

# Lauren M Sparks

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

6,239  
citations

279798

23  
h-index

315739

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

10615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beige Adipocytes Are a Distinct Type of Thermogenic Fat Cell in Mouse and Human. <i>Cell</i> , 2012, 150, 366-376.	28.9	2,740
2	Effects of Aerobic and Resistance Training on Hemoglobin A <sub>1c</sub> Levels in Patients With Type 2 Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2010, 304, 2253.	7.4	727
3	Metabolic Flexibility in Health and Disease. <i>Cell Metabolism</i> , 2017, 25, 1027-1036.	16.2	586
4	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
5	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. <i>Cell Metabolism</i> , 2019, 29, 707-718.e8.	16.2	286
6	Precision exercise medicine: understanding exercise response variability. <i>British Journal of Sports Medicine</i> , 2019, 53, 1141-1153.	6.7	162
7	The lipid droplet coat protein perilipin 5 also localizes to muscle mitochondria. <i>Histochemistry and Cell Biology</i> , 2012, 137, 205-216.	1.7	136
8	Exercise training response heterogeneity: physiological and molecular insights. <i>Diabetologia</i> , 2017, 60, 2329-2336.	6.3	109
9	Nine Months of Combined Training Improves Ex Vivo Skeletal Muscle Metabolism in Individuals With Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 1694-1702.	3.6	104
10	Resistance training to improve type 2 diabetes: working toward a prescription for the future. <i>Nutrition and Metabolism</i> , 2017, 14, 24.	3.0	74
11	High Oxidative Capacity Due to Chronic Exercise Training Attenuates Lipid-Induced Insulin Resistance. <i>Diabetes</i> , 2012, 61, 2472-2478.	0.6	71
12	HDAC11 suppresses the thermogenic program of adipose tissue via BRD2. <i>JCI Insight</i> , 2018, 3, .	5.0	65
13	Adipose Tissue Quality in Aging: How Structural and Functional Aspects of Adipose Tissue Impact Skeletal Muscle Quality. <i>Nutrients</i> , 2019, 11, 2553.	4.1	55
14	Exercise training reduces intrahepatic lipid content in people with and people without nonalcoholic fatty liver. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E165-E173.	3.5	46
15	Remodeling Lipid Metabolism and Improving Insulin Responsiveness in Human Primary Myotubes. <i>PLoS ONE</i> , 2011, 6, e21068.	2.5	45
16	Relation of adipose tissue to metabolic flexibility. <i>Diabetes Research and Clinical Practice</i> , 2009, 83, 32-43.	2.8	41
17	Low Macrophage Accumulation in Skeletal Muscle of Obese Type 2 Diabetics and Elderly Subjects. <i>Obesity</i> , 2012, 20, 1530-1533.	3.0	41
18	Exercise Response Variations in Skeletal Muscle PCR Recovery Rate and Insulin Sensitivity Relate to Muscle Epigenomic Profiles in Individuals With Type 2 Diabetes. <i>Diabetes Care</i> , 2018, 41, 2245-2254.	8.6	41

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19	Increased Oxygen Consumption in Human Adipose Tissue From the "Brown Adipose Tissue" Region. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E1230-E1234.	3.6	34
20	A transcriptional signature of "exercise resistance" in skeletal muscle of individuals with type 2 diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 999-1004.	3.4	31
21	Active individuals have high mitochondrial content and oxidative markers in their abdominal subcutaneous adipose tissue. <i>Obesity</i> , 2016, 24, 2467-2470.	3.0	29
22	Palmitate-induced skeletal muscle insulin resistance does not require NF- $\kappa$ B activation. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 1215-1225.	5.4	27
23	Genetic Markers of Brown Adipose Tissue Identity and <i>In Vitro</i> Brown Adipose Tissue Activity in Humans. <i>Obesity</i> , 2018, 26, 135-140.	3.0	27
24	EFFECTS OF 12 MONTHS OF CALORIC RESTRICTION ON MUSCLE MITOCHONDRIAL FUNCTION IN HEALTHY INDIVIDUALS. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, jc.2016-3211.	3.6	26
25	Effect of adipose tissue on the sexual dimorphism in metabolic flexibility. <i>Metabolism: Clinical and Experimental</i> , 2009, 58, 1564-1571.	3.4	23
26	Pioglitazone-induced improvements in insulin sensitivity occur without concomitant changes in muscle mitochondrial function. <i>Metabolism: Clinical and Experimental</i> , 2017, 69, 24-32.	3.4	23
27	Impact of dietary fat quantity and quality on skeletal muscle fatty acid metabolism in subjects with the metabolic syndrome. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 1554-1565.	3.4	19
28	Transcriptional Metabolic Inflexibility in Skeletal Muscle Among Individuals With Increasing Insulin Resistance. <i>Obesity</i> , 2011, 19, 2158-2166.	3.0	18
29	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
30	Targeting White Adipose Tissue with Exercise or Bariatric Surgery as Therapeutic Strategies in Obesity. <i>Biology</i> , 2019, 8, 16.	2.8	16
31	The Metabolic Significance of Intermuscular Adipose Tissue: Is IMAT a Friend or a Foe to Metabolic Health?. <i>Diabetes</i> , 2021, 70, 2457-2467.	0.6	15
32	Prolonged Glucagon Infusion Does Not Affect Energy Expenditure in Individuals with Overweight/Obesity: A Randomized Trial. <i>Obesity</i> , 2021, 29, 1003-1013.	3.0	14
33	Skeletal muscle transcriptome response to a bout of endurance exercise in physically active and sedentary older adults. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E260-E277.	3.5	13
34	Elevated Nicotinamide Phosphoribosyl Transferase in Skeletal Muscle Augments Exercise Performance and Mitochondrial Respiratory Capacity Following Exercise Training. <i>Frontiers in Physiology</i> , 2018, 9, 704.	2.8	11
35	A Metabolomic Signature of Glucagon Action in Healthy Individuals With Overweight/Obesity. <i>Journal of the Endocrine Society</i> , 2021, 5, bvab118.	0.2	11
36	Twenty-four hour assessments of substrate oxidation reveal differences in metabolic flexibility in type 2 diabetes that are improved with aerobic training. <i>Diabetologia</i> , 2021, 64, 2322-2333.	6.3	8

#	ARTICLE	IF	CITATIONS
37	An improvement in skeletal muscle mitochondrial capacity with short-term aerobic training is associated with changes in Tribbles 1 expression. <i>Physiological Reports</i> , 2020, 8, e14416.	1.7	7
38	Differences in Mitochondrial Coupling Reveal a Novel Signature of Mitohormesis in Muscle of Healthy Individuals. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4994-5003.	3.6	6
39	Aerobic training increases mitochondrial respiratory capacity in human skeletal muscle stem cells from sedentary individuals. <i>American Journal of Physiology - Cell Physiology</i> , 0, , .	4.6	1