

# Patrick Seale

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

16,440  
citations

61984

43  
h-index

98798

67  
g-index

69  
all docs

69  
docs citations

69  
times ranked

16102  
citing authors

#	ARTICLE	IF	CITATIONS
1	PRDM16 controls a brown fat/skeletal muscle switch. <i>Nature</i> , 2008, 454, 961-967.	27.8	1,997
2	Brown and beige fat: development, function and therapeutic potential. <i>Nature Medicine</i> , 2013, 19, 1252-1263.	30.7	1,846
3	Prdm16 determines the thermogenic program of subcutaneous white adipose tissue in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 96-105.	8.2	1,036
4	Transcriptional Control of Brown Fat Determination by PRDM16. <i>Cell Metabolism</i> , 2007, 6, 38-54.	16.2	996
5	Group 2 innate lymphoid cells promote beiging of white adipose tissue and limit obesity. <i>Nature</i> , 2015, 519, 242-246.	27.8	788
6	Brown and Beige Fat: Physiological Roles beyond Heat Generation. <i>Cell Metabolism</i> , 2015, 22, 546-559.	16.2	763
7	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. <i>Cell</i> , 2014, 156, 304-316.	28.9	719
8	Initiation of myoblast to brown fat switch by a PRDM16/C/EBP- $\beta$ transcriptional complex. <i>Nature</i> , 2009, 460, 1154-1158.	27.8	620
9	Complementary action of the PGC-1 coactivators in mitochondrial biogenesis and brown fat differentiation. <i>Cell Metabolism</i> , 2006, 3, 333-341.	16.2	548
10	Control of brown and beige fat development. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 691-702.	37.0	507
11	Transcriptional control of preadipocyte determination by Zfp423. <i>Nature</i> , 2010, 464, 619-623.	27.8	438
12	Regeneration of fat cells from myofibroblasts during wound healing. <i>Science</i> , 2017, 355, 748-752.	12.6	434
13	Identification of a mesenchymal progenitor cell hierarchy in adipose tissue. <i>Science</i> , 2019, 364, .	12.6	400
14	Regulation of the brown and white fat gene programs through a PRDM16/CtBP transcriptional complex. <i>Genes and Development</i> , 2008, 22, 1397-1409.	5.9	393
15	Transcriptional Control of Brown Fat Development. <i>Cell Metabolism</i> , 2010, 11, 257-262.	16.2	362
16	Beige Can Be Slimming. <i>Science</i> , 2010, 328, 1113-1114.	12.6	308
17	Prdm16 Is Required for the Maintenance of Brown Adipocyte Identity and Function in Adult Mice. <i>Cell Metabolism</i> , 2014, 19, 593-604.	16.2	307
18	EBF2 Determines and Maintains Brown Adipocyte Identity. <i>Cell Metabolism</i> , 2013, 17, 562-574.	16.2	305

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19	Adipose-tissue plasticity in health and disease. <i>Cell</i> , 2022, 185, 419-446.	28.9	252
20	Transcriptional control of brown adipocyte development and physiological function of mice and men. <i>Genes and Development</i> , 2009, 23, 788-797.	5.9	250
21	MicroRNA-133 Controls Brown Adipose Determination in Skeletal Muscle Satellite Cells by Targeting Prdm16. <i>Cell Metabolism</i> , 2013, 17, 210-224.	16.2	249
22	The nuclear receptor Rev-erb $\alpha$ controls circadian thermogenic plasticity. <i>Nature</i> , 2013, 503, 410-413.	27.8	228
23	Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. <i>ELife</i> , 2020, 9, .	6.0	191
24	Zfp423 Maintains White Adipocyte Identity through Suppression of the Beige Cell Thermogenic Gene Program. <i>Cell Metabolism</i> , 2016, 23, 1167-1184.	16.2	187
25	Ebf2 is a selective marker of brown and beige adipogenic precursor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14466-14471.	7.1	178
26	Histone deacetylase 3 prepares brown adipose tissue for acute thermogenic challenge. <i>Nature</i> , 2017, 546, 544-548.	27.8	149
27	Brown Fat in Humans: Turning up the Heat on Obesity. <i>Diabetes</i> , 2009, 58, 1482-1484.	0.6	142
28	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. <i>Cell Metabolism</i> , 2019, 30, 174-189.e5.	16.2	141
29	Transcriptional Regulatory Circuits Controlling Brown Fat Development and Activation. <i>Diabetes</i> , 2015, 64, 2369-2375.	0.6	123
30	PRDM16 binds MED1 and controls chromatin architecture to determine a brown fat transcriptional program. <i>Genes and Development</i> , 2015, 29, 298-307.	5.9	112
31	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. <i>Genes and Development</i> , 2016, 30, 2551-2564.	5.9	100
32	Deep sequencing reveals cell-type-specific patterns of single-cell transcriptome variation. <i>Genome Biology</i> , 2015, 16, 122.	9.6	95
33	Thermogenic Activity of UCP1 in Human White Fat-Derived Beige Adipocytes. <i>Molecular Endocrinology</i> , 2015, 29, 130-139.	3.7	85
34	EBF2 promotes the recruitment of beige adipocytes in white adipose tissue. <i>Molecular Metabolism</i> , 2016, 5, 57-65.	6.5	83
35	Tyk2 and Stat3 Regulate Brown Adipose Tissue Differentiation and Obesity. <i>Cell Metabolism</i> , 2012, 16, 814-824.	16.2	81
36	Transcriptional Control of Brown and Beige Fat Development and Function. <i>Obesity</i> , 2019, 27, 13-21.	3.0	77

