# Matthew D Lynes

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | Endothelial Cells Induced Progenitors Into Brown Fat to Reduce Atherosclerosis. Circulation Research, 2022, 131, 168-183. | 4.5 | 14 |
| 3 | 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 |
| 4 | Endogenous Fatty Acid Synthesis Drives Brown Adipose Tissue Involution. Cell Reports, 2021, 34, 108624. | 6.4 | 33 |
| 5 | Vascular smooth muscle-derived Trpv1+ progenitors are a source of cold-induced thermogenic adipocytes. Nature Metabolism, 2021, 3, 485-495. | 11.9 | 64 |
| 6 | Defining the lineage of thermogenic perivascular adipose tissue. Nature Metabolism, 2021, 3, 469-484. | 11.9 | 63 |
| 7 | CRISPR-engineered human brown-like adipocytes prevent diet-induced obesity and ameliorate metabolic syndrome in mice. Science Translational Medicine, 2020, 12, . | 12.4 | 80 |
| 8 | 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 |
| 9 | FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. Nature Communications, 2020, 11, 1421. | 12.8 | 67 |
| 10 | Integrated metabolomics reveals altered lipid metabolism in adipose tissue in a model of extreme longevity. GeroScience, 2020, 42, 1527-1546. | 4.6 | 20 |
| 11 | Cell-autonomous light sensitivity via Opsin3 regulates fuel utilization in brown adipocytes. PLoS Biology, 2020, 18, e3000630. | 5.6 | 41 |
| 12 | 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 |
| 13 | Lipokines and Thermogenesis. Endocrinology, 2019, 160, 2314-2325. | 2.8 | 24 |
| 14 | TGF-Î²2 is an exercise-induced adipokine that regulates glucose and fatty acid metabolism. Nature Metabolism, 2019, 1, 291-303. | 11.9 | 128 |
| 15 | Adapted MS/MS<sup>ALL</sup> Shotgun Lipidomics Approach for Analysis of Cardiolipin Molecular Species. Lipids, 2018, 53, 133-142. | 1.7 | 25 |
| 16 | Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. Nature Medicine, 2018, 24, 292-303. | 30.7 | 154 |
| 17 | 12,13-diHOME: An Exercise-Induced Lipokine that Increases Skeletal Muscle Fatty Acid Uptake. Cell Metabolism, 2018, 27, 1111-1120.e3. | 16.2 | 215 |
| 18 | Deciphering adipose tissue heterogeneity. Annals of the New York Academy of Sciences, 2018, 1411, 5-20. | 3.8 | 77 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. Cell Metabolism, 2018, 28, 159-174.e11. | 16.2 | 114 |
| 20 | Cold-Activated Lipid Dynamics in Adipose Tissue Highlights a Role for Cardiolipin in Thermogenic Metabolism. Cell Reports, 2018, 24, 781-790. | 6.4 | 60 |
| 21 | The cold-induced lipokine 12,13-diHOME promotes fatty acid transport into brown adipose tissue. Nature Medicine, 2017, 23, 631-637. | 30.7 | 309 |
| 22 | Reestablishment of Energy Balance in a Male Mouse Model With POMC Neuron Deletion of BMPR1A. Endocrinology, 2017, 158, 4233-4245. | 2.8 | 12 |
| 23 | Integrating Extracellular Flux Measurements and Genome-Scale Modeling Reveals Differences between Brown and White Adipocytes. Cell Reports, 2017, 21, 3040-3048. | 6.4 | 24 |
| 24 | Monoacylglycerol Analysis Using MS/MSALL Quadruple Time of Flight Mass Spectrometry. Metabolites, 2016, 6, 25. | 2.9 | 24 |
| 25 | 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 |
| 26 | Connexin 43 Mediates White Adipose Tissue Beiging by Facilitating the Propagation of Sympathetic Neuronal Signals. Cell Metabolism, 2016, 24, 420-433. | 16.2 | 80 |
| 27 | Curcumin analogues as selective fluorescence imaging probes for brown adipose tissue and monitoring browning. Scientific Reports, 2015, 5, 13116. | 3.3 | 36 |
| 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 | The thermogenic circuit: Regulators of thermogenic competency and differentiation. Genes and Diseases, 2015, 2, 164-172. | 3.4 | 13 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |