Carey N Lumeng

List of Publications by Year
in descending order

94 papers	14,827 citations	41 h-index (70961)	88 g-index (48187)
95 all docs	95 docs citations	95 times ranked	20887 citing authors

#	Article	IF	Citations
1	Obesity induces a phenotypic switch in adipose tissue macrophage polarization. Journal of Clinical Investigation, 2007, 117, 175-184.	3.9	3,739
2	Inflammatory links between obesity and metabolic disease. Journal of Clinical Investigation, 2011, 121, 2111-2117.	3.9	1,845
3	Increased Inflammatory Properties of Adipose Tissue Macrophages Recruited During Diet-Induced Obesity. Diabetes, 2007, 56, 16-23.	0.3	888
4	Phenotypic Switching of Adipose Tissue Macrophages With Obesity Is Generated by Spatiotemporal Differences in Macrophage Subtypes. Diabetes, 2008, 57, 3239-3246.	0.3	757
5	Ambient Air Pollution Exaggerates Adipose Inflammation and Insulin Resistance in a Mouse Model of Diet-Induced Obesity. Circulation, 2009, 119, 538-546.	1.6	608
6	Landscape of Intercellular Crosstalk in Healthy and NASH Liver Revealed by Single-Cell Secretome Gene Analysis. Molecular Cell, 2019, 75, 644-660.e5.	4.5	488
7	Properties and functions of adipose tissue macrophages in obesity. Immunology, 2018, 155, 407-417.	2.0	421
8	Bone Marrow Adipose Tissue Is an Endocrine Organ that Contributes to Increased Circulating Adiponectin during Caloric Restriction. Cell Metabolism, 2014, 20, 368-375.	7.2	415
9	The Protein Kinase IKKÉ› Regulates Energy Balance in Obese Mice. Cell, 2009, 138, 961-975.	13.5	318
10	Myeloid mineralocorticoid receptor controls macrophage polarization and cardiovascular hypertrophy and remodeling in mice. Journal of Clinical Investigation, 2010, 120, 3350-3364.	3.9	317
11	Macrophages block insulin action in adipocytes by altering expression of signaling and glucose transport proteins. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E166-E174.	1.8	296
12	Visceral Adipose Inflammation in Obesity Is Associated with Critical Alterations in Tregulatory Cell Numbers. PLoS ONE, 2011, 6, e16376.	1.1	256
13	Adipose tissue fibrosis, hypertrophy, and hyperplasia: Correlations with diabetes in human obesity. Obesity, 2016, 24, 597-605.	1.5	250
14	Heme Oxygenase-1 Drives Metaflammation and Insulin Resistance in Mouse and Man. Cell, 2014, 158, 25-40.	13.5	243
15	Aging Is Associated with an Increase in T Cells and Inflammatory Macrophages in Visceral Adipose Tissue. Journal of Immunology, 2011, 187, 6208-6216.	0.4	235
16	Adipose tissue macrophages: phenotypic plasticity and diversity in lean and obese states. Current Opinion in Clinical Nutrition and Metabolic Care, 2011, 14, 341-346.	1.3	229
17	Adipose Tissue Macrophages Function As Antigen-Presenting Cells and Regulate Adipose Tissue CD4+ T Cells in Mice. Diabetes, 2013, 62, 2762-2772.	0.3	185
18	Diet-induced obesity promotes myelopoiesis in hematopoietic stem cells. Molecular Metabolism, 2014, 3, 664-675.	3.0	179

