Katsutaro Morino

List of Publications by Year
in descending order

84 papers	5,557 citations	136950 32 h-index	79698 73 g-index
86 all docs	86 docs citations	86 times ranked	8632 citing authors

#	Article	IF	Citations
1	Molecular Mechanisms of Insulin Resistance in Humans and Their Potential Links With Mitochondrial Dysfunction. Diabetes, 2006, 55, S9-S15.	0.6	730
2	Reduced mitochondrial density and increased IRS-1 serine phosphorylation in muscle of insulin-resistant offspring of type 2 diabetic parents. Journal of Clinical Investigation, 2005, 115, 3587-3593.	8.2	689
3	Aging-Associated Reductions in AMP-Activated Protein Kinase Activity and Mitochondrial Biogenesis. Cell Metabolism, 2007, 5, 151-156.	16.2	458
4	Disruption of neural signal transducer and activator of transcription 3 causes obesity, diabetes, infertility, and thermal dysregulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4661-4666.	7.1	341
5	Suppression of Diacylglycerol Acyltransferase-2 (DGAT2), but Not DGAT1, with Antisense Oligonucleotides Reverses Diet-induced Hepatic Steatosis and Insulin Resistance. Journal of Biological Chemistry, 2007, 282, 22678-22688.	3.4	319
6	Fish Oil Regulates Adiponectin Secretion by a Peroxisome Proliferatorâ€“Activated Receptor-Î³â€“Dependent Mechanism in Mice. Diabetes, 2006, 55, 924-928.	0.6	254
7	Prevention of hepatic steatosis and hepatic insulin resistance in mitochondrial acyl-CoA:glycerol-sn-3-phosphate acyltransferase 1 knockout mice. Cell Metabolism, 2005, 2, 55-65.	16.2	235
8	n-3 Fatty Acids Preserve Insulin Sensitivity In Vivo in a Peroxisome Proliferator-Activated Receptor-Â-Dependent Manner. Diabetes, 2007, 56, 1034-1041.	0.6	212
9	Microbiome potentiates endurance exercise through intestinal acetate production. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E956-E966.	3.5	131
10	Protein-tyrosine Phosphatase-1B Negatively Regulates Insulin Signaling in L6 Myocytes and Fao Hepatoma Cells. Journal of Biological Chemistry, 2001, 276, 10207-10211.	3.4	126
11	MicroRNA-494 regulates mitochondrial biogenesis in skeletal muscle through mitochondrial transcription factor A and Forkhead box j3. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1419-E1427.	3.5	119
12	Muscle-Specific IRS-1 Serâ†'Ala Transgenic Mice Are Protected From Fat-Induced Insulin Resistance in Skeletal Muscle. Diabetes, 2008, 57, 2644-2651.	0.6	102
13	Autophagy regulates inflammation in adipocytes. Biochemical and Biophysical Research Communications, 2012, 417, 352-357.	2.1	91
14	Activation of the farnesoid X receptor improves lipid metabolism in combined hyperlipidemic hamsters. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E716-E722.	3.5	84
15	Omega-3 polyunsaturated fatty acid has an anti-oxidant effect via the Nrf-2/HO-1 pathway in 3T3-L1 adipocytes. Biochemical and Biophysical Research Communications, 2013, 430, 225-230.	2.1	81
16	Reversal of muscle insulin resistance by weight reduction in young, lean, insulin-resistant offspring of parents with type 2 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8236-8240.	7.1	74
17	Effect of aging on muscle mitochondrial substrate utilization in humans. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11330-11334.	7.1	72
18	MiR-494-3p regulates mitochondrial biogenesis and thermogenesis through PGC1-Î± signalling in beige adipocytes. Scientific Reports, 2018, 8, 15096.	3.3	71

