

Rana K Gupta

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

5,201
citations

147566

31
h-index

182168

51
g-index

57
all docs

57
docs citations

57
times ranked

6232
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking adipogenesis during white adipose tissue development, expansion and regeneration. <i>Nature Medicine</i> , 2013, 19, 1338-1344.	15.2	988
2	Transcriptional control of preadipocyte determination by Zfp423. <i>Nature</i> , 2010, 464, 619-623.	13.7	438
3	Zfp423 Expression Identifies Committed Preadipocytes and Localizes to Adipose Endothelial and Perivascular Cells. <i>Cell Metabolism</i> , 2012, 15, 230-239.	7.2	362
4	Contribution of adipogenesis to healthy adipose tissue expansion in obesity. <i>Journal of Clinical Investigation</i> , 2019, 129, 4022-4031.	3.9	326
5	Pdgfr ²⁺ Mural Preadipocytes Contribute to Adipocyte Hyperplasia Induced by High-Fat-Diet Feeding and Prolonged Cold Exposure in Adult Mice. <i>Cell Metabolism</i> , 2016, 23, 350-359.	7.2	259
6	Identification of functionally distinct fibro-inflammatory and adipogenic stromal subpopulations in visceral adipose tissue of adult mice. <i>ELife</i> , 2018, 7, .	2.8	227
7	Zfp423 Maintains White Adipocyte Identity through Suppression of the Beige Cell Thermogenic Gene Program. <i>Cell Metabolism</i> , 2016, 23, 1167-1184.	7.2	187
8	An Adipose Tissue Atlas: An Image-Guided Identification of Human-like BAT and Beige Depots in Rodents. <i>Cell Metabolism</i> , 2018, 27, 252-262.e3.	7.2	174
9	Warming Induces Significant Reprogramming of Beige, but Not Brown, Adipocyte Cellular Identity. <i>Cell Metabolism</i> , 2018, 27, 1121-1137.e5.	7.2	168
10	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. <i>Cell Metabolism</i> , 2019, 30, 174-189.e5.	7.2	141
11	Reversible De-differentiation of Mature White Adipocytes into Preadipocyte-like Precursors during Lactation. <i>Cell Metabolism</i> , 2018, 28, 282-288.e3.	7.2	116
12	De novo adipocyte differentiation from Pdgfr ²⁺ preadipocytes protects against pathologic visceral adipose expansion in obesity. <i>Nature Communications</i> , 2018, 9, 890.	5.8	113
13	Dermal adipose tissue has high plasticity and undergoes reversible dedifferentiation in mice. <i>Journal of Clinical Investigation</i> , 2019, 129, 5327-5342.	3.9	112
14	Distinct regulatory mechanisms governing embryonic versus adult adipocyte maturation. <i>Nature Cell Biology</i> , 2015, 17, 1099-1111.	4.6	111
15	Sorting out adipocyte precursors and their role in physiology and disease. <i>Genes and Development</i> , 2017, 31, 127-140.	2.7	104
16	Impact of tamoxifen on adipocyte lineage tracing: Inducer of adipogenesis and prolonged nuclear translocation of Cre recombinase. <i>Molecular Metabolism</i> , 2015, 4, 771-778.	3.0	103
17	Cellular Origins of Beige Fat Cells Revisited. <i>Diabetes</i> , 2019, 68, 1874-1885.	0.3	98
18	PARP-1 Controls the Adipogenic Transcriptional Program by PARylating C/EBP ² and Modulating Its Transcriptional Activity. <i>Molecular Cell</i> , 2017, 65, 260-271.	4.5	88

