

Anthony J Koleske

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105
papers

7,708
citations

44
h-index

87
g-index

114
ext. papers

8,552
ext. citations

8.4
avg, IF

6.05
L-index

#	Paper	IF	Citations
105	An RNA polymerase II holoenzyme responsive to activators. <i>Nature</i> , 1994 , 368, 466-9	50.4	553
104	A multisubunit complex associated with the RNA polymerase II CTD and TATA-binding protein in yeast. <i>Cell</i> , 1993 , 73, 1361-75	56.2	414
103	Metabotropic glutamate receptor 5 is a coreceptor for Alzheimer α 42 oligomer bound to cellular prion protein. <i>Neuron</i> , 2013 , 79, 887-902	13.9	389
102	A kinase-cyclin pair in the RNA polymerase II holoenzyme. <i>Nature</i> , 1995 , 374, 193-6	50.4	378
101	Essential roles for the Abl and Arg tyrosine kinases in neurulation. <i>Neuron</i> , 1998 , 21, 1259-72	13.9	358
100	Cortactin regulates cofilin and N-WASp activities to control the stages of invadopodium assembly and maturation. <i>Journal of Cell Biology</i> , 2009 , 186, 571-87	7.3	289
99	The RNA polymerase II holoenzyme and its implications for gene regulation. <i>Trends in Biochemical Sciences</i> , 1995 , 20, 113-6	10.3	282
98	Molecular mechanisms of dendrite stability. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 536-50	13.5	244
97	An EGFR-Src-Arg-cortactin pathway mediates functional maturation of invadopodia and breast cancer cell invasion. <i>Cancer Research</i> , 2011 , 71, 1730-41	10.1	210
96	Phosphorylation by the c-Abl protein tyrosine kinase inhibits parkin β ubiquitination and protective function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16691-6	11.5	199
95	Mechanisms of synapse and dendrite maintenance and their disruption in psychiatric and neurodegenerative disorders. <i>Annual Review of Neuroscience</i> , 2010 , 33, 349-78	17	172
94	Cortactin phosphorylation regulates cell invasion through a pH-dependent pathway. <i>Journal of Cell Biology</i> , 2011 , 195, 903-20	7.3	164
93	A novel transcription factor reveals a functional link between the RNA polymerase II CTD and TFIID. <i>Cell</i> , 1992 , 69, 883-94	56.2	163
92	How do Abl family kinases regulate cell shape and movement?. <i>Trends in Cell Biology</i> , 2004 , 14, 36-44	18.3	146
91	Cortactin in cell migration and cancer at a glance. <i>Journal of Cell Science</i> , 2012 , 125, 1621-6	5.3	140
90	Regulation of cell migration and morphogenesis by Abl-family kinases: emerging mechanisms and physiological contexts. <i>Journal of Cell Science</i> , 2009 , 122, 3441-54	5.3	126
89	Integrin-mediated dendrite branch maintenance requires Abelson (Abl) family kinases. <i>Journal of Neuroscience</i> , 2005 , 25, 6105-18	6.6	126

