

Paul Jennings

List of Publications by Citations

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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.

102
papers

3,014
citations

31
h-index

51
g-index

117
ext. papers

3,588
ext. citations

4.1
avg. IF

5
L-index

#	Paper	IF	Citations
102	hTERT alone immortalizes epithelial cells of renal proximal tubules without changing their functional characteristics. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1365-75	4.3	200
101	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017 , 91, 3477-3505	5.8	174
100	Application of integrated transcriptomic, proteomic and metabolomic profiling for the delineation of mechanisms of drug induced cell stress. <i>Journal of Proteomics</i> , 2013 , 79, 180-94	3.9	138
99	An overview of transcriptional regulation in response to toxicological insult. <i>Archives of Toxicology</i> , 2013 , 87, 49-72	5.8	117
98	Cyclosporine A induces senescence in renal tubular epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 293, F831-8	4.3	104
97	In vitro evaluation of the toxicity induced by nickel soluble and particulate forms in human airway epithelial cells. <i>Toxicology in Vitro</i> , 2011 , 25, 454-61	3.6	91
96	Evidence for a role of uromodulin in chronic kidney disease progression. <i>Nephrology Dialysis Transplantation</i> , 2010 , 25, 1896-903	4.3	90
95	The surface properties of nanocrystalline diamond and nanoparticulate diamond powder and their suitability as cell growth support surfaces. <i>Biomaterials</i> , 2008 , 29, 4275-84	15.6	88
94	A review of the evidence that ochratoxin A is an Nrf2 inhibitor: implications for nephrotoxicity and renal carcinogenicity. <i>Toxins</i> , 2014 , 6, 371-9	4.9	85
93	Mechanism of cisplatin proximal tubule toxicity revealed by integrating transcriptomics, proteomics, metabolomics and biokinetics. <i>Toxicology in Vitro</i> , 2015 , 30, 117-27	3.6	78
92	"The future of in vitro toxicology". <i>Toxicology in Vitro</i> , 2015 , 29, 1217-21	3.6	65
91	Identification and dissection of the Nrf2 mediated oxidative stress pathway in human renal proximal tubule toxicity. <i>Toxicology in Vitro</i> , 2011 , 25, 613-22	3.6	65
90	Systems Toxicology: Real World Applications and Opportunities. <i>Chemical Research in Toxicology</i> , 2017 , 30, 870-882	4	64
89	Delineation of the key aspects in the regulation of epithelial monolayer formation. <i>Molecular and Cellular Biology</i> , 2013 , 33, 2535-50	4.8	62
88	Membrane targeting and secretion of mutant uromodulin in familial juvenile hyperuricemic nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2007 , 18, 264-73	12.7	60
87	Advanced Good Cell Culture Practice for human primary, stem cell-derived and organoid models as well as microphysiological systems. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 353-378	4.3	58
86	Lactate is an ideal non-invasive marker for evaluating temporal alterations in cell stress and toxicity in repeat dose testing regimes. <i>Toxicology in Vitro</i> , 2011 , 25, 1855-62	3.6	56

