

# Derek W Abbott

## List of Publications by Citations

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59  
papers

5,497  
citations

33  
h-index

60  
g-index

60  
ext. papers

6,576  
ext. citations

11  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
59	Identification of RIP1 kinase as a specific cellular target of necrostatins. <i>Nature Chemical Biology</i> , <b>2008</b> , 4, 313-21	11.7	1368
58	The Crohn's disease protein, NOD2, requires RIP2 in order to induce ubiquitinylation of a novel site on NEMO. <i>Current Biology</i> , <b>2004</b> , 14, 2217-27	6.3	315
57	The Mycobacterium tuberculosis serine/threonine kinases PknA and PknB: substrate identification and regulation of cell shape. <i>Genes and Development</i> , <b>2005</b> , 19, 1692-704	12.6	289
56	A rapid method for determining protein kinase phosphorylation specificity. <i>Nature Methods</i> , <b>2004</b> , 1, 27-9	21.6	284
55	Cdk5 disruption attenuates tumor PD-L1 expression and promotes antitumor immunity. <i>Science</i> , <b>2016</b> , 353, 399-403	33.3	203
54	Feedback inhibition of Akt signaling limits the growth of tumors lacking Tsc2. <i>Genes and Development</i> , <b>2005</b> , 19, 1773-8	12.6	201
53	Chemical disruption of the pyroptotic pore-forming protein gasdermin D inhibits inflammatory cell death and sepsis. <i>Science Immunology</i> , <b>2018</b> , 3,	28	184
52	NOD2 pathway activation by MDP or Mycobacterium tuberculosis infection involves the stable polyubiquitination of Rip2. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 36223-9	5.4	179
51	BRCA1 expression restores radiation resistance in BRCA1-defective cancer cells through enhancement of transcription-coupled DNA repair. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 18808-12	5.4	177
50	Phosphorylation of the tumor suppressor CYLD by the breast cancer oncogene IKKepsilon promotes cell transformation. <i>Molecular Cell</i> , <b>2009</b> , 34, 461-72	17.6	172
49	Coordinated regulation of Toll-like receptor and NOD2 signaling by K63-linked polyubiquitin chains. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 6012-25	4.8	150
48	Homophilic CD44 Interactions Mediate Tumor Cell Aggregation and Polyclonal Metastasis in Patient-Derived Breast Cancer Models. <i>Cancer Discovery</i> , <b>2019</b> , 9, 96-113	24.4	142
47	Inhibition of RIP2's tyrosine kinase activity limits NOD2-driven cytokine responses. <i>Genes and Development</i> , <b>2010</b> , 24, 2666-77	12.6	139
46	IkappaB kinase beta phosphorylates the K63 deubiquitinase A20 to cause feedback inhibition of the NF-kappaB pathway. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 7451-61	4.8	127
45	ITCH K63-ubiquitinates the NOD2 binding protein, RIP2, to influence inflammatory signaling pathways. <i>Current Biology</i> , <b>2009</b> , 19, 1255-63	6.3	109
44	Active Caspase-1 Induces Plasma Membrane Pores That Precede Pyroptotic Lysis and Are Blocked by Lanthanides. <i>Journal of Immunology</i> , <b>2016</b> , 197, 1353-67	5.3	106
43	Mitogen-activated protein kinase kinase 2 activation is essential for progression through the G2/M checkpoint arrest in cells exposed to ionizing radiation. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 2732-42	5.4	103

42	N-GSDMD trafficking to neutrophil organelles facilitates IL-1 $\beta$ release independently of plasma membrane pores and pyroptosis. <i>Nature Communications</i> , <b>2020</b> , 11, 2212	17.4	100
41	The kinase IKK $\alpha$ inhibits activation of the transcription factor NF- $\kappa$ B by phosphorylating the regulatory molecule TAX1BP1. <i>Nature Immunology</i> , <b>2011</b> , 12, 834-43	19.1	85
40	Mechanism of gasdermin D recognition by inflammatory caspases and their inhibition by a gasdermin D-derived peptide inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6792-6797	11.5	73
39	In vivo inhibition of RIPK2 kinase alleviates inflammatory disease. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 29651-64	5.4	67
38	Crystal Structures of the Full-Length Murine and Human Gasdermin D Reveal Mechanisms of Autoinhibition, Lipid Binding, and Oligomerization. <i>Immunity</i> , <b>2019</b> , 51, 43-49.e4	32.3	66
37	Binding of pro-p115 to filamin A disrupts cytoskeleton and correlates with poor prognosis in pancreatic cancer. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 2725-36	15.9	65
36	IL-33 promotes recovery from acute colitis by inducing miR-320 to stimulate epithelial restitution and repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E9362-E9370	11.5	62
35	ABIN-1 regulates RIPK1 activation by linking Met1 ubiquitylation with Lys63 deubiquitylation in TNF-RSC. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 58-68	23.4	54
34	A novel motif in the Crohn's disease susceptibility protein, NOD2, allows TRAF4 to down-regulate innate immune responses. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 1938-50	5.4	49
33	IL-33 Drives Eosinophil Infiltration and Pathogenic Type 2 Helper T-Cell Immune Responses Leading to Chronic Experimental Ileitis. <i>American Journal of Pathology</i> , <b>2016</b> , 186, 885-98	5.8	47
32	Structures of the Gasdermin D C-Terminal Domains Reveal Mechanisms of Autoinhibition. <i>Structure</i> , <b>2018</b> , 26, 778-784.e3	5.2	43
31	Ubiquitination and phosphorylation in the regulation of NOD2 signaling and NOD2-mediated disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2012</b> , 1823, 2022-8	4.9	43
30	Caspase-1 Engages Full-Length Gasdermin D through Two Distinct Interfaces That Mediate Caspase Recruitment and Substrate Cleavage. <i>Immunity</i> , <b>2020</b> , 53, 106-114.e5	32.3	42
29	Live-cell visualization of gasdermin D-driven pyroptotic cell death. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 14649-14658	5.4	35
28	IKK $\alpha$ kinase 2 regulates TPL-2 activation of extracellular signal-regulated kinases 1 and 2 by direct phosphorylation of TPL-2 serine 400. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 4684-90	4.8	35
27	RIP2 activity in inflammatory disease and implications for novel therapeutics. <i>Journal of Leukocyte Biology</i> , <b>2013</b> , 94, 927-32	6.5	34
26	TLR2 signaling depletes IRAK1 and inhibits induction of type I IFN by TLR7/9. <i>Journal of Immunology</i> , <b>2012</b> , 188, 1019-26	5.3	33
25	Denisovan, modern human and mouse TNFAIP3 alleles tune A20 phosphorylation and immunity. <i>Nature Immunology</i> , <b>2019</b> , 20, 1299-1310	19.1	29

