Guy A Rutter

List of Publications by Year
in descending order

336 papers	21,013 citations	8208 78 h-index	18944 123 g-index
369 all docs	369 docs citations	369 times ranked	24615 citing authors

#	Article	IF	Citations
1	Mechanisms of Weight Loss After Obesity Surgery. Endocrine Reviews, 2022, 43, 19-34.	8.9	43
2	Lack of ZnT8 protects pancreatic islets from hypoxia- and cytokine induced cell death. Journal of Endocrinology, 2022, , .	1.2	6
3	Destabilization of Î² Cell FIT2 by saturated fatty acids alter lipid droplet numbers and contribute to ER stress and diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113074119.	3.3	15
4	Opposing effects on regulated insulin secretion of acute vs chronic stimulation of AMP-activated protein kinase. Diabetologia, 2022, 65, 997-1011.	2.9	4
5	Autotaxin signaling facilitates Î² cell dedifferentiation and dysfunction induced by Sirtuin 3 deficiency. Molecular Metabolism, 2022, 60, 101493.	3.0	4
6	Mitofusins <i>Mfn1</i> and <i>Mfn2</i> Are Required to Preserve Glucose- but Not Incretin-Stimulated Î²-Cell Connectivity and Insulin Secretion. Diabetes, 2022, 71, 1472-1489.	0.3	14
7	Glucose-Dependent miR-125b Is a Negative Regulator of Î²-Cell Function. Diabetes, 2022, 71, 1525-1545.	0.3	10
8	Homocysteine Metabolism Pathway Is Involved in the Control of Glucose Homeostasis: A Cystathionine Beta Synthase Deficiency Study in Mouse. Cells, 2022, 11, 1737.	1.8	5
9	Vertical Sleeve Gastrectomy Lowers SGLT2/<i>Slc5a2</i> Expression in the Mouse Kidney. Diabetes, 2022, 71, 1623-1635.	0.3	2
10	In vivo and in vitro characterization of <scp>GL0034</scp>, a novel longâ€acting <scp>glucagonâ€like peptide</scp>â€1 receptor agonist. Diabetes, Obesity and Metabolism, 2022, 24, 2090-2101.	2.2	4
11	Adipocyte-specific deletion of Tcf7l2 induces dysregulated lipid metabolism and impairs glucose tolerance in mice. Diabetologia, 2021, 64, 129-141.	2.9	17
12	Genetic and biased agonist-mediated reductions in Î²-arrestin recruitment prolong cAMP signaling at glucagon family receptors. Journal of Biological Chemistry, 2021, 296, 100133.	1.6	41
13	Pancreatic Sirtuin 3 Deficiency Promotes Hepatic Steatosis by Enhancing 5-Hydroxytryptamine Synthesis in Mice With Diet-Induced Obesity. Diabetes, 2021, 70, 119-131.	0.3	10
14	Importance of Both Imprinted Genes and Functional Heterogeneity in Pancreatic Beta Cells: Is There a Link?. International Journal of Molecular Sciences, 2021, 22, 1000.	1.8	10
15	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis. Diabetologia, 2021, 64, 850-864.	2.9	7
16	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a regulator of insulin secretion. Cell Reports, 2021, 34, 108703.	2.9	4
17	Consequences for Pancreatic Î²-Cell Identity and Function of Unregulated Transcript Processing. Frontiers in Endocrinology, 2021, 12, 625235.	1.5	7
18	The Ca 2+ â€binding protein sorcin stimulates transcriptional activity of the unfolded protein response mediator ATF6. FEBS Letters, 2021, 595, 1782-1796.	1.3	4

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19	Dysregulation of the Pdx1/Ovol2/Zeb2 axis in dedifferentiated Î²-cells triggers the induction of genes associated with epitheliaâ€"mesenchymal transition in diabetes. Molecular Metabolism, 2021, 53, 101248.	3.0	14
20	Replication and cross-validation of type 2 diabetes subtypes based on clinical variables: an IMI-RHAPSODY study. Diabetologia, 2021, 64, 1982-1989.	2.9	44
21	Paired box 6 programs essential exocytotic genes in the regulation of glucose-stimulated insulin secretion and glucose homeostasis. Science Translational Medicine, 2021, 13, .	5.8	13