85	The carcinoGENOMICS project: critical selection of model compounds for the development of omics-based in vitro carcinogenicity screening assays. <i>Mutation Research - Reviews in Mutation Research</i> , 2008 , 659, 202-10	7	50
84	Metabolic response to low-level toxicant exposure in a novel renal tubule epithelial cell system. <i>Molecular BioSystems</i> , 2011 , 7, 247-57		48
83	Expression of xenobiotic transporters in the human renal proximal tubule cell line RPTEC/TERT1. <i>Toxicology in Vitro</i> , 2015 , 30, 95-105	3.6	45
82	Ca ²⁺ entry is essential for cell strain-induced lamellar body fusion in isolated rat type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 286, L210-20	5.8	42
81	Stem cell-derived systems in toxicology assessment. <i>Stem Cells and Development</i> , 2015 , 24, 1284-96	4.4	41
80	Transcriptomic alterations induced by Ochratoxin A in rat and human renal proximal tubular in vitro models and comparison to a rat in vivo model. <i>Archives of Toxicology</i> , 2012 , 86, 571-89	5.8	37
79	Oxidative stress induced by potassium bromate exposure results in altered tight junction protein expression in renal proximal tubule cells. <i>Archives of Toxicology</i> , 2012 , 86, 1741-51	5.8	36
78	Characterisation of cadmium chloride induced molecular and functional alterations in airway epithelial cells. <i>Cellular Physiology and Biochemistry</i> , 2010 , 25, 159-68	3.9	36
77	Differential effects of hypoxic stress in alveolar epithelial cells and microvascular endothelial cells. <i>Cellular Physiology and Biochemistry</i> , 2010 , 25, 135-44	3.9	35
76	Influence of microvascular endothelial cells on transcriptional regulation of proximal tubular epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 294, C543-54	5.4	35
75	Uromodulin facilitates neutrophil migration across renal epithelial monolayers. <i>Cellular Physiology and Biochemistry</i> , 2010 , 26, 311-8	3.9	34
74	Migration of leukocytes across an endothelium-epithelium bilayer as a model of renal interstitial inflammation. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C486-92	5.4	34
73	Inter-laboratory comparison of human renal proximal tubule (HK-2) transcriptome alterations due to Cyclosporine A exposure and medium exhaustion. <i>Toxicology in Vitro</i> , 2009 , 23, 486-99	3.6	31
72	LLC-PK(1) cells maintained in a new perfusion cell culture system exhibit an improved oxidative metabolism. <i>Cellular Physiology and Biochemistry</i> , 2002 , 12, 153-62	3.9	31
71	Systems biology modeling of omics data: effect of cyclosporine a on the Nrf2 pathway in human renal cells. <i>BMC Systems Biology</i> , 2014 , 8, 76	3.5	30
70	Moving forward in carcinogenicity assessment: Report of an EURL ECVAM/ESTIV workshop. <i>Toxicology in Vitro</i> , 2017 , 45, 278-286	3.6	29
69	Effect of tissue fixatives on telomere length determination by quantitative PCR. <i>Mechanisms of Ageing and Development</i> , 2005 , 126, 1331-3	5.6	29
68	Application of RPTEC/TERT1 cells for investigation of repeat dose nephrotoxicity: A transcriptomic study. <i>Toxicology in Vitro</i> , 2015 , 30, 106-16	3.6	28

67	Carcinogens induce loss of the primary cilium in human renal proximal tubular epithelial cells independently of effects on the cell cycle. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, F905-16	4.3	28
66	IFN-alpha induces barrier destabilization and apoptosis in renal proximal tubular epithelium. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 294, C153-60	5.4	28
65	Development of an in vitro renal epithelial disease state model for xenobiotic toxicity testing. <i>Toxicology in Vitro</i> , 2015 , 30, 128-37	3.6	27
64	Comparison of base-line and chemical-induced transcriptomic responses in HepaRG and RPTEC/TERT1 cells using TempO-Seq. <i>Archives of Toxicology</i> , 2018 , 92, 2517-2531	5.8	25
63	Mechanisms of neutrophil transmigration across renal proximal tubular HK-2 cells. <i>Cellular Physiology and Biochemistry</i> , 2006 , 17, 233-44	3.9	25
62	Evidence for a role of claudin 2 as a proximal tubular stress responsive paracellular water channel. <i>Toxicology and Applied Pharmacology</i> , 2014 , 279, 163-72	4.6	23
61	Opposing roles of EGF in IFN-alpha-induced epithelial barrier destabilization and tissue repair. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1843-50	5.4	23
60	Application of three approaches for quantitative AOP development to renal toxicity. <i>Computational Toxicology</i> , 2019 , 11, 1-13	3.1	23
59	Differentiation of human iPSCs into functional podocytes. <i>PLoS ONE</i> , 2018 , 13, e0203869	3.7	23
58	Transcriptomics hit the target: Monitoring of ligand-activated and stress response pathways for chemical testing. <i>Toxicology in Vitro</i> , 2015 , 30, 7-18	3.6	22
57	Development of a neurotoxicity assay that is tuned to detect mitochondrial toxicants. <i>Archives of Toxicology</i> , 2019 , 93, 1585-1608	5.8	20
56	Vision of a near future: Bridging the human health-environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. <i>Toxicology in Vitro</i> , 2020 , 62, 104692	3.6	19
55	Glucose reintroduction triggers the activation of Nrf2 during experimental ischemia reperfusion. <i>Molecular and Cellular Biochemistry</i> , 2012 , 366, 231-8	4.2	18
54	Interleukin-19 as a translational indicator of renal injury. <i>Archives of Toxicology</i> , 2015 , 89, 101-6	5.8	17
53	SEURAT-1 liver gold reference compounds: a mechanism-based review. <i>Archives of Toxicology</i> , 2014 , 88, 2099-133	5.8	17
52	Familial juvenile hyperuricemic nephropathy: report on a new mutation and a pregnancy. <i>Clinical Nephrology</i> , 2009 , 71, 80-3	2.1	17
51	Assessment of a new cell culture perfusion apparatus for in vitro chronic toxicity testing. Part 2: toxicological evaluation. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2004 , 21, 61-6	4.3	17
50	A fluorescent microplate assay for exocytosis in alveolar type II cells. <i>Journal of Biomolecular Screening</i> , 2006 , 11, 286-95		15