#	Article	IF	Citations
19	An MHC II-Dependent Activation Loop between Adipose Tissue Macrophages and CD4+ T Cells Controls Obesity-Induced Inflammation. Cell Reports, 2014, 9, 605-617.	2.9	167
20	T-ing up inflammation in fat. Nature Medicine, 2009, 15, 846-847.	15.2	153
21	Toll-like Receptor 4 Deficiency Promotes the Alternative Activation of Adipose Tissue Macrophages. Diabetes, 2012, 61, 2718-2727.	0.3	148
22	Interactions between Î²2-syntrophin and a family of microtubule-associated serine/threonine kinases. Nature Neuroscience, 1999, 2, 611-617.	7.1	139
23	Innate immune activation in obesity. Molecular Aspects of Medicine, 2013, 34, 12-29.	2.7	127
24	The initiation of metabolic inflammation in childhood obesity. Journal of Clinical Investigation, 2017, 127, 65-73.	3.9	125
25	Adipose Tissue Dendritic Cells Are Independent Contributors to Obesity-Induced Inflammation and Insulin Resistance. Journal of Immunology, 2016, 197, 3650-3661.	0.4	116
26	Macrophage Proliferation Sustains Adipose Tissue Inflammation in Formerly Obese Mice. Diabetes, 2017, 66, 392-406.	0.3	111
27	Bone marrowâ€“specific Cap gene deletion protects against high-fat dietâ€“induced insulin resistance. Nature Medicine, 2007, 13, 455-462.	15.2	110
28	MGL1 promotes adipose tissue inflammation and insulin resistance by regulating 7/4hi monocytes in obesity. Journal of Experimental Medicine, 2009, 206, 3143-3156.	4.2	109
29	Flow Cytometry Analyses of Adipose Tissue Macrophages. Methods in Enzymology, 2014, 537, 297-314.	0.4	106
30	Differences in Hematopoietic Stem Cells Contribute to Sexually Dimorphic Inflammatory Responses to High Fat Diet-induced Obesity. Journal of Biological Chemistry, 2015, 290, 13250-13262.	1.6	92
31	Neuropeptide Y Is Produced by Adipose Tissue Macrophages and Regulates Obesity-Induced Inflammation. PLoS ONE, 2013, 8, e57929.	1.1	81
32	A subcutaneous adipose tissueâ€“liver signalling axis controls hepatic gluconeogenesis. Nature Communications, 2015, 6, 6047.	5.8	75
33	The IKKâ€related kinase TBK1 activates mTORC1 directly in response to growth factors and innate immune agonists. EMBO Journal, 2018, 37, 19-38.	3.5	70
34	Thrombospondin 1 Mediates High-Fat Diet-Induced Muscle Fibrosis and Insulin Resistance in Male Mice. Endocrinology, 2013, 154, 4548-4559.	1.4	64
35	TLR4, TRIF, and MyD88 are essential for myelopoiesis and CD11c+ adipose tissue macrophage production in obese mice. Journal of Biological Chemistry, 2018, 293, 8775-8786.	1.6	61
36	CX₃CR1 Deficiency Does Not Influence Trafficking of Adipose Tissue Macrophages in Mice With Dietâ€Induced Obesity. Obesity, 2012, 20, 1189-1199.	1.5	60

#	Article	IF	Citations
37	Obesity results in adipose tissue T cell exhaustion. JCI Insight, 2021, 6, .	2.3	55
38	Targeted Deletion of Growth Hormone (GH) Receptor in Macrophage Reveals Novel Osteopontin-mediated Effects of GH on Glucose Homeostasis and Insulin Sensitivity in Diet-induced Obesity. Journal of Biological Chemistry, 2013, 288, 15725-15735.	1.6	53
39	Wnt/Î²-catenin signaling regulates adipose tissue lipogenesis and adipocyte-specific loss is rigorously defended by neighboring stromal-vascular cells. Molecular Metabolism, 2020, 42, 101078.	3.0	53
40	Systemic NK cell ablation attenuates intra-abdominal adipose tissue macrophage infiltration in murine obesity. Obesity, 2014, 22, 2109-2114.	1.5	49
41	The relationship between body fat mass percentiles and inflammation in children. Obesity, 2014, 22, 1332-1336.	1.5	49
42	Adipocytes promote pancreatic cancer cell proliferation via glutamine transfer. Biochemistry and Biophysics Reports, 2016, 7, 144-149.	0.7	47
43	Developmental programming: interaction between prenatal BPA exposure and postnatal adiposity on metabolic variables in female sheep. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E238-E247.	1.8	46
44	Imaging White Adipose Tissue with Confocal Microscopy. Methods in Enzymology, 2014, 537, 17-30.	0.4	44
45	Diabetes-Specific Regulation of Adipocyte Metabolism by the Adipose Tissue Extracellular Matrix. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 1032-1043.	1.8	44
46	Frontline Science: Rapid adipose tissue expansion triggers unique proliferation and lipid accumulation profiles in adipose tissue macrophages. Journal of Leukocyte Biology, 2018, 103, 615-628.	1.5	43
47	The long noncoding RNA Blnc1 orchestrates homeostatic adipose tissue remodeling to preserve metabolic health. Molecular Metabolism, 2018, 14, 60-70.	3.0	42
48	Cholesterol 25-hydroxylase (CH25H) as a promoter of adipose tissue inflammation in obesity and diabetes. Molecular Metabolism, 2020, 39, 100983.	3.0	38
49	Pathways to Severe COVIDâ€19 for People with Obesity. Obesity, 2021, 29, 645-653.	1.5	36
50	Otopetrin 1 Protects Mice From Obesity-Associated Metabolic Dysfunction Through Attenuating Adipose Tissue Inflammation. Diabetes, 2014, 63, 1340-1352.	0.3	35
51	Obesity-induced remodeling of the adipose tissue elastin network is independent of the metalloelastase MMP-12. Adipocyte, 2015, 4, 264-272.	1.3	35
52	CD40 promotes MHC class II expression on adipose tissue macrophages and regulates adipose tissue CD4+ T cells with obesity. Journal of Leukocyte Biology, 2016, 99, 1107-1119.	1.5	33
53	Characterization of Dystrophin and Utrophin Diversity in the Mouse. Human Molecular Genetics, 1999, 8, 593-599.	1.4	30
54	Advanced glycation end-products regulate extracellular matrix-adipocyte metabolic crosstalk in diabetes. Scientific Reports, 2019, 9, 19748.	1.6	30

