Rodney F Minchin

List of Publications by Year
in descending order

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125 papers	5,962 citations	81839 39 h-index	79644 73 g-index
126 all docs	126 docs citations	126 times ranked	7959 citing authors

#	Article	IF	Citations
1	Nanoparticle-induced unfolding of fibrinogen promotes Mac-1 receptor activation and inflammation. Nature Nanotechnology, 2011, 6, 39-44.	15.6	781
2	Differential plasma protein binding to metal oxide nanoparticles. Nanotechnology, 2009, 20, 455101.	1.3	299
3	Role of intratumoural heterogeneity in cancer drug resistance: molecular and clinical perspectives. EMBO Molecular Medicine, 2012, 4, 675-684.	3.3	223
4	Exocytosis of nanoparticles from cells: Role in cellular retention and toxicity. Advances in Colloid and Interface Science, 2013, 201-202, 18-29.	7.0	212
5	Mebolism of drugs and other xenobiotics in the gut lumen and wall. , 1990, 46, 67-93.		179
6	Molecular Interaction of Poly(acrylic acid) Gold Nanoparticles with Human Fibrinogen. ACS Nano, 2012, 6, 8962-8969.	7.3	175
7	Cellular Uptake of Densely Packed Polymer Coatings on Gold Nanoparticles. ACS Nano, 2010, 4, 403-413.	7.3	171
8	Pharmacogenetics of the arylamine N-acetyltransferases. Pharmacogenomics Journal, 2002, 2, 30-42.	0.9	167
9	Metabolic activation pathway for the formation of DNA adducts of the carcinogen 2-amino-l-methyl-6-phenylUmidazo[4,5-b]pyridine (PhIP) in rat extrahepatic tissues. Carcinogenesis, 1994, 15, 1703-1709.	1.3	140
10	Two Structures of Cyclophilin 40. Structure, 2001, 9, 431-438.	1.6	137
11	Cryptic Epitopes of Albumin Determine Mononuclear Phagocyte System Clearance of Nanomaterials. ACS Nano, 2014, 8, 3357-3366.	7.3	127
12	Immunophilin Chaperones in Steroid Receptor Signalling. Current Topics in Medicinal Chemistry, 2003, 3, 1348-1357.	1.0	126
13	Plasma protein binding of positively and negatively charged polymer-coated gold nanoparticles elicits different biological responses. Nanotoxicology, 2013, 7, 314-322.	1.6	122
14	Minireview: Nanoparticles for Molecular Imagingâ€"An Overview. Endocrinology, 2010, 151, 474-481.	1.4	119
15	The Common Tetratricopeptide Repeat Acceptor Site for Steroid Receptor-associated Immunophilins and Hop Is Located in the Dimerization Domain of Hsp90. Journal of Biological Chemistry, 1999, 274, 2682-2689.	1.6	105
16	Unravelling the stealth effect. Nature Nanotechnology, 2016, 11, 310-311.	15.6	94
17	Substrate-Dependent Regulation of Human ArylamineN-Acetyltransferase-1 in Cultured Cells. Molecular Pharmacology, 2000, 57, 468-473.	1.0	91
18	Cellular uptake of self-assembled cationic peptideâ€"DNA complexes: Multifunctional role of the enhancer chloroquine. Journal of Controlled Release, 2009, 135, 159-165.	4.8	81

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19	Sizing up targets with nanoparticles. Nature Nanotechnology, 2008, 3, 12-13.	15.6	80
20	ArylamineN-Acetyltransferase 1: A Novel Drug Target in Cancer Development. Pharmacological Reviews, 2012, 64, 147-165.	7.1	80
21	Functional polymorphism of the human arylamine JV-acetyltransferase type 1 gene caused by C190T and G560A mutations. Pharmacogenetics and Genomics, 1998, 8, 67-72.	5.7	79
22	Proteasomal Degradation of N-Acetyltransferase 1 Is Prevented by Acetylation of the Active Site Cysteine. Journal of Biological Chemistry, 2004, 279, 22131-22137.	1.6	75
