

Michael D Wyatt

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.

74
papers

5,827
citations

29
h-index

76
g-index

78
ext. papers

6,293
ext. citations

6.6
avg, IF

5.45
L-index

#	Paper	IF	Citations
74	Gold nanoparticles are taken up by human cells but do not cause acute cytotoxicity. <i>Small</i> , 2005 , 1, 325-711	11	1948
73	Cellular uptake and cytotoxicity of gold nanorods: molecular origin of cytotoxicity and surface effects. <i>Small</i> , 2009 , 5, 701-8	11	842
72	GC base sequence recognition by oligo(imidazolecarboxamide) and C-terminus-modified analogues of distamycin deduced from circular dichroism, proton nuclear magnetic resonance, and methidiumpropylethylenediaminetetraacetate-iron(II) footprinting studies. <i>Biochemistry</i> , 1993 , 32, 4237-45	3.2	363
71	Methylating agents and DNA repair responses: Methylated bases and sources of strand breaks. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1580-94	4	309
70	Base excision repair deficient mice lacking the Aag alkyladenine DNA glycosylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 13087-92	11.5	191
69	Molecular basis for discriminating between normal and damaged bases by the human alkyladenine glycosylase, AAG. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 13573-8	11.5	187
68	Participation of DNA repair in the response to 5-fluorouracil. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 788-99	10.3	160
67	3-methyladenine DNA glycosylases: structure, function, and biological importance. <i>BioEssays</i> , 1999 , 21, 668-76	4.1	143
66	Quinacrine has anticancer activity in breast cancer cells through inhibition of topoisomerase activity. <i>International Journal of Cancer</i> , 2012 , 130, 1660-70	7.5	101
65	Silver-based nanoparticles induce apoptosis in human colon cancer cells mediated through p53. <i>Nanomedicine</i> , 2013 , 8, 1307-22	5.6	101
64	Regulatory and clinical considerations for biosimilar oncology drugs. <i>Lancet Oncology</i> , 2014 , 15, e594-e605	21.7	86
63	PLK1 as an oncology target: current status and future potential. <i>Drug Discovery Today</i> , 2011 , 16, 619-25	8.8	86
62	DNA sequence-specific adenine alkylation by the novel antitumor drug tallimustine (FCE 24517), a benzoyl nitrogen mustard derivative of distamycin. <i>Nucleic Acids Research</i> , 1995 , 23, 81-7	20.1	85
61	Cation exchange on the surface of gold nanorods with a polymerizable surfactant: polymerization, stability, and toxicity evaluation. <i>Langmuir</i> , 2010 , 26, 9328-33	4	83
60	Quinacrine-mediated autophagy and apoptosis in colon cancer cells is through a p53- and p21-dependent mechanism. <i>Oncology Research</i> , 2012 , 20, 81-91	4.8	77
59	Lycopene synergistically enhances quinacrine action to inhibit Wnt-TCF signaling in breast cancer cells through APC. <i>Carcinogenesis</i> , 2013 , 34, 277-86	4.6	56
58	Uracil in DNA: consequences for carcinogenesis and chemotherapy. <i>Biochemical Pharmacology</i> , 2008 , 76, 697-706	6	54

