

Stephen C Blacklow

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96
papers

10,024
citations

44
h-index

100
g-index

111
ext. papers

11,467
ext. citations

10.7
avg, IF

5.93
L-index

#	Paper	IF	Citations
96	Activating mutations of NOTCH1 in human T cell acute lymphoblastic leukemia. <i>Science</i> , 2004 , 306, 269-71	31.3	2184
95	c-Myc is an important direct target of Notch1 in T-cell acute lymphoblastic leukemia/lymphoma. <i>Genes and Development</i> , 2006 , 20, 2096-109	12.6	657
94	MAML1, a human homologue of Drosophila mastermind, is a transcriptional co-activator for NOTCH receptors. <i>Nature Genetics</i> , 2000 , 26, 484-9	36.3	455
93	Loss-of-function mutations in Notch receptors in cutaneous and lung squamous cell carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17761-6	11.5	340
92	Structural basis for cooperativity in recruitment of MAML coactivators to Notch transcription complexes. <i>Cell</i> , 2006 , 124, 973-83	56.2	335
91	Calcium depletion dissociates and activates heterodimeric notch receptors. <i>Molecular and Cellular Biology</i> , 2000 , 20, 1825-35	4.8	324
90	The Varied Roles of Notch in Cancer. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2017 , 12, 245-274	37.5	320
89	Growth suppression of pre-T acute lymphoblastic leukemia cells by inhibition of notch signaling. <i>Molecular and Cellular Biology</i> , 2003 , 23, 655-64	4.8	313
88	Structural basis for autoinhibition of Notch. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 295-300	17.6	263
87	Leukemia-associated mutations within the NOTCH1 heterodimerization domain fall into at least two distinct mechanistic classes. <i>Molecular and Cellular Biology</i> , 2006 , 26, 4642-51	4.8	206
86	Notch signaling in leukemia. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2008 , 3, 587-613	34	205
85	The molecular logic of Notch signaling--a structural and biochemical perspective. <i>Journal of Cell Science</i> , 2008 , 121, 3109-19	5.3	192
84	Genome-wide analysis reveals conserved and divergent features of Notch1/RBPJ binding in human and murine T-lymphoblastic leukemia cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14908-13	11.5	190
83	Mechanical Allostery: Evidence for a Force Requirement in the Proteolytic Activation of Notch. <i>Developmental Cell</i> , 2015 , 33, 729-36	10.2	184
82	NOTCH1-RBPJ complexes drive target gene expression through dynamic interactions with superenhancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 705-10	11.5	161
81	Notch subunit heterodimerization and prevention of ligand-independent proteolytic activation depend, respectively, on a novel domain and the LNR repeats. <i>Molecular and Cellular Biology</i> , 2004 , 24, 9265-73	4.8	161
80	Modulation of Notch signaling by antibodies specific for the extracellular negative regulatory region of NOTCH3. <i>Journal of Biological Chemistry</i> , 2008 , 283, 8046-54	5.4	155

