

Richard E Honkanen

List of Publications by Citations

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42
papers

1,726
citations

22
h-index

41
g-index

48
ext. papers

1,909
ext. citations

5.8
avg, IF

4.47
L-index

#	Paper	IF	Citations
42	Cantharidin, another natural toxin that inhibits the activity of serine/threonine protein phosphatases types 1 and 2A. <i>FEBS Letters</i> , 1993 , 330, 283-6	3.8	214
41	Small-molecule inhibitors of ser/thr protein phosphatases: specificity, use and common forms of abuse. <i>Methods in Molecular Biology</i> , 2007 , 365, 23-38	1.4	208
40	Fostriecin, an antitumor antibiotic with inhibitory activity against serine/threonine protein phosphatases types 1 (PP1) and 2A (PP2A), is highly selective for PP2A. <i>FEBS Letters</i> , 1997 , 416, 230-4	3.8	170
39	Fundamental role of the fostriecin unsaturated lactone and implications for selective protein phosphatase inhibition. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15694-5	16.4	102
38	Molecular cloning, expression, and characterization of a novel human serine/threonine protein phosphatase, PP7, that is homologous to Drosophila retinal degeneration C gene product (rdgC). <i>Journal of Biological Chemistry</i> , 1998 , 273, 1462-8	5.4	89
37	Structural basis for the catalytic activity of human serine/threonine protein phosphatase-5. <i>Journal of Biological Chemistry</i> , 2004 , 279, 33992-9	5.4	84
36	The role of serine/threonine protein phosphatase type 5 (PP5) in the regulation of stress-induced signaling networks and cancer. <i>Cancer and Metastasis Reviews</i> , 2008 , 27, 169-78	9.6	66
35	Fostriecin, an inhibitor of protein phosphatase 2A, limits myocardial infarct size even when administered after onset of ischemia. <i>Circulation</i> , 1998 , 98, 899-905	16.7	64
34	Label-free quantitative proteomics and SAINT analysis enable interactome mapping for the human Ser/Thr protein phosphatase 5. <i>Proteomics</i> , 2011 , 11, 1508-16	4.8	59
33	Serine/threonine protein phosphatase 5 (PP5) participates in the regulation of glucocorticoid receptor nucleocytoplasmic shuttling. <i>BMC Cell Biology</i> , 2001 , 2, 6		59
32	Cardioprotection by mild hypothermia during ischemia involves preservation of ERK activity. <i>Basic Research in Cardiology</i> , 2011 , 106, 421-30	11.8	55
31	Human DNA polymerase eta activity and translocation is regulated by phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16578-83	11.5	54
30	Total synthesis and evaluation of cytostatin, its C10-C11 diastereomers, and additional key analogues: impact on PP2A inhibition. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16720-32	16.4	47
29	Elevated levels of Ser/Thr protein phosphatase 5 (PP5) in human breast cancer. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008 , 1782, 259-70	6.9	46
28	Modulation of protein phosphatase 2A activity alters androgen-independent growth of prostate cancer cells: therapeutic implications. <i>Molecular Cancer Therapeutics</i> , 2011 , 10, 720-31	6.1	45
27	Cantharidin-induced mitotic arrest is associated with the formation of aberrant mitotic spindles and lagging chromosomes resulting, in part, from the suppression of PP2Aalpha. <i>Molecular Cancer Therapeutics</i> , 2006 , 5, 2727-36	6.1	41
26	Structure-activity relationship studies of fostriecin, cytostatin, and key analogs, with PP1, PP2A, PP5, and(beta12-beta13)-chimeras (PP1/PP2A and PP5/PP2A), provide further insight into the inhibitory actions of fostriecin family inhibitors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 331, 45-53	4.7	40