22	38-OR: Deletion of the Mitofusins 1 and 2 (Mfn1 and Mfn2) from the Pancreatic Beta Cell Disrupts Mitochondrial Structure and Impairs Glucose-, but Not Incretin-, Stimulated Insulin Secretion. Diabetes, 2021, 70, 38-OR.	0.3	0
23	124-OR: Repetitive Ca2+ Waves Emanate from a Stable Leader Cell in Mouse Islets. Diabetes, 2021, 70, 124-OR.	0.3	0
24	87-LB: Binding Kinetics, Bias, Receptor Internalization, and Effects on Insulin Secretion for a Novel GLP1R-GIPR Dual Agonist, HISHS-2001. Diabetes, 2021, 70, .	0.3	2
25	228-LB: ÃŸ-arrestin-2 Deletion Influences GLP-1 Receptor Signaling in Pancreatic ÃŸ Cells In Vivo. Diabetes, 2021, 70, .	0.3	0
26	Evaluation of efficacy- versus affinity-driven agonism with biased GLP-1R ligands P5 and exendin-F1. Biochemical Pharmacology, 2021, 190, 114656.	2.0	8
27	Distinct Molecular Signatures of Clinical Clusters in People With Type 2 Diabetes: An IMI-RHAPSODY Study. Diabetes, 2021, 70, 2683-2693.	0.3	26
28	Intravital imaging of islet Ca2+ dynamics reveals enhanced Î² cell connectivity after bariatric surgery in mice. Nature Communications, 2021, 12, 5165.	5.8	17
29	Macrophage monocarboxylate transporter 1 promotes peripheral nerve regeneration after injury in mice. Journal of Clinical Investigation, 2021, 131, .	3.9	29
30	PDX1LOW MAFALOW Î²-cells contribute to islet function and insulin release. Nature Communications, 2021, 12, 674.	5.8	51
31	Metabolic and Functional Heterogeneity in Pancreatic Î² Cells. Journal of Molecular Biology, 2020, 432, 1395-1406.	2.0	24
32	Effects on pancreatic Beta and other Islet cells of the glucose-dependent insulinotropic polypeptide. Peptides, 2020, 125, 170201.	1.2	15
33	Control by Ca2+ of mitochondrial structure and function in pancreatic Î²-cells. Cell Calcium, 2020, 91, 102282.	1.1	14
34	Ligand-Specific Factors Influencing GLP-1 Receptor Post-Endocytic Trafficking and Degradation in Pancreatic Beta Cells. International Journal of Molecular Sciences, 2020, 21, 8404.	1.8	28
35	Persistent or Transient Human Î² Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. Cell Reports, 2020, 33, 108466.	2.9	65
36	The roles of cytosolic and intramitochondrial Ca2+ and the mitochondrial Ca2+-uniporter (MCU) in the stimulation of mammalian oxidative phosphorylation. Journal of Biological Chemistry, 2020, 295, 10506.	1.6	3

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37	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. EBioMedicine, 2020, 58, 102895.	2.7	8
38	Comment on Satin et al. â€œTake Me To Your Leaderâ€: An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. Diabetes 2020;69:830â€“836. Diabetes, 2020, 69, e10-e11.	0.3	21
39	Loss of Î²-cell identity and diabetic phenotype in mice caused by disruption of CNOT3-dependent mRNA deadenylation. Communications Biology, 2020, 3, 476.	2.0	13
40	Metabolic and functional specialisations of the pancreatic beta cell: gene disallowance, mitochondrial metabolism and intercellular connectivity. Diabetologia, 2020, 63, 1990-1998.	2.9	63
41	Covid-19 and Diabetes: A Complex Bidirectional Relationship. Frontiers in Endocrinology, 2020, 11, 582936.	1.5	67
42	Functional Genomics in Pancreatic Î² Cells: Recent Advances in Gene Deletion and Genome Editing Technologies for Diabetes Research. Frontiers in Endocrinology, 2020, 11, 576632.	1.5	13
43	The type 2 diabetes gene product STARD10 is a phosphoinositide-binding protein that controls insulin secretory granule biogenesis. Molecular Metabolism, 2020, 40, 101015.	3.0	22
44	Synthesis and <i>in vivo</i> behaviour of an exendin-4-based MRI probe capable of Î²-cell-dependent contrast enhancement in the pancreas. Dalton Transactions, 2020, 49, 4732-4740.	1.6	5
