

# Carey N Lumeng

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91  
papers

11,577  
citations

39  
h-index

95  
g-index

95  
ext. papers

13,581  
ext. citations

8.4  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
91	Obesity induces a phenotypic switch in adipose tissue macrophage polarization. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 175-84	15.9	3102
90	Inflammatory links between obesity and metabolic disease. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 2111-7	15.9	1489
89	Increased inflammatory properties of adipose tissue macrophages recruited during diet-induced obesity. <i>Diabetes</i> , <b>2007</b> , 56, 16-23	0.9	779
88	Phenotypic switching of adipose tissue macrophages with obesity is generated by spatiotemporal differences in macrophage subtypes. <i>Diabetes</i> , <b>2008</b> , 57, 3239-46	0.9	633
87	Ambient air pollution exaggerates adipose inflammation and insulin resistance in a mouse model of diet-induced obesity. <i>Circulation</i> , <b>2009</b> , 119, 538-46	16.7	484
86	Bone marrow adipose tissue is an endocrine organ that contributes to increased circulating adiponectin during caloric restriction. <i>Cell Metabolism</i> , <b>2014</b> , 20, 368-375	24.6	299
85	The protein kinase IKKepsilon regulates energy balance in obese mice. <i>Cell</i> , <b>2009</b> , 138, 961-75	56.2	264
84	Myeloid mineralocorticoid receptor controls macrophage polarization and cardiovascular hypertrophy and remodeling in mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 3350-64	15.9	260
83	Macrophages block insulin action in adipocytes by altering expression of signaling and glucose transport proteins. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E166-74	6	250
82	Properties and functions of adipose tissue macrophages in obesity. <i>Immunology</i> , <b>2018</b> , 155, 407-417	7.8	231
81	Landscape of Intercellular Crosstalk in Healthy and NASH Liver Revealed by Single-Cell Secretome Gene Analysis. <i>Molecular Cell</i> , <b>2019</b> , 75, 644-660.e5	17.6	218
80	Visceral adipose inflammation in obesity is associated with critical alterations in regulatory cell numbers. <i>PLoS ONE</i> , <b>2011</b> , 6, e16376	3.7	208
79	Heme oxygenase-1 drives metaflammation and insulin resistance in mouse and man. <i>Cell</i> , <b>2014</b> , 158, 25-40	56.2	200
78	Aging is associated with an increase in T cells and inflammatory macrophages in visceral adipose tissue. <i>Journal of Immunology</i> , <b>2011</b> , 187, 6208-16	5.3	173
77	Adipose tissue macrophages: phenotypic plasticity and diversity in lean and obese states. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2011</b> , 14, 341-6	3.8	171
76	Adipose tissue fibrosis, hypertrophy, and hyperplasia: Correlations with diabetes in human obesity. <i>Obesity</i> , <b>2016</b> , 24, 597-605	8	158
75	Adipose tissue macrophages function as antigen-presenting cells and regulate adipose tissue CD4+ T cells in mice. <i>Diabetes</i> , <b>2013</b> , 62, 2762-72	0.9	152

