Richard E Honkanen

List of Publications by Year in Descending Order

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	FAK Activation Promotes SMC Dedifferentiation via Increased DNA Methylation in Contractile Genes. *Circulation Research*, **2021**, 129, e215-e233	15.7	3
41	Phosphatase inhibition by LB-100 enhances BMN-111 stimulation of bone growth. *JCI Insight*, **2021**, 6,	9.9	1
40	A disorder-related variant (E420K) of a PP2A-regulatory subunit (PPP2R5D) causes constitutively active AKT-mTOR signaling and uncoordinated cell growth. *Journal of Biological Chemistry*, **2021**, 296, 100313	5.4	3
39	Quantum-Based Modeling of Dephosphorylation in the Catalytic Site of Serine/Threonine Protein Phosphatase-5 (PPP5C). *Catalysts*, **2020**, 10, 674	4	0
38	Calcium-Dependent Localization of S100A6 in Pulmonary Microvascular Endothelial Cells. *FASEB Journal*, **2020**, 34, 1-1	0.9	
37	S100A6 is a positive regulator of PPP5C-FKBP51-dependent regulation of endothelial calcium signaling. *FASEB Journal*, **2020**, 34, 3179-3196	0.9	7
36	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. *Molecular Cancer Therapeutics*, **2019**, 18, 556-566	6.1	21
35	Development of a Synthetic 3-ketosteroid□dehydrogenase for the Generation of a Novel Catabolic Pathway Enabling Cholesterol Degradation in Human Cells. *Scientific Reports*, **2019**, 9, 5969	4.9	1
34	Inhibitors of Serine/Threonine Protein Phosphatases: Biochemical and Structural Studies Provide Insight for Further Development. *Current Medicinal Chemistry*, **2019**, 26, 2634-2660	4.3	9
33	Serine/threonine phosphatase 5 (PP5C/PPP5C) regulates the ISOC channel through a PP5C-FKBP51 axis. *Pulmonary Circulation*, **2018**, 8, 2045893217753156	2.7	8
32	PP1:Tautomycetin Complex Reveals a Path toward the Development of PP1-Specific Inhibitors. *Journal of the American Chemical Society*, **2017**, 139, 17703-17706	16.4	28
31	An Ultra-High-Throughput Screen for Catalytic Inhibitors of Serine/Threonine Protein Phosphatases Types 1 and 5 (PP1C and PP5C). *SLAS Discovery*, **2017**, 22, 21-31	3.4	5
30	Crystal structures and mutagenesis of PPP-family ser/thr protein phosphatases elucidate the selectivity of cantharidin and novel norcantharidin-based inhibitors of PP5C. *Biochemical Pharmacology*, **2016**, 109, 14-26	6	16
29	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). *Assay and Drug Development Technologies*, **2014**, 12, 481-96	2.1	11
28	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. *Journal of Biological Chemistry*, **2014**, 289, 4219-32	5.4	20
27	Protein phosphatases in pancreatic islets. *Journal of Endocrinology*, **2014**, 221, R121-44	4.7	16
26	Suppression of Ser/Thr phosphatase 4 (PP4C/PPP4C) mimics a novel post-mitotic action of fostriecin, producing mitotic slippage followed by tetraploid cell death. *Molecular Cancer Research*, **2013**, 11, 845-55	6.6	8

