

Lee D Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,076
citations

304743

22
h-index

233421

45
g-index

54
all docs

54
docs citations

54
times ranked

6559
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolite Profiling Identifies Pathways Associated With Metabolic Risk in Humans. <i>Circulation</i> , 2012, 125, 2222-2231.	1.6	514
2	Î²-Aminoisobutyric Acid Induces Browning of White Fat and Hepatic Î²-Oxidation and Is Inversely Correlated with Cardiometabolic Risk Factors. <i>Cell Metabolism</i> , 2014, 19, 96-108.	16.2	489
3	Targeted Metabolomics. <i>Current Protocols in Molecular Biology</i> , 2012, 98, Unit 30.2.1-24.	2.9	402
4	Towards metabolic biomarkers of insulin resistance and type 2 diabetes: progress from the metabolome. <i>Lancet Diabetes and Endocrinology</i> , 2014, 2, 65-75.	11.4	227
5	Inorganic Nitrate Promotes the Browning of White Adipose Tissue Through the Nitrate-Nitrite-Nitric Oxide Pathway. <i>Diabetes</i> , 2015, 64, 471-484.	0.6	121
6	A matter of fat: An introduction to lipidomic profiling methods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 174-181.	2.3	115
7	The contrasting roles of PPAR ^{Î²} and PPAR ^{Î³} in regulating the metabolic switch between oxidation and storage of fats in white adipose tissue. <i>Genome Biology</i> , 2011, 12, R75.	9.6	85
8	Hepatic steatosis risk is partly driven by increased de novo lipogenesis following carbohydrate consumption. <i>Genome Biology</i> , 2018, 19, 79.	8.8	83
9	Brown and beige adipose tissue regulate systemic metabolism through a metabolite interorgan signaling axis. <i>Nature Communications</i> , 2021, 12, 1905.	12.8	82
10	Metabolic phenotyping of a model of adipocyte differentiation. <i>Physiological Genomics</i> , 2009, 39, 109-119.	2.3	78
11	Toward New Biomarkers of Cardiometabolic Diseases. <i>Cell Metabolism</i> , 2013, 18, 43-50.	16.2	75
12	PTPMT1 Inhibition Lowers Glucose through Succinate Dehydrogenase Phosphorylation. <i>Cell Reports</i> , 2015, 10, 694-701.	6.4	61
13	Dietary inorganic nitrate: From villain to hero in metabolic disease?. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 67-78.	3.3	59
14	KHS101 disrupts energy metabolism in human glioblastoma cells and reduces tumor growth in mice. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	54
15	Adipose tissue fatty acid chain length and mono-unsaturation increases with obesity and insulin resistance. <i>Scientific Reports</i> , 2015, 5, 18366.	3.3	50
16	Metabolomics and Lipidomics Study of Mouse Models of Type 1 Diabetes Highlights Divergent Metabolism in Purine and Tryptophan Metabolism Prior to Disease Onset. <i>Journal of Proteome Research</i> , 2018, 17, 946-960.	3.7	44
17	A role for vaccinia virus protein C16 in reprogramming cellular energy metabolism. <i>Journal of General Virology</i> , 2015, 96, 395-407.	2.9	41
18	Chemical and metabolomic screens identify novel biomarkers and antidotes for cyanide exposure. <i>FASEB Journal</i> , 2013, 27, 1928-1938.	0.5	38