88	Corticosteroid-induced neural remodeling predicts behavioral vulnerability and resilience. <i>Journal of Neuroscience</i> , 2013 , 33, 3107-12	6.6	123
87	Shigella IpgB1 promotes bacterial entry through the ELMO-Dock180 machinery. <i>Nature Cell Biology</i> , 2007 , 9, 121-8	23.4	122
86	Specific tyrosine phosphorylation sites on cortactin regulate Nck1-dependent actin polymerization in invadopodia. <i>Journal of Cell Science</i> , 2010 , 123, 3662-73	5.3	120
85	Caveolae, transmembrane signalling and cellular transformation. <i>Molecular Membrane Biology</i> , 1995 , 12, 121-4	3.4	119
84	Two distinct phosphorylation pathways have additive effects on Abl family kinase activation. <i>Molecular and Cellular Biology</i> , 2003 , 23, 3884-96	4.8	116
83	Abl-dependent tyrosine phosphorylation of Sos-1 mediates growth-factor-induced Rac activation. <i>Nature Cell Biology</i> , 2004 , 6, 268-74	23.4	108
82	A critical role for cortactin phosphorylation by Abl-family kinases in PDGF-induced dorsal-wave formation. <i>Current Biology</i> , 2007 , 17, 445-51	6.3	106
81	Integrin signaling through Arg activates p190RhoGAP by promoting its binding to p120RasGAP and recruitment to the membrane. <i>Molecular Biology of the Cell</i> , 2006 , 17, 4827-36	3.5	104
80	Adhesion-dependent regulation of p190RhoGAP in the developing brain by the Abl-related gene tyrosine kinase. <i>Current Biology</i> , 2004 , 14, 691-6	6.3	104
79	Inhibition of Rho via Arg and p190RhoGAP in the postnatal mouse hippocampus regulates dendritic spine maturation, synapse and dendrite stability, and behavior. <i>Journal of Neuroscience</i> , 2007 , 27, 10982-92	6.6	101
78	The Abl-related gene (Arg) requires its F-actin-microtubule cross-linking activity to regulate lamellipodial dynamics during fibroblast adhesion. <i>Journal of Cell Biology</i> , 2004 , 165, 407-19	7.3	93
77	A phase Ib multiple ascending dose study of the safety, tolerability, and central nervous system availability of AZD0530 (saracatinib) in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2015 , 7, 35	9	92
76	The vacuolar-ATPase modulates matrix metalloproteinase isoforms in human pancreatic cancer. <i>Laboratory Investigation</i> , 2011 , 91, 732-43	5.9	90
75	Action control is mediated by prefrontal BDNF and glucocorticoid receptor binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20714-9	11.5	90
74	Arg interacts with cortactin to promote adhesion-dependent cell edge protrusion. <i>Journal of Cell Biology</i> , 2009 , 185, 503-19	7.3	79
73	Integrin $\beta 1$ signals through Arg to regulate postnatal dendritic arborization, synapse density, and behavior. <i>Journal of Neuroscience</i> , 2012 , 32, 2824-34	6.6	79
72	Regulation of neuronal morphogenesis and synaptic function by Abl family kinases. <i>Current Opinion in Neurobiology</i> , 2003 , 13, 535-44	7.6	78
71	The Abl-related gene tyrosine kinase acts through p190RhoGAP to inhibit actomyosin contractility and regulate focal adhesion dynamics upon adhesion to fibronectin. <i>Molecular Biology of the Cell</i> , 2007 , 18, 3860-72	3.5	76