25	Calcineurin regulates homologous desensitization of natriuretic peptide receptor-A and inhibits ANP-induced testosterone production in MA-10 cells. *PLoS ONE*, **2012**, 7, e41711	3.7	4
24	Cardioprotection by mild hypothermia during ischemia involves preservation of ERK activity. *Basic Research in Cardiology*, **2011**, 106, 421-30	11.8	55
23	Label-free quantitative proteomics and SAINT analysis enable interactome mapping for the human Ser/Thr protein phosphatase 5. *Proteomics*, **2011**, 11, 1508-16	4.8	59
22	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). *Journal of Biological Chemistry*, **2011**, 286, 40413-22	5.4	26
21	Modulation of protein phosphatase 2A activity alters androgen-independent growth of prostate cancer cells: therapeutic implications. *Molecular Cancer Therapeutics*, **2011**, 10, 720-31	6.1	45
20	Total synthesis and evaluation of phostriecin and key structural analogues. *Journal of Organic Chemistry*, **2010**, 75, 7505-13	4.2	24
19	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. *Journal of Pharmacology and Experimental Therapeutics*, **2009**, 331, 45-53	4.7	40
18	Elevated levels of Ser/Thr protein phosphatase 5 (PP5) in human breast cancer. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2008**, 1782, 259-70	6.9	46
17	Human DNA polymerase eta activity and translocation is regulated by phosphorylation. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 16578-83	11.5	54
16	The role of serine/threonine protein phosphatase type 5 (PP5) in the regulation of stress-induced signaling networks and cancer. *Cancer and Metastasis Reviews*, **2008**, 27, 169-78	9.6	66
15	High yield expression of serine/threonine protein phosphatase type 5, and a fluorescent assay suitable for use in the detection of catalytic inhibitors. *Assay and Drug Development Technologies*, **2007**, 5, 645-53	2.1	23
14	Small-molecule inhibitors of ser/thr protein phosphatases: specificity, use and common forms of abuse. *Methods in Molecular Biology*, **2007**, 365, 23-38	1.4	208
13	Cantharidin-induced mitotic arrest is associated with the formation of aberrant mitotic spindles and lagging chromosomes resulting, in part, from the suppression of PP2Aalpha. *Molecular Cancer Therapeutics*, **2006**, 5, 2727-36	6.1	41
12	Total synthesis and evaluation of cytostatin, its C10-C11 diastereomers, and additional key analogues: impact on PP2A inhibition. *Journal of the American Chemical Society*, **2006**, 128, 16720-32	16.4	47
11	Investigations into the Structure-Activity Relationship of Fostriecin, a Potent Inhibitor of Ser/Thr Protein Phosphatases. *FASEB Journal*, **2006**, 20,	0.9	2
10	Structural basis for the catalytic activity of human serine/threonine protein phosphatase-5. *Journal of Biological Chemistry*, **2004**, 279, 33992-9	5.4	84
9	Fundamental role of the fostriecin unsaturated lactone and implications for selective protein phosphatase inhibition. *Journal of the American Chemical Society*, **2003**, 125, 15694-5	16.4	102
8	Serine/threonine protein phosphatase 5 (PP5) participates in the regulation of glucocorticoid receptor nucleocytoplasmic shuttling. *BMC Cell Biology*, **2001**, 2, 6		59

7	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). *Journal of Biological Chemistry*, **1998**, 273, 1462-8	5.4	89
6	Fostriecin, an inhibitor of protein phosphatase 2A, limits myocardial infarct size even when administered after onset of ischemia. *Circulation*, **1998**, 98, 899-905	16.7	64
5	Fostriecin, an antitumor antibiotic with inhibitory activity against serine/threonine protein phosphatases types 1 (PP1) and 2A (PP2A), is highly selective for PP2A. *FEBS Letters*, **1997**, 416, 230-4	3.8	170
4	Detection of DSP-Toxins, Okadaic Acid, and Dinophysis Toxin-1 in Shellfish by Serine/Threonine Protein Phosphatase Assay. *Journal of AOAC INTERNATIONAL*, **1996**, 79, 1336-1343	1.7	22
3	PROTEIN PHOSPHATASE INHIBITORY ACTIVITY IN EXTRACTS OF CULTURED BLUE-GREEN ALGAE (CYANOPHYTA)1. *Journal of Phycology*, **1995**, 31, 478-486	3	22
2	Cantharidin, another natural toxin that inhibits the activity of serine/threonine protein phosphatases types 1 and 2A. *FEBS Letters*, **1993**, 330, 283-6	3.8	214
1	The phosphatase inhibitor LB-100 acts synergistically with the NPR2 agonist BMN-111 to improve bone growth		1