45	Dietary substitution of SFA with MUFA within high-fat diets attenuates hyperinsulinaemia and pancreatic islet dysfunction. British Journal of Nutrition, 2020, 124, 247-255.	1.2	13
46	A polysaccharide extract from the medicinal plant Maidong inhibits the IKKâ€“NF-ÎºB pathway and IL-1Î²â€“induced islet inflammation and increases insulin secretion. Journal of Biological Chemistry, 2020, 295, 12573-12587.	1.6	13
47	Age matters: Grading granule secretion in beta cells. Journal of Biological Chemistry, 2020, 295, 8912-8913.	1.6	2
48	Glucocorticoid Metabolism in Obesity and Following Weight Loss. Frontiers in Endocrinology, 2020, 11, 59.	1.5	56
49	The pore-forming subunit MCU of the mitochondrial Ca2+ uniporter is required for normal glucose-stimulated insulin secretion in vitro and in vivo in mice. Diabetologia, 2020, 63, 1368-1381.	2.9	37
50	Disconnect between signalling potency and inÂvivo efficacy of pharmacokinetically optimised biased glucagon-like peptide-1 receptor agonists. Molecular Metabolism, 2020, 37, 100991.	3.0	32
51	The Influence of Peptide Context on Signaling and Trafficking of Glucagon-like Peptide-1 Receptor Biased Agonists. ACS Pharmacology and Translational Science, 2020, 3, 345-360.	2.5	32
52	Long Non-Coding RNAs as Key Modulators of Pancreatic Î²-Cell Mass and Function. Frontiers in Endocrinology, 2020, 11, 610213.	1.5	15
53	Signalling, trafficking and glucoregulatory properties of glucagonâ€like peptideâ€1 receptor agonists exendinâ€4 and lixisenatide. British Journal of Pharmacology, 2020, 177, 3905-3923.	2.7	36
54	Glucose in the hypothalamic paraventricular nucleus regulates GLP-1 release. JCI Insight, 2020, 5, .	2.3	5

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55	1683-P: Upregulation of Pancreatic Islet EGF Receptor Improves Beta-Cell Identity and In Vivo Vascularisation in a Directly Observed Transplant Model. Diabetes, 2020, 69, 1683-P.	0.3	0
56	1912-P: Bariatric Surgery Downregulates Glucocorticoid Signaling in Mice. Diabetes, 2020, 69, .	0.3	0
57	2100-P: Binding Kinetics, GLP-1 Receptor Internalization, and Effects on Insulin Secretion for GL0034 and Related GLP-1R Agonists. Diabetes, 2020, 69, .	0.3	0
58	320-OR: Bariatric Surgery Improves Ca2+ Dynamics across Pancreatic Islets In Vivo. Diabetes, 2020, 69, 320-OR.	0.3	0
59	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. Diabetes, 2020, 69, 2072-P.	0.3	0
60	1798-P: Chronic Administration of a Long-Acting Glucagon Analogue Results in Enhanced Insulin Secretory Activity in a Directly-Observed Murine Model. Diabetes, 2020, 69, 1798-P.	0.3	0
61	Convolutional neural networks for reconstruction of undersampled optical projection tomography data applied to in vivo imaging of zebrafish. Journal of Biophotonics, 2019, 12, e201900128.	1.1	13
62	Fostering improved human islet research: a European perspective. Diabetologia, 2019, 62, 1514-1516.	2.9	13
63	Pancreatic islet secretion: gabbling via GABA. Nature Metabolism, 2019, 1, 1032-1033.	5.1	0
64	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. Nature Genetics, 2019, 51, 1596-1606.	9.4	96
65	Agonist-induced membrane nanodomain clustering drives GLP-1 receptor responses in pancreatic beta cells. PLoS Biology, 2019, 17, e3000097.	2.6	61
66	An essential role for the Zn2+ transporter ZIP7 in B cell development. Nature Immunology, 2019, 20, 350-361.	7.0	92
67	Leader Î²-cells coordinate Ca2+ dynamics across pancreatic islets in vivo. Nature Metabolism, 2019, 1, 615-629.	5.1	128
68	Contributions of Mitochondrial Dysfunction to Î² Cell Failure in Diabetes Mellitus. , 2019, , 217-243.		2