79	Crystal Structure of a Full-Length Human Tetraspanin Reveals a Cholesterol-Binding Pocket. <i>Cell</i> , 2016 , 167, 1041-1051.e11	56.2	154
78	Structural requirements for assembly of the CSL intracellular Notch1 Mastermind-like 1 transcriptional activation complex. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21232-9	5.4	154
77	Mechanistic insights into Notch receptor signaling from structural and biochemical studies. <i>Current Topics in Developmental Biology</i> , 2010 , 92, 31-71	5.3	152
76	Epstein-Barr virus exploits intrinsic B-lymphocyte transcription programs to achieve immortal cell growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14902-7	11.5	146
75	Characterization of Notch1 antibodies that inhibit signaling of both normal and mutated Notch1 receptors. <i>PLoS ONE</i> , 2010 , 5, e9094	3.7	132
74	Notch signalling in T-cell lymphoblastic leukaemia/lymphoma and other haematological malignancies. <i>Journal of Pathology</i> , 2011 , 223, 262-73	9.4	129
73	Structure of the Notch1-negative regulatory region: implications for normal activation and pathogenic signaling in T-ALL. <i>Blood</i> , 2009 , 113, 4381-90	2.2	128
72	Cooperative assembly of higher-order Notch complexes functions as a switch to induce transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2103-8	11.5	127
71	Long-range enhancer activity determines Myc sensitivity to Notch inhibitors in T cell leukemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4946-53	11.5	125
70	Pre-TCR signaling inactivates Notch1 transcription by antagonizing E2A. <i>Genes and Development</i> , 2009 , 23, 1665-76	12.6	124
69	Differential ability of Tribbles family members to promote degradation of C/EBPalpha and induce acute myelogenous leukemia. <i>Blood</i> , 2010 , 116, 1321-8	2.2	102
68	Complementary genomic screens identify SERCA as a therapeutic target in NOTCH1 mutated cancer. <i>Cancer Cell</i> , 2013 , 23, 390-405	24.3	97
67	Intrinsic selectivity of Notch 1 for Delta-like 4 over Delta-like 1. <i>Journal of Biological Chemistry</i> , 2013 , 288, 25477-25489	5.4	91
66	Transformation by Tribbles homolog 2 (Trib2) requires both the Trib2 kinase domain and COP1 binding. <i>Blood</i> , 2010 , 116, 4948-57	2.2	90
65	Structural and mechanistic insights into cooperative assembly of dimeric Notch transcription complexes. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 1312-7	17.6	88
64	Dual Allosteric Inhibition of SHP2 Phosphatase. <i>ACS Chemical Biology</i> , 2018 , 13, 647-656	4.9	81
63	Deletion-based mechanisms of Notch1 activation in T-ALL: key roles for RAG recombinase and a conserved internal translational start site in Notch1. <i>Blood</i> , 2010 , 116, 5455-64	2.2	79
62	Identification of a conserved negative regulatory sequence that influences the leukemogenic activity of NOTCH1. <i>Molecular and Cellular Biology</i> , 2006 , 26, 6261-71	4.8	76

61	Effects of S1 cleavage on the structure, surface export, and signaling activity of human Notch1 and Notch2. <i>PLoS ONE</i> , 2009 , 4, e6613	3.7	74
60	Structural Basis for Regulated Proteolysis by the β Secretase ADAM10. <i>Cell</i> , 2017 , 171, 1638-1648.e7	56.2	72
59	Structural Basis for Substrate Selectivity of the E3 Ligase COP1. <i>Structure</i> , 2016 , 24, 687-696	5.2	62
58	Notch dimerization is required for leukemogenesis and T-cell development. <i>Genes and Development</i> , 2010 , 24, 2395-407	12.6	59
57	Structural reorganization of SHP2 by oncogenic mutations and implications for oncoprotein resistance to allosteric inhibition. <i>Nature Communications</i> , 2018 , 9, 4508	17.4	56
56	Targeting the Notch pathway: twists and turns on the road to rational therapeutics. <i>Journal of Clinical Oncology</i> , 2012 , 30, 2418-20	2.2	52
55	Evidence for increased exposure of the Notch1 metalloprotease cleavage site upon conversion to an activated conformation. <i>Structure</i> , 2011 , 19, 546-54	5.2	50
54	Conformational locking upon cooperative assembly of notch transcription complexes. <i>Structure</i> , 2012 , 20, 340-9	5.2	46
53	A B Cell Regulome Links Notch to Downstream Oncogenic Pathways in Small B Cell Lymphomas. <i>Cell Reports</i> , 2017 , 21, 784-797	10.6	45
52	Oncogenic Notch Promotes Long-Range Regulatory Interactions within Hyperconnected 3D Cliques. <i>Molecular Cell</i> , 2019 , 73, 1174-1190.e12	17.6	44
51	Mutational and energetic studies of Notch 1 transcription complexes. <i>Journal of Molecular Biology</i> , 2008 , 376, 131-40	6.5	44
50	Structural and Functional Consequences of Three Cancer-Associated Mutations of the Oncogenic Phosphatase SHP2. <i>Biochemistry</i> , 2016 , 55, 2269-77	3.2	41
49	Complete hematologic response of early T-cell progenitor acute lymphoblastic leukemia to the β Secretase inhibitor BMS-906024: genetic and epigenetic findings in an outlier case. <i>Journal of Physical Education and Sports Management</i> , 2015 , 1, a000539	2.8	40
48	Nuclear magnetic resonance structure of a prototype Lin12-Notch repeat module from human Notch1. <i>Biochemistry</i> , 2003 , 42, 7061-7	3.2	38
47	Insights into Autoregulation of Notch3 from Structural and Functional Studies of Its Negative Regulatory Region. <i>Structure</i> , 2015 , 23, 1227-35	5.2	37
46	Identification of an allosteric benzothiazolopyrimidone inhibitor of the oncogenic protein tyrosine phosphatase SHP2. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 6479-6485	3.4	34
45	Design of biologically active binary protein 2D materials. <i>Nature</i> , 2021 , 589, 468-473	50.4	33
44	Structural and Atropisomeric Factors Governing the Selectivity of Pyrimido-benzodiazepinones as Inhibitors of Kinases and Bromodomains. <i>ACS Chemical Biology</i> , 2018 , 13, 2438-2448	4.9	31