70	Arg kinase regulates prefrontal dendritic spine refinement and cocaine-induced plasticity. <i>Journal of Neuroscience</i> , 2012 , 32, 2314-23	6.6	75
69	Bidirectional signaling links the Abelson kinases to the platelet-derived growth factor receptor. <i>Molecular and Cellular Biology</i> , 2004 , 24, 2573-83	4.8	62
68	Extracellular matrix control of dendritic spine and synapse structure and plasticity in adulthood. <i>Frontiers in Neuroanatomy</i> , 2014 , 8, 116	3.6	58
67	Phospholipids can switch the GTPase substrate preference of a GTPase-activating protein. <i>Journal of Biological Chemistry</i> , 2004 , 279, 5055-8	5.4	58
66	Abl family nonreceptor tyrosine kinases modulate short-term synaptic plasticity. <i>Journal of Neurophysiology</i> , 2003 , 89, 1678-87	3.2	55
65	The ARG tyrosine kinase interacts with Siva-1 in the apoptotic response to oxidative stress. <i>Journal of Biological Chemistry</i> , 2001 , 276, 11465-8	5.4	52
64	ECM receptors in neuronal structure, synaptic plasticity, and behavior. <i>Progress in Brain Research</i> , 2014 , 214, 101-31	2.9	51
63	Abl2/Arg controls dendritic spine and dendrite arbor stability via distinct cytoskeletal control pathways. <i>Journal of Neuroscience</i> , 2013 , 33, 1846-57	6.6	50
62	Reciprocal stabilization of ABL and TAZ regulates osteoblastogenesis through transcription factor RUNX2. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4482-4496	15.9	49
61	Differential expression of cytoskeletal regulatory factors in the adolescent prefrontal cortex: Implications for cortical development. <i>Journal of Neuroscience Research</i> , 2017 , 95, 1123-1143	4.4	43
60	N-myristoylated c-Abl tyrosine kinase localizes to the endoplasmic reticulum upon binding to an allosteric inhibitor. <i>Journal of Biological Chemistry</i> , 2009 , 284, 29005-14	5.4	43
59	Defective T cell development and function in the absence of Abelson kinases. <i>Journal of Immunology</i> , 2007 , 179, 7334-43	5.3	42
58	Loss of dendrite stabilization by the Abl-related gene (Arg) kinase regulates behavioral flexibility and sensitivity to cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16859-64	11.5	41
57	Integrin β is required for late postnatal stability of dendrite arbors, dendritic spines and synapses, and mouse behavior. <i>Journal of Neuroscience</i> , 2013 , 33, 6742-52	6.6	39
56	Synaptic clustering of PSD-95 is regulated by c-Abl through tyrosine phosphorylation. <i>Journal of Neuroscience</i> , 2010 , 30, 3728-38	6.6	39
55	Transient inhibition of p53 homologs protects ovarian function from two distinct apoptotic pathways triggered by anticancer therapies. <i>Cell Death and Differentiation</i> , 2019 , 26, 502-515	12.7	34
54	Increased dendrite branching in AbetaPP/PS1 mice and elongation of dendrite arbors by fasudil administration. <i>Journal of Alzheimer's Disease</i> , 2010 , 20, 1003-8	4.3	34
53	Direct interactions with the integrin β cytoplasmic tail activate the Abl2/Arg kinase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 8360-72	5.4	33

52	Abl2/Abl-related gene stabilizes actin filaments, stimulates actin branching by actin-related protein 2/3 complex, and promotes actin filament severing by cofilin. <i>Journal of Biological Chemistry</i> , 2015 , 290, 4038-46	5.4	31
51	Long-Term Live-Cell STED Nanoscopy of Primary and Cultured Cells with the Plasma Membrane HIDE Probe DiI-SiR. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10408-10412	16.4	30
50	The Abl and Arg kinases mediate distinct modes of phagocytosis and are required for maximal Leishmania infection. <i>Molecular and Cellular Biology</i> , 2012 , 32, 3176-86	4.8	30
49	Caveolae and human disease: functional roles in transcytosis, potocytosis, signalling and cell polarity. <i>Seminars in Developmental Biology</i> , 1995 , 6, 47-58		30
48	Phosphorylated cortactin recruits Vav2 guanine nucleotide exchange factor to activate Rac3 and promote invadopodial function in invasive breast cancer cells. <i>Molecular Biology of the Cell</i> , 2017 , 28, 1347-1360	3.5	29
47	Enhancement of ABL kinase catalytic efficiency by a direct binding regulator is independent of other regulatory mechanisms. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31401-7	5.4	27
46	Arg/Abl2 modulates the affinity and stoichiometry of binding of cortactin to F-actin. <i>Biochemistry</i> , 2012 , 51, 6644-53	3.2	25
45	The Arg non-receptor tyrosine kinase modifies F-actin structure. <i>Journal of Molecular Biology</i> , 2005 , 346, 565-75	6.5	25
44	Neurodevelopmental disease-associated de novo mutations and rare sequence variants affect TRIO GDP/GTP exchange factor activity. <i>Human Molecular Genetics</i> , 2017 , 26, 4728-4740	5.6	24
43	CNS Neurons Deposit Laminin B to Stabilize Synapses. <i>Cell Reports</i> , 2017 , 21, 1281-1292	10.6	23
42	Adolescent cocaine exposure simplifies orbitofrontal cortical dendritic arbors. <i>Frontiers in Pharmacology</i> , 2014 , 5, 228	5.6	22
41	T cell survival and function requires the c-Abl tyrosine kinase. <i>Cell Cycle</i> , 2008 , 7, 3847-57	4.7	22
40	Regulation of actin polymerization and adhesion-dependent cell edge protrusion by the Abl-related gene (Arg) tyrosine kinase and N-WASp. <i>Biochemistry</i> , 2010 , 49, 2227-34	3.2	21
39	Ablation of ErbB4 from excitatory neurons leads to reduced dendritic spine density in mouse prefrontal cortex. <i>Journal of Comparative Neurology</i> , 2014 , 522, 3351-62	3.4	19
38	Do filopodia enable the growth cone to find its way?. <i>Science Signaling</i> , 2003 , 2003, pe20	8.8	19
37	Integrin B1 regulates PP2A complex assembly through PDE4D in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2019 , 129, 4863-4874	15.9	19
36	Abelson phosphorylation of CLASP2 modulates its association with microtubules and actin. <i>Cytoskeleton</i> , 2014 , 71, 195-209	2.4	18
35	Disruption of Coordinated Presynaptic and Postsynaptic Maturation Underlies the Defects in Hippocampal Synapse Stability and Plasticity in Abl2/Arg-Deficient Mice. <i>Journal of Neuroscience</i> , 2016 , 36, 6778-91	6.6	16

