Lee D Roberts

List of Publications by Year
in descending order

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	Endothelial Piezo1 sustains muscle capillary density and contributes to physical activity. Journal of Clinical Investigation, 2022, 132, .	8.2	23
2	Long-chain ceramides are cell non-autonomous signals linking lipotoxicity to endoplasmic reticulum stress in skeletal muscle. Nature Communications, 2022, 13, 1748.	12.8	21
3	Skeletal muscle atrophy in heart failure with diabetes: from molecular mechanisms to clinical evidence. ESC Heart Failure, 2021, 8, 3-15.	3.1	16
4	Multimodal functional imaging of brown adipose tissue. Journal of Lipid Research, 2021, 62, 100005.	4.2	1
5	Quantifying the relationship and contribution of mitochondrial respiration to systemic exercise limitation in heart failure. ESC Heart Failure, 2021, 8, 898-907.	3.1	2
6	Composition of receptor tyrosine kinase-mediated lipid micro-domains controlled by adaptor protein interaction. Scientific Reports, 2021, 11, 6160.	3.3	7
7	Brown and beige adipose tissue regulate systemic metabolism through a metabolite interorgan signaling axis. Nature Communications, 2021, 12, 1905.	12.8	82
8	Kv1.3 voltage-gated potassium channels link cellular respiration to proliferation through a non-conducting mechanism. Cell Death and Disease, 2021, 12, 372.	6.3	16
9	Endothelial IGFâ€1 receptor mediates crosstalk with the gut wall to regulate microbiota in obesity. EMBO Reports, 2021, 22, e50767.	4.5	7
10	Sexual dimorphism in adipose tissue mitochondrial function and metabolic flexibility in obesity. International Journal of Obesity, 2021, 45, 1773-1781.	3.4	16
11	Challenges and solutions for diabetes early career researchers in the COVIDâ€19 recovery: Perspectives of the Diabetes UK Innovators in Diabetes. Diabetic Medicine, 2021, , e14698.	2.3	0
12	Divergent skeletal muscle mitochondrial phenotype between male and female patients with chronic heart failure. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 79-88.	7.3	15
13	Chronic heart failure with diabetes mellitus is characterized by a severe skeletal muscle pathology. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 394-404.	7.3	20
14	Detergent-Free Simultaneous Sample Preparation Method for Proteomics and Metabolomics. Journal of Proteome Research, 2020, 19, 2838-2844.	3.7	16
15	Consequences of Lipid Remodeling of Adipocyte Membranes Being Functionally Distinct from Lipid Storage in Obesity. Journal of Proteome Research, 2020, 19, 3919-3935.	3.7	12
16	Unique Transcriptome Signature Distinguishes Patients With Heart Failure With Myopathy. Journal of the American Heart Association, 2020, 9, e017091.	3.7	11
17	Inorganic Nitrate Promotes Glucose Uptake and Oxidative Catabolism in White Adipose Tissue Through the XOR-Catalyzed Nitric Oxide Pathway. Diabetes, 2020, 69, 893-901.	0.6	8
18	Ice-Age Climate Adaptations Trap the Alpine Marmot in a State of Low Genetic Diversity. Current Biology, 2019, 29, 1712-1720.e7.	3.9	27