69	Zn2+-transporters ZIP7 and ZnT7 play important role in progression of cardiac dysfunction via affecting sarco(endo)plasmic reticulum-mitochondria coupling in hyperglycemic cardiomyocytes. Mitochondrion, 2019, 44, 41-52.	1.6	40
70	Abstract 5294: The PanNET-related histone H3.3 chaperone Daxx regulates lineage specification and tissue homeostasis in the pancreas. , 2019, , .		1
71	mTORC1-to-AMPK switching underlies Î² cell metabolic plasticity during maturation and diabetes. Journal of Clinical Investigation, 2019, 129, 4124-4137.	3.9	80
72	2183-P: miR-125b Is Regulated by Glucose via AMPK and Impairs ÃŸ-Cell Function. Diabetes, 2019, 68, .	0.3	4

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73	161-LB: Inhibition of Kidney SGLT2 Expression following Bariatric Surgery in Mice. Diabetes, 2019, 68, 161-LB.	0.3	0
74	Targeting GLP-1 receptor trafficking to improve agonist efficacy. Nature Communications, 2018, 9, 1602.	5.8	162
75	Sensors for measuring subcellular zinc pools. Metallomics, 2018, 10, 229-239.	1.0	34
76	Control of insulin secretion by GLP-1. Peptides, 2018, 100, 75-84.	1.2	69
77	MiRâ€184 expression is regulated by AMPK in pancreatic islets. FASEB Journal, 2018, 32, 2587-2600.	0.2	39
78	A Targeted RNAi Screen Identifies Endocytic Trafficking Factors That Control GLP-1 Receptor Signaling in Pancreatic Î²-Cells. Diabetes, 2018, 67, 385-399.	0.3	41
79	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca2+ Mobilization From Acidic Stores in Pancreatic Î±-Cells. Diabetes, 2018, 67, 1128-1139.	0.3	61
80	Systems biology of the IMIDIA biobank from organ donors and pancreatectomised patients defines a novel transcriptomic signature of islets from individuals with type 2 diabetes. Diabetologia, 2018, 61, 641-657.	2.9	131
81	Glucocorticoids Reprogram Î²-Cell Signaling to Preserve Insulin Secretion. Diabetes, 2018, 67, 278-290.	0.3	52
82	The Impact of Pancreatic Beta Cell Heterogeneity on Type 1 Diabetes Pathogenesis. Current Diabetes Reports, 2018, 18, 112.	1.7	17
83	The Î±-cell in diabetes mellitus. Nature Reviews Endocrinology, 2018, 14, 694-704.	4.3	103
84	Age-related islet inflammation marks the proliferative decline of pancreatic beta-cells in zebrafish. ELife, 2018, 7, .	2.8	25
85	Transcription factor-7â€"like 2 (TCF7L2) gene acts downstream of the Lkb1/Stk11 kinase to control mTOR signaling, Î² cell growth, and insulin secretion. Journal of Biological Chemistry, 2018, 293, 14178-14189.	1.6	19
86	Mice harboring the human <i>SLC30A8</i> R138X loss-of-function mutation have increased insulin secretory capacity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7642-E7649.	3.3	45
87	Down-regulation of vascular GLP-1 receptor expression in human subjects with obesity. Scientific Reports, 2018, 8, 10644.	1.6	19
88	The effects of kisspeptin on Î²â€cell function, serum metabolites and appetite in humans. Diabetes, Obesity and Metabolism, 2018, 20, 2800-2810.	2.2	74
89	Hypothalamic arcuate nucleus glucokinase regulates insulin secretion and glucose homeostasis. Diabetes, Obesity and Metabolism, 2018, 20, 2246-2254.	2.2	11
90	Chronic d-serine supplementation impairs insulin secretion. Molecular Metabolism, 2018, 16, 191-202.	3.0	29

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91	Obesity, diabetes and zinc: A workshop promoting knowledge and collaboration between the UK and Israel, november 28â€"30, 2016 â€" Israel. Journal of Trace Elements in Medicine and Biology, 2018, 49, 79-85.	1.5	1
92	Manipulation and Measurement of AMPK Activity in Pancreatic Islets. Methods in Molecular Biology, 2018, 1732, 413-431.	0.4	4