24	Dysregulated NOD2 predisposes SAMP1/YitFc mice to chronic intestinal inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16999-7004	11.5	24
23	MEKK4 sequesters RIP2 to dictate NOD2 signal specificity. <i>Current Biology</i> , <b>2008</b> , 18, 1402-8	6.3	24
22	Beta7 integrin deficiency suppresses B cell homing and attenuates chronic ileitis in SAMP1/YitFc mice. <i>Journal of Immunology</i> , <b>2010</b> , 185, 5561-8	5.3	22
21	Gasdermin E permits interleukin-1 beta release in distinct sublytic and pyroptotic phases. <i>Cell Reports</i> , <b>2021</b> , 35, 108998	10.6	22
20	A discrete ubiquitin-mediated network regulates the strength of NOD2 signaling. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 146-58	4.8	21
19	Nucleotide-binding oligomerization domain (NOD) signaling defects and cell death susceptibility cannot be uncoupled in X-linked inhibitor of apoptosis (XIAP)-driven inflammatory disease. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 9666-9679	5.4	20
18	IB kinase $\beta$ phosphorylation of TRAF4 downregulates innate immune signaling. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 2479-89	4.8	20
17	CpG-B oligodeoxynucleotides inhibit TLR-dependent and -independent induction of type I IFN in dendritic cells. <i>Journal of Immunology</i> , <b>2010</b> , 184, 3367-76	5.3	17
16	Discovery of a Redox Thiol Switch: Implications for Cellular Energy Metabolism. <i>Molecular and Cellular Proteomics</i> , <b>2020</b> , 19, 852-870	7.6	16
15	Finkel-Biskis-Reilly mouse osteosarcoma virus v-fos inhibits the cellular response to ionizing radiation in a myristoylation-dependent manner. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 14005-8	5.4	12
14	Synthetic Biology Reveals the Uniqueness of the RIP Kinase Domain. <i>Journal of Immunology</i> , <b>2016</b> , 196, 4291-7	5.3	12
13	Finkel-Biskis-Reilly osteosarcoma virus v-Fos inhibits adipogenesis and both the activity and expression of CCAAT/enhancer binding protein alpha, a key regulator of adipocyte differentiation. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 32454-62	5.4	10
12	An IB Kinase-Regulated Feedforward Circuit Prolongs Inflammation. <i>Cell Reports</i> , <b>2015</b> , 12, 537-44	10.6	9
11	Human polymorphisms in GSDMD alter the inflammatory response. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 3228-3238	5.4	9
10	Innate immune-directed NF- $\kappa$ B signaling requires site-specific NEMO ubiquitination. <i>Cell Reports</i> , <b>2013</b> , 4, 352-61	10.6	9
9	GSDMB is increased in IBD and regulates epithelial restitution/repair independent of pyroptosis.. <i>Cell</i> , <b>2022</b> , 185, 283-298.e17	56.2	9
8	Mgat2 ablation in the myeloid lineage leads to defective glycoantigen T cell responses. <i>Glycobiology</i> , <b>2014</b> , 24, 262-71	5.8	7
7	Chemical Modulation of Gasdermin-Mediated Pyroptosis and Therapeutic Potential. <i>Journal of Molecular Biology</i> , <b>2021</b> , 167183	6.5	7

6	Phosphorylation of the E3 ubiquitin protein ligase ITCH diminishes binding to its cognate E2 ubiquitin ligase. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 1100-1105	5.4	5
5	Unique BIR domain sets determine inhibitor of apoptosis protein-driven cell death and NOD2 complex signal specificity. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	3
4	Myeloid glycosylation defects lead to a spontaneous common variable immunodeficiency-like condition with associated hemolytic anemia and antilymphocyte autoimmunity. <i>Journal of Immunology</i> , <b>2014</b> , 192, 5561-70	5.3	3
3	NODing off and Ramping up. <i>Inflammatory Bowel Diseases</i> , <b>2005</b> , 11, 860-1	4.5	3
2	Discovery of a redox-thiol switch regulating cellular energy metabolism		2
1	TH17 cells promote CNS inflammation by sensing danger signals via Mincle.. <i>Nature Communications</i> , <b>2022</b> , 13, 2406	17.4	1