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19	Connexin 43 Mediates White Adipose Tissue Beiging by Facilitating the Propagation of Sympathetic Neuronal Signals. <i>Cell Metabolism</i> , 2016, 24, 420-433.	7.2	80
20	Adiponectin is essential for lipid homeostasis and survival under insulin deficiency and promotes β -cell regeneration. <i>ELife</i> , 2014, 3, .	2.8	74
21	Improved methodologies for the study of adipose biology: insights gained and opportunities ahead. <i>Journal of Lipid Research</i> , 2014, 55, 605-624.	2.0	68
22	The expanding problem of adipose depot remodeling and postnatal adipocyte progenitor recruitment. <i>Molecular and Cellular Endocrinology</i> , 2017, 445, 95-108.	1.6	62
23	Activation of natriuretic peptides and the sympathetic nervous system following Roux-en-Y gastric bypass is associated with gonadal adipose tissues browning. <i>Molecular Metabolism</i> , 2015, 4, 427-436.	3.0	60
24	Pathologic HIF1 α signaling drives adipose progenitor dysfunction in obesity. <i>Cell Stem Cell</i> , 2021, 28, 685-701.e7.	5.2	57
25	Fetal development of subcutaneous white adipose tissue is dependent on Zfp423. <i>Molecular Metabolism</i> , 2017, 6, 111-124.	3.0	56
26	Perivascular mesenchymal cells control adipose-tissue macrophage accrual in obesity. <i>Nature Metabolism</i> , 2020, 2, 1332-1349.	5.1	53
27	ER α upregulates Phd3 to ameliorate HIF-1 induced fibrosis and inflammation in adipose tissue. <i>Molecular Metabolism</i> , 2014, 3, 642-651.	3.0	39
28	Directing visceral white adipocyte precursors to a thermogenic adipocyte fate improves insulin sensitivity in obese mice. <i>ELife</i> , 2017, 6, .	2.8	39
29	Functional Interplay between Histone H2B ADP-Ribosylation and Phosphorylation Controls Adipogenesis. <i>Molecular Cell</i> , 2020, 79, 934-949.e14.	4.5	38
30	Acute loss of adipose tissue-derived adiponectin triggers immediate metabolic deterioration in mice. <i>Diabetologia</i> , 2018, 61, 932-941.	2.9	37
31	Adiponectin preserves metabolic fitness during aging. <i>ELife</i> , 2021, 10, .	2.8	37
32	Adipocyte Xbp1s overexpression drives uridine production and reduces obesity. <i>Molecular Metabolism</i> , 2018, 11, 1-17.	3.0	34
33	Peroxisome Proliferator-Activated Receptor α and Its Role in Adipocyte Homeostasis and Thiazolidinedione-Mediated Insulin Sensitization. <i>Molecular and Cellular Biology</i> , 2018, 38, .	1.1	33
34	Mitochondrial metabolism is a key regulator of the fibro-inflammatory and adipogenic stromal subpopulations in white adipose tissue. <i>Cell Stem Cell</i> , 2021, 28, 702-717.e8.	5.2	33
35	Regulator of Calcineurin 1 helps coordinate whole-body metabolism and thermogenesis. <i>EMBO Reports</i> , 2018, 19, .	2.0	30
36	Adipocytes. <i>Current Biology</i> , 2014, 24, R988-R993.	1.8	25

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37	Visceral Adipose Tissue Mesothelial Cells: Living on the Edge or Just Taking Up Space?. Trends in Endocrinology and Metabolism, 2015, 26, 515-523.	3.1	25
38	Hepatic GALE Regulates Whole-Body Glucose Homeostasis by Modulating <i>Tff3</i> Expression. Diabetes, 2017, 66, 2789-2799.	0.3	24
39	Multilayered omics reveal sex- and depot-dependent adipose progenitor cell heterogeneity. Cell Metabolism, 2022, 34, 783-799.e7.	7.2	24
40	Identifying Novel Transcriptional Components Controlling Energy Metabolism. Cell Metabolism, 2011, 14, 739-745.	7.2	20
41	Do Adipocytes Emerge from Mural Progenitors?. Cell Stem Cell, 2017, 20, 585-586.	5.2	20
42	Transcriptional brakes on the road to adipocyte thermogenesis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 20-28.	1.2	19
43	Role of Fractionated Fat in Blending the Lid-Cheek Junction. Plastic and Reconstructive Surgery, 2018, 142, 56-65.	0.7	17
44	Cold-responsive adipocyte progenitors couple adrenergic signaling to immune cell activation to promote beige adipocyte accrual. Genes and Development, 2021, 35, 1333-1338.	2.7	17
45	Adipose tissue hyaluronan production improves systemic glucose homeostasis and primes adipocytes for CL 316,243-stimulated lipolysis. Nature Communications, 2021, 12, 4829.	5.8	15
46	ZFP423 controls EBF2 coactivator recruitment and PPAR β occupancy to determine the thermogenic plasticity of adipocytes. Genes and Development, 2021, 35, 1461-1474.	2.7	15
47	Regulation of cold-induced thermogenesis by the RNA binding protein FAM195A. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	13
48	The next decade of metabolism. Nature Metabolism, 2019, 1, 2-4.	5.1	8
49	Isolation of Adipogenic and Fibro-Inflammatory Stromal Cell Subpopulations from Murine Intra-Abdominal Adipose Depots. Journal of Visualized Experiments, 2020, , .	0.2	6
50	Introduction to the Thematic Review Series: Adipose Biology. Journal of Lipid Research, 2019, 60, 1646-1647.	2.0	2
51	Cellular and molecular brakes on adipogenesis. Nature Metabolism, 2022, 4, 13-14.	5.1	1
52	Single-Cell RNA Sequencing Identifies Functionally Distinct Fibro-inflammatory and Adipogenic Pdgfr Progenitor Subpopulations in Visceral Adipose Tissue. SSRN Electronic Journal, 0, , .	0.4	0