

# Derek W Abbott

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

7,437  
citations

94381

37  
h-index

138417

58  
g-index

60  
all docs

60  
docs citations

60  
times ranked

10529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of RIP1 kinase as a specific cellular target of necrostatins. <i>Nature Chemical Biology</i> , 2008, 4, 313-321.	3.9	1,708
2	Chemical disruption of the pyroptotic pore-forming protein gasdermin D inhibits inflammatory cell death and sepsis. <i>Science Immunology</i> , 2018, 3, .	5.6	369
3	The Crohn's Disease Protein, NOD2, Requires RIP2 in Order to Induce Ubiquitylation of a Novel Site on NEMO. <i>Current Biology</i> , 2004, 14, 2217-2227.	1.8	344
4	A rapid method for determining protein kinase phosphorylation specificity. <i>Nature Methods</i> , 2004, 1, 27-29.	9.0	340
5	The Mycobacterium tuberculosis serine/threonine kinases PknA and PknB: substrate identification and regulation of cell shape. <i>Genes and Development</i> , 2005, 19, 1692-1704.	2.7	334
6	N-GSDMD trafficking to neutrophil organelles facilitates IL-1 $\beta$ release independently of plasma membrane pores and pyroptosis. <i>Nature Communications</i> , 2020, 11, 2212.	5.8	270
7	Cdk5 disruption attenuates tumor PD-L1 expression and promotes antitumor immunity. <i>Science</i> , 2016, 353, 399-403.	6.0	259
8	Homophilic CD44 Interactions Mediate Tumor Cell Aggregation and Polyclonal Metastasis in Patient-Derived Breast Cancer Models. <i>Cancer Discovery</i> , 2019, 9, 96-113.	7.7	256
9	Feedback inhibition of Akt signaling limits the growth of tumors lacking Tsc2. <i>Genes and Development</i> , 2005, 19, 1773-1778.	2.7	216
10	Phosphorylation of the Tumor Suppressor CYLD by the Breast Cancer Oncogene IKK $\epsilon$ Promotes Cell Transformation. <i>Molecular Cell</i> , 2009, 34, 461-472.	4.5	207
11	BRCA1 Expression Restores Radiation Resistance in BRCA1-defective Cancer Cells through Enhancement of Transcription-coupled DNA Repair. <i>Journal of Biological Chemistry</i> , 1999, 274, 18808-18812.	1.6	203
12	NOD2 Pathway Activation by MDP or Mycobacterium tuberculosis Infection Involves the Stable Polyubiquitination of Rip2. <i>Journal of Biological Chemistry</i> , 2007, 282, 36223-36229.	1.6	199
13	Inhibition of RIP2's tyrosine kinase activity limits NOD2-driven cytokine responses. <i>Genes and Development</i> , 2010, 24, 2666-2677.	2.7	171
14	Coordinated Regulation of Toll-Like Receptor and NOD2 Signaling by K63-Linked Polyubiquitin Chains. <i>Molecular and Cellular Biology</i> , 2007, 27, 6012-6025.	1.1	163
15	I $\kappa$ B Kinase $\beta$ Phosphorylates the K63 Deubiquitinase A20 To Cause Feedback Inhibition of the NF- $\kappa$ B Pathway. <i>Molecular and Cellular Biology</i> , 2007, 27, 7451-7461.	1.1	158
16	Crystal Structures of the Full-Length Murine and Human Gasdermin D Reveal Mechanisms of Autoinhibition, Lipid Binding, and Oligomerization. <i>Immunity</i> , 2019, 51, 43-49.e4.	6.6	151
17	Active Caspase-1 Induces Plasma Membrane Pores That Precede Pyroptotic Lysis and Are Blocked by Lanthanides. <i>Journal of Immunology</i> , 2016, 197, 1353-1367.	0.4	148
18	ITCH K63-Ubiquitinates the NOD2 Binding Protein, RIP2, to Influence Inflammatory Signaling Pathways. <i>Current Biology</i> , 2009, 19, 1255-1263.	1.8	131

