Lee Bardwell

List of Publications by Year
in descending order

57 papers	4,456 citations	147726 31 h-index	168321 53 g-index
58 all docs	58 docs citations	58 times ranked	3971 citing authors

#	Article	IF	Citations
1	The Hippo pathway kinases LATS1 and LATS2 attenuate cellular responses to heavy metals through phosphorylating MTF1. Nature Cell Biology, 2022, 24, 74-87.	4.6	22
2	ERK2 MAP kinase regulates SUFU binding by multisite phosphorylation of GLI1. Life Science Alliance, 2022, 5, e202101353.	1.3	8
3	Effect of magnitude and variability of energy of activation in multisite ultrasensitive biochemical processes. PLoS Computational Biology, 2020, 16, e1007966.	1.5	0
4	Cancer Mutations: Molecular MEKanisms. Current Biology, 2020, 30, R222-R224.	1.8	4
5	Miles to go (mtgo) encodes FNDC3 proteins that interact with the chaperonin subunit CCT3 and are required for NMJ branching and growth in Drosophila. Developmental Biology, 2019, 445, 37-53.	0.9	8
6	Pseudokinases: Flipping the ATP for AMPylation. Current Biology, 2019, 29, R23-R25.	1.8	3
7	The WW domain of the scaffolding protein IQGAP1 is neither necessary nor sufficient for binding to the MAPKs ERK1 and ERK2. Journal of Biological Chemistry, 2017, 292, 8750-8761.	1.6	17
8	Two Hydrophobic Residues Can Determine the Specificity of Mitogen-activated Protein Kinase Docking Interactions. Journal of Biological Chemistry, 2015, 290, 26661-26674.	1.6	25
9	CK2 activates kinesin via induction of a conformational change. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7000-7005.	3.3	8
10	Combining docking site and phosphosite predictions to find new substrates: Identification of smoothelin-like-2 (SMTNL2) as a c-Jun N-terminal kinase (JNK) substrate. Cellular Signalling, 2013, 25, 2518-2529.	1.7	28
11	Protein Scaffolds Can Enhance the Bistability of Multisite Phosphorylation Systems. PLoS Computational Biology, 2012, 8, e1002551.	1.5	24
12	Casein kinase 2 reverses tail-independent inactivation of kinesin-1. Nature Communications, 2012, 3, 754.	5.8	33
13	BRACHYURY and CDX2 Mediate BMP-Induced Differentiation of Human and Mouse Pluripotent Stem Cells into Embryonic and Extraembryonic Lineages. Cell Stem Cell, 2011, 9, 144-155.	5.2	340
14	Synthetic Biology: Modulating the MAP Kinase Module. Current Biology, 2011, 21, R249-R251.	1.8	4
15	Plant Signalling Pathways: A Comparative Evolutionary Overview. Current Biology, 2011, 21, R317-R319.	1.8	6
16	Noise filtering tradeoffs in spatial gradient sensing and cell polarization response. BMC Systems Biology, 2011, 5, 196.	3.0	22
17	Ultrasensitive Responses and Specificity in Cell Signaling. BMC Systems Biology, 2010, 4, 119.	3.0	19
18	Computational Prediction and Experimental Verification of New MAP Kinase Docking Sites and Substrates Including Gli Transcription Factors. PLoS Computational Biology, 2010, 6, e1000908.	1.5	80

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19	A Combination of Multisite Phosphorylation and Substrate Sequestration Produces Switchlike Responses. Biophysical Journal, 2010, 98, 1396-1407.	0.2	40
20	A Scalable and Integrative System for Pathway Bioinformatics and Systems Biology. Advances in Experimental Medicine and Biology, 2010, 680, 523-534.	0.8	0
21	Selectivity of Docking Sites in MAPK Kinases. Journal of Biological Chemistry, 2009, 284, 13165-13173.	1.6	113
22	Signal Transduction: Turning a Switch into a Rheostat. Current Biology, 2008, 18, R910-R912.	1.8	14
23	Oscillatory Phosphorylation of Yeast Fus3 MAP Kinase Controls Periodic Gene Expression and Morphogenesis. Current Biology, 2008, 18, 1700-1706.	1.8	62
24	Oscillatory Phosphorylation of Yeast Fus3 MAP Kinase Controls Periodic Gene Expression and Morphogenesis. Current Biology, 2008, 18, 1897.	1.8	0
25	Mathematical Models of Specificity in Cell Signaling. Biophysical Journal, 2007, 92, 3425-3441.	0.2	64
26	Analysis of mitogen-activated protein kinase activation and interactions with regulators and substrates. Methods, 2006, 40, 213-223.	1.9	33
27	Mechanisms of MAPK signalling specificity. Biochemical Society Transactions, 2006, 34, 837-841.	1.6	176
28	Mitogen-activated protein kinase (MAPK)-docking sites in MAPK kinases function as tethers that are crucial for MAPK regulation in vivo. Cellular Signalling, 2006, 18, 123-134.	1.7	40
29	G-Protein Signaling: A New Branch in an Old Pathway. Current Biology, 2006, 16, R853-R855.	1.8	2
30	Interacting JNK-docking Sites in MKK7 Promote Binding and Activation of JNK Mitogen-activated Protein Kinases. Journal of Biological Chemistry, 2006, 281, 13169-13179.	1.6	67
31	Characterization of an ERK-binding Domain in Microphthalmia-associated Transcription Factor and Differential Inhibition of ERK2-mediated Substrate Phosphorylation. Journal of Biological Chemistry, 2005, 280, 42051-42060.	1.6	32
32	Mitogen-Activated Protein Kinases with Distinct Requirements for Ste5 Scaffolding Influence Signaling Specificity in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2005, 25, 1793-1803.	1.1	64
33	A theoretical framework for specificity in cell signaling. Molecular Systems Biology, 2005, 1, 2005.0023.	3.2	64
34	A walk-through of the yeast mating pheromone response pathway. Peptides, 2005, 26, 339-350.	1.2	319
35	A conserved protein interaction network involving the yeast MAP kinases Fus3 and Kss1. Journal of Cell Biology, 2004, 164, 267-277.	2.3	76
36	A signaling mucin at the head of the Cdc42- and MAPK-dependent filamentous growth pathway in yeast. Genes and Development, 2004, 18, 1695-1708.	2.7	192

