

Bob Van De Water

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	3,382 citations	30 h-index	58 g-index
71 ext. papers	3,943 ext. citations	6.5 avg, IF	4.84 L-index

#	Paper	IF	Citations
67	Endoplasmic reticulum chaperones GRP78 and calreticulin prevent oxidative stress, Ca ²⁺ disturbances, and cell death in renal epithelial cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 21751-9	5.4	311
66	Focal adhesion kinase: a potential target in cancer therapy. <i>Biochemical Pharmacology</i> , 2007 , 73, 597-609	5.8	248
65	A 3D in vitro model of differentiated HepG2 cell spheroids with improved liver-like properties for repeated dose high-throughput toxicity studies. <i>Archives of Toxicology</i> , 2014 , 88, 1083-95	5.8	211
64	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017 , 91, 3477-3505	5.8	174
63	Endoplasmic reticulum stress proteins block oxidant-induced Ca ²⁺ increases and cell death. <i>Journal of Biological Chemistry</i> , 1998 , 273, 12858-62	5.4	155
62	Annexin A1 regulates TGF-beta signaling and promotes metastasis formation of basal-like breast cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6340-5	11.5	151
61	Macrophage p53 deficiency leads to enhanced atherosclerosis in APOE*3-Leiden transgenic mice. <i>Circulation Research</i> , 2001 , 88, 780-6	15.7	124
60	Current EU research activities on combined exposure to multiple chemicals. <i>Environment International</i> , 2018 , 120, 544-562	12.9	119
59	Requirement for focal adhesion kinase in the early phase of mammary adenocarcinoma lung metastasis formation. <i>Cancer Research</i> , 2005 , 65, 4698-706	10.1	118
58	Toxic tubular injury in kidneys from Pkd1-deletion mice accelerates cystogenesis accompanied by dysregulated planar cell polarity and canonical Wnt signaling pathways. <i>Human Molecular Genetics</i> , 2009 , 18, 2532-42	5.6	116
57	Dephosphorylation of focal adhesion kinase (FAK) and loss of focal contacts precede caspase-mediated cleavage of FAK during apoptosis in renal epithelial cells. <i>Journal of Biological Chemistry</i> , 1999 , 274, 13328-37	5.4	106
56	Annexin A2 phosphorylation mediates cell scattering and branching morphogenesis via cofilin Activation. <i>Molecular and Cellular Biology</i> , 2008 , 28, 1029-40	4.8	86
55	Managing the challenge of drug-induced liver injury: a roadmap for the development and deployment of preclinical predictive models. <i>Nature Reviews Drug Discovery</i> , 2020 , 19, 131-148	64.1	82
54	Tumor cell migration screen identifies SRPK1 as breast cancer metastasis determinant. <i>Journal of Clinical Investigation</i> , 2015 , 125, 1648-64	15.9	81
53	Statement on advancing the assessment of chemical mixtures and their risks for human health and the environment. <i>Environment International</i> , 2020 , 134, 105267	12.9	81
52	Diclofenac inhibits tumor necrosis factor- α -induced nuclear factor- κ B activation causing synergistic hepatocyte apoptosis. <i>Hepatology</i> , 2011 , 53, 2027-41	11.2	76
51	Differential regulation of doxorubicin-induced mitochondrial dysfunction and apoptosis by Bcl-2 in mammary adenocarcinoma (MTLn3) cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35869-79	5.4	75