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37	The Role of PDE3B Phosphorylation in the Inhibition of Lipolysis by Insulin. <i>Molecular and Cellular Biology</i> , 2015, 35, 2752-2760.	2.3	73
38	Rapamycin Blocks Induction of the Thermogenic Program in White Adipose Tissue. <i>Diabetes</i> , 2016, 65, 927-941.	0.6	67
39	EBF2 transcriptionally regulates brown adipogenesis via the histone reader DPF3 and the BAF chromatin remodeling complex. <i>Genes and Development</i> , 2017, 31, 660-673.	5.9	64
40	PRDM16 represses the type I interferon response in adipocytes to promote mitochondrial and thermogenic programming. <i>EMBO Journal</i> , 2017, 36, 1528-1542.	7.8	63
41	Defining the lineage of thermogenic perivascular adipose tissue. <i>Nature Metabolism</i> , 2021, 3, 469-484.	11.9	63
42	PRDM16 Maintains Homeostasis of the Intestinal Epithelium by Controlling Region-Specific Metabolism. <i>Cell Stem Cell</i> , 2019, 25, 830-845.e8.	11.1	62
43	Lack of AKT in adipocytes causes severe lipodystrophy. <i>Molecular Metabolism</i> , 2016, 5, 472-479.	6.5	56
44	Interrogation of nonconserved human adipose lincRNAs identifies a regulatory role of <i>linc-ADAL</i> in adipocyte metabolism. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	42
45	Single-cell transcriptomics and functional target validation of brown adipocytes show their complex roles in metabolic homeostasis. <i>FASEB Journal</i> , 2016, 30, 81-92.	0.5	39
46	SnapShot: Brown and Beige Adipose Thermogenesis. <i>Cell</i> , 2016, 166, 258-258.e1.	28.9	38
47	Prdm16 Deficiency Leads to Age-Dependent Cardiac Hypertrophy, Adverse Remodeling, Mitochondrial Dysfunction, and Heart Failure. <i>Cell Reports</i> , 2020, 33, 108288.	6.4	36
48	Early B Cell Factor Activity Controls Developmental and Adaptive Thermogenic Gene Programming in Adipocytes. <i>Cell Reports</i> , 2020, 30, 2869-2878.e4.	6.4	36
49	Thymic stromal lymphopoietin induces adipose loss through sebum hypersecretion. <i>Science</i> , 2021, 373, .	12.6	36
50	Functions of Prdm16 in thermogenic fat cells. <i>Temperature</i> , 2015, 2, 65-72.	3.0	35
51	Genetically altering organismal metabolism by leptin-deficiency benefits a mouse model of amyotrophic lateral sclerosis. <i>Human Molecular Genetics</i> , 2014, 23, 4995-5008.	2.9	32
52	p107 Is a Crucial Regulator for Determining the Adipocyte Lineage Fate Choices of Stem Cells. <i>Stem Cells</i> , 2014, 32, 1323-1336.	3.2	28
53	Shared PPAR $\alpha$ / $\beta$ Target Genes Regulate Brown Adipocyte Thermogenic Function. <i>Cell Reports</i> , 2020, 30, 3079-3091.e5.	6.4	26
54	Dpp4+ interstitial progenitor cells contribute to basal and high fat diet-induced adipogenesis. <i>Molecular Metabolism</i> , 2021, 54, 101357.	6.5	25

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55	An Evi1-C/EBP $\beta$ Complex Controls Peroxisome Proliferator-Activated Receptor $\beta$ Gene Expression To Initiate White Fat Cell Differentiation. <i>Molecular and Cellular Biology</i> , 2012, 32, 2289-2299.	2.3	19
56	Neonatal GLP1R activation limits adult adiposity by durably altering hypothalamic architecture. <i>Molecular Metabolism</i> , 2017, 6, 748-759.	6.5	16
57	Hepatic AKT orchestrates adipose tissue thermogenesis via FGF21-dependent and -independent mechanisms. <i>Cell Reports</i> , 2021, 35, 109128.	6.4	15
58	ZFP423 controls EBF2 coactivator recruitment and PPAR $\beta$ occupancy to determine the thermogenic plasticity of adipocytes. <i>Genes and Development</i> , 2021, 35, 1461-1474.	5.9	15
59	Marrow adipogenic lineage precursor: A new cellular component of marrow adipose tissue. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2021, 35, 101518.	4.7	14
60	Skinny Fat Cells Stimulate Wound Healing. <i>Cell Stem Cell</i> , 2020, 26, 801-803.	11.1	9
61	Deficiency of bone morphogenetic protein-3b induces metabolic syndrome and increases adipogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E363-E375.	3.5	9
62	Orexin Turns Up the Heat on Obesity. <i>Cell Metabolism</i> , 2011, 14, 441-442.	16.2	7
63	Brown adipose tissue biology and therapeutic potential. <i>Frontiers in Endocrinology</i> , 2013, 4, 14.	3.5	7
64	Transient expansion and myofibroblast conversion of adipogenic lineage precursors mediate bone marrow repair after radiation. <i>JCI Insight</i> , 2022, 7, .	5.0	7
65	Stepping Up Human Beige Fat Cell Production. <i>Cell Reports</i> , 2018, 25, 2935-2936.	6.4	4
66	Neonatal IL-4 exposure decreases adipogenesis of male rats into adulthood. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E1148-E1157.	3.5	3
67	Enhancing brown fat with NFIA. <i>Nature Cell Biology</i> , 2017, 19, 1006-1007.	10.3	2