Tony K T Lam

List of Publications by Year
in descending order

66 papers	5,692 citations	101496 36 h-index	106281 65 g-index
66 all docs	66 docs citations	66 times ranked	6021 citing authors

#	Article	IF	Citations
1	Hypothalamic KATP channels control hepatic glucose production. Nature, 2005, 434, 1026-1031.	13.7	569
2	Hypothalamic sensing of fatty acids. Nature Neuroscience, 2005, 8, 579-584.	7.1	420
3	Hypothalamic sensing of circulating fatty acids is required for glucose homeostasis. Nature Medicine, 2005, 11, 320-327.	15.2	390
4	Metformin activates a duodenal Ampkâ€"dependent pathway to lower hepatic glucose production in rats. Nature Medicine, 2015, 21, 506-511.	15.2	313
5	Regulation of Blood Glucose by Hypothalamic Pyruvate Metabolism. Science, 2005, 309, 943-947.	6.0	307
6	Upper intestinal lipids trigger a gutâ€"brainâ€"liver axis to regulate glucose production. Nature, 2008, 452, 1012-1016.	13.7	254
7	Mechanisms of the free fatty acid-induced increase in hepatic glucose production. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E863-E873.	1.8	208
8	Molecular disruption of hypothalamic nutrient sensing induces obesity. Nature Neuroscience, 2006, 9, 227-233.	7.1	205
9	Jejunal nutrient sensing is required for duodenal-jejunal bypass surgery to rapidly lower glucose concentrations in uncontrolled diabetes. Nature Medicine, 2012, 18, 950-955.	15.2	192
10	Metformin Alters Upper Small Intestinal Microbiota that Impact a Glucose-SGLT1-Sensing Glucoregulatory Pathway. Cell Metabolism, 2018, 27, 101-117.e5.	7.2	187
11	Restoration of hypothalamic lipid sensing normalizes energy and glucose homeostasis in overfed rats. Journal of Clinical Investigation, 2006, 116, 1081-1091.	3.9	184
12	Free fatty acid-induced hepatic insulin resistance: a potential role for protein kinase C-Î´. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E682-E691.	1.8	173
13	Intestinal Cholecystokinin Controls Glucose Production through a Neuronal Network. Cell Metabolism, 2009, 10, 99-109.	7.2	155
14	Brain glucose metabolism controls the hepatic secretion of triglyceride-rich lipoproteins. Nature Medicine, 2007, 13, 171-180.	15.2	136
15	Free fatty acids increase basal hepatic glucose production and induce hepatic insulin resistance at different sites. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E281-E290.	1.8	128
16	Resveratrol activates duodenal Sirt1 to reverse insulin resistance in rats through a neuronal network. Nature Medicine, 2015, 21, 498-505.	15.2	122
17	Insulin Activates Erk1/2 Signaling in the Dorsal Vagal Complex to Inhibit Glucose Production. Cell Metabolism, 2012, 16, 500-510.	7.2	88
18	FFA-induced hepatic insulin resistance in vivo is mediated by PKCÎ´, NADPH oxidase, and oxidative stress. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E34-E46.	1.8	86

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19	CNS Regulation of Glucose Homeostasis. Physiology, 2009, 24, 159-170.	1.6	80
20	Hypothalamic AMP-Activated Protein Kinase Regulates Glucose Production. Diabetes, 2010, 59, 2435-2443.	0.3	74
21	Lipid Sensing and Insulin Resistance in the Brain. Cell Metabolism, 2012, 15, 646-655.	7.2	70
22	The metabolic role of vagal afferent innervation. Nature Reviews Gastroenterology and Hepatology, 2018, 15, 625-636.	8.2	70
23	The metabolic impact of small intestinal nutrient sensing. Nature Communications, 2021, 12, 903.	5.8	70
24	Central lactate metabolism regulates food intake. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E491-E496.	1.8	60
25	Glucose Transporter-1 in the Hypothalamic Glial Cells Mediates Glucose Sensing to Regulate Glucose Production In Vivo. Diabetes, 2011, 60, 1901-1906.	0.3	60
26	Hormonal Signaling in the Gut. Journal of Biological Chemistry, 2014, 289, 11642-11649.	1.6	60
27	Hypothalamic Leucine Metabolism Regulates Liver Glucose Production. Diabetes, 2012, 61, 85-93.	0.3	59
28	Mediobasal Hypothalamic SIRT1 Is Essential for Resveratrolâ€™s Effects on Insulin Action in Rats. Diabetes, 2011, 60, 2691-2700.	0.3	57
29	Lactobacillus gasseri in the Upper Small Intestine Impacts an ACSL3-Dependent Fatty Acid-Sensing Pathway Regulating Whole-Body Glucose Homeostasis. Cell Metabolism, 2018, 27, 572-587.e6.	7.2	54
30	Hypothalamic Nutrient Sensing Activates a Forebrain-Hindbrain Neuronal Circuit to Regulate Glucose Production In Vivo. Diabetes, 2011, 60, 107-113.	0.3	51
31	Glucoregulatory Relevance of Small Intestinal Nutrient Sensing in Physiology, Bariatric Surgery, and Pharmacology. Cell Metabolism, 2015, 22, 367-380.	7.2	51
32	Hypothalamic Protein Kinase C Regulates Glucose Production. Diabetes, 2008, 57, 2061-2065.	0.3	50
33	Curative-intent Metastasis-directed Therapies for Molecularly-defined Oligorecurrent Prostate Cancer: A Prospective Phase II Trial Testing the Oligometastasis Hypothesis. European Urology, 2021, 80, 374-382.	0.9	49
34	Dynamin-Related Protein 1-Dependent Mitochondrial Fission Changes in the Dorsal Vagal Complex Regulate Insulin Action. Cell Reports, 2017, 18, 2301-2309.	2.9	47
35	Activation of Central Lactate Metabolism Lowers Glucose Production in Uncontrolled Diabetes and Diet-Induced Insulin Resistance. Diabetes, 2008, 57, 836-840.	0.3	41
36	Duodenal Activation of cAMP-Dependent Protein Kinase Induces Vagal Afferent Firing and Lowers Glucose Production in Rats. Gastroenterology, 2012, 142, 834-843.e3.	0.6	41