93	Neuronatin regulates pancreatic Î² cell insulin content and secretion. Journal of Clinical Investigation, 2018, 128, 3369-3381.	3.9	47
94	Zinc Transport in the Pancreatic Î²-Cell: Roles of ZnT (SLC30A) and ZiP (SLC39A) Family Members. , 2018, , 6047-6053.		0
95	Real-Time In Vivo Imaging of Whole Islet Ca2+ Dynamics Reveals Glucose-Induced Changes in Beta-Cell Connectivity in Mouse and Human Islets. Diabetes, 2018, 67, 249-LB.	0.3	1
96	The Role of Oxidative Stress and Hypoxia in Pancreatic Beta-Cell Dysfunction in Diabetes Mellitus. Antioxidants and Redox Signaling, 2017, 26, 501-518.	2.5	433
97	Controlling the identity of the adult pancreatic Î² cell. Nature Reviews Endocrinology, 2017, 13, 129-130.	4.3	5
98	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. American Journal of Human Genetics, 2017, 100, 238-256.	2.6	60
99	Hyperglycemia-Induced Changes in ZIP7 and ZnT7 Expression Cause Zn2+ Release From the Sarco(endo)plasmic Reticulum and Mediate ER Stress in the Heart. Diabetes, 2017, 66, 1346-1358.	0.3	66
100	GABA signaling: A route to new pancreatic Î² cells. Cell Research, 2017, 27, 309-310.	5.7	11
101	The transcription factor Pax6 is required for pancreatic Î² cell identity, glucose-regulated ATP synthesis, and Ca2+ dynamics in adult mice. Journal of Biological Chemistry, 2017, 292, 8892-8906.	1.6	48
102	Local and regional control of calcium dynamics in the pancreatic islet. Diabetes, Obesity and Metabolism, 2017, 19, 30-41.	2.2	49
103	SLC30A9 mutation affecting intracellular zinc homeostasis causes a novel cerebro-renal syndrome. Brain, 2017, 140, 928-939.	3.7	72
104	Molecular phenotyping of multiple mouse strains under metabolic challenge uncovers a role for Elovl2 in glucose-induced insulin secretion. Molecular Metabolism, 2017, 6, 340-351.	3.0	42
105	Pancreatic alpha cell-selective deletion of Tcf7l2 impairs glucagon secretion and counter-regulatory responses to hypoglycaemia in mice. Diabetologia, 2017, 60, 1043-1050.	2.9	18
106	Remote control of glucose homeostasis in vivo using photopharmacology. Scientific Reports, 2017, 7, 291.	1.6	33
107	Analysis of Purified Pancreatic Islet Beta and Alpha Cell Transcriptomes Reveals 11Î²-Hydroxysteroid Dehydrogenase (Hsd11b1) as a Novel Disallowed Gene. Frontiers in Genetics, 2017, 08, 41.	1.1	60
108	Over-expression of Slc30a8/ZnT8 selectively in the mouse Î± cell impairs glucagon release and responses to hypoglycemia. Nutrition and Metabolism, 2016, 13, 46.	1.3	20

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109	Allosterische optische Steuerung eines Klasseâ€Bâ€Gâ€Proteinâ€gekoppelten Rezeptors. Angewandte Chemie, 2016, 128, 5961-5965.	1.6	10
110	Changes in the expression of the type 2 diabetes-associated gene <i>VPS13C</i> in the Î²-cell are associated with glucose intolerance in humans and mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E488-E507.	1.8	21
111	Intracellular zinc in insulin secretion and action: a determinant of diabetes risk?. Proceedings of the Nutrition Society, 2016, 75, 61-72.	0.4	61
112	The two pore channel TPC2 is dispensable in pancreatic Î²-cells for normal Ca2+ dynamics and insulin secretion. Cell Calcium, 2016, 59, 32-40.	1.1	26
113	Chronic Activation of Î³2 AMPK Induces Obesity and Reduces Î² Cell Function. Cell Metabolism, 2016, 23, 821-836.	7.2	87
114	Modeling Type 2 Diabetes GWAS Candidate Gene Function in hESCs. Cell Stem Cell, 2016, 19, 281-282.	5.2	5
115	Beta Cell Hubs Dictate Pancreatic Islet Responses toÂGlucose. Cell Metabolism, 2016, 24, 389-401.	7.2	370
