

Randall L Mynatt

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,030
citations

117625

34
h-index

71685

76
g-index

81
all docs

81
docs citations

81
times ranked

11289
citing authors

#	ARTICLE	IF	CITATIONS
1	The NLRP3 inflammasome instigates obesity-induced inflammation and insulin resistance. <i>Nature Medicine</i> , 2011, 17, 179-188.	30.7	2,120
2	A High-Fat Diet Coordinately Downregulates Genes Required for Mitochondrial Oxidative Phosphorylation in Skeletal Muscle. <i>Diabetes</i> , 2005, 54, 1926-1933.	0.6	534
3	Characterization of Peripheral Circadian Clocks in Adipose Tissues. <i>Diabetes</i> , 2006, 55, 962-970.	0.6	443
4	Obesity Increases the Production of Proinflammatory Mediators from Adipose Tissue T Cells and Compromises TCR Repertoire Diversity: Implications for Systemic Inflammation and Insulin Resistance. <i>Journal of Immunology</i> , 2010, 185, 1836-1845.	0.8	381
5	Identification of Adropin as a Secreted Factor Linking Dietary Macronutrient Intake with Energy Homeostasis and Lipid Metabolism. <i>Cell Metabolism</i> , 2008, 8, 468-481.	16.2	369
6	Muscle-Specific Deletion of Carnitine Acetyltransferase Compromises Glucose Tolerance and Metabolic Flexibility. <i>Cell Metabolism</i> , 2012, 15, 764-777.	16.2	307
7	Human Mesenchymal Stem Cells as an in Vitro Model for Human Adipogenesis. <i>Obesity</i> , 2003, 11, 65-74.	4.0	239
8	Adropin Deficiency Is Associated With Increased Adiposity and Insulin Resistance. <i>Obesity</i> , 2012, 20, 1394-1402.	3.0	198
9	The Role of the <i>agouti</i> Gene in the Yellow Obese Syndrome. <i>Journal of Nutrition</i> , 1997, 127, 1902S-1907S.	2.9	143
10	Circadian Clocks Are Resounding in Peripheral Tissues. <i>PLoS Computational Biology</i> , 2006, 2, e16.	3.2	117
11	Carnitine revisited: potential use as adjunctive treatment in diabetes. <i>Diabetologia</i> , 2007, 50, 824-832.	6.3	99
12	Impaired mitochondrial fat oxidation induces adaptive remodeling of muscle metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3300-9.	7.1	96
13	Impaired Coordination of Nutrient Intake and Substrate Oxidation in Melanocortin-4 Receptor Knockout Mice. <i>Endocrinology</i> , 2004, 145, 243-252.	2.8	94
14	The effects of calcium channel blockade on <i>agouti</i> -induced obesity. <i>FASEB Journal</i> , 1996, 10, 1646-1652.	0.5	85
15	Inactivation of the Mitochondrial Carrier SLC25A25 (ATP-Mg ²⁺ /Pi Transporter) Reduces Physical Endurance and Metabolic Efficiency in Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 11659-11671.	3.4	80
16	Impaired Mitochondrial Fat Oxidation Induces FGF21 in Muscle. <i>Cell Reports</i> , 2016, 15, 1686-1699.	6.4	76
17	<i>Agouti</i> Expression in Human Adipose Tissue: Functional Consequences and Increased Expression in Type 2 Diabetes. <i>Diabetes</i> , 2003, 52, 2914-2922.	0.6	74
18	Targeted deletion of melanocortin receptor subtypes 3 and 4, but not CART, alters nutrient partitioning and compromises behavioral and metabolic responses to leptin. <i>FASEB Journal</i> , 2005, 19, 1482-1491.	0.5	72