57	Oxanine DNA glycosylase activity from Mammalian alkyladenine glycosylase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 38177-83	5.4	48
56	In vitro cytotoxicity of GC sequence directed alkylating agents related to distamycin. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 863-70	8.3	45
55	Nectin-4 is a breast cancer stem cell marker that induces WNT/ β catenin signaling via Pi3k/Akt axis. <i>International Journal of Biochemistry and Cell Biology</i> , 2017 , 89, 85-94	5.6	39
54	Developmental abnormalities in multiple proliferative tissues of Apc(Min/+) mice. <i>International Journal of Experimental Pathology</i> , 2006 , 87, 227-36	2.8	38
53	Sequence specificity of alkylation for a series of nitrogen mustard-containing analogues of distamycin of increasing binding site size: evidence for increased cytotoxicity with enhanced sequence specificity. <i>Biochemistry</i> , 1995 , 34, 13034-41	3.2	37
52	DNA damage in barn swallows (<i>Hirundo rustica</i>) from the Chernobyl region detected by use of the comet assay. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010 , 151, 271-7	3.2	36
51	Mammalian 3-methyladenine DNA glycosylase protects against the toxicity and clastogenicity of certain chemotherapeutic DNA cross-linking agents. <i>Cancer Research</i> , 1998 , 58, 3965-73	10.1	35
50	Current assessment of polo-like kinases as anti-tumor drug targets. <i>Expert Opinion on Drug Discovery</i> , 2014 , 9, 773-89	6.2	32
49	Differential effects of reactive nitrogen species on DNA base excision repair initiated by the alkyladenine DNA glycosylase. <i>Carcinogenesis</i> , 2009 , 30, 2123-9	4.6	32
48	Uracil incorporation into genomic DNA does not predict toxicity caused by chemotherapeutic inhibition of thymidylate synthase. <i>DNA Repair</i> , 2008 , 7, 162-9	4.3	32
47	Effect of protein binding on ultrafast DNA dynamics: characterization of a DNA:APE1 complex. <i>Biophysical Journal</i> , 2005 , 89, 4129-38	2.9	31
46	Microglia morphology and proinflammatory signaling in the nucleus accumbens during nicotine withdrawal. <i>Science Advances</i> , 2019 , 5, eaax7031	14.3	30
45	The contribution of heavy metals in cigarette smoke condensate to malignant transformation of breast epithelial cells and in vivo initiation of neoplasia through induction of a PI3K-AKT-NFB cascade. <i>Toxicology and Applied Pharmacology</i> , 2014 , 274, 168-79	4.6	29
44	Involvement of DT-diaphorase (EC 1.6.99.2) in the DNA cross-linking and sequence selectivity of the bioreductive anti-tumour agent EO9. <i>British Journal of Cancer</i> , 1997 , 76, 1596-603	8.7	29
43	One-pot synthesis of silica-coated magnetic plasmonic tracer nanoparticles. <i>Chemical Communications</i> , 2008 , 6140-2	5.8	29
42	5-Fluorouracil mediated anti-cancer activity in colon cancer cells is through the induction of Adenomatous Polyposis Coli: Implication of the long-patch base excision repair pathway. <i>DNA Repair</i> , 2014 , 24, 15-25	4.3	28
41	Active-site clashes prevent the human 3-methyladenine DNA glycosylase from improperly removing bases. <i>Chemistry and Biology</i> , 2002 , 9, 1033-41		25
40	Determination of apoptosis, uracil incorporation, DNA strand breaks, and sister chromatid exchanges under conditions of thymidylate deprivation in a model of BER deficiency. <i>Biochemical Pharmacology</i> , 2005 , 70, 1458-68	6	25

39	Influence of DNA structure on hypoxanthine and 1,N(6)-ethenoadenine removal by murine 3-methyladenine DNA glycosylase. <i>Carcinogenesis</i> , 2000 , 21, 901-8	4.6	25
38	Identification of novel cancer therapeutic targets using a designed and pooled shRNA library screen. <i>Scientific Reports</i> , 2017 , 7, 43023	4.9	22
37	The soluble nectin-4 ecto-domain promotes breast cancer induced angiogenesis via endothelial Integrin- α . <i>International Journal of Biochemistry and Cell Biology</i> , 2018 , 102, 151-160	5.6	21
36	Expression and regulation of RAD51 mediate cellular responses to chemotherapeutics. <i>Biochemical Pharmacology</i> , 2012 , 83, 741-6	6	21
35	Chk1 inhibitor synergizes quinacrine mediated apoptosis in breast cancer cells by compromising the base excision repair cascade. <i>Biochemical Pharmacology</i> , 2016 , 105, 23-33	6	17
34	Targeting subcellular localization through the polo-box domain: non-ATP competitive inhibitors recapitulate a PLK1 phenotype. <i>Molecular Cancer Therapeutics</i> , 2012 , 11, 1683-92	6.1	17
33	DNA damage and homologous recombination signaling induced by thymidylate deprivation. <i>Biochemical Pharmacology</i> , 2008 , 76, 987-96	6	15
32	Induction of intrachromosomal homologous recombination in human cells by raltitrexed, an inhibitor of thymidylate synthase. <i>DNA Repair</i> , 2008 , 7, 1624-35	4.3	15
31	Involvement of base excision repair in response to therapy targeted at thymidylate synthase. <i>Molecular Cancer Therapeutics</i> , 2004 , 3, 747-53	6.1	15
30	RAD51D protects against MLH1-dependent cytotoxic responses to O(6)-methylguanine. <i>DNA Repair</i> , 2010 , 9, 458-67	4.3	14
29	Effects of substrate specificity on initiating the base excision repair of N-methylpurines by variant human 3-methyladenine DNA glycosylases. <i>Chemical Research in Toxicology</i> , 2005 , 18, 87-94	4	14
28	Clinical significance of a pvr1 4 encoded gene Nectin-4 in metastasis and angiogenesis for tumor relapse. <i>Journal of Cancer Research and Clinical Oncology</i> , 2020 , 146, 245-259	4.9	14
27	SMUG1 but not UNG DNA glycosylase contributes to the cellular response to recovery from 5-fluorouracil induced replication stress. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2013 , 743-744, 26-32	3.3	13
26	Design, synthesis, and biological evaluation of DNA sequence and minor groove selective alkylating agents. <i>Anti-cancer Drug Design</i> , 1993 , 8, 173-92		11
25	Advances in understanding the coupling of DNA base modifying enzymes to processes involving base excision repair. <i>Advances in Cancer Research</i> , 2013 , 119, 63-106	5.9	10
24	Probing the importance of the second chloroethyl arm of a benzoic acid mustard derivative of an imidazole-containing analogue of distamycin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994 , 4, 2421-2424	2.9	10
23	Synthesis and DNA binding properties of a series of N to C linked and imidazole containing analogues of distamycin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994 , 4, 801-806	2.9	10
22	Iterative conversion of cyclin binding groove peptides into druglike CDK inhibitors with antitumor activity. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 433-42	8.3	8

