

Paul S Maclean

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2933073/publications.pdf>

Version: 2024-02-01

108
papers

6,101
citations

61984

43
h-index

74163

75
g-index

111
all docs

111
docs citations

111
times ranked

8780
citing authors

#	ARTICLE	IF	CITATIONS
1	NIH working group report: Innovative research to improve maintenance of weight loss. <i>Obesity</i> , 2015, 23, 7-15.	3.0	405
2	Fatty Acid Homeostasis and Induction of Lipid Regulatory Genes in Skeletal Muscles of Peroxisome Proliferator-activated Receptor (PPAR) $\hat{\pm}$ Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2002, 277, 26089-26097.	3.4	360
3	Biology's response to dieting: the impetus for weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R581-R600.	1.8	348
4	Regulation of muscle GLUT-4 transcription by AMP-activated protein kinase. <i>Journal of Applied Physiology</i> , 2001, 91, 1073-1083.	2.5	255
5	High-fat and high-sucrose (western) diet induces steatohepatitis that is dependent on fructokinase. <i>Hepatology</i> , 2013, 58, 1632-1643.	7.3	249
6	Opposing effects of fructokinase C and A isoforms on fructose-induced metabolic syndrome in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4320-4325.	7.1	230
7	A randomized pilot study comparing zero-calorie alternate-day fasting to daily caloric restriction in adults with obesity. <i>Obesity</i> , 2016, 24, 1874-1883.	3.0	214
8	High salt intake causes leptin resistance and obesity in mice by stimulating endogenous fructose production and metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3138-3143.	7.1	183
9	Perilipin-2-null mice are protected against diet-induced obesity, adipose inflammation, and fatty liver disease. <i>Journal of Lipid Research</i> , 2013, 54, 1346-1359.	4.2	176
10	C/EBP $\hat{\pm}$ Regulates Human Adiponectin Gene Transcription Through an Intronic Enhancer. <i>Diabetes</i> , 2005, 54, 1744-1754.	0.6	145
11	Enhanced metabolic efficiency contributes to weight regain after weight loss in obesity-prone rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R1306-R1315.	1.8	132
12	The Accumulating Data to Optimally Predict Obesity Treatment (ADOPT) Core Measures Project: Rationale and Approach. <i>Obesity</i> , 2018, 26, S6-S15.	3.0	124
13	Intracellular localization of diacylglycerols and sphingolipids influences insulin sensitivity and mitochondrial function in human skeletal muscle. <i>JCI Insight</i> , 2018, 3, .	5.0	119
14	Peripheral metabolic responses to prolonged weight reduction that promote rapid, efficient regain in obesity-prone rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1577-R1588.	1.8	114
15	Different Risk for Hypertension, Diabetes, Dyslipidemia, and Hyperuricemia According to Level of Body Mass Index in Japanese and American Subjects. <i>Nutrients</i> , 2018, 10, 1011.	4.1	113
16	Biological control of appetite: A daunting complexity. <i>Obesity</i> , 2017, 25, S8-S16.	3.0	94
17	Metabolic adjustments with the development, treatment, and recurrence of obesity in obesity-prone rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R288-R297.	1.8	85
18	Is regular exercise an effective strategy for weight loss maintenance?. <i>Physiology and Behavior</i> , 2018, 188, 86-93.	2.1	82

