Anthony J Koleske

List of Publications by Year in Descending Order

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	In vitro fluorescence assay to measure GDP/GTP exchange of guanine nucleotide exchange factors of Rho family GTPases.. *Biology Methods and Protocols*, **2022**, 7, bpab024	2.4	0
104	Platelet-derived growth factor receptor beta activates Abl2 via direct binding and phosphorylation. *Journal of Biological Chemistry*, **2021**, 297, 100883	5.4	0
103	Functional interactions of ion channels with the actin cytoskeleton: does coupling to dynamic actin regulate NMDA receptors?. *Journal of Physiology*, **2021**, 599, 431-441	3.9	10
102	Abl2:Cortactin Interactions Regulate Dendritic Spine Stability via Control of a Stable Filamentous Actin Pool. *Journal of Neuroscience*, **2021**, 41, 3068-3081	6.6	2
101	Trio family proteins as regulators of cell migration and morphogenesis in development and disease - mechanisms and cellular contexts. *Journal of Cell Science*, **2021**, 134,	5.3	3
100	Regulation of the NMDA receptor by its cytoplasmic domains: (How) is the tail wagging the dog?. *Neuropharmacology*, **2021**, 195, 108634	5.5	0
99	ABL1, Overexpressed in Hepatocellular Carcinomas, Regulates Expression of NOTCH1 and Promotes Development of Liver Tumors in Mice. *Gastroenterology*, **2020**, 159, 289-305.e16	13.3	7
98	Crystal structure of a guanine nucleotide exchange factor encoded by the scrub typhus pathogen. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30380-30390	11.5	1
97	Neural Stem Cells Direct Axon Guidance via Their Radial Fiber Scaffold. *Neuron*, **2020**, 107, 1197-1211.e9	13.9	9
96	Two-color nanoscopy of organelles for extended times with HIDE probes. *Nature Communications*, **2020**, 11, 4271	17.4	11
95	Trio Haploinsufficiency Causes Neurodevelopmental Disease-Associated Deficits. *Cell Reports*, **2019**, 26, 2805-2817.e9	10.6	15
94	Transient inhibition of p53 homologs protects ovarian function from two distinct apoptotic pathways triggered by anticancer therapies. *Cell Death and Differentiation*, **2019**, 26, 502-515	12.7	34
93	Regulation of MT dynamics via direct binding of an Abl family kinase. *Journal of Cell Biology*, **2019**, 218, 3986-3997	7.3	5
92	Integrin 51 regulates PP2A complex assembly through PDE4D in atherosclerosis. *Journal of Clinical Investigation*, **2019**, 129, 4863-4874	15.9	19
91	Analysis of Cellular Tyrosine Phosphorylation via Chemical Rescue of Conditionally Active Abl Kinase. *Biochemistry*, **2018**, 57, 1390-1398	3.2	2
90	A Role for the Non-Receptor Tyrosine Kinase Abl2/Arg in Experimental Neuroinflammation. *Journal of NeuroImmune Pharmacology*, **2018**, 13, 265-276	6.9	5
89	Noonan Syndrome-Associated SHP2 Dephosphorylates GluN2B to Regulate NMDA Receptor Function. *Cell Reports*, **2018**, 24, 1523-1535	10.6	15