21	Novel cytotoxic DNA sequence and minor groove targeted photosensitizers: conjugates of pyrene and netropsin analogues. <i>Bioorganic and Medicinal Chemistry</i> , 1995 , 3, 623-9	3.4	7
20	GC sequence specific recognition by an N-formamido, C-terminus-modified and imidazole-containing analogue of netropsin. <i>Journal of Medicinal Chemistry</i> , 1994 , 37, 4073-5	8.3	7
19	Inhibition of the Dead Box RNA Helicase 3 Prevents HIV-1 Tat and Cocaine-Induced Neurotoxicity by Targeting Microglia Activation. <i>Journal of NeuroImmune Pharmacology</i> , 2020 , 15, 209-223	6.9	7
18	Pharmacological inhibition of DEAD-Box RNA Helicase 3 attenuates stress granule assembly. <i>Biochemical Pharmacology</i> , 2020 , 182, 114280	6	7
17	The homologous recombination protein RAD51D mediates the processing of 6-thioguanine lesions downstream of mismatch repair. <i>Molecular Cancer Research</i> , 2011 , 9, 206-14	6.6	6
16	Microbes as Drugs: The Potential of Pharmabiotics. <i>Pharmacotherapy</i> , 2020 , 40, 102-106	5.8	6
15	Improving oncology biosimilar launches in the EU, the USA, and Japan: an updated Policy Review from the Southern Network on Adverse Reactions. <i>Lancet Oncology, The</i> , 2020 , 21, e575-e588	21.7	6
14	Determination of the DNA sequence specificity of alkylation damage using cleavage-based assays. <i>Methods in Molecular Biology</i> , 1997 , 90, 147-56	1.4	5
13	Structure-activity relationship of a series of nitrogen mustard- and pyrrole-containing minor groove-binding agents related to distamycin. <i>Anti-cancer Drug Design</i> , 1994 , 9, 511-25		5
12	Panaxynol, a bioactive component of American ginseng, targets macrophages and suppresses colitis in mice. <i>Oncotarget</i> , 2020 , 11, 2026-2036	3.3	5
11	The sequence specificity of alkylation for a series of benzoic acid mustard and imidazole-containing distamycin analogues: the importance of local sequence conformation. <i>Nucleic Acids Research</i> , 1997 , 25, 2359-64	20.1	4
10	Peptidomimetic Polo-Box-Targeted Inhibitors that Engage PLK1 in Tumor Cells and Are Selective against the PLK3 Tumor Suppressor. <i>ChemMedChem</i> , 2020 , 15, 1058-1066	3.7	4
9	3-methyladenine DNA glycosylases: structure, function, and biological importance 1999 , 21, 668		3
8	Design, synthesis and biological evaluation of benzoic acid mustard derivatives of imidazole-containing and C-terminal carboxamide analogues of distamycin. <i>Drug Design and Discovery</i> , 1995 , 12, 323-35		2
7	Alkylation specificity for a series of distamycin analogues that tether chlorambucil. <i>Anti-cancer Drug Design</i> , 1997 , 12, 49-60		2
6	Human Papillomavirus Type 16 L2 DNA Methylation in Exfoliated Cervical Cells From College-Age Women. <i>Journal of Lower Genital Tract Disease</i> , 2016 , 20, 332-7	3.6	1
5	Whole organism based techniques and approaches in early stage oncology drug discovery-patents and trends. <i>Recent Patents on Endocrine, Metabolic & Immune Drug Discovery</i> , 2011 , 5, 183-91		1
4	Nonpeptidic, Polo-Box Domain-Targeted Inhibitors of PLK1 Block Kinase Activity, Induce Its Degradation and Target-Resistant Cells. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 9916-9925	8.3	1

3	Structure-activity and mechanistic studies of non-peptidic inhibitors of the PLK1 polo box domain identified through REPLACE. <i>European Journal of Medicinal Chemistry</i> , 2022 , 227, 113926	6.8	o
2	Thiopurine-induced mitotic catastrophe in Rad51d-deficient mammalian cells. <i>Environmental and Molecular Mutagenesis</i> , 2018 , 59, 38-48	3.2	
1	Potential unintended consequences of getting rigorous with scientific rigor. <i>Carcinogenesis</i> , 2018 , 39, 26-27	4.6	