Lawrence J Mandarino

List of Publications by Year
in descending order

106 papers	11,158 citations	66234 42 h-index	30848 102 g-index
109 all docs	109 docs citations	109 times ranked	12110 citing authors

#	Article	IF	Citations
1	Can Exercise Training Alter Human Skeletal Muscle DNA Methylation?. Metabolites, 2022, 12, 222.	1.3	11
2	Single Mutation in the NFU1 Gene Metabolically Reprograms Pulmonary Artery Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 734-754.	1.1	9
3	Altered Transcription Factor Expression Responses to Exercise in Insulin Resistance. Frontiers in Physiology, 2021, 12, 649461.	1.3	4
4	Deletion of Von Willebrand A Domain Containing Protein (VWA8) raises activity of mitochondrial electron transport chain complexes in hepatocytes. Biochemistry and Biophysics Reports, 2021, 26, 100928.	0.7	2
5	Impact of Amerind ancestry and FADS genetic variation on omega-3 deficiency and cardiometabolic traits in Hispanic populations. Communications Biology, 2021, 4, 918.	2.0	11
6	Oxidative phosphorylation K0.5ADP in vitro depends on substrate oxidative capacity: Insights from a luciferase-based assay to evaluate ADP kinetic parameters. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148430.	0.5	2
7	Site-specific acetylation of adenine nucleotide translocase 1 at lysine 23 in human muscle. Analytical Biochemistry, 2021, 630, 114319.	1.1	4
8	Association of EDARV370A with breast density and metabolic syndrome in Latinos. PLoS ONE, 2021, 16, e0258212.	1.1	5
9	Von Willebrand factor A domain-containing protein 8 (VWA8) localizes to the matrix side of the inner mitochondrial membrane. Biochemical and Biophysical Research Communications, 2020, 521, 158-163.	1.0	12
10	Returning genomic results in a Federally Qualified Health Center: the intersection of precision medicine and social determinants of health. Genetics in Medicine, 2020, 22, 1552-1559.	1.1	21
11	Pulmonary Arterial Hypertension Induces a Distinct Signature of Circulating Metabolites. Journal of Clinical Medicine, 2020, 9, 217.	1.0	4
12	Fatty Acid Desaturase Geneâ€Induced Omegaâ€3 Deficiency in Amerindianâ€Ancestry Hispanic Populations. FASEB Journal, 2020, 34, 1-1.	0.2	2
13	Deletion of the Mitochondrial Protein VWA8 Induces Oxidative Stress and an HNF4Î± Compensatory Response in Hepatocytes. Biochemistry, 2019, 58, 4983-4996.	1.2	10
14	Selenium supplementation and insulin resistance in a randomized, clinical trial. BMJ Open Diabetes Research and Care, 2019, 7, e000613.	1.2	28
15	Brain-Derived Neurotrophic Factor and Its Associations with Metabolism and Physical Activity in a Latino Sample. Metabolic Syndrome and Related Disorders, 2019, 17, 75-80.	0.5	6
16	Dominant and sensitive control of oxidative flux by the ATP-ADP carrier in human skeletal muscle mitochondria: Effect of lysine acetylation. Archives of Biochemistry and Biophysics, 2018, 647, 93-103.	1.4	16
17	Hemolysis-induced Lung Vascular Leakage Contributes to the Development of Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 334-345.	1.4	33
18	In response to: â€˜Information bias in measures of self-reported physical activityâ€™. International Journal of Obesity, 2018, 42, 2064-2065.	1.6	0

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19	Developing a Process for Returning Medically Actionable Genomic Variants to Latino Patients in a Federally Qualified Health Center. Public Health Genomics, 2018, 21, 77-84.	0.6	19
20	Lower Fastedâ€State but Greater Increase in Muscle Protein Synthesis in Response to Elevated Plasma Amino Acids in Obesity. Obesity, 2018, 26, 1179-1187.	1.5	23
21	Genome-wide association study of habitual physical activity in over 377,000 UK Biobank participants identifies multiple variants including CADM2 and APOE. International Journal of Obesity, 2018, 42, 1161-1176.	1.6	249