43	Structure of human POFUT1, its requirement in ligand-independent oncogenic Notch signaling, and functional effects of Dowling-Degos mutations. <i>Glycobiology</i> , 2017 , 27, 777-786	5.8	28
42	STK40 Is a Pseudokinase that Binds the E3 Ubiquitin Ligase COP1. <i>Structure</i> , 2017 , 25, 287-294	5.2	27
41	Notch and MAML-1 complexation do not detectably alter the DNA binding specificity of the transcription factor CSL. <i>PLoS ONE</i> , 2010 , 5, e15034	3.7	24
40	Human NOTCH2 Is Resistant to Ligand-independent Activation by Metalloprotease Adam17. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14705-16	5.4	23
39	Electrostatic Interactions between Elongated Monomers Drive Filamentation of Drosophila Shrub, a Metazoan ESCRT-III Protein. <i>Cell Reports</i> , 2016 , 16, 1211-1217	10.6	23
38	Development of a covalent inhibitor of gut bacterial bile salt hydrolases. <i>Nature Chemical Biology</i> , 2020 , 16, 318-326	11.7	22
37	Genome-wide identification and characterization of Notch transcription complex-binding sequence-paired sites in leukemia cells. <i>Science Signaling</i> , 2017 , 10,	8.8	21
36	Pharmacological disruption of the Notch transcription factor complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16292-16301	11.5	21
35	The common oncogenomic program of NOTCH1 and NOTCH3 signaling in T-cell acute lymphoblastic leukemia. <i>PLoS ONE</i> , 2017 , 12, e0185762	3.7	21
34	A tail of two sites: a bipartite mechanism for recognition of notch ligands by mind bomb E3 ligases. <i>Molecular Cell</i> , 2015 , 57, 912-924	17.6	19
33	Structure and function of the Mind bomb E3 ligase in the context of Notch signal transduction. <i>Current Opinion in Structural Biology</i> , 2016 , 41, 38-45	8.1	18
32	The ectodomains determine ligand function in vivo and selectivity of DLL1 and DLL4 toward NOTCH1 and NOTCH2 in vitro. <i>ELife</i> , 2018 , 7,	8.9	18
31	Biophysics of Notch Signaling. <i>Annual Review of Biophysics</i> , 2021 , 50, 157-189	21.1	18
30	The Molecular Mechanism of Notch Activation. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1066, 47-58	3.6	17
29	Insights into Notch3 activation and inhibition mediated by antibodies directed against its negative regulatory region. <i>Journal of Molecular Biology</i> , 2013 , 425, 3192-204	6.5	17
28	Structural Basis for Regulation of ESCRT-III Complexes by Lgd. <i>Cell Reports</i> , 2017 , 19, 1750-1757	10.6	14
27	Cryo-EM structure of the B cell co-receptor CD19 bound to the tetraspanin CD81. <i>Science</i> , 2021 , 371, 300-305	33.3	13
26	Bispecific Forkhead Transcription Factor FoxN3 Recognizes Two Distinct Motifs with Different DNA Shapes. <i>Molecular Cell</i> , 2019 , 74, 245-253.e6	17.6	12

