49	Targeting of reporter molecules to mitochondria to measure calcium, ATP, and pH. <i>Methods in Cell Biology</i> , 2001 , 65, 353-80	1.8	25
48	Diabetes: the importance of the liver. <i>Current Biology</i> , 2000 , 10, R736-8	6.3	26
47	Simultaneous evanescent wave imaging of insulin vesicle membrane and cargo during a single exocytotic event. <i>Current Biology</i> , 2000 , 10, 1307-10	6.3	126
46	Regulation of mitochondrial metabolism by ER Ca2+ release: an intimate connection. <i>Trends in Biochemical Sciences</i> , 2000 , 25, 215-21	10.3	175
45	Regulation of Mammalian Gene Expression by Glucose. <i>Physiology</i> , 2000 , 15, 149-154	9.8	10
44	Regulation of gene expression by glucose in pancreatic beta -cells (MIN6) via insulin secretion and activation of phosphatidylinositol 3Pkinase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 36269-77	5.4	67
43	Glucose-stimulated preproinsulin gene expression and nuclear trans-location of pancreatic duodenum homeobox-1 require activation of phosphatidylinositol 3-kinase but not p38 MAPK/SAPK2. <i>Journal of Biological Chemistry</i> , 2000 , 275, 15977-84	5.4	92
42	Glucose generates sub-plasma membrane ATP microdomains in single islet beta-cells. Potential role for strategically located mitochondria. <i>Journal of Biological Chemistry</i> , 1999 , 274, 13281-91	5.4	253
41	Insulin secretion: feed-forward control of insulin biosynthesis?. Current Biology, 1999, 9, R443-5	6.3	43
40	Imaging Ca2+ concentration changes at the secretory vesicle surface with a recombinant targeted cameleon. <i>Current Biology</i> , 1999 , 9, 915-8	6.3	85
39	Glucose enhances insulin promoter activity in MIN6 Bcells independently of changes in intracellular Ca2+ concentration and insulin secretion. <i>Biochemical Journal</i> , 1999 , 342, 275	3.8	5
38	Glucose enhances insulin promoter activity in MIN6 #cells independently of changes in intracellular Ca2+ concentration and insulin secretion. <i>Biochemical Journal</i> , 1999 , 342, 275-280	3.8	18
37	Luminescence Imaging of Gene Expression in Single Living Cells 1999 , 273-283		
36	Analysis of Regulated Gene Expression by Microinjection and Digital Luminescence Imaging of Single Living Cells 1999 , 299-326		
35	Real-time imaging of gene expression in single living cells. Chemistry and Biology, 1998, 5, R285-90		44
34	Coupling between cytosolic and mitochondrial calcium oscillations: role in the regulation of hepatic metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998 , 1366, 17-32	4.6	95
33	Overexpression of lactate dehydrogenase A attenuates glucose-induced insulin secretion in stable MIN-6 beta-cell lines. <i>FEBS Letters</i> , 1998 , 430, 213-6	3.8	47
32	Calcium and organelles: a two-sided story. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 253, 549-57	3.4	22

31	Glucose-dependent translocation of insulin promoter factor-1 (IPF-1) between the nuclear periphery and the nucleoplasm of single MIN6 beta-cells. <i>Journal of Biological Chemistry</i> , 1998 , 273, 232	.4 ⁵ 1 ⁴ 7	76
30	Insulin targeting to the regulated secretory pathway after fusion with green fluorescent protein and firefly luciferase. <i>Biochemical Journal</i> , 1998 , 331 (Pt 2), 669-75	3.8	79
29	Secretory-granule dynamics visualized in vivo with a phogrin-green fluorescent protein chimaera. <i>Biochemical Journal</i> , 1998 , 333 (Pt 1), 193-9	3.8	129
28	Mitochondrial Ca2+ Signalling 1998 , 163-175		
27	Upstream stimulatory factor-2 (USF2) activity is required for glucose stimulation of L-pyruvate kinase promoter activity in single living islet beta-cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 20636	5-54 0	62
