Michael D Wyatt

List of Publications by Year in Descending Order

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	Structure-activity and mechanistic studies of non-peptidic inhibitors of the PLK1 polo box domain identified through REPLACE. *European Journal of Medicinal Chemistry*, **2022**, 227, 113926	6.8	0
73	Nonpeptidic, Polo-Box Domain-Targeted Inhibitors of PLK1 Block Kinase Activity, Induce Its Degradation and Target-Resistant Cells. *Journal of Medicinal Chemistry*, **2021**, 64, 9916-9925	8.3	1
72	Panaxynol, a bioactive component of American ginseng, targets macrophages and suppresses colitis in mice. *Oncotarget*, **2020**, 11, 2026-2036	3.3	5
71	Microbes as Drugs: The Potential of Pharmabiotics. *Pharmacotherapy*, **2020**, 40, 102-106	5.8	6
70	Inhibition of the Dead Box RNA Helicase 3 Prevents HIV-1 Tat and Cocaine-Induced Neurotoxicity by Targeting Microglia Activation. *Journal of NeuroImmune Pharmacology*, **2020**, 15, 209-223	6.9	7
69	Pharmacological inhibition of DEAD-Box RNA Helicase 3 attenuates stress granule assembly. *Biochemical Pharmacology*, **2020**, 182, 114280	6	7
68	Improving oncology biosimilar launches in the EU, the USA, and Japan: an updated Policy Review from the Southern Network on Adverse Reactions. *Lancet Oncology, The*, **2020**, 21, e575-e588	21.7	6
67	Clinical significance of a pvrl 4 encoded gene Nectin-4 in metastasis and angiogenesis for tumor relapse. *Journal of Cancer Research and Clinical Oncology*, **2020**, 146, 245-259	4.9	14
66	Peptidomimetic Polo-Box-Targeted Inhibitors that Engage PLK1 in Tumor Cells and Are Selective against the PLK3 Tumor Suppressor. *ChemMedChem*, **2020**, 15, 1058-1066	3.7	4
65	Microglia morphology and proinflammatory signaling in the nucleus accumbens during nicotine withdrawal. *Science Advances*, **2019**, 5, eaax7031	14.3	30
64	Thiopurine-induced mitotic catastrophe in Rad51d-deficient mammalian cells. *Environmental and Molecular Mutagenesis*, **2018**, 59, 38-48	3.2	
63	The soluble nectin-4 ecto-domain promotes breast cancer induced angiogenesis via endothelial Integrin-4. *International Journal of Biochemistry and Cell Biology*, **2018**, 102, 151-160	5.6	21
62	Potential unintended consequences of getting rigorous with scientific rigor. *Carcinogenesis*, **2018**, 39, 26-27	4.6	
61	Nectin-4 is a breast cancer stem cell marker that induces WNT/-catenin signaling via Pi3k/Akt axis. *International Journal of Biochemistry and Cell Biology*, **2017**, 89, 85-94	5.6	39
60	Identification of novel cancer therapeutic targets using a designed and pooled shRNA library screen. *Scientific Reports*, **2017**, 7, 43023	4.9	22
59	Human Papillomavirus Type 16 L2 DNA Methylation in Exfoliated Cervical Cells From College-Age Women. *Journal of Lower Genital Tract Disease*, **2016**, 20, 332-7	3.6	1
58	Chk1 inhibitor synergizes quinacrine mediated apoptosis in breast cancer cells by compromising the base excision repair cascade. *Biochemical Pharmacology*, **2016**, 105, 23-33	6	17

