

# Carl R Walkley

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

9,318  
citations

76196

40  
h-index

40881

93  
g-index

120  
all docs

120  
docs citations

120  
times ranked

13884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Telomere dysfunction induces metabolic and mitochondrial compromise. <i>Nature</i> , 2011, 470, 359-365.	13.7	1,093
2	Prostaglandin E2 regulates vertebrate haematopoietic stem cell homeostasis. <i>Nature</i> , 2007, 447, 1007-1011.	13.7	1,087
3	RNA editing by ADAR1 prevents MDA5 sensing of endogenous dsRNA as nonself. <i>Science</i> , 2015, 349, 1115-1120.	6.0	661
4	Dynamic landscape and regulation of RNA editing in mammals. <i>Nature</i> , 2017, 550, 249-254.	13.7	495
5	A Microenvironment-Induced Myeloproliferative Syndrome Caused by Retinoic Acid Receptor $\hat{1}^3$ Deficiency. <i>Cell</i> , 2007, 129, 1097-1110.	13.5	490
6	ADAR1 is essential for the maintenance of hematopoiesis and suppression of interferon signaling. <i>Nature Immunology</i> , 2009, 10, 109-115.	7.0	422
7	Rb Regulates Interactions between Hematopoietic Stem Cells and Their Bone Marrow Microenvironment. <i>Cell</i> , 2007, 129, 1081-1095.	13.5	380
8	Developmental and species-divergent globin switching are driven by BCL11A. <i>Nature</i> , 2009, 460, 1093-1097.	13.7	339
9	Conditional mouse osteosarcoma, dependent on p53 loss and potentiated by loss of Rb, mimics the human disease. <i>Genes and Development</i> , 2008, 22, 1662-1676.	2.7	326
10	Hematopoietic AMPK $\hat{1}^2$ reduces mouse adipose tissue macrophage inflammation and insulin resistance in obesity. <i>Journal of Clinical Investigation</i> , 2011, 121, 4903-4915.	3.9	291
11	Terminal osteoblast differentiation, mediated by runx2 and p27KIP1, is disrupted in osteosarcoma. <i>Journal of Cell Biology</i> , 2004, 167, 925-934.	2.3	198
12	RAR $\hat{1}^3$ is critical for maintaining a balance between hematopoietic stem cell self-renewal and differentiation. <i>Journal of Experimental Medicine</i> , 2006, 203, 1283-1293.	4.2	181
13	MAD1 and c-MYC regulate UBF and rDNA transcription during granulocyte differentiation. <i>EMBO Journal</i> , 2004, 23, 3325-3335.	3.5	166
14	Cells of origin in osteosarcoma: Mesenchymal stem cells or osteoblast committed cells?. <i>Bone</i> , 2014, 62, 56-63.	1.4	166
15	Rewriting the transcriptome: adenosine-to-inosine RNA editing by ADARs. <i>Genome Biology</i> , 2017, 18, 205.	3.8	161
16	ADAR1 masks the cancer immunotherapeutic promise of ZBP1-driven necroptosis. <i>Nature</i> , 2022, 606, 594-602.	13.7	149
17	Deciphering Hematopoietic Stem Cells in Their Niches: A Critical Appraisal of Genetic Models, Lineage Tracing, and Imaging Strategies. <i>Cell Stem Cell</i> , 2013, 13, 520-533.	5.2	148
18	Erythropoietin couples erythropoiesis, B-lymphopoiesis, and bone homeostasis within the bone marrow microenvironment. <i>Blood</i> , 2011, 117, 5631-5642.	0.6	123

