Guy A Rutter

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

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 336 | Initiation and execution of lipotoxic ER stress in pancreatic beta-cells. <i>Journal of Cell Science</i> , 2008 , 121, 2308-18 | 5.3 | 449 |
| 335 | Genetically encoded FRET sensors to monitor intracellular Zn2+ homeostasis. <i>Nature Methods</i> , 2009 , 6, 737-40 | 21.6 | 344 |
| 334 | 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 |
| 333 | Roles of 5PAMP-activated protein kinase (AMPK) in mammalian glucose homoeostasis. <i>Biochemical Journal</i> , 2003 , 375, 1-16 | 3.8 | 288 |
| 332 | 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 |
| 331 | MicroRNA-124a regulates Foxa2 expression and intracellular signaling in pancreatic beta-cell lines. Journal of Biological Chemistry, 2007 , 282, 19575-88 | 5.4 | 271 |
| 330 | 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 |
| 329 | Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. Cell Metabolism, 2016, 24, 389-401 | 24.6 | 248 |
| 328 | 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 |
| 327 | 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 |
| 326 | 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 |
| 325 | Pancreatic #cell identity, glucose sensing and the control of insulin secretion. <i>Biochemical Journal</i> , 2015 , 466, 203-18 | 3.8 | 233 |
| 324 | 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 |
| 323 | 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 |
| 322 | Regulation of ATP production by mitochondrial Ca(2+). <i>Cell Calcium</i> , 2012 , 52, 28-35 | 4 | 201 |
| 321 | 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 |
| 320 | 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 |

(2012-2003)

| 319 | Multiple forms of "kiss-and-run" exocytosis revealed by evanescent wave microscopy. <i>Current Biology</i> , 2003 , 13, 563-7 | 6.3 | 176 |
|-----|--|------|-----|
| 318 | Regulation of mitochondrial metabolism by ER Ca2+ release: an intimate connection. <i>Trends in Biochemical Sciences</i> , 2000 , 25, 215-21 | 10.3 | 175 |
| 317 | 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 |
| 316 | 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 |
| 315 | Expanding role of AMPK in endocrinology. <i>Trends in Endocrinology and Metabolism</i> , 2006 , 17, 205-15 | 8.8 | 159 |
| 314 | 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 |
| 313 | TCF7L2 regulates late events in insulin secretion from pancreatic islet beta-cells. <i>Diabetes</i> , 2009 , 58, 894-905 | 0.9 | 157 |
| 312 | Lipotoxicity disrupts incretin-regulated human #cell connectivity. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4182-94 | 15.9 | 155 |
| 311 | Nutrient-secretion coupling in the pancreatic islet beta-cell: recent advances. <i>Molecular Aspects of Medicine</i> , 2001 , 22, 247-84 | 16.7 | 153 |
| 310 | 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 |
| 309 | 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 |
| 308 | 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 |
| 307 | 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 |
| 306 | 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 |
| 305 | 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 |
| 304 | 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 |
| 303 | Calcium signaling in pancreatic ⊪cells in health and in Type 2 diabetes. <i>Cell Calcium</i> , 2014 , 56, 340-61 | 4 | 125 |
| 302 | The mitochondrial Ca2+ uniporter MCU is essential for glucose-induced ATP increases in pancreatic \$\mathbb{E}\$ cells. <i>PLoS ONE</i> , 2012 , 7, e39722 | 3.7 | 122 |

