Hail Kim

List of Publications by Year
in descending order

57 papers	3,164 citations	201674 27 h-index	161849 54 g-index
60 all docs	60 docs citations	60 times ranked	5018 citing authors

#	Article	IF	Citations
1	Serotonin regulates pancreatic beta cell mass during pregnancy. Nature Medicine, 2010, 16, 804-808.	30.7	489
2	Growth differentiation factor 15 is a myomitokine governing systemic energy homeostasis. Journal of Cell Biology, 2017, 216, 149-165.	5.2	250
3	Plastic roles of pericytes in the bloodâ€“retinal barrier. Nature Communications, 2017, 8, 15296.	12.8	210
4	Regulation of systemic energy homeostasis by serotonin in adipose tissues. Nature Communications, 2015, 6, 6794.	12.8	187
5	Convergence of the Insulin and Serotonin Programs in the Pancreatic Î²-Cell. Diabetes, 2011, 60, 3208-3216.	0.6	146
6	Serotonin regulates glucose-stimulated insulin secretion from pancreatic Î² cells during pregnancy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19420-19425.	7.1	136
7	Neurogenin3 inhibits proliferation in endocrine progenitors by inducing Cdkn1a. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 185-190.	7.1	122
8	Reduced oxidative capacity in macrophages results in systemic insulin resistance. Nature Communications, 2018, 9, 1551.	12.8	114
9	Functional Role of Serotonin in Insulin Secretion in a Diet-Induced Insulin-Resistant State. Endocrinology, 2015, 156, 444-452.	2.8	106
10	Serotonin signals through a gut-liver axis to regulate hepatic steatosis. Nature Communications, 2018, 9, 4824.	12.8	98
11	Research Resource: RNA-Seq Reveals Unique Features of the Pancreatic Î²-Cell Transcriptome. Molecular Endocrinology, 2012, 26, 1783-1792.	3.7	95
12	Peripheral Serotonin: a New Player in Systemic Energy Homeostasis. Molecules and Cells, 2015, 38, 1023-1028.	2.6	90
13	Serotonin as a New Therapeutic Target for Diabetes Mellitus and Obesity. Diabetes and Metabolism Journal, 2016, 40, 89.	4.7	83
14	Interrelationship between Liver X Receptor Î±, Sterol Regulatory Element-binding Protein-1c, Peroxisome Proliferator-activated Receptor Î³, and Small Heterodimer Partner in the Transcriptional Regulation of Glucokinase Gene Expression in Liver. Journal of Biological Chemistry, 2009, 284, 15071-15083.	3.4	74
15	Islet-like organoids derived from human pluripotent stem cells efficiently function in the glucose responsiveness in vitro and in vivo. Scientific Reports, 2016, 6, 35145.	3.3	73
16	Gî± _{i/o} -coupled receptor signaling restricts pancreatic Î²-cell expansion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2888-2893.	7.1	65
17	Perilipin+ embryonic preadipocytes actively proliferate along growing vasculatures for adipose expansion. Development (Cambridge), 2015, 142, 2623-2632.	2.5	63
18	Menin determines K-RAS proliferative outputs in endocrine cells. Journal of Clinical Investigation, 2014, 124, 4093-4101.	8.2	63

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19	Peroxisome Proliferator-activated Receptor Î± Is Responsible for the Up-regulation of Hepatic Glucose-6-phosphatase Gene Expression in Fasting and db/db Mice. Journal of Biological Chemistry, 2011, 286, 1157-1164.	3.4	48
20	Association of Variations in TPH1 and HTR2B with Gestational Weight Gain and Measures of Obesity. Obesity, 2012, 20, 233-238.	3.0	48
21	An adipocyte-specific defect in oxidative phosphorylation increases systemic energy expenditure and protects against diet-induced obesity in mouse models. Diabetologia, 2020, 63, 837-852.	6.3	48
22	Differential roles of GDF15 and FGF21 in systemic metabolic adaptation to the mitochondrial integrated stress response. IScience, 2021, 24, 102181.	4.1	45
23	FoxO1 in dopaminergic neurons regulates energy homeostasis and targets tyrosine hydroxylase. Nature Communications, 2016, 7, 12733.	12.8	34
24	Serotonin Regulates Adult Î²-Cell Mass by Stimulating Perinatal Î²-Cell Proliferation. Diabetes, 2020, 69, 205-214.	0.6	33
25	Lactation improves pancreatic Î² cell mass and function through serotonin production. Science Translational Medicine, 2020, 12, .	12.4	33
26	NAD+ augmentation ameliorates acute pancreatitis through regulation of inflammasome signalling. Scientific Reports, 2017, 7, 3006.	3.3	31
27	Comprehensive Genome-Wide Proteomic Analysis of Human Placental Tissue for the Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2013, 12, 2458-2466.	3.7	30
28	Lysosomal Ca2+-mediated TFEB activation modulates mitophagy and functional adaptation of pancreatic Î²-cells to metabolic stress. Nature Communications, 2022, 13, 1300.	12.8	28
29	YAP and AP-1 Cooperate to Initiate Pancreatic Cancer Development from Ductal Cells in Mice. Cancer Research, 2020, 80, 4768-4779.	0.9	27
30	Inhibition of Serotonin Synthesis Induces Negative Hepatic Lipid Balance. Diabetes and Metabolism Journal, 2018, 42, 233.	4.7	23
31	PRMT1 Is Required for the Maintenance of Mature Î²-Cell Identity. Diabetes, 2020, 69, 355-368.	0.6	22
32	Serotonin Regulates De Novo Lipogenesis in Adipose Tissues through Serotonin Receptor 2A. Endocrinology and Metabolism, 2020, 35, 470-479.	3.0	21
33	Expression mechanism of tryptophan hydroxylase 1 in mouse islets during pregnancy. Journal of Molecular Endocrinology, 2015, 55, 41-53.	2.5	19
34	Serotonergic regulation of energy metabolism in peripheral tissues. Journal of Endocrinology, 2020, 245, R1-R10.	2.6	19
35	Disruption of CR6-interacting factor-1 (CRIF1) in mouse islet beta cells leads to mitochondrial diabetes with progressive beta cell failure. Diabetologia, 2015, 58, 771-780.	6.3	18
36	Essential Role of Protein Arginine Methyltransferase 1 in Pancreas Development by Regulating Protein Stability of Neurogenin 3. Diabetes and Metabolism Journal, 2019, 43, 649.	4.7	17