22	Potential epigenetic biomarkers of obesity-related insulin resistance in human whole-blood. Epigenetics, 2017, 12, 254-263.	1.3	23
23	Characterization of the novel protein KIAA0564 (Von Willebrand Domain-containing Protein 8). Biochemical and Biophysical Research Communications, 2017, 487, 545-551.	1.0	18
24	Characterization of the CLASP2 Protein Interaction Network Identifies SOGA1 as a Microtubule-Associated Protein. Molecular and Cellular Proteomics, 2017, 16, 1718-1735.	2.5	41
25	Next-generation sequencing methylation profiling of subjects with obesity identifies novel gene changes. Clinical Epigenetics, 2016, 8, 77.	1.8	22
26	Identification of Novel Changes in Human Skeletal Muscle Proteome After Roux-en-Y Gastric Bypass Surgery. Diabetes, 2016, 65, 2724-2731.	0.3	28
27	Proteomics analyses of subcutaneous adipocytes reveal novel abnormalities in human insulin resistance. Obesity, 2016, 24, 1506-1514.	1.5	32
28	Association of liprin Î²â€1 with kank proteins in melanoma. Experimental Dermatology, 2016, 25, 321-323.	1.4	13
29	Expression of the cereblon binding protein argonaute 2 plays an important role for multiple myeloma cell growth and survival. BMC Cancer, 2016, 16, 297.	1.1	36
30	Prolonged Exposure of Primary Human Muscle Cells to Plasma Fatty Acids Associated with Obese Phenotype Induces Persistent Suppression of Muscle Mitochondrial ATP Synthase Î² Subunit. PLoS ONE, 2016, 11, e0160057.	1.1	13
31	Changes in Pre- and Post-Exercise Gene Expression among Patients with Chronic Kidney Disease and Kidney Transplant Recipients. PLoS ONE, 2016, 11, e0160327.	1.1	7
32	Osteocalcin and type 2 diabetes risk in Latinos: A life course approach.. American Journal of Human Biology, 2015, 27, 859-861.	0.8	10
33	Effects of Acute Exposure to Increased Plasma Branched-Chain Amino Acid Concentrations on Insulin-Mediated Plasma Glucose Turnover in Healthy Young Subjects. PLoS ONE, 2015, 10, e0120049.	1.1	17
34	Gene and MicroRNA Expression Responses to Exercise; Relationship with Insulin Sensitivity. PLoS ONE, 2015, 10, e0127089.	1.1	52
35	Gestational Diabetes Is Characterized by Reduced Mitochondrial Protein Expression and Altered Calcium Signaling Proteins in Skeletal Muscle. PLoS ONE, 2014, 9, e106872.	1.1	47
36	Identification of a novel phosphorylation site in adipose triglyceride lipase as a regulator of lipid droplet localization. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E1449-E1459.	1.8	33

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37	Time to Look Back and to Look Forward. Diabetes, 2014, 63, 1169-1170.	0.3	0
38	Association of Common Genetic Variants with Diabetes and Metabolic Syndrome Related Traits in the Arizona Insulin Resistance Registry: A Focus on Mexican American Families in the Southwest. Human Heredity, 2014, 78, 47-58.	0.4	39
39	Adenine Nucleotide Translocase Is Acetylated in Vivo in Human Muscle: Modeling Predicts a Decreased ADP Affinity and Altered Control of Oxidative Phosphorylation. Biochemistry, 2014, 53, 3817-3829.	1.2	48
40	AMASS: a database for investigating protein structures. Bioinformatics, 2014, 30, 1595-1600.	1.8	5
41	Increased plasma availability of l-arginine in the postprandial period decreases the postprandial lipemia in older adults. Nutrition, 2013, 29, 81-88.	1.1	4
42	Effect of Exercise on the Skeletal Muscle Proteome in Patients with Type 2 Diabetes. Medicine and Science in Sports and Exercise, 2013, 45, 1069-1076.	0.2	40
43	Cationized ferritin as a magnetic resonance imaging probe to detect microstructural changes in a rat model of nonâ€alcoholic steatohepatitis. Magnetic Resonance in Medicine, 2013, 70, 1728-1738.	1.9	10
44	Whole Blood Gene Expression Profiles in Insulin Resistant Latinos with the Metabolic Syndrome. PLoS ONE, 2013, 8, e84002.	1.1	12
