

Kohtaro Minami

List of Publications by Year in descending order

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54
papers

3,199
citations

236833

25
h-index

189801

50
g-index

55
all docs

55
docs citations

55
times ranked

4207
citing authors

#	ARTICLE	IF	CITATIONS
1	ATP-sensitive K ⁺ channels in the hypothalamus are essential for the maintenance of glucose homeostasis. <i>Nature Neuroscience</i> , 2001, 4, 507-512.	7.1	470
2	Dynamics of insulin secretion and the clinical implications for obesity and diabetes. <i>Journal of Clinical Investigation</i> , 2011, 121, 2118-2125.	3.9	290
3	Lineage tracing and characterization of insulin-secreting cells generated from adult pancreatic acinar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15116-15121.	3.3	249
4	PGRN is a Key Adipokine Mediating High Fat Diet-Induced Insulin Resistance and Obesity through IL-6 in Adipose Tissue. <i>Cell Metabolism</i> , 2012, 15, 38-50.	7.2	222
5	The cAMP Sensor Epac2 Is a Direct Target of Antidiabetic Sulfonylurea Drugs. <i>Science</i> , 2009, 325, 607-610.	6.0	198
6	A Blood-Brain-Barrier-Penetrating Anti-human Transferrin Receptor Antibody Fusion Protein for Neuropathic Mucopolysaccharidosis II. <i>Molecular Therapy</i> , 2018, 26, 1366-1374.	3.7	141
7	Glutamate Acts as a Key Signal Linking Glucose Metabolism to Incretin/cAMP Action to Amplify Insulin Secretion. <i>Cell Reports</i> , 2014, 9, 661-673.	2.9	128
8	Insulin secretion and differential gene expression in glucose-responsive and -unresponsive MIN6 sublines. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E773-E781.	1.8	116
9	Iduronate-2-Sulfatase with Anti-human Transferrin Receptor Antibody for Neuropathic Mucopolysaccharidosis II: A Phase 1/2 Trial. <i>Molecular Therapy</i> , 2019, 27, 456-464.	3.7	105
10	Distinct Effects of Glucose-Dependent Insulinotropic Polypeptide and Glucagon-Like Peptide-1 on Insulin Secretion and Gut Motility. <i>Diabetes</i> , 2005, 54, 1056-1063.	0.3	103
11	Rim2 [±] Determines Docking and Priming States in Insulin Granule Exocytosis. <i>Cell Metabolism</i> , 2010, 12, 117-129.	7.2	97
12	Roles of ATP-Sensitive K ⁺ Channels as Metabolic Sensors: Studies of Kir6.x Null Mice. <i>Diabetes</i> , 2004, 53, S176-S180.	0.3	94
13	ATP-sensitive potassium channels participate in glucose uptake in skeletal muscle and adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 283, E1178-E1184.	1.8	81
14	Cell Permeable Peptide of JNK Inhibitor Prevents Islet Apoptosis Immediately After Isolation and Improves Islet Graft Function. <i>American Journal of Transplantation</i> , 2005, 5, 1848-1855.	2.6	80
15	Meal sequence and glucose excursion, gastric emptying and incretin secretion in type 2 diabetes: a randomised, controlled crossover, exploratory trial. <i>Diabetologia</i> , 2016, 59, 453-461.	2.9	69
16	Liraglutide Improves Pancreatic Beta Cell Mass and Function in Alloxan-Induced Diabetic Mice. <i>PLoS ONE</i> , 2015, 10, e0126003.	1.1	55
17	Essential Role of Ubiquitin-Proteasome System in Normal Regulation of Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2006, 281, 13015-13020.	1.6	51
18	Cephalic phase insulin secretion is KATP channel independent. <i>Journal of Endocrinology</i> , 2013, 218, 25-33.	1.2	48