50	Toxicogenomics directory of chemically exposed human hepatocytes. <i>Archives of Toxicology</i> , 2014 , 88, 2261-87	5.8	74
49	Heat shock protein 27 is the major differentially phosphorylated protein involved in renal epithelial cellular stress response and controls focal adhesion organization and apoptosis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 29885-98	5.4	74
48	The roles of caspase-3 and bcl-2 in chemically-induced apoptosis but not necrosis of renal epithelial cells. <i>Oncogene</i> , 1999 , 18, 6505-12	9.2	65
47	TNF- α -mediated NF- κ B survival signaling impairment by cisplatin enhances JNK activation allowing synergistic apoptosis of renal proximal tubular cells. <i>Biochemical Pharmacology</i> , 2013 , 85, 274-86	6	56
46	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. <i>Archives of Toxicology</i> , 2019 , 93, 1609-1637	5.8	53
45	Suppression of chemically induced apoptosis but not necrosis of renal proximal tubular epithelial (LLC-PK1) cells by focal adhesion kinase (FAK). Role of FAK in maintaining focal adhesion organization after acute renal cell injury. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36183-93	5.4	47
44	Annexin A1 expression in a pooled breast cancer series: association with tumor subtypes and prognosis. <i>BMC Medicine</i> , 2015 , 13, 156	11.4	37
43	Dynamic imaging of adaptive stress response pathway activation for prediction of drug induced liver injury. <i>Archives of Toxicology</i> , 2018 , 92, 1797-1814	5.8	36
42	Focal adhesion kinase and protein kinase B cooperate to suppress doxorubicin-induced apoptosis of breast tumor cells. <i>Molecular Pharmacology</i> , 2006 , 70, 1330-9	4.3	34
41	Differential regulation of phosphatidylserine externalization and DNA fragmentation by caspases in anticancer drug-induced apoptosis of rat mammary adenocarcinoma MTLn3 cells. <i>Biochemical Pharmacology</i> , 2001 , 62, 1087-97	6	33
40	Alkylation-induced oxidative cell injury of renal proximal tubular cells: involvement of glutathione redox-cycle inhibition. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 327, 71-80	4.1	31
39	The relationship between intracellular Ca ²⁺ and the mitochondrial membrane potential in isolated proximal tubular cells from rat kidney exposed to the nephrotoxin 1,2-dichlorovinyl-cysteine. <i>Biochemical Pharmacology</i> , 1993 , 45, 2259-67	6	30
38	Systems microscopy approaches to understand cancer cell migration and metastasis. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 3219-40	10.3	28
37	High-throughput confocal imaging of differentiated 3D liver-like spheroid cellular stress response reporters for identification of drug-induced liver injury liability. <i>Archives of Toxicology</i> , 2019 , 93, 2895-2911	5.8	25
36	cAMP signalling protects proximal tubular epithelial cells from cisplatin-induced apoptosis via activation of Epac. <i>British Journal of Pharmacology</i> , 2012 , 165, 1137-50	8.6	25
35	Macrophage retinoblastoma deficiency leads to enhanced atherosclerosis development in ApoE-deficient mice. <i>FASEB Journal</i> , 2006 , 20, 953-5	0.9	25
34	Complete focal adhesion kinase deficiency in the mammary gland causes ductal dilation and aberrant branching morphogenesis through defects in Rho kinase-dependent cell contractility. <i>FASEB Journal</i> , 2009 , 23, 3482-93	0.9	24
33	An improved model to study tumor cell autonomous metastasis programs using MTLn3 cells and the Rag2(-/-) gammac (-/-) mouse. <i>Clinical and Experimental Metastasis</i> , 2009 , 26, 673-84	4.7	24

32	Macrophage p53 controls macrophage death in atherosclerotic lesions of apolipoprotein E deficient mice. <i>Atherosclerosis</i> , 2009 , 207, 399-404	3.1	24
31	Advancing human health risk assessment. <i>EFSA Journal</i> , 2019 , 17, e170712	2.3	19
30	The nuclear factor κ B family member RelB facilitates apoptosis of renal epithelial cells caused by cisplatin/tumor necrosis factor α synergy by suppressing an epithelial to mesenchymal transition-like phenotypic switch. <i>Molecular Pharmacology</i> , 2013 , 84, 128-38	4.3	19
29	Linking gene expression to mechanisms of toxicity. <i>Toxicology Letters</i> , 2000 , 112-113, 479-86	4.4	18
28	Characterisation of the NRF2 transcriptional network and its response to chemical insult in primary human hepatocytes: implications for prediction of drug-induced liver injury. <i>Archives of Toxicology</i> , 2019 , 93, 385-399	5.8	18
27	A portrait of cisplatin-induced transcriptional changes in mouse embryonic stem cells reveals a dominant p53-like response. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2007 , 617, 58-70	3.3	15
26	Multiparametric assessment of mitochondrial respiratory inhibition in HepG2 and RPTEC/TERT1 cells using a panel of mitochondrial targeting agrochemicals. <i>Archives of Toxicology</i> , 2020 , 94, 2707-2729	5.8	13
25	Two-photon intravital multicolor imaging combined with inducible gene expression to distinguish metastatic behavior of breast cancer cells in vivo. <i>Molecular Imaging and Biology</i> , 2011 , 13, 67-77	3.8	13
24	Comparing in vitro human liver models to in vivo human liver using RNA-Seq. <i>Archives of Toxicology</i> , 2021 , 95, 573-589	5.8	12
23	Unraveling cellular pathways contributing to drug-induced liver injury by dynamical modeling. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2017 , 13, 5-17	5.5	11
22	Silencing of doublecortin-like (DCL) results in decreased mitochondrial activity and delayed neuroblastoma tumor growth. <i>PLoS ONE</i> , 2013 , 8, e75752	3.7	11
21	Focal adhesion kinase signaling mediates acute renal injury induced by ischemia/reperfusion. <i>American Journal of Pathology</i> , 2011 , 179, 2766-78	5.8	10
20	Proteomic analysis of alternative protein tyrosine phosphorylation in 1,2-dichlorovinyl-cysteine-induced cytotoxicity in primary cultured rat renal proximal tubular cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 322, 89-100	4.7	10
19	Two-photon intravital multicolour imaging to study metastatic behaviour of cancer cells in vivo. <i>Methods in Molecular Biology</i> , 2011 , 769, 331-49	1.4	9
18	Neurotoxicity and underlying cellular changes of 21 mitochondrial respiratory chain inhibitors. <i>Archives of Toxicology</i> , 2021 , 95, 591-615	5.8	9
17	In Vitro Three-Dimensional Liver Models for Nanomaterial DNA Damage Assessment. <i>Small</i> , 2021 , 17, e2006055	1.1	8
16	Case Studies in Cellular Stress: Defining Adversity/Adaptation Tipping Points. <i>Applied in Vitro Toxicology</i> , 2017 , 3, 199-210	1.3	7
15	Identification of mitochondrial toxicants by combined in silico and in vitro studies in a structure-based view on the adverse outcome pathway. <i>Computational Toxicology</i> , 2020 , 14, 100123	3.1	7