34	Trio Haploinsufficiency Causes Neurodevelopmental Disease-Associated Deficits. <i>Cell Reports</i> , 2019 , 26, 2805-2817.e9	10.6	15
33	Noonan Syndrome-Associated SHP2 Dephosphorylates GluN2B to Regulate NMDA Receptor Function. <i>Cell Reports</i> , 2018 , 24, 1523-1535	10.6	15
32	Met acts through Abl to regulate p53 transcriptional outcomes and cell survival in the developing liver. <i>Journal of Hepatology</i> , 2012 , 57, 1292-8	13.4	14
31	The Abl and Arg non-receptor tyrosine kinases regulate different zones of stress fiber, focal adhesion, and contractile network localization in spreading fibroblasts. <i>Cytoskeleton</i> , 2010 , 67, 666-75	2.4	14
30	Purification of yeast RNA polymerase II holoenzymes. <i>Methods in Enzymology</i> , 1996 , 273, 176-84	1.7	14
29	Corticosteroid-induced dendrite loss and behavioral deficiencies can be blocked by activation of Abl2/Arg kinase. <i>Molecular and Cellular Neurosciences</i> , 2017 , 85, 226-234	4.8	13
28	Arg kinase signaling in dendrite and synapse stabilization pathways: memory, cocaine sensitivity, and stress. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 2496-500	5.6	13
27	Dissecting kinase signaling pathways. <i>Drug Discovery Today</i> , 2007 , 12, 717-24	8.8	13
26	SNARE Complex Dysfunction: A Unifying Hypothesis for Schizophrenia. <i>Biological Psychiatry</i> , 2015 , 78, 356-8	7.9	11
25	The Src kinases Hck, Fgr and Lyn activate Arg to facilitate IgG-mediated phagocytosis and Leishmania infection. <i>Journal of Cell Science</i> , 2016 , 129, 3130-43	5.3	11
24	Two-color nanoscopy of organelles for extended times with HIDE probes. <i>Nature Communications</i> , 2020 , 11, 4271	17.4	11
23	WAVE2 regulates epithelial morphology and cadherin isoform switching through regulation of Twist and Abl. <i>PLoS ONE</i> , 2013 , 8, e64533	3.7	10
22	Functional interactions of ion channels with the actin cytoskeleton: does coupling to dynamic actin regulate NMDA receptors?. <i>Journal of Physiology</i> , 2021 , 599, 431-441	3.9	10
21	Two amino acid residues confer different binding affinities of Abelson family kinase SRC homology 2 domains for phosphorylated cortactin. <i>Journal of Biological Chemistry</i> , 2014 , 289, 19704-13	5.4	9
20	Neural Stem Cells Direct Axon Guidance via Their Radial Fiber Scaffold. <i>Neuron</i> , 2020 , 107, 1197-1211.e913,9		9
19	The repeat region of cortactin is intrinsically disordered in solution. <i>Scientific Reports</i> , 2017 , 7, 16696	4.9	8
18	Lysozyme contamination facilitates crystallization of a heterotrimeric cortactin-Arg-lysozyme complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 154-8		8
17	Cell adhesion signaling pathways: First responders to cocaine exposure?. <i>Communicative and Integrative Biology</i> , 2011 , 4, 30-3	1.7	8