25	Domain integration of ADAM family proteins: Emerging themes from structural studies. <i>Experimental Biology and Medicine</i> , 2019 , 244, 1510-1519	3.7	10
24	A dynamic interaction between CD19 and the tetraspanin CD81 controls B cell co-receptor trafficking. <i>ELife</i> , 2020 , 9,	8.9	10
23	Extension of the Notch intracellular domain ankyrin repeat stack by NRARP promotes feedback inhibition of Notch signaling. <i>Science Signaling</i> , 2019 , 12,	8.8	8
22	Trib1 regulates T cell differentiation during chronic infection by restraining the effector program. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	8
21	Targeted Degradation of the Oncogenic Phosphatase SHP2. <i>Biochemistry</i> , 2021 , 60, 2593-2609	3.2	8
20	MAFB enhances oncogenic Notch signaling in T cell acute lymphoblastic leukemia. <i>Science Signaling</i> , 2017 , 10,	8.8	7
19	Notch ankyrin repeat domain variation influences leukemogenesis and Myc transactivation. <i>PLoS ONE</i> , 2011 , 6, e25645	3.7	7
18	, a DNA damage response gene, is required for Notch-mediated induction of squamous cell differentiation. <i>ELife</i> , 2020 , 9,	8.9	7
17	Time-resolved phosphoproteomics reveals scaffolding and catalysis-responsive patterns of SHP2-dependent signaling. <i>ELife</i> , 2021 , 10,	8.9	5
16	High-efficacy subcellular micropatterning of proteins using fibrinogen anchors. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	4
15	Crystal structure of the Tspan15 LEL domain reveals a conserved ADAM10 binding site. <i>Structure</i> , 2021 ,	5.2	3
14	A Flow-Extension Tethered Particle Motion Assay for Single-Molecule Proteolysis. <i>Biochemistry</i> , 2019 , 58, 2509-2518	3.2	2
13	Phosphorylation of SHP2 at Tyr62 enables acquired resistance to SHP2 allosteric inhibitors in FLT3-ITD-driven AML. <i>Cancer Research</i> , 2022 ,	10.1	2
12	Signal Transduction: Notch catches a Jagged edge. <i>Nature Chemical Biology</i> , 2017 , 13, 570-571	11.7	1
11	MAML1-Dependent Notch-Responsive Genes Exhibit Differing Cofactor Requirements for Transcriptional Activation. <i>Molecular and Cellular Biology</i> , 2020 , 40,	4.8	1
10	Refining a Jagged edge. <i>Structure</i> , 2013 , 21, 2100-1	5.2	1
9	Analyzing the nuclear complexes of Notch signaling by electrophoretic mobility shift assay. <i>Methods in Molecular Biology</i> , 2014 , 1187, 231-45	1.4	1
8	Familial Hypercholesterolaemia 2001 ,		1

7	Functional Analysis of Leukemia-Associated Mutations Involving the Heterodimerization Domain of NOTCH1.. <i>Blood</i> , 2005 , 106, 843-843	2.2	1
6	Time resolved quantitative phosphoproteomics reveals distinct patterns of SHP2 dependence in EGFR signaling		1
5	Structural Biology of Notch Signaling 2018 , 1-33		1
4	Enrichment of Tyrosine Phosphorylated Peptides for Quantitative Mass Spectrometry Analysis of RTK Signaling Dynamics.. <i>Bio-protocol</i> , 2022 , 12, e4311	0.9	
3	Gain-of-Function NOTCH1 Mutations Occur Frequently in Human T Cell Acute Lymphoblastic Leukemia.. <i>Blood</i> , 2004 , 104, 4-4	2.2	
2	Structure and function of E3 ubiquitin ligase mindbomb RING domain. <i>FASEB Journal</i> , 2012 , 26, 615.6	0.9	
1	Genome-Wide Analysis of NOTCH1, ETS Family Factors, and RUNX1 Binding in Human T Lymphoblastic Leukemia Cells Reveals Distinct Regulatory Elements. <i>Blood</i> , 2012 , 120, 1277-1277	2.2	