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19	Nitrate enhances skeletal muscle fatty acid oxidation via a nitric oxide-cGMP-PPAR-mediated mechanism. <i>BMC Biology</i> , 2015, 13, 110.	3.8	37
20	Inorganic Nitrate Mimics Exercise-Stimulated Muscular Fiber-Type Switching and Myokine and β -Aminobutyric Acid Release. <i>Diabetes</i> , 2017, 66, 674-688.	0.6	35
21	Increased hepatic oxidative metabolism distinguishes the action of Peroxisome proliferator-activated receptor α from Peroxisome proliferator-activated receptor β in the ob/ob mouse. <i>Genome Medicine</i> , 2009, 1, 115.	8.2	32
22	Ice-Age Climate Adaptations Trap the Alpine Marmot in a State of Low Genetic Diversity. <i>Current Biology</i> , 2019, 29, 1712-1720.e7.	3.9	27
23	An In Vivo Zebrafish Screen Identifies Organophosphate Antidotes with Diverse Mechanisms of Action. <i>Journal of Biomolecular Screening</i> , 2013, 18, 108-115.	2.6	24
24	Does inorganic nitrate say NO to obesity by browning white adipose tissue?. <i>Adipocyte</i> , 2015, 4, 311-314.	2.8	24
25	Mechanistic insights revealed by lipid profiling in monogenic insulin resistance syndromes. <i>Genome Medicine</i> , 2015, 7, 63.	8.2	23
26	Endothelial Piezo1 sustains muscle capillary density and contributes to physical activity. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	23
27	PPAR-pan activation induces hepatic oxidative stress and lipidomic remodelling. <i>Free Radical Biology and Medicine</i> , 2016, 95, 357-368.	2.9	22
28	Long-chain ceramides are cell non-autonomous signals linking lipotoxicity to endoplasmic reticulum stress in skeletal muscle. <i>Nature Communications</i> , 2022, 13, 1748.	12.8	21
29	Chronic heart failure with diabetes mellitus is characterized by a severe skeletal muscle pathology. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 394-404.	7.3	20
30	Detergent-Free Simultaneous Sample Preparation Method for Proteomics and Metabolomics. <i>Journal of Proteome Research</i> , 2020, 19, 2838-2844.	3.7	16
31	Skeletal muscle atrophy in heart failure with diabetes: from molecular mechanisms to clinical evidence. <i>ESC Heart Failure</i> , 2021, 8, 3-15.	3.1	16
32	Kv1.3 voltage-gated potassium channels link cellular respiration to proliferation through a non-conducting mechanism. <i>Cell Death and Disease</i> , 2021, 12, 372.	6.3	16
33	Sexual dimorphism in adipose tissue mitochondrial function and metabolic flexibility in obesity. <i>International Journal of Obesity</i> , 2021, 45, 1773-1781.	3.4	16
34	Methods for Performing Lipidomics in White Adipose Tissue. <i>Methods in Enzymology</i> , 2014, 538, 211-231.	1.0	15
35	Divergent skeletal muscle mitochondrial phenotype between male and female patients with chronic heart failure. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 79-88.	7.3	15
36	A type III complement factor D deficiency: Structural insights for inhibition of the alternative pathway. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 311-314.e6.	2.9	13

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37	Relationship between postprandial metabolomics and colon motility in children with constipation. <i>Neurogastroenterology and Motility</i> , 2013, 25, 420.	3.0	12
38	Consequences of Lipid Remodeling of Adipocyte Membranes Being Functionally Distinct from Lipid Storage in Obesity. <i>Journal of Proteome Research</i> , 2020, 19, 3919-3935.	3.7	12
39	Unique Transcriptome Signature Distinguishes Patients With Heart Failure With Myopathy. <i>Journal of the American Heart Association</i> , 2020, 9, e017091.	3.7	11
40	Inorganic Nitrate Promotes Glucose Uptake and Oxidative Catabolism in White Adipose Tissue Through the XOR-Catalyzed Nitric Oxide Pathway. <i>Diabetes</i> , 2020, 69, 893-901.	0.6	8
41	Composition of receptor tyrosine kinase-mediated lipid micro-domains controlled by adaptor protein interaction. <i>Scientific Reports</i> , 2021, 11, 6160.	3.3	7
42	Endothelial IGF1 receptor mediates crosstalk with the gut wall to regulate microbiota in obesity. <i>EMBO Reports</i> , 2021, 22, e50767.	4.5	7
43	Quantifying the relationship and contribution of mitochondrial respiration to systemic exercise limitation in heart failure. <i>ESC Heart Failure</i> , 2021, 8, 898-907.	3.1	2
44	Metabolomics dataset of PPAR-pan treated rat liver. <i>Data in Brief</i> , 2016, 8, 196-202.	1.0	1
45	Multimodal functional imaging of brown adipose tissue. <i>Journal of Lipid Research</i> , 2021, 62, 100005.	4.2	1
46	Dietary inorganic nitrate: From villain to hero in metabolic disease?. , 2016, 60, 67.		1
47	Response to Comment on Lee et al. <i>Diabetes</i> 2015;64:2836-2846. Comment on Roberts et al. <i>Diabetes</i> 2015;64:471-484. <i>Diabetes</i> , 2016, 65, e16-e16.	0.6	0
48	Challenges and solutions for diabetes early career researchers in the COVID-19 recovery: Perspectives of the Diabetes UK Innovators in Diabetes. <i>Diabetic Medicine</i> , 2021, , e14698.	2.3	0
49	Mass Spectrometry-Based Metabolomics. Sample Preparation, Data Analysis, and Related Analytical Approaches. , 2011, , 853-868.		0
50	The Response to Past Climate Perturbations Explains Extremely Low Genetic Diversity in the Genome of an Abundant Ice-Age Remnant, the Alpine Marmot. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
51	Diabetic heart failure patients demonstrate a mitochondrial complex I dependent impairment in skeletal muscle. <i>FASEB Journal</i> , 2018, 32, 903.10.	0.5	0