25	PP1:Tautomycetin Complex Reveals a Path toward the Development of PP1-Specific Inhibitors. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17703-17706	16.4	28
24	Disruption of serine/threonine protein phosphatase 5 (PP5:PPP5c) in mice reveals a novel role for PP5 in the regulation of ultraviolet light-induced phosphorylation of serine/threonine protein kinase Chk1 (CHEK1). <i>Journal of Biological Chemistry</i> , 2011 , 286, 40413-22	5.4	26
23	Total synthesis and evaluation of phostriecin and key structural analogues. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7505-13	4.2	24
22	High yield expression of serine/threonine protein phosphatase type 5, and a fluorescent assay suitable for use in the detection of catalytic inhibitors. <i>Assay and Drug Development Technologies</i> , 2007 , 5, 645-53	2.1	23
21	Detection of DSP-Toxins, Okadaic Acid, and Dinophysis Toxin-1 in Shellfish by Serine/Threonine Protein Phosphatase Assay. <i>Journal of AOAC INTERNATIONAL</i> , 1996 , 79, 1336-1343	1.7	22
20	PROTEIN PHOSPHATASE INHIBITORY ACTIVITY IN EXTRACTS OF CULTURED BLUE-GREEN ALGAE (CYANOPHYTA)1. <i>Journal of Phycology</i> , 1995 , 31, 478-486	3	22
19	The Antitumor Drug LB-100 Is a Catalytic Inhibitor of Protein Phosphatase 2A (PPP2CA) and 5 (PPP5C) Coordinating with the Active-Site Catalytic Metals in PPP5C. <i>Molecular Cancer Therapeutics</i> , 2019 , 18, 556-566	6.1	21
18	Small G proteins Rac1 and Ras regulate serine/threonine protein phosphatase 5 (PP5) extracellular signal-regulated kinase (ERK) complexes involved in the feedback regulation of Raf1. <i>Journal of Biological Chemistry</i> , 2014 , 289, 4219-32	5.4	20
17	Protein phosphatases in pancreatic islets. <i>Journal of Endocrinology</i> , 2014 , 221, R121-44	4.7	16
16	Crystal structures and mutagenesis of PPP-family ser/thr protein phosphatases elucidate the selectivity of cantharidin and novel norcantharidin-based inhibitors of PP5C. <i>Biochemical Pharmacology</i> , 2016 , 109, 14-26	6	16
15	Development and validation of a robust and sensitive assay for the discovery of selective inhibitors for serine/threonine protein phosphatases PP1 (PPP1C) and PP5 (PPP5C). <i>Assay and Drug Development Technologies</i> , 2014 , 12, 481-96	2.1	11
14	Inhibitors of Serine/Threonine Protein Phosphatases: Biochemical and Structural Studies Provide Insight for Further Development. <i>Current Medicinal Chemistry</i> , 2019 , 26, 2634-2660	4.3	9
13	Suppression of Ser/Thr phosphatase 4 (PP4C/PPP4C) mimics a novel post-mitotic action of fostriecin, producing mitotic slippage followed by tetraploid cell death. <i>Molecular Cancer Research</i> , 2013 , 11, 845-55	6.6	8
12	Serine/threonine phosphatase 5 (PP5C/PPP5C) regulates the ISOC channel through a PP5C-FKBP51 axis. <i>Pulmonary Circulation</i> , 2018 , 8, 2045893217753156	2.7	8
11	S100A6 is a positive regulator of PPP5C-FKBP51-dependent regulation of endothelial calcium signaling. <i>FASEB Journal</i> , 2020 , 34, 3179-3196	0.9	7
10	An Ultra-High-Throughput Screen for Catalytic Inhibitors of Serine/Threonine Protein Phosphatases Types 1 and 5 (PP1C and PP5C). <i>SLAS Discovery</i> , 2017 , 22, 21-31	3.4	5
9	Calcineurin regulates homologous desensitization of natriuretic peptide receptor-A and inhibits ANP-induced testosterone production in MA-10 cells. <i>PLoS ONE</i> , 2012 , 7, e41711	3.7	4
8	FAK Activation Promotes SMC Dedifferentiation via Increased DNA Methylation in Contractile Genes. <i>Circulation Research</i> , 2021 , 129, e215-e233	15.7	3

7	A disorder-related variant (E420K) of a PP2A-regulatory subunit (PPP2R5D) causes constitutively active AKT-mTOR signaling and uncoordinated cell growth. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100313	5.4	3
6	Investigations into the Structure-Activity Relationship of Fostriecin, a Potent Inhibitor of Ser/Thr Protein Phosphatases. <i>FASEB Journal</i> , 2006 , 20,	0.9	2
5	Development of a Synthetic 3-ketosteroid Δ^4 -dehydrogenase for the Generation of a Novel Catabolic Pathway Enabling Cholesterol Degradation in Human Cells. <i>Scientific Reports</i> , 2019 , 9, 5969	4.9	1
4	The phosphatase inhibitor LB-100 acts synergistically with the NPR2 agonist BMN-111 to improve bone growth		1
3	Phosphatase inhibition by LB-100 enhances BMN-111 stimulation of bone growth. <i>JCI Insight</i> , 2021 , 6,	9.9	1
2	Quantum-Based Modeling of Dephosphorylation in the Catalytic Site of Serine/Threonine Protein Phosphatase-5 (PPP5C). <i>Catalysts</i> , 2020 , 10, 674	4	0
1	Calcium-Dependent Localization of S100A6 in Pulmonary Microvascular Endothelial Cells. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	