

Nicholas J Plant

List of Publications by Year in Descending Order

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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.

70
papers

1,896
citations

24
h-index

41
g-index

74
ext. papers

2,091
ext. citations

4.1
avg, IF

4.83
L-index

#	Paper	IF	Citations
70	Multi-scale, whole-system models of liver metabolic adaptation to fat and sugar in non-alcoholic fatty liver disease. <i>Npj Systems Biology and Applications</i> , 2018 , 4, 33	5	21
69	Can a systems approach produce a better understanding of mood disorders?. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3335-3344	4	
68	MUFINS: multi-formalism interaction network simulator. <i>Npj Systems Biology and Applications</i> , 2016 , 2, 16032	5	14
67	Activation of the Farnesoid X-receptor in breast cancer cell lines results in cytotoxicity but not increased migration potential. <i>Cancer Letters</i> , 2016 , 370, 250-9	9.9	23
66	Generation of 2,000 breast cancer metabolic landscapes reveals a poor prognosis group with active serotonin production. <i>Scientific Reports</i> , 2016 , 6, 19771	4.9	24
65	Molecular biology I: transcriptional regulation. <i>Surgery</i> , 2015 , 33, 95-98	0.3	
64	Molecular biology II: protein function. <i>Surgery</i> , 2015 , 33, 99-103	0.3	
63	An introduction to systems toxicology. <i>Toxicology Research</i> , 2015 , 4, 9-22	2.6	15
62	Synergistic interaction between lipid-loading and doxorubicin exposure in Huh7 hepatoma cells results in enhanced cytotoxicity and cellular oxidative stress: implications for acute and chronic care of obese cancer patients. <i>Toxicology Research</i> , 2015 , 4, 1479-1487	2.6	8
61	Inhibition of prenyltransferase activity by statins in both liver and muscle cell lines is not causative of cytotoxicity. <i>Toxicology</i> , 2015 , 329, 40-8	4.4	14
60	Primary liver cells cultured on carbon nanotube substrates for liver tissue engineering and drug discovery applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10373-80	9.5	22
59	Langaside, a novel secoiridolactone glycoside derivative from <i>Tachadenus longiflorus</i> Griseb. (Gentianaceae) formed by a [2+2] cycloaddition reaction. <i>Phytochemistry Letters</i> , 2014 , 10, cxviii-cxxii	1.9	4
58	Fatty acid binding proteins: tissue-specific functions in health and disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2014 , 17, 124-9	3.8	105
57	Systems biology approaches for studying the pathogenesis of non-alcoholic fatty liver disease. <i>World Journal of Gastroenterology</i> , 2014 , 20, 15070-8	5.6	17
56	Non-toxic melanin production inhibitors from <i>Garcinia livingstonei</i> (Clusiaceae). <i>Journal of Ethnopharmacology</i> , 2013 , 149, 570-5	5	15
55	Site-specific, covalent incorporation of Tus, a DNA-binding protein, on ionic-complementary self-assembling peptide hydrogels using transpeptidase Sortase A as a conjugation tool. Dedicated to the memory of Joachim H. G. Steinke. Electronic supplementary information (ESI) available: Further experimental data. See DOI: 10.1039/c3sm00131h Click here for additional data file. <i>Soft</i>	3.6	12
54	Seizure control by ketogenic diet-associated medium chain fatty acids. <i>Neuropharmacology</i> , 2013 , 69, 105-14	5.5	84