45	Glucose Response Curve and Type 2 Diabetes Risk in Latino Adolescents. Diabetes Care, 2012, 35, 1925-1930.	4.3	56
46	Postprandial Spillover of Dietary Lipid into Plasma Is Increased with Moderate Amounts of Ingested Fat and Is Inversely Related to Adiposity in Healthy Older Men3. Journal of Nutrition, 2012, 142, 1806-1811.	1.3	14
47	Identification of a Role for CLASP2 in Insulin Action*. Journal of Biological Chemistry, 2012, 287, 39245-39253.	1.6	35
48	High Fat Diet-Induced Changes in Hepatic Protein Abundance in Mice. Journal of Proteomics and Bioinformatics, 2012, 05, 60-66.	0.4	15
49	Reduction in Reactive Oxygen Species Production by Mitochondria From Elderly Subjects With Normal and Impaired Glucose Tolerance. Diabetes, 2011, 60, 2051-2060.	0.3	111
50	Label-Free Proteomic Identification of Endogenous, Insulin-Stimulated Interaction Partners of Insulin Receptor Substrate-1. Journal of the American Society for Mass Spectrometry, 2011, 22, 457-466.	1.2	34
51	Reproducibility of an HPLC-ESI-MS/MS Method for the Measurement of Stable-Isotope Enrichment of in Vivo-Labeled Muscle ATP Synthase Beta Subunit. PLoS ONE, 2011, 6, e26171.	1.1	3
52	Label-free relative quantification of co-eluting isobaric phosphopeptides of insulin receptor substrate-1 by HPLC-ESI-MS/MS. Journal of the American Society for Mass Spectrometry, 2010, 21, 1490-1499.	1.2	28
53	Increased Reactive Oxygen Species Production and Lower Abundance of Complex I Subunits and Carnitine Palmitoyltransferase 1B Protein Despite Normal Mitochondrial Respiration in Insulin-Resistant Human Skeletal Muscle. Diabetes, 2010, 59, 2444-2452.	0.3	152
54	Proteomics Analysis of Human Skeletal Muscle Reveals Novel Abnormalities in Obesity and Type 2 Diabetes. Diabetes, 2010, 59, 33-42.	0.3	217

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55	Hypoadiponectinemia Is Closely Associated with Impaired Nitric Oxide Synthase Activity in Skeletal Muscle of Type 2 Diabetic Subjects. Metabolic Syndrome and Related Disorders, 2010, 8, 459-463.	0.5	8
56	Regulation of Skeletal Muscle Oxidative Capacity and Insulin Signaling by the Mitochondrial Rhomboid Protease PARL. Cell Metabolism, 2010, 11, 412-426.	7.2	81
57	Characterization of the Human Adipocyte Proteome and Reproducibility of Protein Abundance by One-Dimensional Gel Electrophoresis and HPLCâ^'ESIâ^'MS/MS. Journal of Proteome Research, 2010, 9, 4521-4534.	1.8	46
58	Regulation of novel sites on AS160 by insulin and AICAR in human skeletal muscle. FASEB Journal, 2010, 24, 783.4.	0.2	0
59	In vivo Phosphoproteome of Human Skeletal Muscle Revealed by Phosphopeptide Enrichment and HPLCâ^'ESIâ^'MS/MS. Journal of Proteome Research, 2009, 8, 4954-4965.	1.8	81
60	Lâ€Arginine infusion attenuates postprandial lipemia in healthy elderly. FASEB Journal, 2009, 23, 991.12.	0.2	0
61	Global Relationship between the Proteome and Transcriptome of Human Skeletal Muscle. Journal of Proteome Research, 2008, 7, 3230-3241.	1.8	40
62	Characterization of the Human Skeletal Muscle Proteome by One-dimensional Gel Electrophoresis and HPLC-ESI-MS/MS. Molecular and Cellular Proteomics, 2008, 7, 257-267.	2.5	105
63	Insulin-resistant muscle is exercise resistant: evidence for reduced response of nuclear-encoded mitochondrial genes to exercise. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E607-E614.	1.8	123
64	Global Assessment of Regulation of Phosphorylation of Insulin Receptor Substrate-1 by Insulin In Vivo in Human Muscle. Diabetes, 2007, 56, 1508-1516.	0.3	58
65	Paradoxical Changes in Muscle Gene Expression in Insulin-Resistant Subjects After Sustained Reduction in Plasma Free Fatty Acid Concentration. Diabetes, 2007, 56, 743-752.	0.3	38