88	Abl2 is recruited to ventral actin waves through cytoskeletal interactions to promote lamellipodium extension. *Molecular Biology of the Cell*, **2018**, 29, 2863-2873	3.5	4
87	Cortactin stabilization of actin requires actin-binding repeats and linker, is disrupted by specific substitutions, and is independent of nucleotide state. *Journal of Biological Chemistry*, **2018**, 293, 13022-13032	5.4	7
86	Phosphorylated cortactin recruits Vav2 guanine nucleotide exchange factor to activate Rac3 and promote invadopodial function in invasive breast cancer cells. *Molecular Biology of the Cell*, **2017**, 28, 1347-1360	3.5	29
85	CNS Neurons Deposit Laminin 5 to Stabilize Synapses. *Cell Reports*, **2017**, 21, 1281-1292	10.6	23
84	Corticosteroid-induced dendrite loss and behavioral deficiencies can be blocked by activation of Abl2/Arg kinase. *Molecular and Cellular Neurosciences*, **2017**, 85, 226-234	4.8	13
83	Neurodevelopmental disease-associated de novo mutations and rare sequence variants affect TRIO GDP/GTP exchange factor activity. *Human Molecular Genetics*, **2017**, 26, 4728-4740	5.6	24
82	Long-Term Live-Cell STED Nanoscopy of Primary and Cultured Cells with the Plasma Membrane HIDE Probe DiI-SiR. *Angewandte Chemie - International Edition*, **2017**, 56, 10408-10412	16.4	30
81	The repeat region of cortactin is intrinsically disordered in solution. *Scientific Reports*, **2017**, 7, 16696	4.9	8
80	Brain Region and Isoform-Specific Phosphorylation Alters Kalirin SH2 Domain Interaction Sites and Calpain Sensitivity. *ACS Chemical Neuroscience*, **2017**, 8, 1554-1569	5.7	7
79	Differential expression of cytoskeletal regulatory factors in the adolescent prefrontal cortex: Implications for cortical development. *Journal of Neuroscience Research*, **2017**, 95, 1123-1143	4.4	43
78	Disruption of Coordinated Presynaptic and Postsynaptic Maturation Underlies the Defects in Hippocampal Synapse Stability and Plasticity in Abl2/Arg-Deficient Mice. *Journal of Neuroscience*, **2016**, 36, 6778-91	6.6	16
77	Reciprocal stabilization of ABL and TAZ regulates osteoblastogenesis through transcription factor RUNX2. *Journal of Clinical Investigation*, **2016**, 126, 4482-4496	15.9	49
76	The Src kinases Hck, Fgr and Lyn activate Arg to facilitate IgG-mediated phagocytosis and Leishmania infection. *Journal of Cell Science*, **2016**, 129, 3130-43	5.3	11
75	Structure of the ABL2/ARG kinase in complex with dasatinib. *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 443-8	1.1	3
74	A phase Ib multiple ascending dose study of the safety, tolerability, and central nervous system availability of AZD0530 (saracatinib) in Alzheimer's disease. *Alzheimer's Research and Therapy*, **2015**, 7, 35	9	92
73	Abl2/Abl-related gene stabilizes actin filaments, stimulates actin branching by actin-related protein 2/3 complex, and promotes actin filament severing by cofilin. *Journal of Biological Chemistry*, **2015**, 290, 4038-46	5.4	31
72	SNARE Complex Dysfunction: A Unifying Hypothesis for Schizophrenia. *Biological Psychiatry*, **2015**, 78, 356-8	7.9	11
71	Direct interactions with the integrin 1 cytoplasmic tail activate the Abl2/Arg kinase. *Journal of Biological Chemistry*, **2015**, 290, 8360-72	5.4	33

70	Extracellular matrix control of dendritic spine and synapse structure and plasticity in adulthood. *Frontiers in Neuroanatomy*, **2014**, 8, 116	3.6	58
69	Adolescent cocaine exposure simplifies orbitofrontal cortical dendritic arbors. *Frontiers in Pharmacology*, **2014**, 5, 228	5.6	22
68	Abelson phosphorylation of CLASP2 modulates its association with microtubules and actin. *Cytoskeleton*, **2014**, 71, 195-209	2.4	18
67	ECM receptors in neuronal structure, synaptic plasticity, and behavior. *Progress in Brain Research*, **2014**, 214, 101-31	2.9	51
66	Ablation of ErbB4 from excitatory neurons leads to reduced dendritic spine density in mouse prefrontal cortex. *Journal of Comparative Neurology*, **2014**, 522, 3351-62	3.4	19
65	Two amino acid residues confer different binding affinities of Abelson family kinase SRC homology 2 domains for phosphorylated cortactin. *Journal of Biological Chemistry*, **2014**, 289, 19704-13	5.4	9
64	Molecular mechanisms of dendrite stability. *Nature Reviews Neuroscience*, **2013**, 14, 536-50	13.5	244
63	Corticosteroid-induced neural remodeling predicts behavioral vulnerability and resilience. *Journal of Neuroscience*, **2013**, 33, 3107-12	6.6	123
62	Metabotropic glutamate receptor 5 is a coreceptor for Alzheimer a□ligomer bound to cellular prion protein. *Neuron*, **2013**, 79, 887-902	13.9	389
61	Arg kinase signaling in dendrite and synapse stabilization pathways: memory, cocaine sensitivity, and stress. *International Journal of Biochemistry and Cell Biology*, **2013**, 45, 2496-500	5.6	13
60	Integrin □ is required for late postnatal stability of dendrite arbors, dendritic spines and synapses, and mouse behavior. *Journal of Neuroscience*, **2013**, 33, 6742-52	6.6	39
59	Abl2/Arg controls dendritic spine and dendrite arbor stability via distinct cytoskeletal control pathways. *Journal of Neuroscience*, **2013**, 33, 1846-57	6.6	50
58	WAVE2 regulates epithelial morphology and cadherin isoform switching through regulation of Twist and Abl. *PLoS ONE*, **2013**, 8, e64533	3.7	10
57	Met acts through Abl to regulate p53 transcriptional outcomes and cell survival in the developing liver. *Journal of Hepatology*, **2012**, 57, 1292-8	13.4	14
56	Arg/Abl2 modulates the affinity and stoichiometry of binding of cortactin to F-actin. *Biochemistry*, **2012**, 51, 6644-53	3.2	25
55	Lysozyme contamination facilitates crystallization of a heterotrimeric cortactin-Arg-lysozyme complex. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 154-8		8
54	The Abl and Arg kinases mediate distinct modes of phagocytosis and are required for maximal Leishmania infection. *Molecular and Cellular Biology*, **2012**, 32, 3176-86	4.8	30
53	Cortactin in cell migration and cancer at a glance. *Journal of Cell Science*, **2012**, 125, 1621-6	5.3	140