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19	Protein-tyrosine Phosphatase 1B as New Activator for Hepatic Lipogenesis via Sterol Regulatory Element-binding Protein-1 Gene Expression. Journal of Biological Chemistry, 2003, 278, 43095-43101.	3.4	70
20	4-Hydroxy Hexenal Derived from Docosahexaenoic Acid Protects Endothelial Cells via Nrf2 Activation. PLoS ONE, 2013, 8, e69415.	2.5	69
21	Low concentration of 4-hydroxy hexenal increases heme oxygenase-1 expression through activation of Nrf2 and antioxidative activity in vascular endothelial cells. Biochemical and Biophysical Research Communications, 2010, 402, 99-104.	2.1	65
22	Regulation of Mitochondrial Biogenesis by Lipoprotein Lipase in Muscle of Insulin-Resistant Offspring of Parents With Type 2 Diabetes. Diabetes, 2012, 61, 877-887.	0.6	63
23	Expression of a Dominant Negative SHP-2 in Transgenic Mice Induces Insulin Resistance. Journal of Biological Chemistry, 1999, 274, 30236-30243.	3.4	62
24	A high-fiber, low-fat diet improves periodontal disease markers in high-risk subjects: a pilot study. Nutrition Research, 2014, 34, 491-498.	2.9	59
25	Fiber-rich diet with brown rice improves endothelial function in type 2 diabetes mellitus: A randomized controlled trial. PLoS ONE, 2017, 12, e0179869.	2.5	52
26	Amla Enhances Mitochondrial Spare Respiratory Capacity by Increasing Mitochondrial Biogenesis and Antioxidant Systems in a Murine Skeletal Muscle Cell Line. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-11.	4.0	49
27	Soy phosphatidylcholine inhibited TLR4-mediated MCP-1 expression in vascular cells. Atherosclerosis, 2009, 205, 404-412.	0.8	45
28	A fish-based diet intervention improves endothelial function in postmenopausal women with type 2 diabetes mellitus: A randomized crossover trial. Metabolism: Clinical and Experimental, 2014, 63, 930-940.	3.4	43
29	Ipragliflozin, a sodiumâ€“glucose cotransporter 2 inhibitor, reduces bodyweight and fat mass, but not muscle mass, in Japanese type 2 diabetes patients treated with insulin: A randomized clinical trial. Journal of Diabetes Investigation, 2019, 10, 1012-1021.	2.4	41
30	Effects of a Fish-Based Diet on the Serum Adiponectin Concentration in Young, Non-Obese, Healthy Japanese Subjects. Journal of Atherosclerosis and Thrombosis, 2010, 17, 628-637.	2.0	39
31	Secular changes in clinical manifestations of kidney disease among Japanese adults with typeÂ2 diabetes from 1996 to 2014. Journal of Diabetes Investigation, 2019, 10, 1032-1040.	2.4	39
32	4-Hydroxy hexenal derived from dietary n-3 polyunsaturated fatty acids induces anti-oxidative enzyme heme oxygenase-1 in multiple organs. Biochemical and Biophysical Research Communications, 2014, 443, 991-996.	2.1	35
33	Membrane Localization of 3-Phosphoinositide-dependent Protein Kinase-1 Stimulates Activities of Akt and Atypical Protein Kinase C but Does Not Stimulate Glucose Transport and Glycogen Synthesis in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2002, 277, 38863-38869.	3.4	31
34	Ezetimibe prevents hepatic steatosis induced by a high-fat but not a high-fructose diet. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E293-E304.	3.5	30
35	Enhanced Intestinal Motility during Oral Glucose Tolerance Test after Laparoscopic Sleeve Gastrectomy: Preliminary Results Using Cine Magnetic Resonance Imaging. PLoS ONE, 2013, 8, e65739.	2.5	30
36	Use of MRI signal intensity of extraocular muscles to evaluate methylprednisolone pulse therapy in thyroid-associated ophthalmopathy. Japanese Journal of Ophthalmology, 2015, 59, 124-130.	1.9	28