66	Phosphorylation and activation of a transducible recombinant form of human HSP20 in Escherichia coli. Protein Expression and Purification, 2007, 52, 50-58.	0.6	12
67	Role of adiponectin in human skeletal muscle bioenergetics. Cell Metabolism, 2006, 4, 75-87.	7.2	202
68	Quantification of phosphorylation of insulin receptor substrate-1 by HPLC-ESI-MS/MS. Journal of the American Society for Mass Spectrometry, 2006, 17, 562-567.	1.2	23
69	IGF-Binding Protein-1 Levels Are Related to Insulin-Mediated Glucose Disposal and Are a Potential Serum Marker of Insulin Resistance. Diabetes Care, 2006, 29, 1535-1537.	4.3	63
70	Reduced Skeletal Muscle Inhibitor of ÂBÂ Content Is Associated With Insulin Resistance in Subjects With Type 2 Diabetes: Reversal by Exercise Training. Diabetes, 2006, 55, 760-767.	0.3	124
71	Exercise-Induced Improvement in Vasodilatory Function Accompanies Increased Insulin Sensitivity in Obesity and Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 4903-4910.	1.8	85
72	Effect of a Sustained Reduction in Plasma Free Fatty Acid Concentration on Intramuscular Long-Chain Fatty Acyl-CoAs and Insulin Action in Type 2 Diabetic Patients. Diabetes, 2005, 54, 3148-3153.	0.3	162

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73	Identification of Insulin Receptor Substrate 1 Serine/Threonine Phosphorylation Sites Using Mass Spectrometry Analysis: Regulatory Role of Serine 1223. Endocrinology, 2005, 146, 4410-4416.	1.4	53
74	Dose-Response Effect of Elevated Plasma Free Fatty Acid on Insulin Signaling. Diabetes, 2005, 54, 1640-1648.	0.3	333
75	Lipid Infusion Decreases the Expression of Nuclear Encoded Mitochondrial Genes and Increases the Expression of Extracellular Matrix Genes in Human Skeletal Muscle. Journal of Biological Chemistry, 2005, 280, 10290-10297.	1.6	217
76	Identification of Phosphorylation Sites in Insulin Receptor Substrate-1 by Hypothesis-Driven High-Performance Liquid Chromatographyâ^'Electrospray Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2005, 77, 5693-5699.	3.2	20
77	Effect of Pioglitazone on Circulating Adipocytokine Levels and Insulin Sensitivity in Type 2 Diabetic Patients. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 4312-4319.	1.8	217
78	Sustained Reduction in Plasma Free Fatty Acid Concentration Improves Insulin Action without Altering Plasma Adipocytokine Levels in Subjects with Strong Family History of Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 4649-4655.	1.8	96
79	Ceramide Content Is Increased in Skeletal Muscle From Obese Insulin-Resistant Humans. Diabetes, 2004, 53, 25-31.	0.3	585
80	Glycogen Synthase: Key Effect of Exercise on Insulin Action. Exercise and Sport Sciences Reviews, 2004, 32, 90-94.	1.6	27
81	Role of the Adipocyte, Free Fatty Acids, and Ectopic Fat in Pathogenesis of Type 2 Diabetes Mellitus: Peroxisomal Proliferator-Activated Receptor Agonists Provide a Rational Therapeutic Approach. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 463-478.	1.8	570
82	Exercise training increases glycogen synthase activity and GLUT4 expression but not insulin signaling in overweight nondiabetic and type 2 diabetic subjects. Metabolism: Clinical and Experimental, 2004, 53, 1233-1242.	1.5	168
83	Coordinated reduction of genes of oxidative metabolism in humans with insulin resistance and diabetes: Potential role ofPGC1andNRF1. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8466-8471.	3.3	1,800
84	Rosiglitazone Improves Downstream Insulin Receptor Signaling in Type 2 Diabetic Patients. Diabetes, 2003, 52, 1943-1950.	0.3	128
85	A Sustained Increase in Plasma Free Fatty Acids Impairs Insulin Secretion in Nondiabetic Subjects Genetically Predisposed to Develop Type 2 Diabetes. Diabetes, 2003, 52, 2461-2474.	0.3	447