52	Integrin β1 signals through Arg to regulate postnatal dendritic arborization, synapse density, and behavior. *Journal of Neuroscience*, **2012**, 32, 2824-34	6.6	79
51	Action control is mediated by prefrontal BDNF and glucocorticoid receptor binding. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20714-9	11.5	90
50	Arg kinase regulates prefrontal dendritic spine refinement and cocaine-induced plasticity. *Journal of Neuroscience*, **2012**, 32, 2314-23	6.6	75
49	The vacuolar-ATPase modulates matrix metalloproteinase isoforms in human pancreatic cancer. *Laboratory Investigation*, **2011**, 91, 732-43	5.9	90
48	Invadopodia: RhoC runs rings around cofilin. *Current Biology*, **2011**, 21, R280-2	6.3	4
47	Cell adhesion signaling pathways. *Communicative and Integrative Biology*, **2011**, 4, 30-33	1.7	7
46	An EGFR-Src-Arg-cortactin pathway mediates functional maturation of invadopodia and breast cancer cell invasion. *Cancer Research*, **2011**, 71, 1730-41	10.1	210
45	Cortactin phosphorylation regulates cell invasion through a pH-dependent pathway. *Journal of Cell Biology*, **2011**, 195, 903-20	7.3	164
44	Cell adhesion signaling pathways: First responders to cocaine exposure?. *Communicative and Integrative Biology*, **2011**, 4, 30-3	1.7	8
43	Increased dendrite branching in AbetaPP/PS1 mice and elongation of dendrite arbors by fasudil administration. *Journal of Alzheimer's Disease*, **2010**, 20, 1003-8	4.3	34
42	Specific tyrosine phosphorylation sites on cortactin regulate Nck1-dependent actin polymerization in invadopodia. *Journal of Cell Science*, **2010**, 123, 3662-73	5.3	120
41	Phosphorylation by the c-Abl protein tyrosine kinase inhibits parkin's ubiquitination and protective function. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16691-6	11.5	199
40	Regulation of actin polymerization and adhesion-dependent cell edge protrusion by the Abl-related gene (Arg) tyrosine kinase and N-WASp. *Biochemistry*, **2010**, 49, 2227-34	3.2	21
39	Mechanisms of synapse and dendrite maintenance and their disruption in psychiatric and neurodegenerative disorders. *Annual Review of Neuroscience*, **2010**, 33, 349-78	17	172
38	Synaptic clustering of PSD-95 is regulated by c-Abl through tyrosine phosphorylation. *Journal of Neuroscience*, **2010**, 30, 3728-38	6.6	39
37	The Abl and Arg non-receptor tyrosine kinases regulate different zones of stress fiber, focal adhesion, and contractile network localization in spreading fibroblasts. *Cytoskeleton*, **2010**, 67, 666-75	2.4	14
36	Loss of dendrite stabilization by the Abl-related gene (Arg) kinase regulates behavioral flexibility and sensitivity to cocaine. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 16859-64	11.5	41
35	Arg interacts with cortactin to promote adhesion-dependent cell edge protrusion. *Journal of Cell Biology*, **2009**, 185, 503-19	7.3	79