#	ARTICLE	IF	CITATIONS
19	Regulation of Skeletal Muscle Oxidative Capacity and Insulin Signaling by the Mitochondrial Rhomboid Protease PARL. <i>Cell Metabolism</i> , 2010, 11, 412-426.	16.2	81
20	Effect of short-term exercise training on leptin and insulin action. <i>Metabolism: Clinical and Experimental</i> , 2000, 49, 858-861.	3.4	77
21	Weight regain after sustained weight reduction is accompanied by suppressed oxidation of dietary fat and adipocyte hyperplasia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1117-R1129.	1.8	75
22	Early infant adipose deposition is positively associated with the n-6 to n-3 fatty acid ratio in human milk independent of maternal BMI. <i>International Journal of Obesity</i> , 2017, 41, 510-517.	3.4	75
23	Adaptations of leptin, ghrelin or insulin during weight loss as predictors of weight regain: a review of current literature. <i>International Journal of Obesity</i> , 2014, 38, 388-396.	3.4	73
24	Exercise-Induced Transcription of the Muscle Glucose Transporter (GLUT 4) Gene. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 409-414.	2.1	69
25	Regular exercise attenuates the metabolic drive to regain weight after long-term weight loss. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R793-R802.	1.8	64
26	Exercise Improves Fat Metabolism in Muscle But Does Not Increase 24-h Fat Oxidation. <i>Exercise and Sport Sciences Reviews</i> , 2009, 37, 93-101.	3.0	64
27	Dynamic Regulation of Hepatic Lipid Droplet Properties by Diet. <i>PLoS ONE</i> , 2013, 8, e67631.	2.5	62
28	Trafficking of dietary fat in obesity-prone and obesity-resistant rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E1083-E1091.	3.5	60
29	Obesity: lessons from evolution and the environment. <i>Obesity Reviews</i> , 2012, 13, 910-922.	6.5	59
30	Intrinsic aerobic capacity impacts susceptibility to acute high-fat diet-induced hepatic steatosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E355-E364.	3.5	58
31	Obesity and Overfeeding Affecting Both Tumor and Systemic Metabolism Activates the Progesterone Receptor to Contribute to Postmenopausal Breast Cancer. <i>Cancer Research</i> , 2012, 72, 6490-6501.	0.9	54
32	Modeling Diet-Induced Obesity with Obesity-Prone Rats: Implications for Studies in Females. <i>Frontiers in Nutrition</i> , 2016, 3, 50.	3.7	53
33	Effect of fasting and refeeding on acetyl-CoA carboxylase in rat hindlimb muscle. <i>Journal of Applied Physiology</i> , 1995, 78, 578-582.	2.5	51
34	Physical Activity Energy Expenditure and Total Daily Energy Expenditure in Successful Weight Loss Maintainers. <i>Obesity</i> , 2019, 27, 496-504.	3.0	51
35	Cholesteryl Ester Transfer Protein Expression Prevents Diet-Induced Atherosclerotic Lesions in Male db/db Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 1412-1415.	2.4	48
36	Knocking Down Liver CCAAT/Enhancer-Binding Protein β by Adenovirus-Transduced Silent Interfering Ribonucleic Acid Improves Hepatic Gluconeogenesis and Lipid Homeostasis in db/db Mice. <i>Endocrinology</i> , 2006, 147, 3060-3069.	2.8	48