86	Increased insulin receptor signaling and glycogen synthase activity contribute to the synergistic effect of exercise on insulin action. Journal of Applied Physiology, 2003, 95, 2519-2529.	1.2	43
87	Effect of Pioglitazone on Abdominal Fat Distribution and Insulin Sensitivity in Type 2 Diabetic Patients. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 2784-2791.	1.8	629
88	Free Fatty Acids Reduce Splanchnic and Peripheral Glucose Uptake in Patients With Type 2 Diabetes. Diabetes, 2002, 51, 3043-3048.	0.3	44
89	Exercise training improves muscle insulin resistance but not insulin receptor signaling in obese Zucker rats. Journal of Applied Physiology, 2002, 92, 736-744.	1.2	75
90	Normalization of Plasma Glucose Concentration by Insulin Therapy Improves Insulin-Stimulated Glycogen Synthesis in Type 2 Diabetes. Diabetes, 2002, 51, 462-468.	0.3	109

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91	Exercise training increases ERK2 activity in skeletal muscle of obese Zucker rats. Journal of Applied Physiology, 2001, 90, 454-460.	1.2	25
92	Insulin resistance differentially affects the PI 3-kinaseâ€“ and MAP kinaseâ€“mediated signaling in human muscle. Journal of Clinical Investigation, 2000, 105, 311-320.	3.9	953
93	Regulation of hexokinase II expression in human skeletal muscle in vivo. Metabolism: Clinical and Experimental, 2000, 49, 814-818.	1.5	35
94	Synergistic interaction of magnesium and vanadate on glucose metabolism in diabetic rats. Metabolism: Clinical and Experimental, 1999, 48, 725-731.	1.5	28
95	Effects of exercise and insulin on insulin signaling proteins in human skeletal muscle. Medicine and Science in Sports and Exercise, 1999, 31, 998-1004.	0.2	41
96	Cloning, chromosome localization, expression, and characterization of an Src homology 2 and pleckstrin homology domain-containing insulin receptor binding protein hGrb10Î³.. Journal of Biological Chemistry, 1998, 273, 4288.	1.6	0
97	Regulation of Fibronectin and Laminin Synthesis by Retinal Capillary Endothelial Cells and Pericytes In Vitro. Experimental Eye Research, 1993, 57, 609-621.	1.2	103
98	Skeletal muscle is a major site of lactate uptake and release during hyperinsulinemia. Metabolism: Clinical and Experimental, 1992, 41, 176-179.	1.5	37
99	Fasting Hyperglycemia Normalizes Oxidative and Nonoxidative Pathways of Insulin-Stimulated Glucose Metabolism in Noninsulin-Dependent Diabetes Mellitus*. Journal of Clinical Endocrinology and Metabolism, 1990, 71, 1544-1551.	1.8	36
100	Quantification of the relative impairment in actions of insulin on hepatic glucose production and peripheral glucose uptake in non-insulin-dependent diabetes mellitus. Metabolism: Clinical and Experimental, 1988, 37, 15-21.	1.5	241
101	Glycogen synthase kinetics in isolated human adipocytes: An in vitro model for the effects of insulin on glycogen synthase. Biochemical Medicine and Metabolic Biology, 1987, 38, 265-271.	0.7	1
102	Mechanism of Hyperglycemia and Response to Treatment with an Inhibitor of Fatty Acid Oxidation in a Patient with Insulin Resistance due to Antiinsulin Receptor Antibodies*. Journal of Clinical Endocrinology and Metabolism, 1984, 59, 658-664.	1.8	42
103	A super active cyclic hexapeptide analog of somatostatin. Life Sciences, 1984, 34, 1371-1378.	2.0	153
104	Cortisol-Induced Insulin Resistance in Man: Impaired Suppression of Glucose Production and Stimulation of Glucose Utilization due to a Postreceptor Defect of Insulin Action*. Journal of Clinical Endocrinology and Metabolism, 1982, 54, 131-138.	1.8	650
105	Mechanisms of insulin resistance in man. American Journal of Medicine, 1981, 70, 169-176.	0.6	90
106	Selective effects of somatostatin-14, -25 and -28 on in vitro insulin and glucagon secretion. Nature, 1981, 291, 76-77.	13.7	208