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19	<i>Rb</i> intrinsically promotes erythropoiesis by coupling cell cycle exit with mitochondrial biogenesis. <i>Genes and Development</i> , 2008, 22, 463-475.	2.7	118
20	Negative cell-cycle regulators cooperatively control self-renewal and differentiation of haematopoietic stem cells. <i>Nature Cell Biology</i> , 2005, 7, 172-178.	4.6	105
21	BET inhibitors induce apoptosis through a MYC independent mechanism and synergise with CDK inhibitors to kill osteosarcoma cells. <i>Scientific Reports</i> , 2015, 5, 10120.	1.6	103
22	Brief Report: The Differential Roles of mTORC1 and mTORC2 in Mesenchymal Stem Cell Differentiation. <i>Stem Cells</i> , 2015, 33, 1359-1365.	1.4	82
23	Generation and Analysis of <i>Siah2</i> Mutant Mice. <i>Molecular and Cellular Biology</i> , 2003, 23, 9150-9161.	1.1	69
24	The majority of A-to-I RNA editing is not required for mammalian homeostasis. <i>Genome Biology</i> , 2019, 20, 268.	3.8	68
25	Modeling distinct osteosarcoma subtypes in vivo using Cre:lox and lineage-restricted transgenic shRNA. <i>Bone</i> , 2013, 55, 166-178.	1.4	65
26	Protein recoding by ADAR1-mediated RNA editing is not essential for normal development and homeostasis. <i>Genome Biology</i> , 2017, 18, 166.	3.8	64
27	<i>Rb</i> is dispensable for self-renewal and multilineage differentiation of adult hematopoietic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9057-9062.	3.3	63
28	Increased miR-155-5p and reduced miR-148a-3p contribute to the suppression of osteosarcoma cell death. <i>Oncogene</i> , 2016, 35, 5282-5294.	2.6	60
29	MAD1 and p27 KIP1 Cooperate To Promote Terminal Differentiation of Granulocytes and To Inhibit Myc Expression and Cyclin E-CDK2 Activity. <i>Molecular and Cellular Biology</i> , 2002, 22, 3014-3023.	1.1	58
30	Systematic Screening Identifies Dual PI3K and mTOR Inhibition as a Conserved Therapeutic Vulnerability in Osteosarcoma. <i>Clinical Cancer Research</i> , 2015, 21, 3216-3229.	3.2	58
31	Retinoic acid receptor antagonism in vivo expands the numbers of precursor cells during granulopoiesis. <i>Leukemia</i> , 2002, 16, 1763-1772.	3.3	54
32	ADAR1, inosine and the immune sensing system: distinguishing self from non-self. <i>Wiley Interdisciplinary Reviews RNA</i> , 2016, 7, 157-172.	3.2	54
33	Adar3 Is Involved in Learning and Memory in Mice. <i>Frontiers in Neuroscience</i> , 2018, 12, 243.	1.4	54
34	Immune response to RB1-regulated senescence limits radiation-induced osteosarcoma formation. <i>Journal of Clinical Investigation</i> , 2013, 123, 5351-5360.	3.9	54
35	Adenosine-to-inosine RNA editing by ADAR1 is essential for normal murine erythropoiesis. <i>Experimental Hematology</i> , 2016, 44, 947-963.	0.2	52
36	mTORC1 Plays an Important Role in Skeletal Development by Controlling Preosteoblast Differentiation. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	51