#	ARTICLE	IF	CITATIONS
37	Impact of High-Fat Diet and Obesity on Energy Balance and Fuel Utilization During the Metabolic Challenge of Lactation. <i>Obesity</i> , 2012, 20, 65-75.	3.0	48
38	Attenuated <i>Pik3r1</i> Expression Prevents Insulin Resistance and Adipose Tissue Macrophage Accumulation in Diet-Induced Obese Mice. <i>Diabetes</i> , 2012, 61, 2495-2505.	0.6	47
39	The insulin receptor plays an important role in secretory differentiation in the mammary gland. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E1103-E1114.	3.5	47
40	Energy expenditure in obesity-prone and obesity-resistant rats before and after the introduction of a high-fat diet. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1097-R1105.	1.8	46
41	Role of fructose and fructokinase in acute dehydration-induced vasopressin gene expression and secretion in mice. <i>Journal of Neurophysiology</i> , 2017, 117, 646-654.	1.8	44
42	When energy balance is maintained, exercise does not induce negative fat balance in lean sedentary, obese sedentary, or lean endurance-trained individuals. <i>Journal of Applied Physiology</i> , 2009, 107, 1847-1856.	2.5	43
43	Perilipin-2 Modulates Lipid Absorption and Microbiome Responses in the Mouse Intestine. <i>PLoS ONE</i> , 2015, 10, e0131944.	2.5	43
44	Effect of the estrous cycle and surgical ovariectomy on energy balance, fuel utilization, and physical activity in lean and obese female rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1634-R1642.	1.8	42
45	Metformin inhibits stromal aromatase expression and tumor progression in a rodent model of postmenopausal breast cancer. <i>Breast Cancer Research</i> , 2018, 20, 50.	5.0	39
46	Lipoprotein Subpopulation Distributions in Lean, Obese, and Type 2 Diabetic Women: A Comparison of African and White Americans. <i>Obesity</i> , 2000, 8, 62-70.	4.0	38
47	Resistant starch and exercise independently attenuate weight regain on a high fat diet in a rat model of obesity. <i>Nutrition and Metabolism</i> , 2011, 8, 49.	3.0	38
48	Reduced hepatic mitochondrial respiration following acute high-fat diet is prevented by PGC-1 α overexpression. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, G868-G880.	3.4	38
49	Metformin Accumulation Correlates with Organic Cation Transporter 2 Protein Expression and Predicts Mammary Tumor Regression <i>In Vivo</i> . <i>Cancer Prevention Research</i> , 2017, 10, 198-207.	1.5	37
50	Maternal obesity during lactation may protect offspring from high fat diet-induced metabolic dysfunction. <i>Nutrition and Diabetes</i> , 2018, 8, 18.	3.2	36
51	FGFR1 underlies obesity-associated progression of estrogen receptor-positive breast cancer after estrogen deprivation. <i>JCI Insight</i> , 2018, 3, .	5.0	34
52	Maternal Obesity Reduces Milk Lipid Production in Lactating Mice by Inhibiting Acetyl-CoA Carboxylase and Impairing Fatty Acid Synthesis. <i>PLoS ONE</i> , 2014, 9, e98066.	2.5	34
53	Exercise reduces appetite and traffics excess nutrients away from energetically efficient pathways of lipid deposition during the early stages of weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R656-R667.	1.8	33
54	Low Neonatal Plasma n-6/n-3 PUFA Ratios Regulate Offspring Adipogenic Potential and Condition Adult Obesity Resistance. <i>Diabetes</i> , 2018, 67, 651-661.	0.6	33

#	ARTICLE	IF	CITATIONS
55	Single Cell RNA Sequencing of Human Milk-Derived Cells Reveals Sub-Populations of Mammary Epithelial Cells with Molecular Signatures of Progenitor and Mature States: a Novel, Non-invasive Framework for Investigating Human Lactation Physiology. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2020, 25, 367-387.	2.7	33
56	Vasopressin mediates fructose-induced metabolic syndrome by activating the V1b receptor. <i>JCI Insight</i> , 2021, 6, .	5.0	32
57	Skeletal Muscle Sterol Regulatory Element Binding Protein-1c Decreases with Food Deprivation and Increases with Feeding in Rats. <i>Journal of Nutrition</i> , 2003, 133, 1787-1792.	2.9	31
58	Increasing Dietary Fat Elicits Similar Changes in Fat Oxidation and Markers of Muscle Oxidative Capacity in Lean and Obese Humans. <i>PLoS ONE</i> , 2012, 7, e30164.	2.5	30
59	Obesity-Related Pulmonary Arterial Hypertension in Rats Correlates with Increased Circulating Inflammatory Cytokines and Lipids and with Oxidant Damage in the Arterial Wall but not with Hypoxia. <i>Pulmonary Circulation</i> , 2014, 4, 638-653.	1.7	26
60	Lactation and its Hormonal Control. , 2015, , 2055-2105.		25
61	Impact of insulin resistance on lipoprotein subpopulation distribution in lean and morbidly obese nondiabetic women. <i>Metabolism: Clinical and Experimental</i> , 2000, 49, 285-292.	3.4	24
62	Suppression of Hepatic Cholesteryl Ester Transfer Protein Expression in Obese Humans with the Development of Type 2 Diabetes Mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 2250-2258.	3.6	24
63	A Surprising Link Between the Energetics of Ovariectomy-Induced Weight Gain and Mammary Tumor Progression in Obese Rats. <i>Obesity</i> , 2010, 18, 696-703.	3.0	23
64	Exercise Decreases Lipogenic Gene Expression in Adipose Tissue and Alters Adipocyte Cellularity during Weight Regain After Weight Loss. <i>Frontiers in Physiology</i> , 2016, 7, 32.	2.8	23
65	Accumulating Data to Optimally Predict Obesity Treatment (ADOPT): Recommendations from the Biological Domain. <i>Obesity</i> , 2018, 26, S25-S34.	3.0	23
66	The Gut Microbiota during a Behavioral Weight Loss Intervention. <i>Nutrients</i> , 2021, 13, 3248.	4.1	23
67	Increased thermoregulation in cold-exposed transgenic mice overexpressing lipoprotein lipase in skeletal muscle: an avian phenotype?. <i>Journal of Lipid Research</i> , 2008, 49, 870-879.	4.2	21
68	Effects of oral combined hormone replacement therapy on plasma lipids and lipoproteins. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 1222-1226.	3.4	18
69	Increased aerobic capacity reduces susceptibility to acute high-fat diet-induced weight gain. <i>Obesity</i> , 2016, 24, 1929-1937.	3.0	17
70	No consistent evidence of a disproportionately low resting energy expenditure in long-term successful weight-loss maintainers. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 658-666.	4.7	17
71	Weight loss and cystic disease progression in autosomal dominant polycystic kidney disease. <i>IScience</i> , 2022, 25, 103697.	4.1	16
72	Compensatory eating behaviors in male and female rats in response to exercise training. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R171-R183.	1.8	15