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37	Pivotal Role of O-GlcNAc Modification in Cold-Induced Thermogenesis by Brown Adipose Tissue Through Mitochondrial Biogenesis. Diabetes, 2017, 66, 2351-2362.	0.6	28
38	Increased hypothalamic-pituitary-adrenal axis activity and hepatic insulin resistance in low-birth-weight rats. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1451-E1458.	3.5	26
39	Mitochondrial ferritin affects mitochondria by stabilizing HIF-1Î± in retinal pigment epithelium: implications for the pathophysiology of age-related macular degeneration. Neurobiology of Aging, 2016, 47, 168-179.	3.1	26
40	Association between serum soluble TNFÎ± receptors and renal dysfunction in type 2 diabetic patients without proteinuria. Diabetes Research and Clinical Practice, 2011, 92, 174-180.	2.8	25
41	Diverse metabolic effects of O-GlcNAcylation in the pancreas but limited effects in insulin-sensitive organs in mice. Diabetologia, 2017, 60, 1761-1769.	6.3	25
42	Transcription factor AP-2Î²: A negative regulator of IRS-1 gene expression. Biochemical and Biophysical Research Communications, 2010, 392, 526-532.	2.1	24
43	Total energy expenditure is comparable between patients with and without diabetes mellitus: Clinical Evaluation of Energy Requirements in Patients with Diabetes Mellitus (CLEVER-DM) Study. BMJ Open Diabetes Research and Care, 2019, 7, e000648.	2.8	19
44	Lack of O-GlcNAcylation enhances exercise-dependent glucose utilization potentially through AMP-activated protein kinase activation in skeletal muscle. Biochemical and Biophysical Research Communications, 2018, 495, 2098-2104.	2.1	18
45	Acute Effect of Metformin on Postprandial Hypertriglyceridemia through Delayed Gastric Emptying. International Journal of Molecular Sciences, 2017, 18, 1282.	4.1	17
46	SAFB1, an RBMX-binding protein, is a newly identified regulator of hepatic SREBP-1c gene. BMB Reports, 2009, 42, 232-237.	2.4	16
47	Transcription factor AP-2Î² inhibits expression and secretion of leptin, an insulin-sensitizing hormone, in 3T3-L1 adipocytes. International Journal of Obesity, 2010, 34, 670-678.	3.4	15
48	Metabolic changes induced by dapagliflozin, an SGLT2 inhibitor, in Japanese patients with type 2 diabetes treated by oral anti-diabetic agents: A randomized, clinical trial. Diabetes Research and Clinical Practice, 2022, 186, 109781.	2.8	15
49	Transcription Factor Activating Protein-2Î²: A Positive Regulator of Monocyte Chemoattractant Protein-1 Gene Expression. Endocrinology, 2009, 150, 1654-1661.	2.8	14
50	Relation of the Expression of Transcriptional Factor TFAP2B to That of Adipokines in Subcutaneous and Omental Adipose Tissues. Obesity, 2010, 18, 1277-1282.	3.0	14
51	CCDC3 is specifically upregulated in omental adipose tissue in subjects with abdominal obesity. Obesity, 2014, 22, 1070-1077.	3.0	14
52	A new antidiabetic agent (JTT-501) rapidly stimulates glucose disposal rates by enhancing insulin signal transduction in skeletal muscle. Diabetologia, 1999, 42, 151-159.	6.3	13
53	Octreotide improves early dumping syndrome potentially through incretins: a case report. Endocrine Journal, 2013, 60, 847-853.	1.6	13
54	A simple and sensitive method for glutamine:fructose-6-phosphate amidotransferase assay. Journal of Proteomics, 2004, 59, 201-208.	2.4	12