116	Lipid-tuned Zinc Transport Activity of Human ZnT8 Protein Correlates with Risk for Type-2 Diabetes. Journal of Biological Chemistry, 2016, 291, 26950-26957.	1.6	64
117	Proglucagon-Derived Peptides Do Not Significantly Affect Acute Exocrine Pancreas in Rats. Pancreas, 2016, 45, 967-973.	0.5	1
118	Photoswitchable diacylglycerols enable optical control of protein kinase C. Nature Chemical Biology, 2016, 12, 755-762.	3.9	112
119	Molecular Genetic Regulation of Slc30a8/ZnT8 Reveals a Positive Association With Glucose Tolerance. Molecular Endocrinology, 2016, 30, 77-91.	3.7	59
120	Allosteric Optical Control of a Class B Gâ€Proteinâ€Coupled Receptor. Angewandte Chemie - International Edition, 2016, 55, 5865-5868.	7.2	45
121	Cell type-specific deletion in mice reveals roles for PAS kinase in insulin and glucagon production. Diabetologia, 2016, 59, 1938-1947.	2.9	10
122	Calcium-insensitive splice variants of mammalian E1 subunit of 2-oxoglutarate dehydrogenase complex with tissue-specific patterns of expression. Biochemical Journal, 2016, 473, 1165-1178.	1.7	26
123	Zinc and diabetes. Archives of Biochemistry and Biophysics, 2016, 611, 79-85.	1.4	131
124	Pancreatic Î²â€cell imaging in humans: fiction or option?. Diabetes, Obesity and Metabolism, 2016, 18, 6-15.	2.2	33
125	Disallowance of <i>Acot7</i> in Î²-Cells Is Required for Normal Glucose Tolerance and Insulin Secretion. Diabetes, 2016, 65, 1268-1282.	0.3	23
126	Sorcin Links Pancreatic Î²-Cell Lipotoxicity to ER Ca2+ Stores. Diabetes, 2016, 65, 1009-1021.	0.3	45

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127	Role of microRNAs in the age-associated decline of pancreatic beta cell function in rat islets. Diabetologia, 2016, 59, 161-169.	2.9	44
128	MiRNAs in Î²-Cell Development, Identity, and Disease. Frontiers in Genetics, 2016, 7, 226.	1.1	49
129	Proglucagon Promoter Cre-Mediated AMPK Deletion in Mice Increases Circulating GLP-1 Levels and Oral Glucose Tolerance. PLoS ONE, 2016, 11, e0149549.	1.1	13
130	Dualâ€Modal Magnetic Resonance/Fluorescent Zinc Probes for Pancreatic Î²â€Cell Mass Imaging. Chemistry - A European Journal, 2015, 21, 5023-5033.	1.7	57
131	Defects in mitophagy promote redoxâ€driven metabolic syndrome in the absence of <scp>TP</scp> 53 <scp>INP</scp> 1. EMBO Molecular Medicine, 2015, 7, 802-818.	3.3	38
132	LKB1 and AMPKÎ±1 are required in pancreatic alpha cells for the normal regulation of glucagon secretion and responses to hypoglycemia. Molecular Metabolism, 2015, 4, 277-286.	3.0	23
133	DICER Inactivation Identifies Pancreatic Î²-Cell â€œDisallowedâ€•Genes Targeted by MicroRNAs. Molecular Endocrinology, 2015, 29, 1067-1079.	3.7	63
134	Optical Control of Insulin Secretion Using an Incretin Switch. Angewandte Chemie - International Edition, 2015, 54, 15565-15569.	7.2	80
135	Loss of Liver Kinase B1 (LKB1) in Beta Cells Enhances Glucose-stimulated Insulin Secretion Despite Profound Mitochondrial Defects. Journal of Biological Chemistry, 2015, 290, 20934-20946.	1.6	36
136	The Zinc Transporter Slc30a8/ZnT8 Is Required in a Subpopulation of Pancreatic Î±-Cells for Hypoglycemia-induced Glucagon Secretion. Journal of Biological Chemistry, 2015, 290, 21432-21442.	1.6	40
137	Pancreas micromanages autophagy. Science, 2015, 347, 826-827.	6.0	2
138	Pancreatic Î²-cell identity, glucose sensing and the control of insulin secretion. Biochemical Journal, 2015, 466, 203-218.	1.7	299
139	eZinCh-2: A Versatile, Genetically Encoded FRET Sensor for Cytosolic and Intraorganelle Zn²⁺ Imaging. ACS Chemical Biology, 2015, 10, 2126-2134.	1.6	82
140	Metformin activates a duodenal Ampkâ€“dependent pathway to lower hepatic glucose production in rats. Nature Medicine, 2015, 21, 506-511.	15.2	313