#	ARTICLE	IF	CITATIONS
73	Plasma cholesteryl ester transfer protein activity is not linked to insulin sensitivity. <i>Metabolism: Clinical and Experimental</i> , 2001, 50, 783-788.	3.4	14
74	N-acetyl-4-aminophenol and musculoskeletal adaptations to resistance exercise training. <i>European Journal of Applied Physiology</i> , 2013, 113, 1127-1136.	2.5	14
75	The Androgen Receptor Supports Tumor Progression After the Loss of Ovarian Function in a Preclinical Model of Obesity and Breast Cancer. <i>Hormones and Cancer</i> , 2017, 8, 269-285.	4.9	14
76	Sex differences in the effect of diet, obesity, and exercise on bone quality and fracture toughness. <i>Bone</i> , 2021, 145, 115840.	2.9	14
77	Breast Cancer Endocrine Therapy Promotes Weight Gain With Distinct Adipose Tissue Effects in Lean and Obese Female Mice. <i>Endocrinology</i> , 2021, 162, .	2.8	14
78	Role of female sex steroids in regulating cholesteryl ester transfer protein in transgenic mice. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 1048-1051.	3.4	13
79	The In Vivo Net Energy Content of Resistant Starch and Its Effect on Macronutrient Oxidation in Healthy Adults. <i>Nutrients</i> , 2019, 11, 2484.	4.1	13
80	Human Milk Fatty Acid Composition: Comparison of Novel Dried Milk Spot Versus Standard Liquid Extraction Methods. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2016, 21, 131-138.	2.7	12
81	The "metabolic sensor" function of rat supraoptic oxytocin and vasopressin neurons is attenuated during lactation but not in diet-induced obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R337-R345.	1.8	12
82	Kynurenic Acid Protects Against Ischemia/Reperfusion-Induced Retinal Ganglion Cell Death in Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1795.	4.1	11
83	Lipoprotein metabolism in non-insulin-dependent diabetes mellitus. <i>Journal of Nutritional Biochemistry</i> , 1996, 7, 586-598.	4.2	10
84	Increased Physical Activity Not Decreased Energy Intake Is Associated with Inpatient Medical Treatment for Anorexia Nervosa in Adolescent Females. <i>PLoS ONE</i> , 2013, 8, e61559.	2.5	10
85	Multiomic Predictors of Short-Term Weight Loss and Clinical Outcomes During a Behavioral-Based Weight Loss Intervention. <i>Obesity</i> , 2021, 29, 859-869.	3.0	9
86	A peripheral perspective of weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R1447-R1449.	1.8	8
87	Compensatory response to reducing body weight. <i>Drug Discovery Today Disease Mechanisms</i> , 2005, 2, 313-319.	0.8	8
88	Prior weight loss exacerbates the biological drive to gain weight after the loss of ovarian function. <i>Physiological Reports</i> , 2017, 5, e13272.	1.7	8
89	Impact of Exercise and Activity on Weight Regain and Musculoskeletal Health Post-Ovariectomy. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 2465-2473.	0.4	8
90	Differential expression of cholesteryl ester transfer protein in the liver and plasma of fasted and fed transgenic mice. <i>Journal of Nutritional Biochemistry</i> , 2000, 11, 318-325.	4.2	7