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37	A walk-through of the yeast mating pheromone response pathway. Peptides, 2004, 25, 1465-1476.	1.2	236
38	Anthrax lethal factor-cleavage products of MAPK (mitogen-activated protein kinase) kinases exhibit reduced binding to their cognate MAPKs. Biochemical Journal, 2004, 378, 569-577.	1.7	95
39	A Docking Site in MKK4 Mediates High Affinity Binding to JNK MAPKs and Competes with Similar Docking Sites in JNK Substrates. Journal of Biological Chemistry, 2003, 278, 32662-32672.	1.6	97
40	Docking sites on mitogen-activated protein kinase (MAPK) kinases, MAPK phosphatases and the Elk-1 transcription factor compete for MAPK binding and are crucial for enzymic activity. Biochemical Journal, 2003, 370, 1077-1085.	1.7	95
41	Specificity of MAP Kinase Signaling in Yeast Differentiation Involves Transient versus Sustained MAPK Activation. Molecular Cell, 2001, 8, 683-691.	4.5	166
42	A Conserved Docking Site in MEKs Mediates High-affinity Binding to MAP Kinases and Cooperates with a Scaffold Protein to Enhance Signal Transmission. Journal of Biological Chemistry, 2001, 276, 10374-10386.	1.6	161
43	Inhibitory and activating functions for MAPK Kss1 in the S. cerevisiae filamentous- growth signalling pathway. Nature, 1997, 390, 85-88.	13.7	266
44	Nucleotide excision repair in the yeast Saccharomyces cerevisiae : its relationship to specialized mitotic recombination and RNA polymerase II basal transcription. Philosophical Transactions of the Royal Society B: Biological Sciences, 1995, 347, 63-68.	1.8	44
45	Nucleotide excision repair in the yeast Saccharomyces cerevisiae: its relationship to specialized mitotic recombination and RNA polymerase II basal transcription. , 1995, , 59-64.		1
46	Specific cleavage of model recombination and repair intermediates by the yeast Rad1-Rad10 DNA endonuclease. Science, 1994, 265, 2082-2085.	6.0	264
47	Transcription and nucleotide excision repair â€” reflections, considerations and recent biochemical insights. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1994, 307, 5-14.	0.4	30
48	Recent Insights on DNA Repair: The Mechanism of Damaged Nucleotide Excision in Eukaryotes and Its Relationship to Other Cellular Processes. Annals of the New York Academy of Sciences, 1994, 726, 281-291.	1.8	7
49	Signal Propagation and Regulation in the Mating Pheromone Response Pathway of the Yeast Saccharomyces cerevisiae. Developmental Biology, 1994, 166, 363-379.	0.9	163
50	Yeast nucleotide excision repair proteins Rad2 and Rad4 interact with RNA polymerase II basal transcription factor b (TFIIH).. Molecular and Cellular Biology, 1994, 14, 3569-3576.	1.1	76
51	Yeast RAD3 protein binds directly to both SSL2 and SSL1 proteins: implications for the structure and function of transcription/repair factor b.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 3926-3930.	3.3	44
52	Yeast DNA repair and recombination proteins Rad1 and Rad10 constitute a single-stranded-DNA endonuclease. Nature, 1993, 362, 860-862.	13.7	203
53	Yeast DNA recombination and repair proteins Rad 1 and Radio constitute a complex in vivo mediated by localized hydrophobic domains. Molecular Microbiology, 1993, 8, 1177-1188.	1.2	61
54	Inhibition of Rad3 DNA helicase activity by DNA adducts and abasic sites: implications for the role of a DNA helicase in damage-specific incision of DNA. Biochemistry, 1993, 32, 613-621.	1.2	62

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55	Dual roles of a multiprotein complex from S. cerevisiae in transcription and DNA repair. Cell, 1993, 75, 1379-1387.	13.5	337
56	Characterization of the RAD10 gene of Saccharomyces cerevisiae and purification of Rad10 protein. Biochemistry, 1990, 29, 3119-3126.	1.2	18
57	The mutagenic and carcinogenic effects of gene transfer. Mutagenesis, 1989, 4, 245-253.	1.0	21