23	Automatic classification of Human Epithelial type 2 cell Indirect Immunofluorescence images using Cell Pyramid Matching. Pattern Recognition, 2014, 47, 2315-2324.	5.1	75
24	Estradiol-Regulated Expression of the Immunophilins Cyclophilin 40 and FKBP52 in MCF-7 Breast Cancer Cells. Biochemical and Biophysical Research Communications, 2001, 284, 219-225.	1.0	70
25	Small molecule inhibition of arylamine N-acetyltransferase Type I inhibits proliferation and invasiveness of MDA-MB-231 breast cancer cells. Biochemical and Biophysical Research Communications, 2010, 393, 95-100.	1.0	69
26	Arylamine N-acetyltransferase I. International Journal of Biochemistry and Cell Biology, 2007, 39, 1999-2005.	1.2	64
27	Changes in consensus arylamine N-acetyltransferase gene nomenclature. Pharmacogenetics and Genomics, 2008, 18, 367-368.	0.7	63
28	Expression of the estrogen receptor-associated immunophilins, cyclophilin 40 and FKBP52, in breast cancer. Breast Cancer Research and Treatment, 1999, 58, 265-278.	1.1	60
29	RNAi-Mediated Knock-Down of Arylamine N-acetyltransferase-1 Expression Induces E-cadherin Up-Regulation and Cell-Cell Contact Growth Inhibition. PLoS ONE, 2011, 6, e17031.	1.1	59
30	Allele and genotype frequencies of polymorphic cytochromes P4502D6, 2C19 and 2E1 in Aborigines from Western Australia. Pharmacogenetics and Genomics, 2001, 11, 69-76.	5.7	58
31	Protein corona formation in bronchoalveolar fluid enhances diesel exhaust nanoparticle uptake and pro-inflammatory responses in macrophages. Nanotoxicology, 2016, 10, 981-991.	1.6	55
32	Induction of Human Arylamine N-Acetyltransferase Type I by Androgens in Human Prostate Cancer Cells. Cancer Research, 2007, 67, 85-92.	0.4	54
33	Expression of monomorphic and polymorphic N-acetyltransferases in human colon. Biochemical Pharmacology, 1994, 47, 914-917.	2.0	53
34	Fluorescent layered double hydroxide nanoparticles for biological studies. Applied Clay Science, 2010, 48, 271-279.	2.6	53
35	Hypoxia-mediated drug resistance in breast cancers. Cancer Letters, 2021, 502, 189-199.	3.2	52
36	Genomic organization of human arylamine N-acetyltransferase Type I reveals alternative promoters that generate different 5â€²-UTR splice variants with altered translational activities. Biochemical Journal, 2005, 387, 119-127.	1.7	50

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37	Cross-Linking Studies and Membrane Localization and Assembly of Radiolabelled Large Mechanosensitive Ion Channel (MscL) ofEscherichia coli. Biochemical and Biophysical Research Communications, 1997, 232, 777-782.	1.0	46
38	Interaction of the Hsp90 cochaperone cyclophilin 40 with Hsc70. Cell Stress and Chaperones, 2004, 9, 167.	1.2	46
39	Isolated lung perfusion with adriamycin. A preclinical study. Cancer, 1983, 52, 404-409.	2.0	45
40	Effects of human arylamine Nâ€acetyltransferase I knockdown in tripleâ€negative breast cancer cell lines. Cancer Medicine, 2015, 4, 565-574.	1.3	40
41	Human cyclophilin 40 is a heat shock protein that exhibits altered intracellular localization following heat shock. Cell Stress and Chaperones, 2001, 6, 59.	1.2	37
42	Metabolic processing of 2-acetylaminofluorene by microsomes and six highly purified cytochrome P-450 forms from rabbit liver. Carcinogenesis, 1984, 5, 1717-1723.	1.3	36
43	Polymorphic metabolism of the carcinogen 2-acetylaminofluorene in human liver microsomes. Carcinogenesis, 1985, 6, 1721-1724.	1.3	35