14	In vitro 3D phenotypic drug screen identifies celastrol as an effective in vivo inhibitor of polycystic kidney disease. <i>Journal of Molecular Cell Biology</i> , 2020 , 12, 644-653	6.3	6
13	Mechanism-Based Markers of Drug-Induced Liver Injury to Improve the Physiological Relevance and Predictivity of In Vitro Models. <i>Applied in Vitro Toxicology</i> , 2015 , 1, 175-186	1.3	5
12	An improved method to study NK-independent mechanisms of MTLn3 breast cancer lung metastasis. <i>Clinical and Experimental Metastasis</i> , 2007 , 24, 379-87	4.7	5
11	Differential reprogramming of breast cancer subtypes in 3D cultures and implications for sensitivity to targeted therapy. <i>Scientific Reports</i> , 2021 , 11, 7259	4.9	5
10	Squaramide-Based Supramolecular Materials Drive HepG2 Spheroid Differentiation. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001903	10.1	3
9	Mapping the cellular response to electron transport chain inhibitors reveals selective signaling networks triggered by mitochondrial perturbation. <i>Archives of Toxicology</i> , 2021 , 1	5.8	2
8	A read-across case study on chronic toxicity of branched carboxylic acids (1): Integration of mechanistic evidence from new approach methodologies (NAMs) to explore a common mode of action. <i>Toxicology in Vitro</i> , 2021 , 79, 105269	3.6	2
7	Dynamic Modeling of Mitochondrial Membrane Potential Upon Exposure to Mitochondrial Inhibitors. <i>Frontiers in Pharmacology</i> , 2021 , 12, 679407	5.6	2
6	A quantitative AOP of mitochondrial toxicity based on data from three cell lines.. <i>Toxicology in Vitro</i> , 2022 , 105345	3.6	2
5	Systems Microscopy Approaches in Unraveling and Predicting Drug-Induced Liver Injury (DILI). <i>Methods in Pharmacology and Toxicology</i> , 2018 , 611-625	1.1	1
4	An Overview of Toxicogenomics Approaches to Mechanistically Understand and Predict Kidney Toxicity 2014 , 213-234		1
3	The human hepatocyte TXG-MAPr: gene co-expression network modules to support mechanism-based risk assessment. <i>Archives of Toxicology</i> , 2021 , 95, 3745-3775	5.8	1
2	Drug-Induced Liver Injury and TNF α Signaling: From In Vivo Understanding to In Vitro Testing Approaches. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 197-206	1.3	1
1	High-content high-throughput imaging reveals distinct connections between mitochondrial morphology and functionality for OXPHOS complex I, III, and V inhibitors.. <i>Cell Biology and Toxicology</i> , 2022 , 1	7.4	0