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19	UCP1 is an essential mediator of the effects of methionine restriction on energy balance but not insulin sensitivity. <i>FASEB Journal</i> , 2015, 29, 2603-2615.	0.5	68
20	Mesenchymal stem cells from the outer ear: a novel adult stem cell model system for the study of adipogenesis. <i>FASEB Journal</i> , 2005, 19, 1205-1207.	0.5	65
21	Induction of Circadian Gene Expression in Human Subcutaneous Adipose-derived Stem Cells. <i>Obesity</i> , 2007, 15, 2560-2570.	3.0	62
22	The Regulation and Activation of Ciliary Neurotrophic Factor Signaling Proteins in Adipocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 2228-2235.	3.4	61
23	Effects of Cardiotrophin on Adipocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 47572-47579.	3.4	55
24	Genetic Dissection of the Functions of the Melanocortin-3 Receptor, a Seven-transmembrane G-protein-coupled Receptor, Suggests Roles for Central and Peripheral Receptors in Energy Homeostasis. <i>Journal of Biological Chemistry</i> , 2011, 286, 40771-40781.	3.4	53
25	Circadian Rhythms and the Regulation of Metabolic Tissue Function and Energy Homeostasis. <i>Obesity</i> , 2007, 15, 539-543.	3.0	52
26	Agouti regulates adipocyte transcription factors. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C954-C961.	4.6	47
27	Downregulation of Carnitine Acyl-Carnitine Translocase by miRNAs 132 and 212 Amplifies Glucose-Stimulated Insulin Secretion. <i>Diabetes</i> , 2014, 63, 3805-3814.	0.6	45
28	Pancreatic deletion of the interleukin-1 receptor disrupts whole body glucose homeostasis and promotes islet β -cell de-differentiation. <i>Molecular Metabolism</i> , 2018, 14, 95-107.	6.5	45
29	Examination of carnitine palmitoyltransferase 1 abundance in white adipose tissue: implications in obesity research. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R816-R820.	1.8	44
30	Macronutrient Diet Intake of the Lethal Yellow Agouti (Ay/a) Mouse. <i>Physiology and Behavior</i> , 1999, 67, 809-812.	2.1	43
31	Carnitine and type 2 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2009, 25, S45-9.	4.0	41
32	Regulation of leptin by agouti. <i>Physiological Genomics</i> , 2000, 2, 101-105.	2.3	39
33	Skeletal muscle overexpression of nicotinamide phosphoribosyl transferase in mice coupled with voluntary exercise augments exercise endurance. <i>Molecular Metabolism</i> , 2018, 7, 1-11.	6.5	39
34	Overexpression of agouti protein and stress responsiveness in mice. <i>Physiology and Behavior</i> , 2001, 73, 599-608.	2.1	37
35	Cross-talk among gp130 Cytokines in Adipocytes. <i>Journal of Biological Chemistry</i> , 2005, 280, 33856-33863.	3.4	36
36	Hepatic carnitine palmitoyltransferase-I has two independent inhibitory binding sites for regulation of fatty acid oxidation. <i>Lipids and Lipid Metabolism</i> , 1994, 1212, 245-252.	2.6	34

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37	Metabolic sensing in AgRP neurons integrates homeostatic state with dopamine signalling in the striatum. <i>ELife</i> , 2022, 11, .	6.0	32
38	Loss of Oncostatin M Signaling in Adipocytes Induces Insulin Resistance and Adipose Tissue Inflammation in Vivo. <i>Journal of Biological Chemistry</i> , 2016, 291, 17066-17076.	3.4	31
39	Mitochondrial fat oxidation is essential for lipid-induced inflammation in skeletal muscle in mice. <i>Scientific Reports</i> , 2016, 6, 37941.	3.3	30
40	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. <i>Cell Reports</i> , 2018, 22, 1745-1759.	6.4	30
41	Proximal Tubular Cell-Specific Ablation of Carnitine Acetyltransferase Causes Tubular Disease and Secondary Glomerulosclerosis. <i>Diabetes</i> , 2019, 68, 819-831.	0.6	29
42	Myocardial carnitine palmitoyltransferase of the mitochondrial outer membrane is not altered by fasting. <i>Lipids and Lipid Metabolism</i> , 1992, 1128, 105-111.	2.6	28
43	Inactivation of adipose angiotensinogen reduces adipose tissue macrophages and increases metabolic activity. <i>Obesity</i> , 2016, 24, 359-367.	3.0	28
44	Fenugreek supplementation during high-fat feeding improves specific markers of metabolic health. <i>Scientific Reports</i> , 2017, 7, 12770.	3.3	27
45	Neurotrophin Attenuates Adipogenesis and Induces Insulin Resistance in Adipocytes. <i>Journal of Biological Chemistry</i> , 2008, 283, 22505-22512.	3.4	26
46	Artemisia scoparia Enhances Adipocyte Development and Endocrine Function In Vitro and Enhances Insulin Action In Vivo. <i>PLoS ONE</i> , 2014, 9, e98897.	2.5	26
47	Choline supplementation increases tissue concentrations of carnitine and lowers body fat in guinea pigs. <i>Journal of Nutritional Biochemistry</i> , 1998, 9, 464-470.	4.2	22
48	Extensive metabolic remodeling after limiting mitochondrial lipid burden is consistent with an improved metabolic health profile. <i>Journal of Biological Chemistry</i> , 2019, 294, 12313-12327.	3.4	22
49	Myeloid-specific deletion of NOX2 prevents the metabolic and neurologic consequences of high fat diet. <i>PLoS ONE</i> , 2017, 12, e0181500.	2.5	21
50	The ubiquitin ligase Siah2 regulates obesity-induced adipose tissue inflammation. <i>Obesity</i> , 2015, 23, 2223-2232.	3.0	20
51	High-fat/low-carbohydrate diets regulate glucose metabolism via a long-term transcriptional loop. <i>Metabolism: Clinical and Experimental</i> , 2006, 55, 1457-1463.	3.4	17
52	Membrane microenvironment regulation of carnitine palmitoyltransferases I and II. <i>Biochemical Society Transactions</i> , 2011, 39, 833-837.	3.4	17
53	Carnitine acetyltransferase (Crat) in hunger-sensing AgRP neurons permits adaptation to calorie restriction. <i>FASEB Journal</i> , 2018, 32, 6923-6933.	0.5	16
54	Regulation of PPAR β and Obesity by Agouti/Melanocortin Signaling in Adipocytes. <i>Annals of the New York Academy of Sciences</i> , 2003, 994, 141-146.	3.8	15