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37	Defining the Minimal Factors Required for Erythropoiesis through Direct Lineage Conversion. <i>Cell Reports</i> , 2016, 15, 2550-2562.	2.9	48
38	The Rothmund-Thomson syndrome helicase RECQL4 is essential for hematopoiesis. <i>Journal of Clinical Investigation</i> , 2014, 124, 3551-3565.	3.9	48
39	<scp>ADAR</scp> 1-mediated <scp>RNA</scp> editing is required for thymic self-tolerance and inhibition of autoimmunity. <i>EMBO Reports</i> , 2018, 19, .	2.0	47
40	HIF-1 $\alpha$ is required for hematopoietic stem cell mobilization and 4-prolyl hydroxylase inhibitors enhance mobilization by stabilizing HIF-1 $\alpha$ . <i>Leukemia</i> , 2015, 29, 1366-1378.	3.3	45
41	Knockdown of PTHR1 in osteosarcoma cells decreases invasion and growth and increases tumor differentiation in vivo. <i>Oncogene</i> , 2015, 34, 2922-2933.	2.6	45
42	Srsf2 P95H initiates myeloid bias and myelodysplastic/myeloproliferative syndrome from hemopoietic stem cells. <i>Blood</i> , 2018, 132, 608-621.	0.6	45
43	PDGF-AB and 5-Azacytidine induce conversion of somatic cells into tissue-regenerative multipotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2306-15.	3.3	40
44	Activation of PTHrP-cAMP-CREB1 signaling following p53 loss is essential for osteosarcoma initiation and maintenance. <i>ELife</i> , 2016, 5, .	2.8	38
45	Identification of the molecular requirements for an RAR $\alpha$ -mediated cell cycle arrest during granulocytic differentiation. <i>Blood</i> , 2004, 103, 1286-1295.	0.6	36
46	The Transcription Factor ASCIZ and Its Target DYNLL1 Are Essential for the Development and Expansion of MYC-Driven B Cell Lymphoma. <i>Cell Reports</i> , 2016, 14, 1488-1499.	2.9	36
47	The Zinc-finger protein ASCIZ regulates B cell development via DYNLL1 and Bim. <i>Journal of Experimental Medicine</i> , 2012, 209, 1629-1639.	4.2	35
48	Direct identification of A-to-I editing sites with nanopore native RNA sequencing. <i>Nature Methods</i> , 2022, 19, 833-844.	9.0	35
49	The DNA Helicase Recq14 Is Required for Normal Osteoblast Expansion and Osteosarcoma Formation. <i>PLoS Genetics</i> , 2015, 11, e1005160.	1.5	34
50	Genetically engineered mouse models and human osteosarcoma. <i>Clinical Sarcoma Research</i> , 2012, 2, 19.	2.3	33
51	Modeling human osteosarcoma in the mouse: From bedside to bench. <i>Bone</i> , 2010, 47, 859-865.	1.4	32
52	What do editors do? Understanding the physiological functions of A-to-I RNA editing by adenosine deaminase acting on RNAs. <i>Open Biology</i> , 2020, 10, 200085.	1.5	31
53	Wnt inhibitory factor 1 (WIF1) is a marker of osteoblastic differentiation stage and is not silenced by DNA methylation in osteosarcoma. <i>Bone</i> , 2015, 73, 223-232.	1.4	27
54	The role of RNA editing by ADAR1 in prevention of innate immune sensing of self-RNA. <i>Journal of Molecular Medicine</i> , 2016, 94, 1095-1102.	1.7	26

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55	RAR $\beta$ is a negative regulator of osteoclastogenesis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 150, 46-53.	1.2	25
56	Smac mimetics LCL161 and GDC-0152 inhibit osteosarcoma growth and metastasis in mice. <i>BMC Cancer</i> , 2019, 19, 924.	1.1	24
57	Design, Synthesis, and Biological Activity of 1,2,3-Triazolobenzodiazepine BET Bromodomain Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1298-1303.	1.3	23
58	ADAR1-Dependent RNA Editing Promotes MET and iPSC Reprogramming by Alleviating ER Stress. <i>Cell Stem Cell</i> , 2020, 27, 300-314.e11.	5.2	22
59	Granulocyte Colony-Stimulating Factor and an RAR $\beta$ Specific Agonist, VTP195183, Synergize to Enhance the Mobilization of Hematopoietic Progenitor Cells. <i>Transplantation</i> , 2007, 83, 375-384.	0.5	21
60	Fak depletion in both hematopoietic and nonhematopoietic niche cells leads to hematopoietic stem cell expansion. <i>Experimental Hematology</i> , 2012, 40, 307-317.e3.	0.2	20
61	Src family kinases and their role in hematological malignancies. <i>Leukemia and Lymphoma</i> , 2015, 56, 577-586.	0.6	19
62	Loss of ephrinB1 in osteogenic progenitor cells impedes endochondral ossification and compromises bone strength integrity during skeletal development. <i>Bone</i> , 2016, 93, 12-21.	1.4	19
63	ATP-dependent helicase activity is dispensable for the physiological functions of Recq14. <i>PLoS Genetics</i> , 2019, 15, e1008266.	1.5	19
64	Erythropoiesis, anemia and the bone marrow microenvironment. <i>International Journal of Hematology</i> , 2011, 93, 10-13.	0.7	18
65	The SKI proto-oncogene enhances the in vivo repopulation of hematopoietic stem cells and causes myeloproliferative disease. <i>Haematologica</i> , 2014, 99, 647-655.	1.7	18
66	Ssb1 and Ssb2 cooperate to regulate mouse hematopoietic stem and progenitor cells by resolving replicative stress. <i>Blood</i> , 2017, 129, 2479-2492.	0.6	18
67	Small animal models for the study of bone sarcoma pathogenesis: characteristics, therapeutic interests and limitations. <i>Journal of Bone Oncology</i> , 2018, 12, 7-13.	1.0	18
68	Rb and hematopoiesis: stem cells to anemia. <i>Cell Division</i> , 2008, 3, 13.	1.1	17
69	Erythroid-extrinsic regulation of normal erythropoiesis by retinoic acid receptors. <i>British Journal of Haematology</i> , 2014, 164, 280-285.	1.2	17
70	mTORC1 plays an important role in osteoblastic regulation of B-lymphopoiesis. <i>Scientific Reports</i> , 2018, 8, 14501.	1.6	17
71	IAP antagonists sensitize murine osteosarcoma cells to killing by TNF $\alpha$ . <i>Oncotarget</i> , 2016, 7, 33866-33886.	0.8	17
72	Murine models of osteosarcoma: A piece of the translational puzzle. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 4241-4250.	1.2	16