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55	Renal sinus fat volume on computed tomography in middle-aged patients at risk for cardiovascular disease and its association with coronary artery calcification. Atherosclerosis, 2016, 246, 374-381.	0.8	12
56	Insulin-Induced c-JunN-Terminal Kinase Activation Is Negatively Regulated by Protein Kinase C Î´1. Endocrinology, 2001, 142, 2669-2676.	2.8	10
57	MicroRNA-494 plays a role in fiber type-specific skeletal myogenesis in human induced pluripotent stem cells. Biochemical and Biophysical Research Communications, 2015, 468, 208-213.	2.1	10
58	N-3 Polyunsaturated Fatty Acids Decrease the Protein Expression of Soluble Epoxide Hydrolase via Oxidative Stress-Induced P38 Kinase in Rat Endothelial Cells. Nutrients, 2017, 9, 654.	4.1	10
59	Impact of obesity on annual medical expenditures and diabetes care in Japanese patients with type 2 diabetes mellitus. Journal of Diabetes Investigation, 2018, 9, 776-781.	2.4	10
60	Validity of the Use of a Triaxial Accelerometer and a Physical Activity Questionnaire for Estimating Total Energy Expenditure and Physical Activity Level among Elderly Patients with Type 2 Diabetes Mellitus: CLEVER-DM Study. Annals of Nutrition and Metabolism, 2020, 76, 62-72.	1.9	10
61	Role of Oâ€linked Nâ€acetylglucosamine in the homeostasis of metabolic organs, and its potential links with diabetes and its complications. Journal of Diabetes Investigation, 2021, 12, 130-136.	2.4	10
62	Predictors for Mild and Severe Hypoglycemia in Insulin-Treated Japanese Diabetic Patients. PLoS ONE, 2015, 10, e0130584.	2.5	8
63	Glycemic control and number of natural teeth: analysis of cross-sectional Japanese employment-based dental insurance claims and medical check-up data. Diabetology International, 2022, 13, 244-252.	1.4	8
64	Glycaemia and body weight are regulated by sodium-glucose cotransporter 1 (SGLT1) expression via O-GlcNAcylation in the intestine. Molecular Metabolism, 2022, 59, 101458.	6.5	8
65	Duality of n-3 Polyunsaturated Fatty Acids on Mcp-1 Expression in Vascular Smooth Muscle: A Potential Role of 4-Hydroxy Hexenal. Nutrients, 2015, 7, 8112-8126.	4.1	7
66	Evaluation of a Novel Glucose Area Under the Curve (AUC) Monitoring System: Comparison with the AUC by Continuous Glucose Monitoring. Diabetes and Metabolism Journal, 2016, 40, 326.	4.7	7
67	Association between symptoms of bilateral numbness and/or paresthesia in the feet and postural instability in Japanese patients with diabetes. Diabetology International, 2016, 7, 69-76.	1.4	7
68	Smoking status is associated with mild cognitive impairment assessed with the mini-mental state examination in Japanese diabetic patients. Diabetology International, 2016, 7, 361-367.	1.4	7
69	Postprandial activation of protein kinase CÃ¯Â¿Â½ regulates the expression of adipocytokines via the transcription factor AP-2Î². International Journal of Molecular Medicine, 2011, 28, 95-100.	4.0	6
70	Mitochondrial Health in Aging and Age-Related Metabolic Disease. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-2.	4.0	6
71	Improved glucose metabolism by Eragrostis tef potentially through beige adipocyte formation and attenuating adipose tissue inflammation. PLoS ONE, 2018, 13, e0201661.	2.5	6
72	Efficacy of metformin on postprandial plasma triglyceride concentration by administration timing in patients with typeÂ2 diabetes mellitus: A randomized crossâ€over pilot study. Journal of Diabetes Investigation, 2019, 10, 1284-1290.	2.4	6

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73	Preserving Î²-cell function is the major determinant of diabetes remission following laparoscopic sleeve gastrectomy in Japanese obese diabetic patients. Endocrine Journal, 2019, 66, 817-826.	1.6	6
74	Impact of obesity on underreporting of energy intake in type 2 diabetic patients: Clinical Evaluation of Energy Requirements in Patients with Diabetes Mellitus (CLEVER-DM) study. Clinical Nutrition ESPEN, 2020, 39, 251-254.	1.2	5
75	Geometry of Sleeve Gastrectomy Measured by 3D CT Versus Weight Loss: Preliminary Analysis. World Journal of Surgery, 2021, 45, 235-242.	1.6	5
76	Liver fat accumulation assessed by computed tomography is an independent risk factor for diabetes mellitus in a population-based study: SESSA (Shiga Epidemiological Study of Subclinical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (A	2.8	4
77	Data set for renal sinus fat volume and visceral adipose tissue volume on computed tomography. Data in Brief, 2016, 7, 1658-1664.	1.0	3
78	A case of local delayed-type allergy to zinc-containing insulin as a cause of diabetic ketoacidosis in a patient with type 1 diabetes mellitus undergoing continuous subcutaneous insulin infusion. Diabetology International, 2016, 7, 447-450.	1.4	3
79	MicroRNA-494-3p inhibits formation of fast oxidative muscle fibres by targeting E1A-binding protein p300 in human-induced pluripotent stem cells. Scientific Reports, 2021, 11, 1161.	3.3	2
80	Nutrition and Periodontal Health in the Patients with Diabetes Mellitus: a Review from the Viewpoint of Endothelial Function. Current Oral Health Reports, 2021, 8, 67-74.	1.6	2
81	Insulin-Induced c-Jun N-Terminal Kinase Activation Is Negatively Regulated by Protein Kinase C Â. Endocrinology, 2001, 142, 2669-2676.	2.8	2
82	Association between attentional function and postural instability in Japanese older patients with diabetes mellitus. Diabetology International, 2016, 7, 83-88.	1.4	1
83	MicroRNA-494 plays a role in fiber type-specific skeletal myogenesis by targeting transcriptional coactivator p300 in human induced pluripotent stem cells. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, OR19-3.	0.0	0
84	Differential Association of Serum n-3 Polyunsaturated Fatty Acids with Various Cerebrovascular Lesions in Japanese Men. Cerebrovascular Diseases, 2022, 51, 774-780.	1.7	0