

Katsutaro Morino

List of Publications by Year in descending order

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83
papers

5,557
citations

136740

32
h-index

79541

73
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86
all docs

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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. <i>Diabetes</i> , 2006, 55, S9-S15.	0.3	730
2	Reduced mitochondrial density and increased IRS-1 serine phosphorylation in muscle of insulin-resistant offspring of type 2 diabetic parents. <i>Journal of Clinical Investigation</i> , 2005, 115, 3587-3593.	3.9	689
3	Aging-Associated Reductions in AMP-Activated Protein Kinase Activity and Mitochondrial Biogenesis. <i>Cell Metabolism</i> , 2007, 5, 151-156.	7.2	458
4	Disruption of neural signal transducer and activator of transcription 3 causes obesity, diabetes, infertility, and thermal dysregulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4661-4666.	3.3	341
5	Suppression of Diacylglycerol Acyltransferase-2 (DGAT2), but Not DGAT1, with Antisense Oligonucleotides Reverses Diet-induced Hepatic Steatosis and Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2007, 282, 22678-22688.	1.6	319
6	Fish Oil Regulates Adiponectin Secretion by a Peroxisome Proliferator-Activated Receptor- α -Dependent Mechanism in Mice. <i>Diabetes</i> , 2006, 55, 924-928.	0.3	254
7	Prevention of hepatic steatosis and hepatic insulin resistance in mitochondrial acyl-CoA:glycerol-sn-3-phosphate acyltransferase 1 knockout mice. <i>Cell Metabolism</i> , 2005, 2, 55-65.	7.2	235
8	n-3 Fatty Acids Preserve Insulin Sensitivity In Vivo in a Peroxisome Proliferator-Activated Receptor- α -Dependent Manner. <i>Diabetes</i> , 2007, 56, 1034-1041.	0.3	212
9	Microbiome potentiates endurance exercise through intestinal acetate production. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E956-E966.	1.8	131
10	Protein-tyrosine Phosphatase-1B Negatively Regulates Insulin Signaling in L6 Myocytes and Fao Hepatoma Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 10207-10211.	1.6	126
11	MicroRNA-494 regulates mitochondrial biogenesis in skeletal muscle through mitochondrial transcription factor A and Forkhead box j3. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E1419-E1427.	1.8	119
12	Muscle-Specific IRS-1 Ser ⁴⁷³ Ala Transgenic Mice Are Protected From Fat-Induced Insulin Resistance in Skeletal Muscle. <i>Diabetes</i> , 2008, 57, 2644-2651.	0.3	102
13	Autophagy regulates inflammation in adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 352-357.	1.0	91
14	Activation of the farnesoid X receptor improves lipid metabolism in combined hyperlipidemic hamsters. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E716-E722.	1.8	84
15	Omega-3 polyunsaturated fatty acid has an anti-oxidant effect via the Nrf-2/HO-1 pathway in 3T3-L1 adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 225-230.	1.0	81
16	Reversal of muscle insulin resistance by weight reduction in young, lean, insulin-resistant offspring of parents with type 2 diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8236-8240.	3.3	74
17	Effect of aging on muscle mitochondrial substrate utilization in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11330-11334.	3.3	72
18	MIR-494-3p regulates mitochondrial biogenesis and thermogenesis through PGC1- α signalling in beige adipocytes. <i>Scientific Reports</i> , 2018, 8, 15096.	1.6	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. <i>Journal of Biological Chemistry</i> , 2003, 278, 43095-43101.	1.6	70
20	4-Hydroxy Hexenal Derived from Docosahexaenoic Acid Protects Endothelial Cells via Nrf2 Activation. <i>PLoS ONE</i> , 2013, 8, e69415.	1.1	69
21	Low concentration of 4-hydroxy hexenal increases heme oxygenase-1 expression through activation of Nrf2 and antioxidative activity in vascular endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 99-104.	1.0	65
22	Regulation of Mitochondrial Biogenesis by Lipoprotein Lipase in Muscle of Insulin-Resistant Offspring of Parents With Type 2 Diabetes. <i>Diabetes</i> , 2012, 61, 877-887.	0.3	63
23	Expression of a Dominant Negative SHP-2 in Transgenic Mice Induces Insulin Resistance. <i>Journal of Biological Chemistry</i> , 1999, 274, 30236-30243.	1.6	62
24	A high-fiber, low-fat diet improves periodontal disease markers in high-risk subjects: a pilot study. <i>Nutrition Research</i> , 2014, 34, 491-498.	1.3	59
25	Fiber-rich diet with brown rice improves endothelial function in type 2 diabetes mellitus: A randomized controlled trial. <i>PLoS ONE</i> , 2017, 12, e0179869.	1.1	52
26	Amla Enhances Mitochondrial Spare Respiratory Capacity by Increasing Mitochondrial Biogenesis and Antioxidant Systems in a Murine Skeletal Muscle Cell Line. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-11.	1.9	49
27	Soy phosphatidylcholine inhibited TLR4-mediated MCP-1 expression in vascular cells. <i>Atherosclerosis</i> , 2009, 205, 404-412.	0.4	45
28	A fish-based diet intervention improves endothelial function in postmenopausal women with type 2 diabetes mellitus: A randomized crossover trial. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 930-940.	1.5	43
29	lpragliflozin, a sodium-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. <i>Journal of Diabetes Investigation</i> , 2019, 10, 1012-1021.	1.1	41
30	Effects of a Fish-Based Diet on the Serum Adiponectin Concentration in Young, Non-Obese, Healthy Japanese Subjects. <i>Journal of Atherosclerosis and Thrombosis</i> , 2010, 17, 628-637.	0.9	39
31	Secular changes in clinical manifestations of kidney disease among Japanese adults with type 2 diabetes from 1996 to 2014. <i>Journal of Diabetes Investigation</i> , 2019, 10, 1032-1040.	1.1	39
32	4-Hydroxy hexenal derived from dietary n-3 polyunsaturated fatty acids induces anti-oxidative enzyme heme oxygenase-1 in multiple organs. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 991-996.	1.0	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. <i>Journal of Biological Chemistry</i> , 2002, 277, 38863-38869.	1.6	31
34	Ezetimibe prevents hepatic steatosis induced by a high-fat but not a high-fructose diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E293-E304.	1.8	30
35	Enhanced Intestinal Motility during Oral Glucose Tolerance Test after Laparoscopic Sleeve Gastrectomy: Preliminary Results Using Cine Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2013, 8, e65739.	1.1	30
36	Use of MRI signal intensity of extraocular muscles to evaluate methylprednisolone pulse therapy in thyroid-associated ophthalmopathy. <i>Japanese Journal of Ophthalmology</i> , 2015, 59, 124-130.	0.9	28