141	Limited impact on glucose homeostasis of leptin receptor deletion from insulin- or proglucagon-expressing cells. Molecular Metabolism, 2015, 4, 619-630.	3.0	40
142	The zinc transporter ZIP12 regulates the pulmonary vascular response to chronic hypoxia. Nature, 2015, 524, 356-360.	13.7	113
143	Changes in microRNA expression during differentiation of embryonic and induced pluripotent stem cells to definitive endoderm. Gene Expression Patterns, 2015, 19, 70-82.	0.3	5
144	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic Î² Cells. Journal of Biological Chemistry, 2015, 290, 21376-21392.	1.6	48

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145	Beta cell connectivity in pancreatic islets: a type 2 diabetes target?. Cellular and Molecular Life Sciences, 2015, 72, 453-467.	2.4	64
146	Selective disruption of Tcf7l2 in the pancreatic Î² cell impairs secretory function and lowers Î² cell mass. Human Molecular Genetics, 2015, 24, 1390-1399.	1.4	89
147	Sarco(endo)plasmic reticulum ATPase is a molecular partner of Wolfram syndrome 1 protein, which negatively regulates its expression. Human Molecular Genetics, 2015, 24, 814-827.	1.4	46
148	SLC30A8 mutations in type 2 diabetes. Diabetologia, 2015, 58, 31-36.	2.9	92
149	Dynamic imaging of compartmentalised intracellular free Zn 2+ concentrations in rat ventricular cardiomyocytes. FASEB Journal, 2015, 29, 951.3.	0.2	0
150	Rfx6 Maintains the Functional Identity of Adult Pancreatic Î² Cells. Cell Reports, 2014, 9, 2219-2232.	2.9	114
151	The Peutz-Jeghers kinase LKB1 suppresses polyp growth from intestinal cells of a proglucagon-expressing lineage. DMM Disease Models and Mechanisms, 2014, 7, 1275-86.	1.2	10
152	Incretin-Modulated Beta Cell Energetics in Intact Islets of Langerhans. Molecular Endocrinology, 2014, 28, 860-871.	3.7	66
153	Hypothalamic glucagon signals through the KATP channels to regulate glucose production. Molecular Metabolism, 2014, 3, 202-208.	3.0	27
154	Calcium signaling in pancreatic Î²-cells in health and in Type 2 diabetes. Cell Calcium, 2014, 56, 340-361.	1.1	158
155	Biologically targeted probes for Zn²⁺: a diversity oriented modular â€œclick-S_NAr-clickâ€•approach. Chemical Science, 2014, 5, 3528-3535.	3.7	49
156	LKB1 and AMPK differentially regulate pancreatic Î²â€•cell identity. FASEB Journal, 2014, 28, 4972-4985.	0.2	71
157	Optical control of insulin release using a photoswitchable sulfonylurea. Nature Communications, 2014, 5, 5116.	5.8	106
158	ADCY5 Couples Glucose to Insulin Secretion in Human Islets. Diabetes, 2014, 63, 3009-3021.	0.3	124
159	<i>Dorothy Hodgkin Lecture 2014</i> Understanding genes identified by genomeâ€•wide association studies for Type 2 diabetes. Diabetic Medicine, 2014, 31, 1480-1487.	1.2	29
160	Mitochondria-Associated Endoplasmic Reticulum Membranes in Insulin Signaling. Diabetes, 2014, 63, 3163-3165.	0.3	25
161	Mitochondrial and ER-Targeted eCALWY Probes Reveal High Levels of Free Zn²⁺. ACS Chemical Biology, 2014, 9, 2111-2120.	1.6	102
162	Hypoxia lowers SLC30A8/ZnT8 expression and free cytosolic Zn2+ in pancreatic beta cells. Diabetologia, 2014, 57, 1635-1644.	2.9	36

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163	Pancreatic Î²â€cell Na⁺channels control global Ca²⁺signaling and oxidative metabolism by inducing Na⁺and Ca²⁺responses that are propagated into mitochondria. FASEB Journal, 2014, 28, 3301-3312.	0.2	49
164	Use of Genetically Encoded Sensors to Monitor Cytosolic ATP/ADP Ratio in Living Cells. Methods in Enzymology, 2014, 542, 289-311.	0.4	19
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