49	Inter-laboratory study of human in vitro toxicogenomics-based tests as alternative methods for evaluating chemical carcinogenicity: a bioinformatics perspective. <i>Archives of Toxicology</i> , 2016 , 90, 2215-2229	5.8	14
48	New approach methodologies (NAMs) for human-relevant biokinetics predictions. Meeting the paradigm shift in toxicology towards an animal-free chemical risk assessment. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020 , 37, 607-622	4.3	14
47	Kinetics and dynamics of cyclosporine A in three hepatic cell culture systems. <i>Toxicology in Vitro</i> , 2015 , 30, 62-78	3.6	13
46	Cyclosporine A kinetics in brain cell cultures and its potential of crossing the blood-brain barrier. <i>Toxicology in Vitro</i> , 2015 , 30, 166-75	3.6	13
45	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
44	The EU-ToxRisk method documentation, data processing and chemical testing pipeline for the regulatory use of new approach methods. <i>Archives of Toxicology</i> , 2020 , 94, 2435-2461	5.8	12
43	Development and characterization of a pseudo multiple reaction monitoring method for the quantification of human uromodulin in urine. <i>Bioanalysis</i> , 2016 , 8, 1279-96	2.1	12
42	Investigation of Nrf2, AhR and ATF4 Activation in Toxicogenomic Databases. <i>Frontiers in Genetics</i> , 2018 , 9, 429	4.5	12
41	Improving global feature detectabilities through scan range splitting for untargeted metabolomics by high-performance liquid chromatography-Orbitrap mass spectrometry. <i>Analytica Chimica Acta</i> , 2016 , 930, 13-22	6.6	11
40	Assessment of a new cell culture perfusion apparatus for in vitro chronic toxicity testing. Part 1: technical description. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2004 , 21, 51-60	4.3	11
39	Tacrolimus increases Nox4 expression in human renal fibroblasts and induces fibrosis-related genes by aberrant TGF-beta receptor signalling. <i>PLoS ONE</i> , 2014 , 9, e96377	3.7	10
38	Towards optimisation of induced pluripotent cell culture: Extracellular acidification results in growth arrest of iPSC prior to nutrient exhaustion. <i>Toxicology in Vitro</i> , 2017 , 45, 445-454	3.6	9
37	Effect of exogenous surfactants on viability and DNA synthesis in A549, immortalized mouse type II and isolated rat alveolar type II cells. <i>BMC Pulmonary Medicine</i> , 2011 , 11, 11	3.5	9
36	Application of a population balance model to a perfusion in vitro toxicity system. <i>Toxicology in Vitro</i> , 2006 , 20, 1213-24	3.6	9
35	Neurotoxicity and underlying cellular changes of 21 mitochondrial respiratory chain inhibitors. <i>Archives of Toxicology</i> , 2021 , 95, 591-615	5.8	9
34	Nephron Toxicity Profiling via Untargeted Metabolome Analysis Employing a High Performance Liquid Chromatography-Mass Spectrometry-based Experimental and Computational Pipeline. <i>Journal of Biological Chemistry</i> , 2015 , 290, 19121-32	5.4	8
33	Analysis of glutathione in supernatants and lysates of a human proximal tubular cell line from perfusion culture upon intoxication with cadmium chloride by HPLC and LC-ESI-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 1763-9	4.4	8
32	Ca ²⁺ induced surfactant secretion in alveolar type II cultures isolated from the H-2Kb-tsA58 transgenic mouse. <i>Cellular Physiology and Biochemistry</i> , 2005 , 15, 159-66	3.9	8