#	ARTICLE	IF	CITATIONS
91	Ibuprofen before Exercise Does Not Prevent Cortical Bone Adaptations to Training. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 888-895.	0.4	7
92	Compensation for cold-induced thermogenesis during weight loss maintenance and regain. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E977-E986.	3.5	7
93	Role of epinephrine during insulin-induced hypoglycemia in fasted rats. <i>Journal of Applied Physiology</i> , 1994, 77, 270-276.	2.5	6
94	Weight restoration on a high carbohydrate refeeding diet promotes rapid weight regain and hepatic lipid accumulation in female anorexic rats. <i>Nutrition and Metabolism</i> , 2016, 13, 18.	3.0	6
95	Liver X receptor- β activation enhances cholesterol secretion in lactating mammary epithelium. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E1136-E1145.	3.5	6
96	Weight and body composition changes affect resting energy expenditure predictive equations during a 12-month weight-loss intervention. <i>Obesity</i> , 2021, 29, 1596-1605.	3.0	6
97	Estrogens and Progestins Cooperatively Shift Breast Cancer Cell Metabolism. <i>Cancers</i> , 2022, 14, 1776.	3.7	6
98	Preventing ovariectomy-induced weight gain decreases tumor burden in rodent models of obesity and postmenopausal breast cancer. <i>Breast Cancer Research</i> , 2022, 24, .	5.0	6
99	Regular exercise potentiates energetically expensive hepatic de novo lipogenesis during early weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R684-R695.	1.8	5
100	Insulin does not regulate the promoter of cholesteryl ester transfer protein (CETP) in HIRc/pCETP-CAT cells. , 2000, 211, 1-7.		4
101	Short-Term Adaptations in Skeletal Muscle Mitochondrial Oxidative Capacity and Metabolic Pathways to Breaking up Sedentary Behaviors in Overweight or Obese Adults. <i>Nutrients</i> , 2022, 14, 454.	4.1	4
102	Lipoprotein Lipase Overexpression in Skeletal Muscle Attenuates Weight Regain by Potentiating Energy Expenditure. <i>Diabetes</i> , 2021, 70, 867-877.	0.6	3
103	Comment on: Kaiyala et al. (2010) Identification of Body Fat Mass as a Major Determinant of Metabolic Rate in Mice. <i>Diabetes</i> ;59:1657-1666. <i>Diabetes</i> , 2011, 60, e3-e3.	0.6	2
104	Hematopoietic Stem Cell-Derived Adipocytes Modulate Adipose Tissue Cellularity, Leptin Production and Insulin Responsiveness in Female Mice. <i>Frontiers in Endocrinology</i> , 2022, 13, .	3.5	1
105	2536. <i>Journal of Clinical and Translational Science</i> , 2017, 1, 11-11.	0.6	0
106	Breast Cancer Endocrine Therapy Exhausts Adipocyte Progenitors Promoting Weight Gain and Glucose Intolerance. <i>Journal of the Endocrine Society</i> , 2021, 5, A41-A41.	0.2	0
107	Enhanced metabolic flexibility with long term weight reduction facilitates weight regain in obesity-prone rats. <i>FASEB Journal</i> , 2007, 21, .	0.5	0
108	Decreased adipocyte size and lipid of high aerobic capacity rats is associated with protection from steatosis following a 3-day high fat diet (711.10). <i>FASEB Journal</i> , 2014, 28, 711.10.	0.5	0