26	Current Applications in Bioluminescence 121 September 1995, University of Wales College of Medicine, Cardiff, UK. <i>Luminescence</i> , 1996 , 11, 49-54		
25	Involvement of MAP kinase in insulin signalling revealed by non-invasive imaging of luciferase gene expression in single living cells. <i>Current Biology</i> , 1995 , 5, 890-9	6.3	66
24	Mitochondrial Ca2+ transport and the role of matrix Ca2+ in mammalian tissues. <i>Biochemical Society Transactions</i> , 1992 , 20, 153-9	5.1	16
23	Regulation of mitochondrial glycerol-phosphate dehydrogenase by Ca2+ within electropermeabilized insulin-secreting cells (INS-1). <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992 , 1175, 107-13	4.9	65
22	Measurement of matrix Mg2+ concentration of rat heart mitochondria using fluorescent probes. <i>Biochemical Society Transactions</i> , 1990 , 18, 894-5	5.1	1
21	Ca2(+)-binding to citrate cycle dehydrogenases. <i>International Journal of Biochemistry & Cell Biology</i> , 1990 , 22, 1081-8		42
20	Regulation of the pyruvate dehydrogenase complex by Ca2+ within toluene-permeabilized heart mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1989 , 1014, 263-70	4.9	21
19	The role of Ca2+ in the hormonal regulation of the activities of pyruvate dehydrogenase and oxoglutarate dehydrogenase complexes. <i>Annals of the New York Academy of Sciences</i> , 1989 , 573, 206-17	7 ^{6.5}	16
18	Studies into the mechanism whereby insulin activates pyruvate dehydrogenase complex in adipose tissue. <i>Annals of the New York Academy of Sciences</i> , 1989 , 573, 285-96	6.5	39
17	Effects of Ca2+ on the Activities of the Calcium-Sensitive Dehydrogenases Within the Mitochondria of Mammalian Tissues. <i>Journal of Cardiovascular Pharmacology</i> , 1988 , 12, 69-72	3.1	12
16	Rapid purification and properties of pig heart NAD+ -isocitrate dehydrogenase. <i>Biochemical Society Transactions</i> , 1988 , 16, 873-874	5.1	1
15	Regulation of 2-oxoglutarate dehydrogenase and NAD-linked isocitrate dehydrogenase within toluene-permeabilized mitochondria. <i>Biochemical Society Transactions</i> , 1987 , 15, 834-835	5.1	
14	The control of pyruvate dehydrogenase phosphate phosphatase by Ca2+ and Mg2+ ions. Biochemical Society Transactions, 1987, 15, 835-836	5.1	2

13	Mature and immature ⊕cells both contribute to islet function and insulin release	2
12	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a new regulator of insulin secretion	2
11	Mitofusins Mfn1 and Mfn2 are required to preserve glucose-but not incretin- stimulated beta cell connectivity and insulin secretion	3
10	Sorcin stimulates Activation Transcription Factor 6[[ATF6] transcriptional activity	1
9	Intravital imaging of islet Ca2+ dynamics reveals enhanced ∄cell connectivity after bariatric surgery in mice	2
8	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis	2
7	Reduced expression of TCF7L2 in adipocyte impairs glucose tolerance associated with decreased insulin secretion, incretins levels and lipid metabolism dysregulation in male mice	1
6	The long non-coding RNA Pax6os1/PAX6-AS1 modulates pancreatic ⊕cell identity and function	5
5	Replication and cross-validation of T2D subtypes based on clinical variables: an IMI-RHAPSODY study	1
4	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion	3
3	Vertical sleeve gastrectomy lowers kidney SGLT2 expression in the mouse	2
2	Differences in signalling, trafficking and glucoregulatory properties of glucagon-like peptide-1 receptor agonists exendin-4 and lixisenatide	2
1	Glucose-dependent miR-125b is a negative regulator of ⊕cell function	1