31	Case Studies in Cellular Stress: Defining Adversity/Adaptation Tipping Points. <i>Applied in Vitro Toxicology</i> , 2017 , 3, 199-210	1.3	7
30	Comprehensive summary--Predict-IV: A systems toxicology approach to improve pharmaceutical drug safety testing. <i>Toxicology in Vitro</i> , 2015 , 30, 4-6	3.6	7
29	A SAGE based approach to human glomerular endothelium: defining the transcriptome, finding a novel molecule and highlighting endothelial diversity. <i>BMC Genomics</i> , 2014 , 15, 725	4.5	7
28	Inhibition of protein translation as a mechanism of acidotic pH protection against ischaemic injury through inhibition of CREB mediated tRNA synthetase expression. <i>Experimental Cell Research</i> , 2013 , 319, 3116-27	4.2	7
27	Comparative analysis of perturbed molecular pathways identified in in vitro and in vivo toxicology studies. <i>Toxicology in Vitro</i> , 2012 , 26, 956-62	3.6	7
26	Nrf2 inducibility of aldo-keto reductases. <i>Toxicology Letters</i> , 2013 , 221, 39	4.4	6
25	Evaluation of a human iPSC-derived BBB model for repeated dose toxicity testing with cyclosporine A as model compound. <i>Toxicology in Vitro</i> , 2021 , 73, 105112	3.6	5
24	Generation and characterization of iPSC-derived renal proximal tubule-like cells with extended stability. <i>Scientific Reports</i> , 2021 , 11, 11575	4.9	5
23	Moving Beyond Prioritization Toward True In Vitro Safety Assessment. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 67-73	1.3	5
22	Ensuring the Quality of Stem Cell-Derived In Vitro Models for Toxicity Testing. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 856, 259-297	3.6	4
21	Transcriptomic alterations induced by Monuron in rat and human renal proximal tubule cells in vitro and comparison to rat renal-cortex in vivo. <i>Toxicology Research</i> , 2015 , 4, 423-431	2.6	4
20	Renal cell culture models: Contribution to the understanding of nephrotoxic mechanisms 2008 , 223-249		4
19	Persistence of Epigenomic Effects After Recovery From Repeated Treatment With Two Nephrocarcinogens. <i>Frontiers in Genetics</i> , 2018 , 9, 558	4.5	4
18	Temporal transcriptomic alterations of cadmium exposed human iPSC-derived renal proximal tubule-like cells. <i>Toxicology in Vitro</i> , 2021 , 76, 105229	3.6	4
17	A Protocol for One-Step Differentiation of Human Induced Pluripotent Stem Cells into Mature Podocytes. <i>Methods in Molecular Biology</i> , 2019 , 1994, 93-99	1.4	3
16	Detection of genotoxic and non-genotoxic renal carcinogens in vitro in NRK-52E cells using a transcriptomics approach. <i>Toxicology Research</i> , 2012 , 1, 211	2.6	3
15	Predict-IV project overview (EU grant 202222): non animal-based toxicity profiling by integrating toxico dynamics and biokinetics. <i>Toxicology Letters</i> , 2013 , 221, S7	4.4	2
14	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

13	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
12	New approach methods (NAMs) supporting read-across: Two neurotoxicity AOP-based IATA case studies. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021 , 38, 615-635	4.3	2
11	Fluorescent tagging of endogenous Heme oxygenase-1 in human induced pluripotent stem cells for high content imaging of oxidative stress in various differentiated lineages. <i>Archives of Toxicology</i> , 2021 , 95, 3285-3302	5.8	2
10	A quantitative AOP of mitochondrial toxicity based on data from three cell lines.. <i>Toxicology in Vitro</i> , 2022 , 105345	3.6	2
9	Renal Cell Culture. <i>Methods in Pharmacology and Toxicology</i> , 2014 , 79-101	1.1	1
8	HiPSC-Derived Hepatocyte-like Cells Can Be Used as a Model for Transcriptomics-Based Study of Chemical Toxicity.. <i>Toxics</i> , 2021 , 10,	4.7	1
7	Stress Response Pathways. <i>Methods in Pharmacology and Toxicology</i> , 2014 , 433-458	1.1	1
6	Translational Biomarkers, In Vitro and In Vivo. <i>Methods in Pharmacology and Toxicology</i> , 2014 , 459-478	1.1	1
5	The Use of Renal Cell Culture for Nephrotoxicity Investigations. <i>Methods and Principles in Medicinal Chemistry</i> , 195-216	0.4	1
4	Renal cell culture models: Contribution to the understanding of nephrotoxic mechanisms 2003 , 115-147		1
3	An in vitro strategy using multiple human induced pluripotent stem cell-derived models to assess the toxicity of chemicals: A case study on paraquat.. <i>Toxicology in Vitro</i> , 2022 , 105333	3.6	0
2	Use of Induced Pluripotent Stem Cells in Drug Toxicity Screening. <i>Methods in Pharmacology and Toxicology</i> , 2014 , 335-350	1.1	
1	In Vitro to In Vivo Relationships with Respect to Kidney Safety Biomarkers 2016 , 458-461		