74	Diet-induced obesity promotes myelopoiesis in hematopoietic stem cells. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 664-75	8.8	130
73	Interactions between beta 2-syntrophin and a family of microtubule-associated serine/threonine kinases. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 611-7	25.5	124
72	Toll-like receptor 4 deficiency promotes the alternative activation of adipose tissue macrophages. <i>Diabetes</i> , <b>2012</b> , 61, 2718-27	0.9	117
71	An MHC II-dependent activation loop between adipose tissue macrophages and CD4+ T cells controls obesity-induced inflammation. <i>Cell Reports</i> , <b>2014</b> , 9, 605-17	10.6	112
70	Innate immune activation in obesity. <i>Molecular Aspects of Medicine</i> , <b>2013</b> , 34, 12-29	16.7	96
69	MGL1 promotes adipose tissue inflammation and insulin resistance by regulating 7/4hi monocytes in obesity. <i>Journal of Experimental Medicine</i> , <b>2009</b> , 206, 3143-56	16.6	95
68	Bone marrow-specific Cap gene deletion protects against high-fat diet-induced insulin resistance. <i>Nature Medicine</i> , <b>2007</b> , 13, 455-62	50.5	93
67	The initiation of metabolic inflammation in childhood obesity. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 65-73	15.9	86
66	Adipose Tissue Dendritic Cells Are Independent Contributors to Obesity-Induced Inflammation and Insulin Resistance. <i>Journal of Immunology</i> , <b>2016</b> , 197, 3650-3661	5.3	80
65	2370: Understanding epicardial fat biology by imaging. <i>Journal of Clinical and Translational Science</i> , <b>2017</b> , 1, 63-63	0.4	78
64	3266 Understanding epicardial adipose biology by imaging, transcriptomic, and lipidomic profiling. <i>Journal of Clinical and Translational Science</i> , <b>2019</b> , 3, 157-158	0.4	78
63	Flow cytometry analyses of adipose tissue macrophages. <i>Methods in Enzymology</i> , <b>2014</b> , 537, 297-314	1.7	75
62	Macrophage Proliferation Sustains Adipose Tissue Inflammation in Formerly Obese Mice. <i>Diabetes</i> , <b>2017</b> , 66, 392-406	0.9	74
61	Neuropeptide Y is produced by adipose tissue macrophages and regulates obesity-induced inflammation. <i>PLoS ONE</i> , <b>2013</b> , 8, e57929	3.7	65
60	Differences in Hematopoietic Stem Cells Contribute to Sexually Dimorphic Inflammatory Responses to High Fat Diet-induced Obesity. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 13250-62	5.4	64
59	A subcutaneous adipose tissue-liver signalling axis controls hepatic gluconeogenesis. <i>Nature Communications</i> , <b>2015</b> , 6, 6047	17.4	63
58	CX3CR1 deficiency does not influence trafficking of adipose tissue macrophages in mice with diet-induced obesity. <i>Obesity</i> , <b>2012</b> , 20, 1189-99	8	54
57	Thrombospondin 1 mediates high-fat diet-induced muscle fibrosis and insulin resistance in male mice. <i>Endocrinology</i> , <b>2013</b> , 154, 4548-59	4.8	50

56	The IKK-related kinase TBK1 activates mTORC1 directly in response to growth factors and innate immune agonists. <i>EMBO Journal</i> , <b>2018</b> , 37, 19-38	13	46
55	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. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 15725-35	5.4	43
54	TLR4, TRIF, and MyD88 are essential for myelopoiesis and CD11c adipose tissue macrophage production in obese mice. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 8775-8786	5.4	40
53	The relationship between body fat mass percentiles and inflammation in children. <i>Obesity</i> , <b>2014</b> , 22, 1332-6	8	39
52	Systemic NK cell ablation attenuates intra-abdominal adipose tissue macrophage infiltration in murine obesity. <i>Obesity</i> , <b>2014</b> , 22, 2109-14	8	39
51	Adipocytes promote pancreatic cancer cell proliferation via glutamine transfer. <i>Biochemistry and Biophysics Reports</i> , <b>2016</b> , 7, 144-149	2.2	38
50	Imaging white adipose tissue with confocal microscopy. <i>Methods in Enzymology</i> , <b>2014</b> , 537, 17-30	1.7	34
49	Developmental programming: interaction between prenatal BPA exposure and postnatal adiposity on metabolic variables in female sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2016</b> , 310, E238-47	6	31
48	Diabetes-Specific Regulation of Adipocyte Metabolism by the Adipose Tissue Extracellular Matrix. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2017</b> , 102, 1032-1043	5.6	29
47	Characterization of dystrophin and utrophin diversity in the mouse. <i>Human Molecular Genetics</i> , <b>1999</b> , 8, 593-9	5.6	28
46	Otopetrin 1 protects mice from obesity-associated metabolic dysfunction through attenuating adipose tissue inflammation. <i>Diabetes</i> , <b>2014</b> , 63, 1340-52	0.9	26
45	The long noncoding RNA Blnc1 orchestrates homeostatic adipose tissue remodeling to preserve metabolic health. <i>Molecular Metabolism</i> , <b>2018</b> , 14, 60-70	8.8	26
44	Frontline Science: Rapid adipose tissue expansion triggers unique proliferation and lipid accumulation profiles in adipose tissue macrophages. <i>Journal of Leukocyte Biology</i> , <b>2018</b> , 103, 615-628	6.5	25
43	CD40 promotes MHC class II expression on adipose tissue macrophages and regulates adipose tissue CD4+ T cells with obesity. <i>Journal of Leukocyte Biology</i> , <b>2016</b> , 99, 1107-19	6.5	25
42	Obesity-induced remodeling of the adipose tissue elastin network is independent of the metalloelastase MMP-12. <i>Adipocyte</i> , <b>2015</b> , 4, 264-72	3.2	24
41	Depletion of macrophages in CD11b diphtheria toxin receptor mice induces brain inflammation and enhances inflammatory signaling during traumatic brain injury. <i>Brain Research</i> , <b>2015</b> , 1624, 103-112	3.7	21
40	Weight loss independent changes in adipose tissue macrophage and T cell populations after sleeve gastrectomy in mice. <i>Molecular Metabolism</i> , <b>2017</b> , 6, 317-326	8.8	19
39	Pathways to Severe COVID-19 for People with Obesity. <i>Obesity</i> , <b>2021</b> , 29, 645-653	8	19