57	Iterative conversion of cyclin binding groove peptides into druglike CDK inhibitors with antitumor activity. *Journal of Medicinal Chemistry*, **2015**, 58, 433-42	8.3	8
56	Current assessment of polo-like kinases as anti-tumor drug targets. *Expert Opinion on Drug Discovery*, **2014**, 9, 773-89	6.2	32
55	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. *Toxicology and Applied Pharmacology*, **2014**, 274, 168-79	4.6	29
54	Regulatory and clinical considerations for biosimilar oncology drugs. *Lancet Oncology, The*, **2014**, 15, e594-e605	21.7	86
53	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. *DNA Repair*, **2014**, 24, 15-25	4.3	28
52	Advances in understanding the coupling of DNA base modifying enzymes to processes involving base excision repair. *Advances in Cancer Research*, **2013**, 119, 63-106	5.9	10
51	SMUG1 but not UNG DNA glycosylase contributes to the cellular response to recovery from 5-fluorouracil induced replication stress. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2013**, 743-744, 26-32	3.3	13
50	Silver-based nanoparticles induce apoptosis in human colon cancer cells mediated through p53. *Nanomedicine*, **2013**, 8, 1307-22	5.6	101
49	Lycopene synergistically enhances quinacrine action to inhibit Wnt-TCF signaling in breast cancer cells through APC. *Carcinogenesis*, **2013**, 34, 277-86	4.6	56
48	Expression and regulation of RAD51 mediate cellular responses to chemotherapeutics. *Biochemical Pharmacology*, **2012**, 83, 741-6	6	21
47	Quinacrine has anticancer activity in breast cancer cells through inhibition of topoisomerase activity. *International Journal of Cancer*, **2012**, 130, 1660-70	7.5	101
46	Targeting subcellular localization through the polo-box domain: non-ATP competitive inhibitors recapitulate a PLK1 phenotype. *Molecular Cancer Therapeutics*, **2012**, 11, 1683-92	6.1	17
45	Quinacrine-mediated autophagy and apoptosis in colon cancer cells is through a p53- and p21-dependent mechanism. *Oncology Research*, **2012**, 20, 81-91	4.8	77
44	The homologous recombination protein RAD51D mediates the processing of 6-thioguanine lesions downstream of mismatch repair. *Molecular Cancer Research*, **2011**, 9, 206-14	6.6	6
43	PLK1 as an oncology target: current status and future potential. *Drug Discovery Today*, **2011**, 16, 619-25	8.8	86
42	Whole organism based techniques and approaches in early stage oncology drug discovery-patents and trends. *Recent Patents on Endocrine, Metabolic & Immune Drug Discovery*, **2011**, 5, 183-91		1
41	Cation exchange on the surface of gold nanorods with a polymerizable surfactant: polymerization, stability, and toxicity evaluation. *Langmuir*, **2010**, 26, 9328-33	4	83
40	RAD51D protects against MLH1-dependent cytotoxic responses to O(6)-methylguanine. *DNA Repair* , **2010**, 9, 458-67	4.3	14

39	DNA damage in barn swallows (Hirundo rustica) from the Chernobyl region detected by use of the comet assay. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2010**, 151, 271-7	3.2	36
38	Differential effects of reactive nitrogen species on DNA base excision repair initiated by the alkyladenine DNA glycosylase. *Carcinogenesis*, **2009**, 30, 2123-9	4.6	32
37	Participation of DNA repair in the response to 5-fluorouracil. *Cellular and Molecular Life Sciences*, **2009**, 66, 788-99	10.3	160
36	Cellular uptake and cytotoxicity of gold nanorods: molecular origin of cytotoxicity and surface effects. *Small*, **2009**, 5, 701-8	11	842
35	Uracil in DNA: consequences for carcinogenesis and chemotherapy. *Biochemical Pharmacology*, **2008**, 76, 697-706	6	54
34	DNA damage and homologous recombination signaling induced by thymidylate deprivation. *Biochemical Pharmacology*, **2008**, 76, 987-96	6	15
33	Uracil incorporation into genomic DNA does not predict toxicity caused by chemotherapeutic inhibition of thymidylate synthase. *DNA Repair*, **2008**, 7, 162-9	4.3	32
32	Induction of intrachromosomal homologous recombination in human cells by raltitrexed, an inhibitor of thymidylate synthase. *DNA Repair*, **2008**, 7, 1624-35	4.3	15
31	One-pot synthesis of silica-coated magnetic plasmonic tracer nanoparticles. *Chemical Communications*, **2008**, 6140-2	5.8	29
30	Methylating agents and DNA repair responses: Methylated bases and sources of strand breaks. *Chemical Research in Toxicology*, **2006**, 19, 1580-94	4	309
29	Developmental abnormalities in multiple proliferative tissues of Apc(Min/+) mice. *International Journal of Experimental Pathology*, **2006**, 87, 227-36	2.8	38
28	Effects of substrate specificity on initiating the base excision repair of N-methylpurines by variant human 3-methyladenine DNA glycosylases. *Chemical Research in Toxicology*, **2005**, 18, 87-94	4	14
27	Effect of protein binding on ultrafast DNA dynamics: characterization of a DNA:APE1 complex. *Biophysical Journal*, **2005**, 89, 4129-38	2.9	31
26	Determination of apoptosis, uracil incorporation, DNA strand breaks, and sister chromatid exchanges under conditions of thymidylate deprivation in a model of BER deficiency. *Biochemical Pharmacology*, **2005**, 70, 1458-68	6	25
25	Gold nanoparticles are taken up by human cells but do not cause acute cytotoxicity. *Small*, **2005**, 1, 325-7	11	1948
24	Oxanine DNA glycosylase activity from Mammalian alkyladenine glycosylase. *Journal of Biological Chemistry*, **2004**, 279, 38177-83	5.4	48
23	Involvement of base excision repair in response to therapy targeted at thymidylate synthase. *Molecular Cancer Therapeutics*, **2004**, 3, 747-53	6.1	15
22	Active-site clashes prevent the human 3-methyladenine DNA glycosylase from improperly removing bases. *Chemistry and Biology*, **2002**, 9, 1033-41		25