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19	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> , 2018, 115, 6792-6797.	3.3	119
20	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> , 1999, 274, 2732-2742.	1.6	118
21	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> , 2018, 115, E9362-E9370.	3.3	110
22	Caspase-1 Engages Full-Length Gasdermin D through Two Distinct Interfaces That Mediate Caspase Recruitment and Substrate Cleavage. <i>Immunity</i> , 2020, 53, 106-114.e5.	6.6	106
23	The kinase IKK $\hat{\pm}$ inhibits activation of the transcription factor NF- $\hat{\rho}$ B by phosphorylating the regulatory molecule TAX1BP1. <i>Nature Immunology</i> , 2011, 12, 834-843.	7.0	103
24	In Vivo Inhibition of RIPK2 Kinase Alleviates Inflammatory Disease. <i>Journal of Biological Chemistry</i> , 2014, 289, 29651-29664.	1.6	98
25	GSDMB is increased in IBD and regulates epithelial restitution/repair independent of pyroptosis. <i>Cell</i> , 2022, 185, 283-298.e17.	13.5	86
26	ABIN-1 regulates RIPK1 activation by linking Met1 ubiquitylation with Lys63 deubiquitylation in TNF-RSC. <i>Nature Cell Biology</i> , 2018, 20, 58-68.	4.6	83
27	Binding of pro-prion to filamin A disrupts cytoskeleton and correlates with poor prognosis in pancreatic cancer. <i>Journal of Clinical Investigation</i> , 2009, 119, 2725-2736.	3.9	83
28	Gasdermin E permits interleukin-1 beta release in distinct sublytic and pyroptotic phases. <i>Cell Reports</i> , 2021, 35, 108998.	2.9	72
29	Structures of the Gasdermin D C-Terminal Domains Reveal Mechanisms of Autoinhibition. <i>Structure</i> , 2018, 26, 778-784.e3.	1.6	63
30	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> , 2016, 186, 885-898.	1.9	62
31	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> , 2011, 286, 1938-1950.	1.6	56
32	Live-cell visualization of gasdermin D-driven pyroptotic cell death. <i>Journal of Biological Chemistry</i> , 2017, 292, 14649-14658.	1.6	55
33	Denisovan, modern human and mouse TNFAIP3 alleles tune A20 phosphorylation and immunity. <i>Nature Immunology</i> , 2019, 20, 1299-1310.	7.0	53
34	Ubiquitination and phosphorylation in the regulation of NOD2 signaling and NOD2-mediated disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 2022-2028.	1.9	46
35	RIP2 activity in inflammatory disease and implications for novel therapeutics. <i>Journal of Leukocyte Biology</i> , 2013, 94, 927-932.	1.5	46
36	TLR2 Signaling Depletes IRAK1 and Inhibits Induction of Type I IFN by TLR7/9. <i>Journal of Immunology</i> , 2012, 188, 1019-1026.	0.4	45

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37	I $\kappa$ B 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> , 2012, 32, 4684-4690.	1.1	40
38	I $\kappa$ B Kinase $\chi$ Phosphorylation of TRAF4 Downregulates Innate Immune Signaling. <i>Molecular and Cellular Biology</i> , 2012, 32, 2479-2489.	1.1	29
39	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> , 2013, 110, 16999-17004.	3.3	28
40	Discovery of a Redox Thiol Switch: Implications for Cellular Energy Metabolism. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 852-870.	2.5	28
41	MEKK4 Sequesters RIP2 to Dictate NOD2 Signal Specificity. <i>Current Biology</i> , 2008, 18, 1402-1408.	1.8	26
42	A Discrete Ubiquitin-Mediated Network Regulates the Strength of NOD2 Signaling. <i>Molecular and Cellular Biology</i> , 2013, 33, 146-158.	1.1	26
43	Phosphorylation of the E3 ubiquitin protein ligase ITCH diminishes binding to its cognate E2 ubiquitin ligase. <i>Journal of Biological Chemistry</i> , 2018, 293, 1100-1105.	1.6	25
44	Human polymorphisms in GSDMD alter the inflammatory response. <i>Journal of Biological Chemistry</i> , 2020, 295, 3228-3238.	1.6	24
45	$\beta$ 7 Integrin Deficiency Suppresses B Cell Homing and Attenuates Chronic Ileitis in SAMP1/YitFc Mice. <i>Journal of Immunology</i> , 2010, 185, 5561-5568.	0.4	23
46	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> , 2017, 292, 9666-9679.	1.6	23
47	Chemical Modulation of Gasdermin-Mediated Pyroptosis and Therapeutic Potential. <i>Journal of Molecular Biology</i> , 2022, 434, 167183.	2.0	22
48	Synthetic Biology Reveals the Uniqueness of the RIP Kinase Domain. <i>Journal of Immunology</i> , 2016, 196, 4291-4297.	0.4	19
49	CpG-B Oligodeoxynucleotides Inhibit TLR-Dependent and -Independent Induction of Type I IFN in Dendritic Cells. <i>Journal of Immunology</i> , 2010, 184, 3367-3376.	0.4	17
50	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> , 1997, 272, 14005-14008.	1.6	13
51	TH17 cells promote CNS inflammation by sensing danger signals via Mincle. <i>Nature Communications</i> , 2022, 13, 2406.	5.8	13
52	Innate Immune-Directed NF- $\kappa$ B Signaling Requires Site-Specific NEMO Ubiquitination. <i>Cell Reports</i> , 2013, 4, 352-361.	2.9	11
53	Finkel-Biskis-Reilly Osteosarcoma Virus v-Fos Inhibits Adipogenesis and Both the Activity and Expression of CCAAT/Enhancer Binding Protein $\chi$ , a Key Regulator of Adipocyte Differentiation. <i>Journal of Biological Chemistry</i> , 1997, 272, 32454-32462.	1.6	10
54	An I $\kappa$ B Kinase-Regulated Feedforward Circuit Prolongs Inflammation. <i>Cell Reports</i> , 2015, 12, 537-544.	2.9	10

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55	Mgat2 ablation in the myeloid lineage leads to defective glycoantigen T cell responses. <i>Glycobiology</i> , 2014, 24, 262-271.	1.3	8
56	NODing Off and Ramping Up. <i>Inflammatory Bowel Diseases</i> , 2005, 11, 860-861.	0.9	3
57	Myeloid Glycosylation Defects Lead to a Spontaneous Common Variable Immunodeficiency-like Condition with Associated Hemolytic Anemia and Antilymphocyte Autoimmunity. <i>Journal of Immunology</i> , 2014, 192, 5561-5570.	0.4	3
58	Unique BIR domain sets determine inhibitor of apoptosis proteinâ€“driven cell death and NOD2 complex signal specificity. <i>Science Signaling</i> , 2018, 11, .	1.6	3