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73	Dynamic regulation of Z-DNA in the mouse prefrontal cortex by the RNA-editing enzyme Adar1 is required for fear extinction. <i>Nature Neuroscience</i> , 2020, 23, 718-729.	7.1	16
74	Cell Division and Hematopoietic Stem Cells: Not Always Exhausting. <i>Cell Cycle</i> , 2005, 4, 893-896.	1.3	15
75	Osteosarcoma in the Post Genome Era: Preclinical Models and Approaches to Identify Tractable Therapeutic Targets. <i>Current Osteoporosis Reports</i> , 2019, 17, 343-352.	1.5	15
76	Hematopoietic stem and progenitor cell-restricted Cdx2 expression induces transformation to myelodysplasia and acute leukemia. <i>Nature Communications</i> , 2020, 11, 3021.	5.8	15
77	Ciliary neurotrophic factor has intrinsic and extrinsic roles in regulating B cell differentiation and bone structure. <i>Scientific Reports</i> , 2015, 5, 15529.	1.6	14
78	Cell death following the loss of ADAR1 mediated A-to-I RNA editing is not effected by the intrinsic apoptosis pathway. <i>Cell Death and Disease</i> , 2019, 10, 913.	2.7	13
79	Modeling human RNA spliceosome mutations in the mouse: not all mice were created equal. <i>Experimental Hematology</i> , 2019, 70, 10-23.	0.2	13
80	ADAR1 Is Essential For Erythroid Development. <i>Blood</i> , 2013, 122, 9-9.	0.6	13
81	Tolerance to sustained activation of the cAMP/Creb pathway activity in osteoblastic cells is enabled by loss of p53. <i>Cell Death and Disease</i> , 2018, 9, 844.	2.7	12
82	Osteopenia in Siah1a Mutant Mice. <i>Journal of Biological Chemistry</i> , 2004, 279, 29583-29588.	1.6	11
83	PTHrP, its receptor, and protein kinase A activation in osteosarcoma. <i>Molecular and Cellular Oncology</i> , 2014, 1, e965624.	0.3	11
84	Role of ADARs in Mouse Development. <i>Current Topics in Microbiology and Immunology</i> , 2011, 353, 197-220.	0.7	10
85	Murine Models of Bone Sarcomas. <i>Methods in Molecular Biology</i> , 2019, 1914, 331-342.	0.4	9
86	Defining the hematopoietic stem cell niche: The chicken and the egg conundrum. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 1486-1490.	1.2	8
87	Darbepoietin-alfa has comparable erythropoietic stimulatory effects to recombinant erythropoietin whilst preserving the bone marrow microenvironment. <i>Haematologica</i> , 2013, 98, 686-690.	1.7	7
88	Defining the functions of adenosine-to-inosine RNA editing through hematology. <i>Current Opinion in Hematology</i> , 2019, 26, 241-248.	1.2	6
89	Enhancing mitochondrial function in vivo rescues MDS-like anemia induced by pRb deficiency. <i>Experimental Hematology</i> , 2020, 88, 28-41.	0.2	6
90	Rothmund-Thomson Syndrome-Like RECQL4 Truncating Mutations Cause a Haploinsufficient Low-Bone-Mass Phenotype in Mice. <i>Molecular and Cellular Biology</i> , 2021, 41, .	1.1	5