#	Article	IF	Citations
55	The human type 2 diabetes-specific visceral adipose tissue proteome and transcriptome in obesity. Scientific Reports, 2021, 11, 17394.	1.6	30
56	Weight loss independent changes in adipose tissue macrophage and T cell populations after sleeve gastrectomy in mice. Molecular Metabolism, 2017, 6, 317-326.	3.0	29
57	Depletion of macrophages in CD11b diphtheria toxin receptor mice induces brain inflammation and enhances inflammatory signaling during traumatic brain injury. Brain Research, 2015, 1624, 103-112.	1.1	27
58	Phosphorylation of the adaptor protein SH2B1Î²regulates its ability to enhance growth hormone (GH)-dependent macrophage motility. Journal of Cell Science, 2013, 126, 1733-43.	1.2	25
59	Smooth muscle protein 22 alpha-Cre is expressed in myeloid cells in mice. Biochemical and Biophysical Research Communications, 2012, 422, 639-642.	1.0	24
60	Human CD206+ macrophages associate with diabetes and adipose tissue lymphoid clusters. JCI Insight, 2022, 7, .	2.3	24
61	GM-CSF Administration Improves Defects in Innate Immunity and Sepsis Survival in Obese Diabetic Mice. Journal of Immunology, 2019, 202, 931-942.	0.4	22
62	Adipocyte hypertrophy-hyperplasia balance contributes to weight loss after bariatric surgery. Adipocyte, 2017, 6, 134-140.	1.3	21
63	Depot-specific adipocyte-extracellular matrix metabolic crosstalk in murine obesity. Adipocyte, 2020, 9, 189-196.	1.3	21
64	Hexosamine Biosynthesis Is a Possible Mechanism Underlying Hypoxiaâ€™s Effects on Lipid Metabolism in Human Adipocytes. PLoS ONE, 2013, 8, e71165.	1.1	19
65	Adipose tissue dendritic cell signals are required to maintain T cell homeostasis and obesity-induced expansion. Molecular and Cellular Endocrinology, 2020, 505, 110740.	1.6	19
66	Expression of the 71 kDa dystrophin isoform (Dp71) evaluated by gene targeting. Brain Research, 1999, 830, 174-178.	1.1	18
67	SirT1: A Guardian at the Gates of Adipose Tissue Inflammation. Diabetes, 2011, 60, 3100-3102.	0.3	17
68	Adipose Tissue Macrophages: A Piece of the PAI of Metabolic Syndrome. Science Translational Medicine, 2010, 2, 20ps7.	5.8	16
69	Genomic binding of PAX8-PPARG fusion protein regulates cancer-related pathways and alters the immune landscape of thyroid cancer. Oncotarget, 2017, 8, 5761-5773.	0.8	14
70	Obesityâ€Related Hormones in Lowâ€Income Preschoolâ€Age Children: Implications for School Readiness. Mind, Brain, and Education, 2013, 7, 246-255.	0.9	12
71	Elucidating nanoscale mechanical properties of diabetic human adipose tissue using atomic force microscopy. Scientific Reports, 2020, 10, 20423.	1.6	11
72	Viscoelastic characterization of diabetic and non-diabetic human adipose tissue. Biorheology, 2020, 57, 15-26.	1.2	11