44	Pulmonary toxicity of doxorubicin administered byin situ isolated lung perfusion in dogs. Cancer, 1988, 61, 1320-1325.	2.0	35
45	Layered double hydroxide nanoparticles incorporating terbium: applicability as a fluorescent probe and morphology modifier. Journal of Nanoparticle Research, 2010, 12, 111-120.	0.8	35
46	Regulation of Arylamine N-Acetyltransferases. Current Drug Metabolism, 2008, 9, 498-504.	0.7	34
47	Inactivation of human arylamine N-Acetyltransferase 1 by the hydroxylamine of p-Aminobenzoic acid. Biochemical Pharmacology, 2000, 60, 1829-1836.	2.0	32
48	Polyamine-dependent Regulation of Spermidine-Spermine N1-Acetyltransferase mRNA Translation. Journal of Biological Chemistry, 2007, 282, 28530-28539.	1.6	32
49	Evidence for the existence of distinct transporters for the polyamines putrescine and spermidine in B16 melanoma cells. FEBS Journal, 1991, 200, 457-462.	0.2	31
50	METABOLIC ACTIVATION AS A BASIS FOR ORGAN-SELECTIVE TOXICITY. Clinical and Experimental Pharmacology and Physiology, 1983, 10, 87-99.	0.9	29
51	Identification of a minimal promoter sequence for the human N-acetyltransferase Type I gene that binds AP-1 (activator protein 1) and YY-1 (Yin and Yang 1). Biochemical Journal, 2003, 376, 441-448.	1.7	29
52	Cytosolic Sulfotransferase 1A3 Is Induced by Dopamine and Protects Neuronal Cells from Dopamine Toxicity. Journal of Biological Chemistry, 2013, 288, 34364-34374.	1.6	28
53	Direct Oacetylation of N-hydroxy arylamines by acetylsalicylic acid to form carcinogen-DNA adducts. Carcinogenesis, 1992, 13, 663-667.	1.3	27
54	Binding and internalization of the melanocyte stimulating hormone receptor ligand [Nle4, d-Phe7]Î±-MSH in B16 melanoma cells. International Journal of Biochemistry and Cell Biology, 1996, 28, 1223-1232.	1.2	27

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55	Reductive metabolism of nitrofurantoin by rat lung and liver in vitro. Biochemical Pharmacology, 1986, 35, 575-580.	2.0	26
56	Synthesis and Characterization of Dual Radiolabeled Layered Double Hydroxide Nanoparticles for Use in In Vitro and In Vivo Nanotoxicology Studies. Journal of Physical Chemistry C, 2010, 114, 734-740.	1.5	26
57	The synthesis and characterisation of a novel dendritic system for gene delivery. Tetrahedron, 2007, 63, 12207-12214.	1.0	25
58	Arylamine N-acetyltransferase 1 protects against reactive oxygen species during glucose starvation: Role in the regulation of p53 stability. PLoS ONE, 2018, 13, e0193560.	1.1	25
59	Trimodal distribution of arylamine N-acetyltransferase 1 mRNA in breast cancer tumors: association with overall survival and drug resistance. BMC Genomics, 2018, 19, 513.	1.2	24
60	Chlorphentermine binding in rat lung subcellular fractions and its displacement by desmethylimipramine. Biochemical Pharmacology, 1979, 28, 2273-2278.	2.0	22
61	Sulfotransferase 4A1. International Journal of Biochemistry and Cell Biology, 2008, 40, 2686-2691.	1.2	22
62	Endosomal disruptors in non-viral gene delivery. Expert Opinion on Drug Delivery, 2010, 7, 331-339.	2.4	22
63	Antiarrhythmic potency of procainamide and N-acetylprocainamide in rabbits. European Journal of Pharmacology, 1978, 47, 51-56.	1.7	21
64	Acetylation phenotype and genotype in Aboriginal leprosy patients from the north-west region of Western Australia. Pharmacogenetics and Genomics, 1993, 3, 264-269.	5.7	21