| 301 | 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 |
|--------------------------|---|---------------------------|----------------------------|
| 300 | 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 |
| 299 | Identification of genes selectively disallowed in the pancreatic islet. <i>Islets</i> , 2010 , 2, 89-95 | 2 | 112 |
| 298 | 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 |
| 297 | 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 |
| 296 | Dynamic changes in cytosolic and mitochondrial ATP levels in pancreatic acinar cells. <i>Gastroenterology</i> , 2010 , 138, 1976-87 | 13.3 | 101 |
| 295 | Zinc and diabetes. Archives of Biochemistry and Biophysics, 2016, 611, 79-85 | 4.1 | 96 |
| 294 | 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 |
| 293 | 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 |
| | | | |
| 292 | Ca2+ microdomains and the control of insulin secretion. <i>Cell Calcium</i> , 2006 , 40, 539-51 | 4 | 92 |
| 292 291 | Ca2+ microdomains and the control of insulin secretion. <i>Cell Calcium</i> , 2006 , 40, 539-51 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 | 4 5·4 | 92 92 |
| | Glucose-stimulated preproinsulin gene expression and nuclear trans-location of pancreatic duodenum homeobox-1 require activation of phosphatidylinositol 3-kinase but not p38 | | |
| 291 | 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 |
| 291 290 | 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 ADCY5 couples glucose to insulin secretion in human islets. <i>Diabetes</i> , 2014 , 63, 3009-21 Glucose regulates free cytosolic Zn#+ concentration, Slc39 (ZiP), and metallothionein gene | 5.4 | 92 |
| 291 290 289 | 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 ADCY5 couples glucose to insulin secretion in human islets. <i>Diabetes</i> , 2014 , 63, 3009-21 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 Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , | 5.4 0.9 5.4 | 92 91 91 |
| 291 290 289 288 | 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 ADCY5 couples glucose to insulin secretion in human islets. <i>Diabetes</i> , 2014 , 63, 3009-21 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 Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , 2014 , 5, 5116 Inhibition of mitochondrial Na+-Ca2+ exchange restores agonist-induced ATP production and Ca2+ | 5.4 0.9 5.4 17.4 | 92 91 91 |
| 291 290 289 288 | 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 ADCY5 couples glucose to insulin secretion in human islets. <i>Diabetes</i> , 2014 , 63, 3009-21 Glucose regulates free cytosolic Zn\(\mathbb{H}\) concentration, Slc39 (ZiP), and metallothionein gene expression in primary pancreatic islet \(\mathbb{H}\) cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 25778-89 Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , 2014 , 5, 5116 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 0.9 5.4 17.4 | 92 91 91 90 89 |

(2015-2004)

| 283 | 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 |
|-----|--|-------|----|
| 282 | 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 |
| 281 | 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 |
| 280 | The zinc transporter ZIP12 regulates the pulmonary vascular response to chronic hypoxia. <i>Nature</i> , 2015 , 524, 356-60 | 50.4 | 85 |
| 279 | 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 |
| 278 | 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 |
| 277 | Photoswitchable diacylglycerols enable optical control of protein kinase C. <i>Nature Chemical Biology</i> , 2016 , 12, 755-62 | 11.7 | 83 |
| 276 | Mitochondrial and ER-targeted eCALWY probes reveal high levels of free Zn2+. <i>ACS Chemical Biology</i> , 2014 , 9, 2111-20 | 4.9 | 83 |
| 275 | 5PAMP-activated protein kinase controls insulin-containing secretory vesicle dynamics. <i>Journal of Biological Chemistry</i> , 2003 , 278, 52042-51 | 5.4 | 82 |
| 274 | 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 |
| 273 | Mitochondrial priming modifies Ca2+ oscillations and insulin secretion in pancreatic islets. <i>Biochemical Journal</i> , 2001 , 353, 175-180 | 3.8 | 79 |
| 272 | 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 |
| 271 | Rfx6 maintains the functional identity of adult pancreatic ♥cells. <i>Cell Reports</i> , 2014 , 9, 2219-32 | 10.6 | 78 |
| 270 | 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 |
| 269 | 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 |
| 268 | 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 |
| 267 | 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√147 | 76 |
| 266 | SLC30A8 mutations in type 2 diabetes. <i>Diabetologia</i> , 2015 , 58, 31-6 | 10.3 | 73 |

| 265 | Identification of a Ras GTPase-activating protein regulated by receptor-mediated Ca2+ oscillations. <i>EMBO Journal</i> , 2004 , 23, 1749-60 | 13 | 73 |
|-----|---|----------------|----|
| 264 | 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 |
| 263 | Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic #cells leads to relative hyperinsulinism during exercise. <i>Diabetes</i> , 2012 , 61, 1719-25 | 0.9 | 72 |
| 262 | 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 |
| 261 | Leader ⊕cells coordinate Ca dynamics across pancreatic islets in vivo. <i>Nature Metabolism</i> , 2019 , 1, 615-6 | 219 4.6 | 70 |
| 260 | 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 |
| 259 | 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 |
| 258 | Think zinc: New roles for zinc in the control of insulin secretion. <i>Islets</i> , 2010 , 2, 49-50 | 2 | 68 |
| 257 | Hypothalamic AMP-activated protein kinase regulates glucose production. <i>Diabetes</i> , 2010 , 59, 2435-43 | 0.9 | 68 |
| 256 | 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 |
| 255 | 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 |
| 254 | 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 |
| 253 | 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 |
| 252 | 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 |
| 251 | Chronic Activation of ☑ AMPK Induces Obesity and Reduces ♯Cell Function. <i>Cell Metabolism</i> , 2016 , 23, 821-36 | 24.6 | 66 |
| 250 | 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 |
| 249 | 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 |
| 248 | The AMP-regulated kinase family: enigmatic targets for diabetes therapy. <i>Molecular and Cellular Endocrinology</i> , 2009 , 297, 41-9 | 4.4 | 64 |