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91	Hemopoietic Cell Kinase amplification with Protein Tyrosine Phosphatase Receptor T depletion leads to polycythemia, aberrant marrow erythroid maturation, and splenomegaly. <i>Scientific Reports</i> , 2019, 9, 7050.	1.6	4
92	The Asymmetric Cell Division Regulators Par3, Scribble and Pins/Gpsm2 Are Not Essential for Erythroid Development or Enucleation. <i>PLoS ONE</i> , 2017, 12, e0170295.	1.1	4
93	Genome-wide screening identifies cell-cycle control as a synthetic lethal pathway with SRSF2P95H mutation. <i>Blood Advances</i> , 2022, 6, 2092-2106.	2.5	3
94	Taking HSCs Down a Notch in Leukemia. <i>Cell Stem Cell</i> , 2011, 8, 602-603.	5.2	1
95	Gene expression profiling to define the cell intrinsic role of the SKI proto-oncogene in hematopoiesis and myeloid neoplasms. <i>Genomics Data</i> , 2014, 2, 189-191.	1.3	1
96	Modeling osteosarcoma: in vitro and in vivo approaches. , 2015, , 195-204.		1
97	A-To-I RNA Editing By ADAR1 Is Essential For Hematopoiesis. <i>Blood</i> , 2013, 122, 1199-1199.	0.6	1
98	Control of self-renewal and differentiation of hematopoietic stem cells by negative cell-cycle regulators. <i>Experimental Hematology</i> , 2007, 35, 94-95.	0.2	0
99	Role of the polarity protein, scribble, in hematopoiesis and leukemia. <i>Experimental Hematology</i> , 2014, 42, S31.	0.2	0
100	The Cell Polarity and Scaffolding Protein, PAR3, Acts as A Tumour Suppressor in Acute Myeloid Leukemia Through Regulation of the Hippo Pathway. <i>Experimental Hematology</i> , 2018, 64, S63.	0.2	0
101	RAR $\beta$ is critical for maintaining a balance between hematopoietic stem cell self-renewal and differentiation. <i>Journal of Cell Biology</i> , 2006, 173, i9-i9.	2.3	0
102	Prostaglandin E2 Is a Potent Regulator of Vertebrate Hematopoietic Stem Cell Homeostasis.. <i>Blood</i> , 2006, 108, 680-680.	0.6	0
103	Rb Intrinsically Promotes Erythropoiesis by Coupling Cell Cycle Exit with Mitochondrial Biogenesis.. <i>Blood</i> , 2007, 110, 638-638.	0.6	0
104	A Mouse Model Of Rothmund-Thomson Syndrome Reveals An Essential Role For Recql4 In Maintenance Of Hematopoiesis. <i>Blood</i> , 2013, 122, 591-591.	0.6	0
105	Modeling Myelodysplastic Syndromes In Mice By Altered Hoxa1 Spliceform Expression. <i>Blood</i> , 2013, 122, 97-97.	0.6	0
106	Identification and Analysis of Oncogenic Pathways in Deletion 20q Acute Myeloid Leukaemia. <i>Blood</i> , 2014, 124, 5195-5195.	0.6	0
107	Direct Lineage Reprogramming of Murine Fibroblasts to Erythroid Progenitor Cells By Defined Factors. <i>Blood</i> , 2014, 124, 246-246.	0.6	0
108	Cdx2 Cooperates with Flt3-ITD to Induce Acute Myeloid Leukaemia in Mice. <i>Blood</i> , 2015, 126, 557-557.	0.6	0

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109	3149 “DNA REPAIR AND CELL CYCLE ARE SYNTHETIC LETHAL PATHWAYS IN SRSF2P95H MUTATED CELLS. Experimental Hematology, 2020, 88, S84.	0.2	0
110	Patience is a virtue. Blood, 2022, 139, 481-482.	0.6	0