65	Uptake and metabolism of doxorubicin in isolated perfused rat lung. Biochemical Pharmacology, 1983, 32, 2829-2832.	2.0	20
66	Pulmonary alveolar macrophages express a polyamine transport system. Journal of Cellular Physiology, 1989, 139, 624-631.	2.0	20
67	Allelic loss of cyclophilin 40, an estrogen receptor-associated immunophilin, in breast carcinomas. Journal of Cancer Research and Clinical Oncology, 2001, 127, 109-115.	1.2	19
68	Arylamine N-acetyltransferase 1 gene regulation by androgens requires a conserved heat shock element for heat shock factor-1. Carcinogenesis, 2010, 31, 820-826.	1.3	19
69	Release of bioactive peptides from polyurethane films in vitro and in vivo: Effect of polymer composition. Acta Biomaterialia, 2016, 41, 264-272.	4.1	19
70	Sulfotransferase 1A3/4 copy number variation is associated with neurodegenerative disease. Pharmacogenomics Journal, 2018, 18, 209-214.	0.9	19
71	Loss of human arylamine N-acetyltransferase I regulates mitochondrial function by inhibition of the pyruvate dehydrogenase complex. International Journal of Biochemistry and Cell Biology, 2019, 110, 84-90.	1.2	19
72	Histone Deacetylase Inhibitors Increase Human Arylamine N-Acetyltransferase-1 Expression in Human Tumor Cells. Drug Metabolism and Disposition, 2011, 39, 77-82.	1.7	18

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73	Characterisation of putrescine uptake by cultured adult mouse hepatocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 1990, 1051, 52-59.	1.9	17
74	Cytosolic Aryl Sulfotransferase 4A1 Interacts with the Peptidyl Prolyl Cis-Trans Isomerase Pin1. Molecular Pharmacology, 2009, 76, 388-395.	1.0	17
75	Regulation of the Hsp90-binding immunophilin, cyclophilin 40, is mediated by multiple sites for GA-binding protein (GABP). Cell Stress and Chaperones, 2001, 6, 78.	1.2	17
76	The characterization of a novel dendritic system for gene delivery by isothermal titration calorimetry. Biopolymers, 2008, 90, 651-654.	1.2	16
77	5-Methyl-Tetrahydrofolate and the S-Adenosylmethionine Cycle in C57BL/6J Mouse Tissues: Gender Differences and Effects of Arylamine N-Acetyltransferase-1 Deletion. PLoS ONE, 2013, 8, e77923.	1.1	16
78	Expression of the Orphan Cytosolic Sulfotransferase SULT4A1 and Its Major Splice Variant in Human Tissues and Cells: Dimerization, Degradation and Polyubiquitination. PLoS ONE, 2014, 9, e101520.	1.1	16
79	Interaction of Human Arylamine N-Acetyltransferase 1 with Different Nanomaterials. Drug Metabolism and Disposition, 2014, 42, 377-383.	1.7	16
80	Role for human arylamine N-acetyltransferase 1 in the methionine salvage pathway. Biochemical Pharmacology, 2017, 125, 93-100.	2.0	16
81	Lack of exonic sulfotransferase 4A1 mutations in controls and schizophrenia cases. Psychiatric Genetics, 2009, 19, 53-55.	0.6	15
82	Drug formulation and nanomedicine approaches to targeting lymphatic cancer metastases. Nanomedicine, 2019, 14, 1605-1621.	1.7	15
83	Rapid and Simple Technique for the Quantitation of Polyamines in Biological Samples. Journal of Liquid Chromatography and Related Technologies, 1984, 7, 2605-2610.	0.9	14
84	Uptake, efflux and metabolism of the polyamine putrescine in rabbit lung slices. Biochimica Et Biophysica Acta - Molecular Cell Research, 1987, 927, 170-176.	1.9	14
85	Cyclosporin A Potentiates Estradiol-Induced Expression of the Cathepsin D Gene in MCF7 Breast Cancer Cells. Biochemical and Biophysical Research Communications, 1996, 220, 208-212.	1.0	14