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37	Pivotal Role of <i>O</i> -GlcNAc Modification in Cold-Induced Thermogenesis by Brown Adipose Tissue Through Mitochondrial Biogenesis. <i>Diabetes</i> , 2017, 66, 2351-2362.	0.3	28
38	Increased hypothalamic-pituitary-adrenal axis activity and hepatic insulin resistance in low-birth-weight rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1451-E1458.	1.8	26
39	Mitochondrial ferritin affects mitochondria by stabilizing HIF-1 α in retinal pigment epithelium: implications for the pathophysiology of age-related macular degeneration. <i>Neurobiology of Aging</i> , 2016, 47, 168-179.	1.5	26
40	Association between serum soluble TNF α receptors and renal dysfunction in type 2 diabetic patients without proteinuria. <i>Diabetes Research and Clinical Practice</i> , 2011, 92, 174-180.	1.1	25
41	Diverse metabolic effects of <i>O</i> -GlcNAcylation in the pancreas but limited effects in insulin-sensitive organs in mice. <i>Diabetologia</i> , 2017, 60, 1761-1769.	2.9	25
42	Transcription factor AP-2 β : A negative regulator of IRS-1 gene expression. <i>Biochemical and Biophysical Research Communications</i> , 2010, 392, 526-532.	1.0	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. <i>BMJ Open Diabetes Research and Care</i> , 2019, 7, e000648.	1.2	19
44	Lack of <i>O</i> -GlcNAcylation enhances exercise-dependent glucose utilization potentially through AMP-activated protein kinase activation in skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 2098-2104.	1.0	18
45	Acute Effect of Metformin on Postprandial Hypertriglyceridemia through Delayed Gastric Emptying. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1282.	1.8	17
46	SAFB1, an RBMX-binding protein, is a newly identified regulator of hepatic SREBP-1c gene. <i>BMB Reports</i> , 2009, 42, 232-237.	1.1	16
47	Transcription factor AP-2 β inhibits expression and secretion of leptin, an insulin-sensitizing hormone, in 3T3-L1 adipocytes. <i>International Journal of Obesity</i> , 2010, 34, 670-678.	1.6	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. <i>Diabetes Research and Clinical Practice</i> , 2022, 186, 109781.	1.1	15
49	Transcription Factor Activating Protein-2 β : A Positive Regulator of Monocyte Chemoattractant Protein-1 Gene Expression. <i>Endocrinology</i> , 2009, 150, 1654-1661.	1.4	14
50	Relation of the Expression of Transcriptional Factor <i>TFAP2B</i> to That of Adipokines in Subcutaneous and Omental Adipose Tissues. <i>Obesity</i> , 2010, 18, 1277-1282.	1.5	14
51	<i>CCDC3</i> is specifically upregulated in omental adipose tissue in subjects with abdominal obesity. <i>Obesity</i> , 2014, 22, 1070-1077.	1.5	14
52	A new antidiabetic agent (JTT-501) rapidly stimulates glucose disposal rates by enhancing insulin signal transduction in skeletal muscle. <i>Diabetologia</i> , 1999, 42, 151-159.	2.9	13
53	Octreotide improves early dumping syndrome potentially through incretins: a case report. <i>Endocrine Journal</i> , 2013, 60, 847-853.	0.7	13
54	A simple and sensitive method for glutamine:fructose-6-phosphate amidotransferase assay. <i>Journal of Proteomics</i> , 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. <i>Atherosclerosis</i> , 2016, 246, 374-381.	0.4	12
56	Insulin-Induced c-JunN-Terminal Kinase Activation Is Negatively Regulated by Protein Kinase C δ 1. <i>Endocrinology</i> , 2001, 142, 2669-2676.	1.4	10
57	MicroRNA-494 plays a role in fiber type-specific skeletal myogenesis in human induced pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 208-213.	1.0	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. <i>Nutrients</i> , 2017, 9, 654.	1.7	10
59	Impact of obesity on annual medical expenditures and diabetes care in Japanese patients with type 2 diabetes mellitus. <i>Journal of Diabetes Investigation</i> , 2018, 9, 776-781.	1.1	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. <i>Annals of Nutrition and Metabolism</i> , 2020, 76, 62-72.	1.0	10
61	Role of O-linked N-acetylglucosamine in the homeostasis of metabolic organs, and its potential links with diabetes and its complications. <i>Journal of Diabetes Investigation</i> , 2021, 12, 130-136.	1.1	10
62	Predictors for Mild and Severe Hypoglycemia in Insulin-Treated Japanese Diabetic Patients. <i>PLoS ONE</i> , 2015, 10, e0130584.	1.1	8
63	Glycemic control and number of natural teeth: analysis of cross-sectional Japanese employment-based dental insurance claims and medical check-up data. <i>Diabetology International</i> , 2022, 13, 244-252.	0.7	8
64	Glycaemia and body weight are regulated by sodium-glucose cotransporter 1 (SGLT1) expression via O-GlcNAcylation in the intestine. <i>Molecular Metabolism</i> , 2022, 59, 101458.	3.0	8
65	Duality of n-3 Polyunsaturated Fatty Acids on Mcp-1 Expression in Vascular Smooth Muscle: A Potential Role of 4-Hydroxy Hexenal. <i>Nutrients</i> , 2015, 7, 8112-8126.	1.7	7
66	Evaluation of a Novel Glucose Area Under the Curve (AUC) Monitoring System: Comparison with the AUC by Continuous Glucose Monitoring. <i>Diabetes and Metabolism Journal</i> , 2016, 40, 326.	1.8	7
67	Association between symptoms of bilateral numbness and/or paresthesia in the feet and postural instability in Japanese patients with diabetes. <i>Diabetology International</i> , 2016, 7, 69-76.	0.7	7
68	Smoking status is associated with mild cognitive impairment assessed with the mini-mental state examination in Japanese diabetic patients. <i>Diabetology International</i> , 2016, 7, 361-367.	0.7	7
69	Postprandial activation of protein kinase C δ 1/2 regulates the expression of adipocytokines via the transcription factor AP-2 β . <i>International Journal of Molecular Medicine</i> , 2011, 28, 95-100.	1.8	6
70	Mitochondrial Health in Aging and Age-Related Metabolic Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-2.	1.9	6
71	Improved glucose metabolism by <i>Eragrostis tef</i> potentially through beige adipocyte formation and attenuating adipose tissue inflammation. <i>PLoS ONE</i> , 2018, 13, e0201661.	1.1	6
72	Efficacy of metformin on postprandial plasma triglyceride concentration by administration timing in patients with type 2 diabetes mellitus: A randomized crossover pilot study. <i>Journal of Diabetes Investigation</i> , 2019, 10, 1284-1290.	1.1	6