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19	Gs/Gq signaling switch in β cells defines incretin effectiveness in diabetes. <i>Journal of Clinical Investigation</i> , 2020, 130, 6639-6655.	3.9	46
20	Generation of insulin-secreting cells from pancreatic acinar cells of animal models of type 1 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E158-E165.	1.8	45
21	PDX-1 Protein is Internalized by Lipid Raft-Dependent Macropinocytosis. <i>Cell Transplantation</i> , 2005, 14, 637-645.	1.2	44
22	Role of Cadherin-mediated Cell-Cell Adhesion in Pancreatic Exocrine-to-Endocrine Transdifferentiation. <i>Journal of Biological Chemistry</i> , 2008, 283, 13753-13761.	1.6	36
23	Establishment of new clonal pancreatic β cell lines (MIN6) useful for study of incretin/cyclic adenosine monophosphate signaling. <i>Journal of Diabetes Investigation</i> , 2010, 1, 137-142.	1.1	36
24	Pancreatic β -cell signaling: toward better understanding of diabetes and its treatment. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2010, 86, 563-577.	1.6	32
25	Pancreatic acinar-to-beta cell transdifferentiation in vitro. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 5824.	3.0	28
26	Bile acid-binding protein from soybean seed: Isolation, partial characterization and insulin-stimulating activity.. <i>Agricultural and Biological Chemistry</i> , 1988, 52, 803-809.	0.3	25
27	Spontaneous Recovery From Hyperglycemia by Regeneration of Pancreatic β -Cells in Kir6.2G132S Transgenic Mice. <i>Diabetes</i> , 2006, 55, 1930-1938.	0.3	25
28	Pancreatic β -cells are generated by neogenesis from non- β -cells after birth. <i>Biomedical Research</i> , 2011, 32, 167-174.	0.3	24
29	Clearance of heparan sulfate in the brain prevents neurodegeneration and neurocognitive impairment in MPS II mice. <i>Molecular Therapy</i> , 2021, 29, 1853-1861.	3.7	24
30	Conditional Hypovascularization and Hypoxia in Islets Do Not Overtly Influence Adult β -Cell Mass or Function. <i>Diabetes</i> , 2013, 62, 4165-4173.	0.3	23
31	Normalization of Intracellular Ca^{2+} Induces a Glucose-responsive State in Glucose-unresponsive β -Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 25277-25282.	1.6	21
32	Enzyme Replacement Therapy with Pabinafusp Alfa for Neuronopathic Mucopolysaccharidosis II: An Integrated Analysis of Preclinical and Clinical Data. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10938.	1.8	20
33	ATP-sensitive K^+ channel-mediated glucose uptake is independent of IRS-1/phosphatidylinositol 3-kinase signaling. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E1289-E1296.	1.8	18
34	Mature acinar cells are refractory to carcinoma development by targeted activation of Ras oncogene in adult rats. <i>Cancer Science</i> , 2010, 101, 341-346.	1.7	16
35	Preferential gene expression and epigenetic memory of induced pluripotent stem cells derived from mouse pancreas. <i>Genes To Cells</i> , 2015, 20, 367-381.	0.5	15
36	Essential roles of aspartate aminotransferase 1 and vesicular glutamate transporters in β -cell glutamate signaling for incretin-induced insulin secretion. <i>PLoS ONE</i> , 2017, 12, e0187213.	1.1	15

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37	Identification of soybean protein components that modulate the action of insulin in vitro.. Agricultural and Biological Chemistry, 1990, 54, 511-517.	0.3	12
38	Induction by NeuroD of the components required for regulated exocytosis. Biochemical and Biophysical Research Communications, 2007, 354, 271-277.	1.0	11
39	Nonclinical safety evaluation of pabinafusp alfa, an anti-human transferrin receptor antibody and iduronate-2-sulfatase fusion protein, for the treatment of neuronopathic mucopolysaccharidosis type II. Molecular Genetics and Metabolism Reports, 2021, 27, 100758.	0.4	11
40	Drug delivery for neuronopathic lysosomal storage diseases: evolving roles of the blood brain barrier and cerebrospinal fluid. Metabolic Brain Disease, 2022, 37, 1745-1756.	1.4	11
41	Current status of regeneration of pancreatic β -cells. Journal of Diabetes Investigation, 2013, 4, 131-141.	1.1	10
42	Inhibition of SNAT5 Induces Incretin-Responsive State From Incretin-Unresponsive State in Pancreatic β -Cells: Study of β -Cell Spheroid Clusters as a Model. Diabetes, 2018, 67, 1795-1806.	0.3	10
43	Dose-dependent effects of a brain-penetrating iduronate-2-sulfatase on neurobehavioral impairments in mucopolysaccharidosis II mice. Molecular Therapy - Methods and Clinical Development, 2022, 25, 534-544.	1.8	9
44	Treatment of Neuronopathic Mucopolysaccharidoses with Blood-Brain Barrier-Crossing Enzymes: Clinical Application of Receptor-Mediated Transcytosis. Pharmaceutics, 2022, 14, 1240.	2.0	9
45	Non-clinical evaluation of JR-051 as a biosimilar to agalsidase beta for the treatment of Fabry disease. Molecular Genetics and Metabolism, 2018, 125, 153-160.	0.5	6
46	In vitro generation of insulin-secreting cells from human pancreatic exocrine cells. Journal of Diabetes Investigation, 2011, 2, 271-275.	1.1	5
47	Tracing phenotypic reversibility of pancreatic β -cells in vitro. Journal of Diabetes Investigation, 2010, 1, 242-251.	1.1	4
48	GATA transcription factors: New key regulators in pancreas organogenesis. Journal of Diabetes Investigation, 2013, 4, 426-427.	1.1	4
49	A Novel Diphenylthiosemicarbazide Is a Potential Insulin Secretagogue for Anti-Diabetic Agent. PLoS ONE, 2016, 11, e0164785.	1.1	3
50	Physicochemical and biological evaluation of JR-131 as a biosimilar to a long-acting erythropoiesis-stimulating agent darbepoetin alfa. PLoS ONE, 2020, 15, e0231830.	1.1	2
51	Stimulation of in vitro Insulin Action by Glycinin Acidic Subunit A _{1a} . Agricultural and Biological Chemistry, 1991, 55, 1033-1039.	0.3	0
52	Response to Dupuis, Petersen, and Weydt. Cell Metabolism, 2012, 15, 270.	7.2	0
53	Searching for stem cells in the adult pancreas: A futile effort?. Journal of Diabetes Investigation, 2013, 4, 331-333.	1.1	0
54	Tracing phenotypic reversibility of pancreatic β -cells in vitro. Journal of Diabetes Investigation, 2010, 1, no-no.	1.1	0