53	QSSPN: dynamic simulation of molecular interaction networks describing gene regulation, signalling and whole-cell metabolism in human cells. <i>Bioinformatics</i> , 2013 , 29, 3181-90	7.2	28
52	Optimization of stress response through the nuclear receptor-mediated cortisol signalling network. <i>Nature Communications</i> , 2013 , 4, 1792	17.4	20
51	Emergence of the silicon human and network targeting drugs. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 46, 190-7	5.1	30
50	Molecular biology I: transcriptional regulation. <i>Surgery</i> , 2012 , 30, 165-168	0.3	
49	Molecular biology II: protein function. <i>Surgery</i> , 2012 , 30, 169-173	0.3	
48	The naturally occurring aliphatic isothiocyanates sulforaphane and erucin are weak agonists but potent non-competitive antagonists of the aryl hydrocarbon receptor. <i>Archives of Toxicology</i> , 2012 , 86, 1505-14	5.8	8
47	Characterization of the temporal induction of hepatic xenobiotic-metabolizing enzymes by glucosinolates and isothiocyanates: requirement for at least a 6 h exposure to elicit complete induction profile. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 5556-64	5.7	7
46	Non-coplanar polychlorinated biphenyls (PCBs) are direct agonists for the human pregnane-X receptor and constitutive androstane receptor, and activate target gene expression in a tissue-specific manner. <i>Toxicology and Applied Pharmacology</i> , 2012 , 263, 7-13	4.6	73
45	Characterization of rhodamine-123 as a tracer dye for use in in vitro drug transport assays. <i>PLoS ONE</i> , 2012 , 7, e33253	3.7	109
44	Phenethyl isothiocyanate, a naturally occurring phytochemical, is an antagonist of the aryl hydrocarbon receptor. <i>Molecular Nutrition and Food Research</i> , 2012 , 56, 425-34	5.9	5
43	Acrylamide-mediated subacute testicular and genotoxicity, is it reversible?. <i>Egyptian Journal of Histology</i> , 2012 , 35, 424-436	0.8	0
42	Probabilistic orthology analysis of the ATP-binding cassette transporters: implications for the development of multiple drug resistance phenotype. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 1397-402	4.1	4
41	Conserved valproic-acid-induced lipid droplet formation in Dictyostelium and human hepatocytes identifies structurally active compounds. <i>DMM Disease Models and Mechanisms</i> , 2012 , 5, 231-40	4.1	13
40	A systems biology approach towards understanding nuclear receptor interactions: Implications at the endocrine-xenobiotic signalling interface. <i>Toxicology</i> , 2011 , 290, 131	4.4	
39	The statin class of HMG-CoA reductase inhibitors demonstrate differential activation of the nuclear receptors PXR, CAR and FXR, as well as their downstream target genes. <i>Xenobiotica</i> , 2011 , 41, 519-29	2	49
38	A PXR-mediated negative feedback loop attenuates the expression of CYP3A in response to the PXR agonist pregnenolone-16 β -carbonitrile. <i>PLoS ONE</i> , 2011 , 6, e16703	3.7	20
37	Modeling Transport Processes and Their Implications for Chemical Disposition and Action 2011 , 59-82		
36	Design principles of nuclear receptor signaling: how complex networking improves signal transduction. <i>Molecular Systems Biology</i> , 2010 , 6, 446	12.2	26

35	In silico and in vitro modeling of hepatocyte drug transport processes: importance of ABCC2 expression levels in the disposition of carboxydichlorofluorescein. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 391-9	4	13
34	Molecular biology I: transcriptional regulation. <i>Surgery</i> , 2009 , 27, 147-149	0.3	
33	Molecular biology II: protein function. <i>Surgery</i> , 2009 , 27, 150-152	0.3	
32	The neuroprotective action of the mood stabilizing drugs lithium chloride and sodium valproate is mediated through the up-regulation of the homeodomain protein Six1. <i>Toxicology and Applied Pharmacology</i> , 2009 , 235, 124-34	4.6	31
31	Nuclear receptors: the controlling force in drug metabolism of the liver?. <i>Xenobiotica</i> , 2009 , 39, 597-605	2	21
30	Differential response of human and rat epoxide hydrolase to polycyclic aromatic hydrocarbon exposure: studies using precision-cut tissue slices. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 640, 153-61	3.3	12
29	Up-regulation of CYP1A/B in rat lung and liver, and human liver precision-cut slices by a series of polycyclic aromatic hydrocarbons; association with the Ah locus and importance of molecular size. <i>Toxicology in Vitro</i> , 2008 , 22, 128-45	3.6	39
28	Drug-regulated expression of Plasmodium falciparum P-glycoprotein homologue 1: a putative role for nuclear receptors. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 1438-45	5.9	5
27	Up-regulation of the glutathione S-transferase system in human liver by polycyclic aromatic hydrocarbons; comparison with rat liver and lung. <i>Mutagenesis</i> , 2008 , 23, 299-308	2.8	33
26	Can systems toxicology identify common biomarkers of non-genotoxic carcinogenesis?. <i>Toxicology</i> , 2008 , 254, 164-9	4.4	18
25	Mixed chelate copper complex, Casiopeina IIgly, binds and degrades nucleic acids: a mechanism of cytotoxicity. <i>Chemico-Biological Interactions</i> , 2007 , 165, 189-99	5	79
24	Evaluation of the precision-cut liver and lung slice systems for the study of induction of CYP1, epoxide hydrolase and glutathione S-transferase activities. <i>Toxicology</i> , 2007 , 231, 68-80	4.4	25
23	The human cytochrome P450 sub-family: transcriptional regulation, inter-individual variation and interaction networks. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 478-88	4	70
22	Expressed sequence tags (ESTs) and single nucleotide polymorphisms (SNPs): what large-scale sequencing projects can tell us about ADME. <i>Xenobiotica</i> , 2006 , 36, 860-76	2	3
21	Transcriptional regulation of the PXR gene: identification and characterization of a functional peroxisome proliferator-activated receptor alpha binding site within the proximal promoter of PXR. <i>Drug Metabolism and Disposition</i> , 2006 , 34, 138-44	4	62
20	Transcriptional regulation of the human pregnane-X receptor. <i>Drug Metabolism Reviews</i> , 2006 , 38, 31-49	7	21
19	Transcriptomic and phylogenetic analysis of Kpna genes: a family of nuclear import factors modulated in xenobiotic-mediated liver growth. <i>Pharmacogenetics and Genomics</i> , 2006 , 16, 647-58	1.9	13
18	Impact of transcription factor profile and chromatin conformation on human hepatocyte CYP3A gene expression. <i>Drug Metabolism and Disposition</i> , 2005 , 33, 233-42	4	18

