Matthew D Lynes

List of Publications by Year
in descending order

35 papers	2,373 citations	279798 23 h-index	361022 35 g-index
38 all docs	38 docs citations	38 times ranked	3554 citing authors

#	Article	IF	Citations
1	The cold-induced lipokine 12,13-diHOME promotes fatty acid transport into brown adipose tissue. Nature Medicine, 2017, 23, 631-637.	30.7	309
2	Clonal analyses and gene profiling identify genetic biomarkers of the thermogenic potential of human brown and white preadipocytes. Nature Medicine, 2015, 21, 760-768.	30.7	240
3	12,13-diHOME: An Exercise-Induced Lipokine that Increases Skeletal Muscle Fatty Acid Uptake. Cell Metabolism, 2018, 27, 1111-1120.e3.	16.2	215
4	Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. Nature Medicine, 2018, 24, 292-303.	30.7	154
5	12-Lipoxygenase Regulates Cold Adaptation and Glucose Metabolism by Producing the Omega-3 Lipid 12-HEPE from Brown Fat. Cell Metabolism, 2019, 30, 768-783.e7.	16.2	132
6	TGF-Î²2 is an exercise-induced adipokine that regulates glucose and fatty acid metabolism. Nature Metabolism, 2019, 1, 291-303.	11.9	128
7	Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. Cell Metabolism, 2018, 28, 159-174.e11.	16.2	114
8	Increased Mitochondrial Activity in BMP7-Treated Brown Adipocytes, Due to Increased CPT1- and CD36-Mediated Fatty Acid Uptake. Antioxidants and Redox Signaling, 2013, 19, 243-257.	5.4	85
9	Connexin 43 Mediates White Adipose Tissue Beiging by Facilitating the Propagation of Sympathetic Neuronal Signals. Cell Metabolism, 2016, 24, 420-433.	16.2	80
10	CRISPR-engineered human brown-like adipocytes prevent diet-induced obesity and ameliorate metabolic syndrome in mice. Science Translational Medicine, 2020, 12, .	12.4	80
11	Deciphering adipose tissue heterogeneity. Annals of the New York Academy of Sciences, 2018, 1411, 5-20.	3.8	77
12	FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. Nature Communications, 2020, 11, 1421.	12.8	67
13	Isolation of Progenitors that Exhibit Myogenic/Osteogenic Bipotency InÂVitro by Fluorescence-Activated Cell Sorting from Human Fetal Muscle. Stem Cell Reports, 2014, 2, 92-106.	4.8	64
14	Vascular smooth muscle-derived Trpv1+ progenitors are a source of cold-induced thermogenic adipocytes. Nature Metabolism, 2021, 3, 485-495.	11.9	64
15	Defining the lineage of thermogenic perivascular adipose tissue. Nature Metabolism, 2021, 3, 469-484.	11.9	63
16	Cold-Activated Lipid Dynamics in Adipose Tissue Highlights a Role for Cardiolipin in Thermogenic Metabolism. Cell Reports, 2018, 24, 781-790.	6.4	60
17	Interactions between CD36 and global intestinal alkaline phosphatase in mouse small intestine and effects of high-fat diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1738-R1747.	1.8	57
18	Cell-autonomous light sensitivity via Opsin3 regulates fuel utilization in brown adipocytes. PLoS Biology, 2020, 18, e3000630.	5.6	41

#	Article	IF	Citations
19	Curcumin analogues as selective fluorescence imaging probes for brown adipose tissue and monitoring browning. Scientific Reports, 2015, 5, 13116.	3.3	36
20	Endogenous Fatty Acid Synthesis Drives Brown Adipose Tissue Involution. Cell Reports, 2021, 34, 108624.	6.4	33
21	Involvement of CD36 and intestinal alkaline phosphatases in fatty acid transport in enterocytes, and the response to a high-fat diet. Life Sciences, 2011, 88, 384-391.	4.3	32
22	Brown Fatâ€"Activating Lipokine 12,13-diHOME in Human Milk Is Associated With Infant Adiposity. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e943-e956.	3.6	32
23	Adapted MS/MS^{ALL} Shotgun Lipidomics Approach for Analysis of Cardiolipin Molecular Species. Lipids, 2018, 53, 133-142.	1.7	25
24	Monoacylglycerol Analysis Using MS/MSALL Quadruple Time of Flight Mass Spectrometry. Metabolites, 2016, 6, 25.	2.9	24
25	Integrating Extracellular Flux Measurements and Genome-Scale Modeling Reveals Differences between Brown and White Adipocytes. Cell Reports, 2017, 21, 3040-3048.	6.4	24
26	Lipokines and Thermogenesis. Endocrinology, 2019, 160, 2314-2325.	2.8	24
27	Integrated metabolomics reveals altered lipid metabolism in adipose tissue in a model of extreme longevity. GeroScience, 2020, 42, 1527-1546.	4.6	20
28	Disruption of Insulin Signaling in Myf5-Expressing Progenitors Leads to Marked Paucity of Brown Fat but Normal Muscle Development. Endocrinology, 2015, 156, 1637-1647.	2.8	16
29	Loss of BMP receptor type 1A in murine adipose tissue attenuates age-related onset of insulin resistance. Diabetologia, 2016, 59, 1769-1777.	6.3	16
30	Endothelial Cells Induced Progenitors Into Brown Fat to Reduce Atherosclerosis. Circulation Research, 2022, 131, 168-183.	4.5	14
31	The thermogenic circuit: Regulators of thermogenic competency and differentiation. Genes and Diseases, 2015, 2, 164-172.	3.4	13
32	Reestablishment of Energy Balance in a Male Mouse Model With POMC Neuron Deletion of BMPR1A. Endocrinology, 2017, 158, 4233-4245.	2.8	12
33	Silk Hydrogel-Mediated Delivery of Bone Morphogenetic Protein 7 Directly to Subcutaneous White Adipose Tissue Increases Browning and Energy Expenditure. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	6
34	Unwiring the transcriptional heat circuit. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14318-14319.	7.1	3
35	Commentary on: â€œThe Presence of Active Brown Adipose Tissue Determines Cold-Induced Energy Expenditure and Oxylipin Profiles in Humansâ€• Journal of Clinical Endocrinology and Metabolism, 2020, 105, e2995-e2997.	3.6	0