86	The role of lysine100 in the binding of acetylcoenzyme A to human arylamine N-acetyltransferase 1: Implications for other acetyltransferases. Biochemical Pharmacology, 2015, 94, 195-202.	2.0	14
87	Evidence for the reversible binding of paraquat to deoxyribonucleic acid. Chemico-Biological Interactions, 1987, 61, 139-149.	1.7	13
88	ArylamineN-Acetyltransferase 1 Regulates Expression of Matrix Metalloproteinase 9 in Breast Cancer Cells: Role of Hypoxia-Inducible Factor 1-Î±. Molecular Pharmacology, 2019, 96, 573-579.	1.0	13
89	Nanoparticles-induced inflammatory cytokines in human plasma concentration manner: an ignored factor at the nanobio-interface. Journal of the Iranian Chemical Society, 2015, 12, 317-323.	1.2	12
90	Effect arylamine N-acetyltransferase 1 on morphology, adhesion, migration, and invasion of MDA-MB-231 cells: role of matrix metalloproteinases and integrin Î±V. Cell Adhesion and Migration, 2020, 14, 1-11.	1.1	12

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91	Paraquat is not accumulated in B16 tumor cells by the polyamine transport system. Life Sciences, 1989, 45, 63-69.	2.0	11
92	Cell cycleâ€“dependent uptake of putrescine and its importance in regulating cell cycle phase transition in cultured adult mouse hepatocytes. Hepatology, 1991, 14, 1243-1250.	3.6	11
93	Induction by phenobarbital in McA-RH7777 rat hepatoma cells of a polycyclic hydrocarbon inducible cytochrome P450. Biochemical and Biophysical Research Communications, 1986, 137, 120-127.	1.0	10
94	Phosphorylation/dephosphorylation of human SULT4A1: Role of Erk1 and PP2A. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 231-237.	1.9	10
95	Metabolism of 1, 8-dinitropyrene by rabbit lung. Carcinogenesis, 1988, 9, 1869-1874.	1.3	9
96	Comparative uptake of quinine and quinidine in rat lung. Journal of Pharmacy and Pharmacology, 2011, 33, 464-466.	1.2	9
97	Effect of Supercritical Carbon Dioxide on the Loading and Release of Model Drugs from Polyurethane Films: Comparison with Solvent Casting. Macromolecular Chemistry and Physics, 2014, 215, 54-64.	1.1	9
98	Interaction of the Brain-Selective Sulfotransferase SULT4A1 with Other Cytosolic Sulfotransferases: Effects on Protein Expression and Function. Drug Metabolism and Disposition, 2020, 48, 337-344.	1.7	9
99	A chameleonic macrocyclic peptide with drug delivery applications. Chemical Science, 2021, 12, 6670-6683.	3.7	9
100	Regulation of Mouse Brain-Selective Sulfotransferase Sult4a1 by cAMP Response Element-Binding Protein and Activating Transcription Factor-2. Molecular Pharmacology, 2010, 78, 503-510.	1.0	8
101	Concentration-dependent effects ofN1,N11-diethylnorspermine on melanoma cell proliferation. International Journal of Cancer, 2006, 118, 509-512.	2.3	7
102	Effect of lipidated gonadotropin-releasing hormone peptides on receptor mediated binding and uptake into prostate cancer cells in vitro. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1799-1808.	1.7	7
103	A bag of cells approach for antinuclear antibodies HEpâ€2 image classification. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 549-557.	1.1	7
104	Cryptic epitopes and functional diversity in extracellular proteins. International Journal of Biochemistry and Cell Biology, 2016, 81, 112-120.	1.2	7