| 247 | 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 |
|-----|---|-------------------|----|
| 246 | 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 |
| 245 | 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 |
| 244 | 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 |
| 243 | 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 | if-73 | 61 |
| 242 | LKB1 and AMPK differentially regulate pancreatic #cell identity. <i>FASEB Journal</i> , 2014 , 28, 4972-85 | 0.9 | 60 |
| 241 | Optical Control of Insulin Secretion Using an Incretin Switch. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15565-9 | 16.4 | 60 |
| 240 | 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 |
| 239 | 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 |
| 238 | 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 |
| 237 | Mitochondrial localization as a determinant of capacitative Ca2+ entry in HeLa cells. <i>Cell Calcium</i> , 2004 , 36, 499-508 | 4 | 57 |
| 236 | Mitochondrial priming modifies Ca2+ oscillations and insulin secretion in pancreatic islets. <i>Biochemical Journal</i> , 2001 , 353, 175-80 | 3.8 | 57 |
| 235 | 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 |
| 234 | 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 |
| 233 | 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 |
| 232 | 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 |
| 231 | Glucose is necessary for embryonic pancreatic endocrine cell differentiation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15228-37 | 5.4 | 55 |
| 230 | An essential role for the Zn transporter ZIP7 in B cell development. <i>Nature Immunology</i> , 2019 , 20, 350-3 | 61 9.1 | 54 |

| 229 | DICER Inactivation Identifies Pancreatic Cell "Disallowed" Genes Targeted by MicroRNAs. <i>Molecular Endocrinology</i> , 2015 , 29, 1067-79 | | 53 |
|-----|---|------|----|
| 228 | 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 |
| 227 | The mitochondrial Na+/Ca2+ exchanger upregulates glucose dependent Ca2+ signalling linked to insulin secretion. <i>PLoS ONE</i> , 2012 , 7, e46649 | 3.7 | 52 |
| 226 | 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 |
| 225 | Molecular Genetic Regulation of Slc30a8/ZnT8 Reveals a Positive Association With Glucose Tolerance. <i>Molecular Endocrinology</i> , 2016 , 30, 77-91 | | 51 |
| 224 | Minireview: intraislet regulation of insulin secretion in humans. <i>Molecular Endocrinology</i> , 2013 , 27, 1984 | -95 | 51 |
| 223 | 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 |
| 222 | 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 |
| 221 | Insulin secretion is controlled by mGlu5 metabotropic glutamate receptors. <i>Molecular Pharmacology</i> , 2006 , 69, 1234-41 | 4.3 | 49 |
| 220 | 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 |
| 219 | The Etell in diabetes mellitus. Nature Reviews Endocrinology, 2018, 14, 694-704 | 15.2 | 49 |
| 218 | Dual-modal magnetic resonance/fluorescent zinc probes for pancreatic #cell mass imaging. <i>Chemistry - A European Journal</i> , 2015 , 21, 5023-33 | 4.8 | 47 |
| 217 | Incretin-modulated beta cell energetics in intact islets of Langerhans. <i>Molecular Endocrinology</i> , 2014 , 28, 860-71 | | 47 |
| 216 | 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 |
| 215 | mTORC1 to AMPK switching underlies #cell metabolic plasticity during maturation and diabetes. Journal of Clinical Investigation, 2019, 129, 4124-4137 | 15.9 | 47 |
| 214 | 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 |
| 213 | 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 |
| 212 | 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 |

(2018-2014)

| 211 | 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 |
|-----|--|------|----|
| 210 | 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 |
| 209 | Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. <i>Nature Genetics</i> , 2019 , 51, 1596-1606 | 36.3 | 45 |
| 208 | Real-time imaging of gene expression in single living cells. <i>Chemistry and Biology</i> , 1998 , 5, R285-90 | | 44 |
| 207 | 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 |
| 206 | SLC30A9 mutation affecting intracellular zinc homeostasis causes a novel cerebro-renal syndrome. <i>Brain</i> , 2017 , 140, 928-939 | 11.2 | 43 |
| 205 | Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic #Cells. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21376-92 | 5.4 | 43 |
| 204 | Insulin secretion: feed-forward control of insulin biosynthesis?. Current Biology, 1999, 9, R443-5 | 6.3 | 43 |
| 203 | Control of insulin secretion by GLP-1. <i>Peptides</i> , 2018 , 100, 75-84 | 3.8 | 42 |
| 202 | Pancreatic #cell Na+ channels control global Ca2+ signaling and oxidative metabolism by inducing Na+ and Ca2+ responses that are propagated into mitochondria. <i>FASEB Journal</i> , 2014 , 28, 3301-12 | 0.9 | 42 |
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