16	ABL1, Overexpressed in Hepatocellular Carcinomas, Regulates Expression of NOTCH1 and Promotes Development of Liver Tumors in Mice. <i>Gastroenterology</i> , 2020 , 159, 289-305.e16	13.3	7
15	Brain Region and Isoform-Specific Phosphorylation Alters Kalirin SH2 Domain Interaction Sites and Calpain Sensitivity. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 1554-1569	5.7	7
14	Cell adhesion signaling pathways. <i>Communicative and Integrative Biology</i> , 2011 , 4, 30-33	1.7	7
13	Cortactin stabilization of actin requires actin-binding repeats and linker, is disrupted by specific substitutions, and is independent of nucleotide state. <i>Journal of Biological Chemistry</i> , 2018 , 293, 13022-13032	5.4	7
12	A Role for the Non-Receptor Tyrosine Kinase Abl2/Arg in Experimental Neuroinflammation. <i>Journal of NeuroImmune Pharmacology</i> , 2018 , 13, 265-276	6.9	5
11	Regulation of MT dynamics via direct binding of an Abl family kinase. <i>Journal of Cell Biology</i> , 2019 , 218, 3986-3997	7.3	5
10	Invadopodia: RhoC runs rings around cofilin. <i>Current Biology</i> , 2011 , 21, R280-2	6.3	4
9	Abl2 is recruited to ventral actin waves through cytoskeletal interactions to promote lamellipodium extension. <i>Molecular Biology of the Cell</i> , 2018 , 29, 2863-2873	3.5	4
8	Structure of the ABL2/ARG kinase in complex with dasatinib. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 443-8	1.1	3
7	Trio family proteins as regulators of cell migration and morphogenesis in development and disease - mechanisms and cellular contexts. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	3
6	Analysis of Cellular Tyrosine Phosphorylation via Chemical Rescue of Conditionally Active Abl Kinase. <i>Biochemistry</i> , 2018 , 57, 1390-1398	3.2	2
5	Abl2:Cortactin Interactions Regulate Dendritic Spine Stability via Control of a Stable Filamentous Actin Pool. <i>Journal of Neuroscience</i> , 2021 , 41, 3068-3081	6.6	2
4	Crystal structure of a guanine nucleotide exchange factor encoded by the scrub typhus pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30380-30390	11.5	1
3	Platelet-derived growth factor receptor beta activates Abl2 via direct binding and phosphorylation. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100883	5.4	0
2	Regulation of the NMDA receptor by its cytoplasmic domains: (How) is the tail wagging the dog?. <i>Neuropharmacology</i> , 2021 , 195, 108634	5.5	0
1	In vitro fluorescence assay to measure GDP/GTP exchange of guanine nucleotide exchange factors of Rho family GTPases.. <i>Biology Methods and Protocols</i> , 2022 , 7, bpab024	2.4	0