105	Fluoromica nanoparticle cytotoxicity in macrophages decreases with size and extent of uptake. International Journal of Nanomedicine, 2015, 10, 2363.	3.3	6
106	Stable non-covalent labeling of layered silicate nanoparticles for biological imaging. Materials Science and Engineering C, 2016, 61, 674-680.	3.8	6
107	Allosteric regulation of arylamine N-acetyltransferase 1 by adenosine triphosphate. Biochemical Pharmacology, 2018, 158, 153-160.	2.0	6
108	The MBNL/CELF Splicing Factors Regulate Cytosolic Sulfotransferase 4A1 Protein Expression during Cell Differentiation. Drug Metabolism and Disposition, 2019, 47, 314-319.	1.7	6

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109	Measurement of organ blood flow in the rabbit. Journal of Pharmacological Methods, 1988, 20, 187-196.	0.7	4
110	Purification, characterization and crystallization in two crystal forms of bovine cyclophilin 40. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1079-1082.	2.5	4
111	Cetuximab Exhibits Sex Differences in Lymphatic Exposure after Intravenous Administration in Rats in the Absence of Differences in Plasma Exposure. Pharmaceutical Research, 2020, 37, 224.	1.7	4
112	The pharmacokinetics of PEGylated liposomal doxorubicin are not significantly affected by sex in rats or humans, but may be affected by immune dysfunction. Journal of Controlled Release, 2021, 337, 71-80.	4.8	4
113	A compartmental model for the uptake of chlorphentermine in isolated perfused rat lung. European Journal of Drug Metabolism and Pharmacokinetics, 1981, 6, 127-133.	0.6	3
114	Inhibition of rat lung S-adenosylmethionine decarboxylase by N,N-dimethyl-4,4â€²- dipyridyl dichloride (paraquat). Biochemical Pharmacology, 1987, 36, 179-181.	2.0	3
115	An Automatic Image Based Single Dilution Method for End Point Titre Quantitation of Antinuclear Antibodies Tests Using HEp-2 Cells. , 2011, , .		3
116	Modulation of Human Arylamine N-Acetyltransferase 1 Activity by Lysine Acetylation: Role of p300/CREB-Binding Protein and Sirtuins 1 and 2. Molecular Pharmacology, 2020, 98, 88-95.	1.0	3
117	Polymorphism in the human arylamine N-acetyltransferase 1 gene 3â€²-untranslated region determines polyadenylation signal usage. Biochemical Pharmacology, 2022, 200, 115020.	2.0	3
118	HIV LTR-dependent expression of Bax selectively induces apoptosis in Tat-positive cells. Biochemical and Biophysical Research Communications, 2004, 325, 1459-1464.	1.0	2
119	Mutational analysis of the large periplasmic loop 7â€“8 of the putrescine transporter PotE in Escherichia coli. International Journal of Biochemistry and Cell Biology, 2004, 36, 271-280.	1.2	2
120	Inhibition of chlorphentermine binding in rat lung: Application of connectivity theory. Life Sciences, 1980, 27, 1041-1046.	2.0	1
121	Extracellular calcium stimulates Na+-dependent putrescine uptake in B16 melanoma cells. International Journal of Biochemistry and Cell Biology, 1997, 29, 447-454.	1.2	1
122	Genetic polymorphisms in glutathione S-transferase M1 and T1 in an Australian Aborigine population. Pharmacogenetics and Genomics, 2000, 10, 477-480.	5.7	1
123	Human Arylamine N-Acetyltransferase Type 1. , 2018, , 91-107.		1
124	Characterization of an ATP-dependent pathway of activation for the heterocyclic amine carcinogen N-hydroxy-2-amino-3-methylimidazo[4,5-f]quinoline. Carcinogenesis, 2000, 21, 1213-1219.	1.3	0
125	ArylamineNâ€Acetyltransferase Gene Polymorphism. , 2004, , 79-83.		0