34	Cortactin regulates cofilin and N-WASp activities to control the stages of invadopodium assembly and maturation. *Journal of Cell Biology*, **2009**, 186, 571-87	7.3	289
33	Regulation of cell migration and morphogenesis by Abl-family kinases: emerging mechanisms and physiological contexts. *Journal of Cell Science*, **2009**, 122, 3441-54	5.3	126
32	N-myristoylated c-Abl tyrosine kinase localizes to the endoplasmic reticulum upon binding to an allosteric inhibitor. *Journal of Biological Chemistry*, **2009**, 284, 29005-14	5.4	43
31	T cell survival and function requires the c-Abl tyrosine kinase. *Cell Cycle*, **2008**, 7, 3847-57	4.7	22
30	Enhancement of ABL kinase catalytic efficiency by a direct binding regulator is independent of other regulatory mechanisms. *Journal of Biological Chemistry*, **2008**, 283, 31401-7	5.4	27
29	Shigella IpgB1 promotes bacterial entry through the ELMO-Dock180 machinery. *Nature Cell Biology*, **2007**, 9, 121-8	23.4	122
28	A critical role for cortactin phosphorylation by Abl-family kinases in PDGF-induced dorsal-wave formation. *Current Biology*, **2007**, 17, 445-51	6.3	106
27	Dissecting kinase signaling pathways. *Drug Discovery Today*, **2007**, 12, 717-24	8.8	13
26	Inhibition of Rho via Arg and p190RhoGAP in the postnatal mouse hippocampus regulates dendritic spine maturation, synapse and dendrite stability, and behavior. *Journal of Neuroscience*, **2007**, 27, 10982-92	6.6	101
25	The Abl-related gene tyrosine kinase acts through p190RhoGAP to inhibit actomyosin contractility and regulate focal adhesion dynamics upon adhesion to fibronectin. *Molecular Biology of the Cell*, **2007**, 18, 3860-72	3.5	76
24	Defective T cell development and function in the absence of Abelson kinases. *Journal of Immunology*, **2007**, 179, 7334-43	5.3	42
23	Integrin signaling through Arg activates p190RhoGAP by promoting its binding to p120RasGAP and recruitment to the membrane. *Molecular Biology of the Cell*, **2006**, 17, 4827-36	3.5	104
22	The Arg non-receptor tyrosine kinase modifies F-actin structure. *Journal of Molecular Biology*, **2005**, 346, 565-75	6.5	25
21	Integrin-mediated dendrite branch maintenance requires Abelson (Abl) family kinases. *Journal of Neuroscience*, **2005**, 25, 6105-18	6.6	126
20	The Abl-related gene (Arg) requires its F-actin-microtubule cross-linking activity to regulate lamellipodial dynamics during fibroblast adhesion. *Journal of Cell Biology*, **2004**, 165, 407-19	7.3	93
19	Bidirectional signaling links the Abelson kinases to the platelet-derived growth factor receptor. *Molecular and Cellular Biology*, **2004**, 24, 2573-83	4.8	62
18	Phospholipids can switch the GTPase substrate preference of a GTPase-activating protein. *Journal of Biological Chemistry*, **2004**, 279, 5055-8	5.4	58
17	Abl-dependent tyrosine phosphorylation of Sos-1 mediates growth-factor-induced Rac activation. *Nature Cell Biology*, **2004**, 6, 268-74	23.4	108

16	How do Abl family kinases regulate cell shape and movement?. *Trends in Cell Biology*, **2004**, 14, 36-44	18.3	146
15	Adhesion-dependent regulation of p190RhoGAP in the developing brain by the Abl-related gene tyrosine kinase. *Current Biology*, **2004**, 14, 691-6	6.3	104
14	Do filopodia enable the growth cone to find its way?. *Science Signaling*, **2003**, 2003, pe20	8.8	19
13	Abl family nonreceptor tyrosine kinases modulate short-term synaptic plasticity. *Journal of Neurophysiology*, **2003**, 89, 1678-87	3.2	55
12	Regulation of neuronal morphogenesis and synaptic function by Abl family kinases. *Current Opinion in Neurobiology*, **2003**, 13, 535-44	7.6	78
11	Two distinct phosphorylation pathways have additive effects on Abl family kinase activation. *Molecular and Cellular Biology*, **2003**, 23, 3884-96	4.8	116
10	The ARG tyrosine kinase interacts with Siva-1 in the apoptotic response to oxidative stress. *Journal of Biological Chemistry*, **2001**, 276, 11465-8	5.4	52
9	Essential roles for the Abl and Arg tyrosine kinases in neurulation. *Neuron*, **1998**, 21, 1259-72	13.9	358
8	Purification of yeast RNA polymerase II holoenzymes. *Methods in Enzymology*, **1996**, 273, 176-84	1.7	14
7	A kinase-cyclin pair in the RNA polymerase II holoenzyme. *Nature*, **1995**, 374, 193-6	50.4	378
6	Caveolae, transmembrane signalling and cellular transformation. *Molecular Membrane Biology*, **1995**, 12, 121-4	3.4	119
5	Caveolae and human disease: functional roles in transcytosis, potocytosis, signalling and cell polarity. *Seminars in Developmental Biology*, **1995**, 6, 47-58		30
4	The RNA polymerase II holoenzyme and its implications for gene regulation. *Trends in Biochemical Sciences*, **1995**, 20, 113-6	10.3	282
3	An RNA polymerase II holoenzyme responsive to activators. *Nature*, **1994**, 368, 466-9	50.4	553
2	A multisubunit complex associated with the RNA polymerase II CTD and TATA-binding protein in yeast. *Cell*, **1993**, 73, 1361-75	56.2	414
1	A novel transcription factor reveals a functional link between the RNA polymerase II CTD and TFIID. *Cell*, **1992**, 69, 883-94	56.2	163