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73	Preserving β -cell function is the major determinant of diabetes remission following laparoscopic sleeve gastrectomy in Japanese obese diabetic patients. <i>Endocrine Journal</i> , 2019, 66, 817-826.	0.7	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. <i>Clinical Nutrition ESPEN</i> , 2020, 39, 251-254.	0.5	5
75	Geometry of Sleeve Gastrectomy Measured by 3D CT Versus Weight Loss: Preliminary Analysis. <i>World Journal of Surgery</i> , 2021, 45, 235-242.	0.8	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 /Overload 110 Tf 50 617 Td (A	0.5	0
77	Data set for renal sinus fat volume and visceral adipose tissue volume on computed tomography. <i>Data in Brief</i> , 2016, 7, 1658-1664.	0.5	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. <i>Diabetology International</i> , 2016, 7, 447-450.	0.7	3
79	MicroRNA-494-3p inhibits formation of fast oxidative muscle fibres by targeting E1A-binding protein p300 in human-induced pluripotent stem cells. <i>Scientific Reports</i> , 2021, 11, 1161.	1.6	2
80	Nutrition and Periodontal Health in the Patients with Diabetes Mellitus: a Review from the Viewpoint of Endothelial Function. <i>Current Oral Health Reports</i> , 2021, 8, 67-74.	0.5	2
81	Association between attentional function and postural instability in Japanese older patients with diabetes mellitus. <i>Diabetology International</i> , 2016, 7, 83-88.	0.7	1
82	MicroRNA-494 plays a role in fiber type-specific skeletal myogenesis by targeting transcriptional coactivator p300 in human induced pluripotent stem cells. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, OR19-3.	0.0	0
83	Differential Association of Serum n-3 Polyunsaturated Fatty Acids with Various Cerebrovascular Lesions in Japanese Men. <i>Cerebrovascular Diseases</i> , 2022, 51, 774-780.	0.8	0