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37	Activation of Short and Long Chain Fatty Acid Sensing Machinery in the Ileum Lowers Glucose Production in Vivo. Journal of Biological Chemistry, 2016, 291, 8816-8824.	1.6	37
38	Physiological and therapeutic regulation of glucose homeostasis by upper small intestinal PepT1-mediated protein sensing. Nature Communications, 2018, 9, 1118.	5.8	36
39	Glucagon action in the brain. Diabetologia, 2016, 59, 1367-1371.	2.9	35
40	A fatty acid-dependent hypothalamicâ€"DVC neurocircuitry that regulates hepatic secretion of triglyceride-rich lipoproteins. Nature Communications, 2015, 6, 5970.	5.8	33
41	Insulin Signals Through the Dorsal Vagal Complex to Regulate Energy Balance. Diabetes, 2014, 63, 892-899.	0.3	31
42	Insulin action in the hypothalamus and dorsal vagal complex. Experimental Physiology, 2014, 99, 1104-1109.	0.9	31
43	Duodenal PKC-Î´ and Cholecystokinin Signaling Axis Regulates Glucose Production. Diabetes, 2011, 60, 3148-3153.	0.3	27
44	Evidence for a Role of Proline and Hypothalamic Astrocytes in the Regulation of Glucose Metabolism in Rats. Diabetes, 2013, 62, 1152-1158.	0.3	27
45	Jejunal Leptin-PI3K Signaling Lowers Glucose Production. Cell Metabolism, 2014, 19, 155-161.	7.2	27
46	FXR in the dorsal vagal complex is sufficient and necessary for upper small intestinal microbiome-mediated changes of TCDCA to alter insulin action in rats. Gut, 2021, 70, 1675-1683.	6.1	27
47	Hypothalamic sensing of circulating lactate regulates glucose production. Journal of Cellular and Molecular Medicine, 2009, 13, 4403-4408.	1.6	25
48	Glucagon signalling in the dorsal vagal complex is sufficient and necessary for highâ€protein feeding to regulate glucose homeostasis <i>inÂvivo</i>. EMBO Reports, 2015, 16, 1299-1307.	2.0	21
49	The Gut Microbiome: Connecting Diet, Glucose Homeostasis, and Disease. Annual Review of Medicine, 2022, 73, 469-481.	5.0	20
50	Inhibition of glycine transporter-1 in the dorsal vagal complex improves metabolic homeostasis in diabetes and obesity. Nature Communications, 2016, 7, 13501.	5.8	19
51	Leptin enhances hypothalamic lactate dehydrogenase A (LDHA)â€"dependent glucose sensing to lower glucose production in high-fatâ€"fed rats. Journal of Biological Chemistry, 2018, 293, 4159-4166.	1.6	18
52	Inhibition of upper small intestinal mTOR lowers plasma glucose levels by inhibiting glucose production. Nature Communications, 2019, 10, 714.	5.8	18
53	Interaction of glucose sensing and leptin action in the brain. Molecular Metabolism, 2020, 39, 101011.	3.0	16
54	Leptin and Aging. Aging, 2014, 6, 82-83.	1.4	16

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55	Peripheral and central regulation of insulin by the intestine and microbiome. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E234-E239.	1.8	15
56	Small intestinal taurochenodeoxycholic acid-FXR axis alters local nutrient-sensing glucoregulatory pathways in rats. Molecular Metabolism, 2021, 44, 101132.	3.0	12
57	A Gut Feeling for Metformin. Cell Metabolism, 2018, 28, 808-810.	7.2	11
58	Brain Glucose Metabolism Controls Hepatic Glucose and Lipid Production. Cellscience, 2007, 3, 63-69.	0.3	7
59	Nutrient and hormone-sensing-dependent regulation. Nature Reviews Endocrinology, 2016, 12, 70-72.	4.3	6
60	Beta cell preservation in patients with type 1 diabetes. Nature Medicine, 2018, 24, 1089-1090.	15.2	6
61	Testicular seminoma: Scattered radiation dose to the contralateral testis in the modern era. Practical Radiation Oncology, 2018, 8, e57-e62.	1.1	3
62	Bye, bye, bile: how altered bile acid composition changes small intestinal lipid sensing. Gut, 2020, 69, 1549-1550.	6.1	2
63	Nutrient infusion in the dorsal vagal complex controls hepatic lipid and glucose metabolism in rats. IScience, 2021, 24, 102366.	1.9	2
64	Metabolic regulation by the intestinal metformin-AMPK axis. Nature Communications, 2022, 13, .	5.8	2
65	Use of hydrogel spacer for improved rectal dose-sparing in patients undergoing radical radiotherapy for localized prostate cancer: First Canadian experience. Canadian Urological Association Journal, 2017, 11, 373-5.	0.3	1
66	Silencing gut CCK cells alters gut reaction to sugar. Nature Neuroscience, 2022, 25, 136-138.	7.1	0