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19	A type III complement factor D deficiency: Structural insights for inhibition of the alternative pathway. Journal of Allergy and Clinical Immunology, 2018, 142, 311-314.e6.	2.9	13
20	Metabolomics and Lipidomics Study of Mouse Models of Type 1 Diabetes Highlights Divergent Metabolism in Purine and Tryptophan Metabolism Prior to Disease Onset. Journal of Proteome Research, 2018, 17, 946-960.	3.7	44
21	Hepatic steatosis risk is partly driven by increased de novo lipogenesis following carbohydrate consumption. Genome Biology, 2018, 19, 79.	8.8	83
22	KHS101 disrupts energy metabolism in human glioblastoma cells and reduces tumor growth in mice. Science Translational Medicine, 2018, 10, .	12.4	54
23	Diabetic heart failure patients demonstrate a mitochondrial complex I dependent impairment in skeletal muscle. FASEB Journal, 2018, 32, 903.10.	0.5	0
24	Inorganic Nitrate Mimics Exercise-Stimulated Muscular Fiber-Type Switching and Myokine and Î³-Aminobutyric Acid Release. Diabetes, 2017, 66, 674-688.	0.6	35
25	Response to Comment on Lee et al. Diabetes 2015;64:2836â€“2846. Comment on Roberts et al. Diabetes 2015;64:471â€“484. Diabetes, 2016, 65, e16-e16.	0.6	0
26	Dietary inorganic nitrate: From villain to hero in metabolic disease?. Molecular Nutrition and Food Research, 2016, 60, 67-78.	3.3	59
27	Metabolomics dataset of PPAR-pan treated rat liver. Data in Brief, 2016, 8, 196-202.	1.0	1
28	PPAR-pan activation induces hepatic oxidative stress and lipidomic remodelling. Free Radical Biology and Medicine, 2016, 95, 357-368.	2.9	22
29	Dietary inorganic nitrate: From villain to hero in metabolic disease?. , 2016, 60, 67.		1
30	Adipose tissue fatty acid chain length and mono-unsaturation increases with obesity and insulin resistance. Scientific Reports, 2015, 5, 18366.	3.3	50
31	Nitrate enhances skeletal muscle fatty acid oxidation via a nitric oxide-cGMP-PPAR-mediated mechanism. BMC Biology, 2015, 13, 110.	3.8	37
32	Mechanistic insights revealed by lipid profiling in monogenic insulin resistance syndromes. Genome Medicine, 2015, 7, 63.	8.2	23
33	A role for vaccinia virus protein C16 in reprogramming cellular energy metabolism. Journal of General Virology, 2015, 96, 395-407.	2.9	41
34	Does inorganic nitrate say NO to obesity by browning white adipose tissue?. Adipocyte, 2015, 4, 311-314.	2.8	24
35	PTPMT1 Inhibition Lowers Glucose through Succinate Dehydrogenase Phosphorylation. Cell Reports, 2015, 10, 694-701.	6.4	61
36	Inorganic Nitrate Promotes the Browning of White Adipose Tissue Through the Nitrate-Nitrite-Nitric Oxide Pathway. Diabetes, 2015, 64, 471-484.	0.6	121

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37	Methods for Performing Lipidomics in White Adipose Tissue. Methods in Enzymology, 2014, 538, 211-231.	1.0	15
38	Î²-Aminoisobutyric Acid Induces Browning of White Fat and Hepatic Î²-Oxidation and Is Inversely Correlated with Cardiometabolic Risk Factors. Cell Metabolism, 2014, 19, 96-108.	16.2	489
39	Towards metabolic biomarkers of insulin resistance and type 2 diabetes: progress from the metabolome. Lancet Diabetes and Endocrinology,the, 2014, 2, 65-75.	11.4	227
40	Chemical and metabolomic screens identify novel biomarkers and antidotes for cyanide exposure. FASEB Journal, 2013, 27, 1928-1938.	0.5	38
41	Toward New Biomarkers of Cardiometabolic Diseases. Cell Metabolism, 2013, 18, 43-50.	16.2	75
42	Relationship between postprandial metabolomics and colon motility in children with constipation. Neurogastroenterology and Motility, 2013, 25, 420.	3.0	12
43	An In Vivo Zebrafish Screen Identifies Organophosphate Antidotes with Diverse Mechanisms of Action. Journal of Biomolecular Screening, 2013, 18, 108-115.	2.6	24
44	Metabolite Profiling Identifies Pathways Associated With Metabolic Risk in Humans. Circulation, 2012, 125, 2222-2231.	1.6	514
45	Targeted Metabolomics. Current Protocols in Molecular Biology, 2012, 98, Unit 30.2.1-24.	2.9	402
46	The contrasting roles of PPARÎ´ and PPARÎ³ in regulating the metabolic switch between oxidation and storage of fats in white adipose tissue. Genome Biology, 2011, 12, R75.	9.6	85
47	Mass Spectrometry-Based Metabolomics. Sample Preparation, Data Analysis, and Related Analytical Approaches. , 2011, , 853-868.		0
48	Increased hepatic oxidative metabolism distinguishes the action of Peroxisome proliferator-activated receptor Î´ from Peroxisome proliferator-activated receptor Î³ in the ob/ob mouse. Genome Medicine, 2009, 1, 115.	8.2	32
49	Metabolic phenotyping of a model of adipocyte differentiation. Physiological Genomics, 2009, 39, 109-119.	2.3	78
50	A matter of fat: An introduction to lipidomic profiling methods. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 174-181.	2.3	115
51	The Response to Past Climate Perturbations Explains Extremely Low Genetic Diversity in the Genome of an Abundant Ice-Age Remnant, the Alpine Marmot. SSRN Electronic Journal, 0, , .	0.4	0