17	Role of Sp1, C/EBP alpha, HNF3, and PXR in the basal- and xenobiotic-mediated regulation of the CYP3A4 gene. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 525-35	4	44
16	Strategies for using in vitro screens in drug metabolism. <i>Drug Discovery Today</i> , 2004 , 9, 328-36	8.8	101
15	Gene expression changes in rat liver following exposure to liver growth agents: role of Kupffer cells in xenobiotic-mediated liver growth. <i>Biochemical Pharmacology</i> , 2004 , 67, 107-18	6	16
14	Interaction networks: coordinating responses to xenobiotic exposure. <i>Toxicology</i> , 2004 , 202, 21-32	4.4	16
13	EGF mediates monocyte chemotaxis and macrophage proliferation and EGF receptor is expressed in atherosclerotic plaques. <i>Atherosclerosis</i> , 2004 , 176, 21-6	3.1	55
12	Relative receptor expression is a determinant in xenobiotic-mediated CYP3A induction in rat and human cells. <i>Xenobiotica</i> , 2003 , 33, 703-16	2	16
11	Transcriptional regulation of cytochrome P4503A4 gene expression: effects of inherited mutations in the 5'flanking region. <i>Xenobiotica</i> , 2003 , 33, 1085-95	2	9
10	Lansoprazole increases testosterone metabolism and clearance in male Sprague-Dawley rats: implications for Leydig cell carcinogenesis. <i>Toxicology and Applied Pharmacology</i> , 2003 , 192, 154-63	4.6	23
9	Sodium valproate induces apoptosis in the rat hepatoma cell line, FaO. <i>Toxicology</i> , 2003 , 192, 219-27	4.4	26
8	Receptor-dependent regulation of the CYP3A4 gene. <i>Toxicology</i> , 2002 , 181-182, 199-202	4.4	9
7	Glucocorticoid-mediated induction of CYP3A4 is decreased by disruption of a protein: DNA interaction distinct from the pregnane X receptor response element. <i>Drug Metabolism and Disposition</i> , 2002 , 30, 1029-34	4	58
6	Receptor-dependent transcriptional activation of cytochrome P4503A genes: induction mechanisms, species differences and interindividual variation in man. <i>Xenobiotica</i> , 2002 , 32, 165-206	2	183
5	Control and statistical analysis of in vitro reporter gene assays. <i>Analytical Biochemistry</i> , 2000 , 278, 170-4	3.1	19
4	The coordinate regulation of DNA synthesis and suppression of apoptosis is differentially regulated by the liver growth agents, phenobarbital and methylclofenapate. <i>Carcinogenesis</i> , 1998 , 19, 1521-7	4.6	31
3	The peroxisome proliferators are hepatocyte mitogens in chemically-defined media: glucocorticoid-induced PPAR alpha is linked to peroxisome proliferator mitogenesis. <i>Carcinogenesis</i> , 1998 , 19, 925-31	4.6	22
2	Peroxisome proliferators: species differences in response of primary hepatocyte cultures. <i>Annals of the New York Academy of Sciences</i> , 1996 , 804, 628-35	6.5	34
1	Peroxisome proliferators induce high levels of DNA synthesis in primary cultures of rat hepatocytes. <i>Annals of the New York Academy of Sciences</i> , 1996 , 804, 745-6	6.5	1