38	Smooth muscle protein 22 alpha-Cre is expressed in myeloid cells in mice. <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 422, 639-42	3.4	18
37	Expression of the 71 kDa dystrophin isoform (Dp71) evaluated by gene targeting. <i>Brain Research</i> , <b>1999</b> , 830, 174-8	3.7	18
36	Hexosamine biosynthesis is a possible mechanism underlying hypoxia's effects on lipid metabolism in human adipocytes. <i>PLoS ONE</i> , <b>2013</b> , 8, e71165	3.7	16
35	Sirt1: a guardian at the gates of adipose tissue inflammation. <i>Diabetes</i> , <b>2011</b> , 60, 3100-2	0.9	16
34	Obesity results in adipose tissue T cell exhaustion. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	16
33	Phosphorylation of the adaptor protein SH2B1 regulates its ability to enhance growth hormone-dependent macrophage motility. <i>Journal of Cell Science</i> , <b>2013</b> , 126, 1733-43	5.3	14
32	Wnt/ $\beta$ -catenin signaling regulates adipose tissue lipogenesis and adipocyte-specific loss is rigorously defended by neighboring stromal-vascular cells. <i>Molecular Metabolism</i> , <b>2020</b> , 42, 101078	8.8	14
31	Advanced glycation end-products regulate extracellular matrix-adipocyte metabolic crosstalk in diabetes. <i>Scientific Reports</i> , <b>2019</b> , 9, 19748	4.9	14
30	Adipocyte hypertrophy-hyperplasia balance contributes to weight loss after bariatric surgery. <i>Adipocyte</i> , <b>2017</b> , 6, 134-140	3.2	13
29	Adipose tissue dendritic cell signals are required to maintain T cell homeostasis and obesity-induced expansion. <i>Molecular and Cellular Endocrinology</i> , <b>2020</b> , 505, 110740	4.4	12
28	Cholesterol 25-hydroxylase (CH25H) as a promoter of adipose tissue inflammation in obesity and diabetes. <i>Molecular Metabolism</i> , <b>2020</b> , 39, 100983	8.8	12
27	Adipose tissue macrophages: a piece of the PAI of metabolic syndrome. <i>Science Translational Medicine</i> , <b>2010</b> , 2, 20ps7	17.5	12
26	Genomic binding of PAX8-PPARG fusion protein regulates cancer-related pathways and alters the immune landscape of thyroid cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 5761-5773	3.3	11
25	GM-CSF Administration Improves Defects in Innate Immunity and Sepsis Survival in Obese Diabetic Mice. <i>Journal of Immunology</i> , <b>2019</b> , 202, 931-942	5.3	11
24	Depot-specific adipocyte-extracellular matrix metabolic crosstalk in murine obesity. <i>Adipocyte</i> , <b>2020</b> , 9, 189-196	3.2	10
23	The role of pediatricians in the coordinated national effort to address childhood obesity. <i>Pediatrics</i> , <b>2010</b> , 126, 574-5	7.4	10
22	Insulin hts on autophagy. <i>Autophagy</i> , <b>2006</b> , 2, 250-3	10.2	8
21	Lung Macrophage Diversity and Asthma. <i>Annals of the American Thoracic Society</i> , <b>2016</b> , 13 Suppl 1, S31-44.7		8