21	Influence of DNA structure on hypoxanthine and 1,N(6)-ethenoadenine removal by murine 3-methyladenine DNA glycosylase. *Carcinogenesis*, **2000**, 21, 901-8	4.6	25
20	Molecular basis for discriminating between normal and damaged bases by the human alkyladenine glycosylase, AAG. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 13573-8	11.5	187
19	3-methyladenine DNA glycosylases: structure, function, and biological importance. *BioEssays*, **1999**, 21, 668-76	4.1	143
18	3-methyladenine DNA glycosylases: structure, function, and biological importance **1999**, 21, 668		3
17	Mammalian 3-methyladenine DNA glycosylase protects against the toxicity and clastogenicity of certain chemotherapeutic DNA cross-linking agents. *Cancer Research*, **1998**, 58, 3965-73	10.1	35
16	Determination of the DNA sequence specificity of alkylation damage using cleavage-based assays. *Methods in Molecular Biology*, **1997**, 90, 147-56	1.4	5
15	The sequence specificity of alkylation for a series of benzoic acid mustard and imidazole-containing distamycin analogues: the importance of local sequence conformation. *Nucleic Acids Research*, **1997** , 25, 2359-64	20.1	4
14	Base excision repair deficient mice lacking the Aag alkyladenine DNA glycosylase. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 13087-92	11.5	191
13	Involvement of DT-diaphorase (EC 1.6.99.2) in the DNA cross-linking and sequence selectivity of the bioreductive anti-tumour agent EO9. *British Journal of Cancer*, **1997**, 76, 1596-603	8.7	29
12	Alkylation specificity for a series of distamycin analogues that tether chlorambucil. *Anti-cancer Drug Design*, **1997**, 12, 49-60		2
11	Novel cytotoxic DNA sequence and minor groove targeted photosensitizers: conjugates of pyrene and netropsin analogues. *Bioorganic and Medicinal Chemistry*, **1995**, 3, 623-9	3.4	7
10	DNA sequence-specific adenine alkylation by the novel antitumor drug tallimustine (FCE 24517), a benzoyl nitrogen mustard derivative of distamycin. *Nucleic Acids Research*, **1995**, 23, 81-7	20.1	85
9	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. *Biochemistry*, **1995**, 34, 13034-41	3.2	37
8	Design, synthesis and biological evaluation of benzoic acid mustard derivatives of imidazole-containing and C-terminal carboxamide analogues of distamycin. *Drug Design and Discovery*, **1995**, 12, 323-35		2
7	Probing the importance of the second chloroethyl arm of a benzoic acid mustard derivative of an imidazole-containing analogue of distamycin. *Bioorganic and Medicinal Chemistry Letters*, **1994**, 4, 2421-2424	2.9	10
6	Synthesis and DNA binding properties of a series of N to C linked and imidazole containing analogues of distamycin. *Bioorganic and Medicinal Chemistry Letters*, **1994**, 4, 801-806	2.9	10
5	GC sequence specific recognition by an N-formamido, C-terminus-modified and imidazole-containing analogue of netropsin. *Journal of Medicinal Chemistry*, **1994**, 37, 4073-5	8.3	7
4	Structure-activity relationship of a series of nitrogen mustard- and pyrrole-containing minor groove-binding agents related to distamycin. *Anti-cancer Drug Design*, **1994**, 9, 511-25		5

3	In vitro cytotoxicity of GC sequence directed alkylating agents related to distamycin. *Journal of Medicinal Chemistry*, **1993**, 36, 863-70	8.3	45
2	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. *Biochemistry*, **1993**, 32, 4237-45	3.2	363
1	Design, synthesis, and biological evaluation of DNA sequence and minor groove selective alkylating agents. *Anti-cancer Drug Design*, **1993**, 8, 173-92		11