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37	Inhibiting serotonin signaling through HTR2B in visceral adipose tissue improves obesity-related insulin resistance. Journal of Clinical Investigation, 2021, 131, .	8.2	16
38	Geometric effect of the hydrogel grid structure on in vitro formation of homogeneous MIN6 cell clusters. Lab on A Chip, 2014, 14, 2183-2190.	6.0	14
39	Grasp55â^'/â^' mice display impaired fat absorption and resistance to high-fat diet-induced obesity. Nature Communications, 2020, 11, 1418.	12.8	13
40	Ectopic serotonin production in Î²-cell specific transgenic mice. Biochemical and Biophysical Research Communications, 2018, 495, 1986-1991.	2.1	12
41	A Systems Biology Approach to Investigating the Interaction between Serotonin Synthesis by Tryptophan Hydroxylase and the Metabolic Homeostasis. International Journal of Molecular Sciences, 2021, 22, 2452.	4.1	12
42	Deletion of the Serotonin Receptor Type 3A in Mice Leads to Sudden Cardiac Death During Pregnancy. Circulation Journal, 2015, 79, 1807-1815.	1.6	11
43	Serotonin in the regulation of systemic energy metabolism. Journal of Diabetes Investigation, 2022, 13, 1639-1645.	2.4	10
44	Î²-cell serotonin production is associated with female sex, old age, and diabetes-free condition. Biochemical and Biophysical Research Communications, 2017, 493, 1197-1203.	2.1	9
45	Generation of a highly efficient and tissue-specific tryptophan hydroxylase 1 knockout mouse model. Scientific Reports, 2018, 8, 17642.	3.3	9
46	Î²-Cellâ€“Derived Angiopoietin-1 Regulates Insulin Secretion and Glucose Homeostasis by Stabilizing the Islet Microenvironment. Diabetes, 2019, 68, 774-786.	0.6	9
47	Proto-oncoprotein Zbtb7c and SIRT1 repression: implications in high-fat diet-induced and age-dependent obesity. Experimental and Molecular Medicine, 2021, 53, 917-932.	7.7	9
48	Design, Synthesis, and Biological Evaluation of New Peripheral 5HT_{2A} Antagonists for Nonalcoholic Fatty Liver Disease. Journal of Medicinal Chemistry, 2020, 63, 4171-4182.	6.4	8
49	Serotonergic Regulation of Hepatic Energy Metabolism. Endocrinology and Metabolism, 2021, 36, 1151-1160.	3.0	7
50	Protein Arginine Methyltransferase 1 Is Essential for the Meiosis of Male Germ Cells. International Journal of Molecular Sciences, 2021, 22, 7951.	4.1	4
51	Peripheral Selective Oxadiazolylphenyl Alanine Derivatives as Tryptophan Hydroxylase 1 Inhibitors for Obesity and Fatty Liver Disease. Journal of Medicinal Chemistry, 2021, 64, 1037-1053.	6.4	4
52	Demonstration of Interposed Modular Hydrogel Sheet for Multicellular Analysis in a Microfluidic Assembly Platform. Scientific Reports, 2017, 7, 1289.	3.3	3
53	Synthesis and biological evaluation of tyrosine derivatives as peripheral 5HT2A receptor antagonists for nonalcoholic fatty liver disease. European Journal of Medicinal Chemistry, 2022, 239, 114517.	5.5	3
54	The Role of Serotonin in Ventricular Repolarization in Pregnant Mice. Yonsei Medical Journal, 2018, 59, 279.	2.2	1

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55	Metabolic Regulation: Insulin Secretion and Action. Receptors, 2021, , 265-274.	0.2	0
56	Inhibition of Serotonin Synthesis Induces Negative Hepatic Lipid Balance. Diabetes and Metabolism Journal, 2018, , .	4.7	0
57	Ribes fasciculatum Ameliorates High-Fat-Diet-Induced Obesity by Elevating Peripheral Thermogenic Signaling. Molecules, 2022, 27, 1649.	3.8	0