#	Article	IF	Citations
73	The Role of Pediatricians in the Coordinated National Effort to Address Childhood Obesity. Pediatrics, 2010, 126, 574-575.	1.0	10
74	Differentiation and Metabolic Interrogation of Human Adipocytes. Methods in Molecular Biology, 2017, 1566, 61-76.	0.4	10
75	Acute Aerobic Exercise Remodels the Adipose Tissue Progenitor Cell Phenotype in Obese Adults. Frontiers in Physiology, 2020, 11, 903.	1.3	10
76	Weight Regain in Formerly Obese Mice Hastens Development of Hepatic Steatosis Due to Impaired Adipose Tissue Function. Obesity, 2020, 28, 1086-1097.	1.5	10
77	Myeloid interleukin-4 receptor Î± is essential in postmyocardial infarction healing by regulating inflammation and fibrotic remodeling. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H323-H337.	1.5	10
78	Lung Macrophage Diversity and Asthma. Annals of the American Thoracic Society, 2016, 13 Suppl 1, S31-4.	1.5	10
79	Insulin htts on Autophagy. Autophagy, 2006, 2, 250-253.	4.3	9
80	Obesity Heats Up Adipose Tissue Lymphocytes. Gastroenterology, 2013, 145, 282-285.	0.6	8
81	Enhanced Myeloid Leukocytes in Obese Children and Adolescents at Risk for Metabolic Impairment. Frontiers in Endocrinology, 2020, 11, 327.	1.5	8
82	Fractalkine signaling in regulation of insulin secretion. Islets, 2014, 6, e27861.	0.9	6
83	Regulation of adipose tissue inflammation and systemic metabolism in murine obesity by polymer implants loaded with lentiviral vectors encoding human interleukinâ€4. Biotechnology and Bioengineering, 2020, 117, 3891-3901.	1.7	6
84	Maternal High-Fat Diet During Pre-Conception and Gestation Predisposes Adult Female Offspring to Metabolic Dysfunction in Mice. Frontiers in Endocrinology, 2021, 12, 780300.	1.5	6
85	A Bayesian Mixture Model for Predicting the COVID-19 Related Mortality in the United States. American Journal of Tropical Medicine and Hygiene, 2021, 104, 1484-1492.	0.6	5
86	Highâ€fat and highâ€sodium diet induces metabolic dysfunction in the absence of obesity. Obesity, 2021, 29, 1868-1881.	1.5	4
87	Waterâ€"fat magnetic resonance imaging quantifies relative proportions of brown and white adipose tissues: ex-vivo experiments. Journal of Medical Imaging, 2018, 5, 1.	0.8	3
88	A Human 3D Extracellular Matrix-Adipocyte Culture Model for Studying Matrix-Cell Metabolic Crosstalk. Journal of Visualized Experiments, 2019, , .	0.2	2
89	Inhaled corticosteroids do not prevent the development of asthma. Journal of Pediatrics, 2007, 150, 114.	0.9	0
90	Infant pulmonary function testing guides therapy in cystic fibrosis lung disease. Respiratory Medicine CME, 2011, 4, 17-19.	0.1	0

#	Article	IF	Citations
91	Daily and intermittent corticosteroids have similar impact on recurrent wheezing in young children. Journal of Pediatrics, 2012, 160, 881.	0.9	0
92	2370. Journal of Clinical and Translational Science, 2017, 1, 63-63.	0.3	0
93	3266 Understanding epicardial adipose biology by imaging, transcriptomic, and lipidomic profiling. Journal of Clinical and Translational Science, 2019, 3, 157-158.	0.3	0
94	Stressâ€induced Epigenetic Programming for Adipogenesis, Role of Neuropeptide Y and and Adipose Stem Cells. FASEB Journal, 2011, 25, 1062.9.	0.2	0