20	Obesity-Related Hormones in Low-Income Preschool-Age Children: Implications for School Readiness. <i>Mind, Brain, and Education</i> , <b>2013</b> , 7, 246-255	1.8	7
19	Acute Aerobic Exercise Remodels the Adipose Tissue Progenitor Cell Phenotype in Obese Adults. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 903	4.6	7
18	Differentiation and Metabolic Interrogation of Human Adipocytes. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1566, 61-76	1.4	4
17	Fractalkine signaling in regulation of insulin secretion. <i>Islets</i> , <b>2014</b> , 6, e27861	2	4
16	The human type 2 diabetes-specific visceral adipose tissue proteome and transcriptome in obesity. <i>Scientific Reports</i> , <b>2021</b> , 11, 17394	4.9	4
15	Myeloid interleukin-4 receptor $\beta$ s essential in postmyocardial infarction healing by regulating inflammation and fibrotic remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H323-H337	5.2	3
14	Viscoelastic characterization of diabetic and non-diabetic human adipose tissue. <i>Biorheology</i> , <b>2020</b> , 57, 15-26	1.7	2
13	Enhanced Myeloid Leukocytes in Obese Children and Adolescents at Risk for Metabolic Impairment. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 327	5.7	2
12	Weight Regain in Formerly Obese Mice Hastens Development of Hepatic Steatosis Due to Impaired Adipose Tissue Function. <i>Obesity</i> , <b>2020</b> , 28, 1086-1097	8	2
11	Human CD206+ macrophages associate with diabetes and adipose tissue lymphoid clusters.. <i>JCI Insight</i> , <b>2022</b> ,	9.9	2
10	Water-fat magnetic resonance imaging quantifies relative proportions of brown and white adipose tissues: experiments. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 024007	2.6	2
9	Regulation of adipose tissue inflammation and systemic metabolism in murine obesity by polymer implants loaded with lentiviral vectors encoding human interleukin-4. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3891-3901	4.9	2
8	Elucidating nanoscale mechanical properties of diabetic human adipose tissue using atomic force microscopy. <i>Scientific Reports</i> , <b>2020</b> , 10, 20423	4.9	2
7	A Human 3D Extracellular Matrix-Adipocyte Culture Model for Studying Matrix-Cell Metabolic Crosstalk. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
6	Maternal High-Fat Diet During Pre-Conception and Gestation Predisposes Adult Female Offspring to Metabolic Dysfunction in Mice.. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 780300	5.7	1
5	High-fat and high-sodium diet induces metabolic dysfunction in the absence of obesity. <i>Obesity</i> , <b>2021</b> , 29, 1868-1881	8	0
4	Daily and intermittent corticosteroids have similar impact on recurrent wheezing in young children. <i>Journal of Pediatrics</i> , <b>2012</b> , 160, 881	3.6	
3	Infant pulmonary function testing guides therapy in cystic fibrosis lung disease. <i>Respiratory Medicine CME</i> , <b>2011</b> , 4, 17-19		

2 Inhaled corticosteroids do not prevent the development of asthma. *Journal of Pediatrics*, **2007**, 150, 1143.6

1 Stress-induced Epigenetic Programming for Adipogenesis, Role of Neuropeptide Y and Adipose Stem Cells. *FASEB Journal*, **2011**, 25, 1062.9 0.9