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55	Growth hormone, but not insulin, activates STAT5 proteins in adipocytes in vitro and in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2003, 302, 359-362.	2.1	15
56	The RNA binding protein HuR influences skeletal muscle metabolic flexibility in rodents and humans. <i>Metabolism: Clinical and Experimental</i> , 2019, 97, 40-49.	3.4	15
57	Diet-induced adipose tissue expansion is mitigated in mice with a targeted inactivation of mesoderm specific transcript (Mest). <i>PLoS ONE</i> , 2017, 12, e0179879.	2.5	14
58	Short chain acyl-CoA dehydrogenase deficiency and short-term high-fat diet perturb mitochondrial energy metabolism and transcriptional control of lipid-handling in liver. <i>Nutrition and Metabolism</i> , 2016, 13, 17.	3.0	13
59	Leptin responsiveness in mice that ectopically express agouti protein. <i>Physiology and Behavior</i> , 2002, 75, 159-167.	2.1	11
60	Liver-specific expression of the agouti gene in transgenic mice promotes liver carcinogenesis in the absence of obesity and diabetes. <i>Molecular Cancer</i> , 2004, 3, 17.	19.2	11
61	NT-PGC-1 β deficiency decreases mitochondrial FA oxidation in brown adipose tissue and alters substrate utilization in vivo. <i>Journal of Lipid Research</i> , 2018, 59, 1660-1670.	4.2	11
62	Brain RNA expression in obese vs lean mice after LPS-induced systemic inflammation. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 2686.	3.0	10
63	Selective overexpression of Toll-like receptor-4 in skeletal muscle impairs metabolic adaptation to high-fat feeding. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R304-R313.	1.8	10
64	Adipose Tissue Dysfunction Occurs Independently of Obesity in Adipocyte-Specific Oncostatin Receptor Knockout Mice. <i>Obesity</i> , 2018, 26, 1439-1447.	3.0	10
65	Brain Transcriptional Responses to High-Fat Diet in Acad3-Deficient Mice Reveal Energy Sensing Pathways. <i>PLoS ONE</i> , 2012, 7, e41709.	2.5	9
66	Artemisia supplementation differentially affects the mucosal and luminal ileal microbiota of diet-induced obese mice. <i>Nutrition</i> , 2014, 30, S26-S30.	2.4	9
67	A low fat diet ameliorates pathology but retains beneficial effects associated with CPT1b knockout in skeletal muscle. <i>PLoS ONE</i> , 2017, 12, e0188850.	2.5	9
68	An Extract of Russian Tarragon Prevents Obesity-Related Ectopic Lipid Accumulation. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1700856.	3.3	9
69	Carnitine Acetyltransferase in AgRP Neurons Is Required for the Homeostatic Adaptation to Restricted Feeding in Male Mice. <i>Endocrinology</i> , 2018, 159, 2473-2483.	2.8	8
70	Pancreatic, but not myeloid-cell, expression of interleukin-1alpha is required for maintenance of insulin secretion and whole body glucose homeostasis. <i>Molecular Metabolism</i> , 2021, 44, 101140.	6.5	8
71	Differential RNA expression of hepatic tissue in lean and obese mice after LPS-induced systemic inflammation. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 1828.	3.0	6
72	Muscle-Specific Deletion of Toll-like Receptor 4 Impairs Metabolic Adaptation to Wheel Running in Mice. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 1161-1169.	0.4	6

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73	St. John's Wort Has Metabolically Favorable Effects on Adipocytes <i>In Vivo</i> . Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-8.	1.2	5
74	Modulation of the malonyl-CoA sensitivity of hepatic carnitine palmitoyltransferase (CPT) by phospholipids. Biochemical Society Transactions, 1994, 22, 113S-113S.	3.4	4
75	A genetic screen identifies Crat as a regulator of pancreatic beta-cell insulin secretion. Molecular Metabolism, 2020, 37, 100993.	6.5	4
76	Female Mice Are Protected from Metabolic Decline Associated with Lack of Skeletal Muscle HuR. Biology, 2021, 10, 543.	2.8	1
77	Hepatic IKK μ expression is dispensable for high-fat feeding-induced increases in liver lipid content and alterations in glucose tolerance. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E11-E21.	3.5	0
78	High fat diet-induced muscle insulin resistance: role of cytokines and local macrophages. FASEB Journal, 2012, 26, 364.5.	0.5	0