

Birandra K Sinha

List of Publications by Year in descending order

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60
papers

2,212
citations

236925

25
h-index

223800

46
g-index

60
all docs

60
docs citations

60
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential formation of hydroxyl radicals by adriamycin in sensitive and resistant MCF-7 human breast tumor cells: implications for the mechanism of action. <i>Biochemistry</i> , 1987, 26, 3776-3781.	2.5	196
2	Topoisomerase Inhibitors. <i>Drugs</i> , 1995, 49, 11-19.	10.9	154
3	Free radicals and anticancer drug resistance: Oxygen free radicals in the mechanisms of drug cytotoxicity and resistance by certain tumors. <i>Free Radical Biology and Medicine</i> , 1990, 8, 567-581.	2.9	152
4	Hydroxyl radical production and DNA damage induced by anthracycline-iron complex. <i>FEBS Letters</i> , 1984, 172, 226-230.	2.8	136
5	Role of one-electron and two-electron reduction products of adriamycin and daunomycin in deoxyribonucleic acid binding. <i>Biochemical Pharmacology</i> , 1981, 30, 2626-2629.	4.4	99
6	Adriamycin-stimulated hydroxyl radical formation in human breast tumor cells. <i>Biochemical Pharmacology</i> , 1987, 36, 793-796.	4.4	97
7	Free radicals in anticancer drug pharmacology. <i>Chemico-Biological Interactions</i> , 1989, 69, 293-317.	4.0	89
8	Formation of superoxide and hydroxyl radicals from 1-methyl-4-phenylpyridinium ion(MPP ⁺): Reductive activation by NADPH cytochrome P-450 reductase. <i>Biochemical and Biophysical Research Communications</i> , 1986, 135, 583-588.	2.1	87
9	In vitro metabolism of etoposide (VP-16-213) by liver microsomes and irreversible binding of reactive intermediates to microsomal proteins. <i>Biochemical Pharmacology</i> , 1987, 36, 527-536.	4.4	69
10	One-electron reduction of daunomycin, daunomycinone, and 7-deoxydaunomycinone by the xanthine/xanthine oxidase system: detection of semiquinone free radicals by electron spin resonance. <i>Journal of the American Chemical Society</i> , 1987, 109, 348-351.	13.7	68
11	Peroxidative free radical formation and O-demethylation of etoposide(VP-16) and teniposide(VM-26). <i>Biochemical and Biophysical Research Communications</i> , 1986, 135, 215-220.	2.1	67
12	Characterization of free radicals produced during oxidation of etoposide (VP-16) and its catechol and quinone derivatives. An ESR study. <i>Biochemistry</i> , 1989, 28, 4839-4846.	2.5	62
13	Free radical metabolism of VP-16 and inhibition of anthracycline-induced lipid peroxidation. <i>Biochemical Pharmacology</i> , 1983, 32, 3495-3498.	4.4	46
14	DNA damage, cytotoxicity and free radical formation by mitomycin C in human cells. <i>Chemico-Biological Interactions</i> , 1989, 71, 63-78.	4.0	46
15	Interaction of antitumor drugs with human erythrocyte ghost membranes and mastocytoma P815: A spin label study. <i>Biochemical and Biophysical Research Communications</i> , 1979, 86, 1051-1057.	2.1	45
16	Binding of [¹⁴ C]-adriamycin to cellular macromolecules in vivo. <i>Biochemical Pharmacology</i> , 1980, 29, 1867-1868.	4.4	40
17	Biochemical and pharmacological characterization of MCF-7 drug-sensitive and AdrR multidrug-resistant human breast tumor xenografts in athymic nude mice. <i>Biochemical Pharmacology</i> , 1991, 42, 391-402.	4.4	36
18	Activation of hydrazine derivatives to free radicals in the perfused rat liver: a spin-trapping study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987, 924, 261-269.	2.4	32

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19	Iron-dependent hydroxyl radical formation and DNA damage from a novel metabolite of the clinically active antitumor drug VP-16. <i>FEBS Letters</i> , 1988, 227, 240-244.	2.8	32
20	Irreversible binding of etoposide (VP-16-213) to deoxyribonucleic acid and proteins. <i>Biochemical Pharmacology</i> , 1984, 33, 3725-3728.	4.4	31
21	Microsomal interactions and inhibition of lipid peroxidation by etoposide (VP-16, 213): Implications for mode of action. <i>Biochemical Pharmacology</i> , 1985, 34, 2036-2040.	4.4	31
22	Nitric oxide reverses drug resistance by inhibiting ATPase activity of p-glycoprotein in human multi-drug resistant cancer cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2806-2814.	2.4	30
23	Interactions of the antitumor drug, etoposide, with reduced thiols in vitro and in vivo. <i>Chemico-Biological Interactions</i> , 1987, 62, 237-247.	4.0	28
24	The electrochemical reduction of 1,4-bis-{2-[(2-hydroxyethyl)-amino]ethylamino}-anthracenedione and daunomycin: Biochemical significance in superoxide formation. <i>Chemico-Biological Interactions</i> , 1983, 43, 371-377.	4.0	25
25	Free radical formation by ansamycin benzoquinone in human breast tumor cells: Implications for cytotoxicity and resistance. <i>Free Radical Biology and Medicine</i> , 1994, 17, 191-200.	2.9	25
26	Structure-activity relations, cytotoxicity and topoisomerase II dependent cleavage induced by pendulum ring analogues of etoposide. <i>European Journal of Cancer & Clinical Oncology</i> , 1990, 26, 590-593.	0.7	24
27	Cytotoxicity and DNA damage associated with pyrazoloacridine in MCF-7 breast cancer cells. <i>Biochemical Pharmacology</i> , 1996, 51, 1649-1659.	4.4	23
28	Oncogene overexpression and de novo drug-resistance in human prostate cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994, 1226, 89-96.	3.8	22
29	Synthesis and biological properties of some spin-labeled 9-aminoacridines. <i>Journal of Medicinal Chemistry</i> , 1976, 19, 994-998.	6.4	20
30	Effect of Nitric Oxide on the Anticancer Activity of the Topoisomerase-Active Drugs Etoposide and Adriamycin in Human Melanoma Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 347, 607-614.	2.5	20
31	Nitric oxide inhibits topoisomerase II activity and induces resistance to topoisomerase II-poisons in human tumor cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1519-1527.	2.4	20
32	Synthesis and antitumor properties of bis(quinoline) derivatives. <i>Journal of Medicinal Chemistry</i> , 1977, 20, 1528-1531.	6.4	19
33	Reversal of drug resistance by JS-K and nitric oxide in ABCB1- and ABCG2-expressing multi-drug resistant human tumor cells. <i>Biomedicine and Pharmacotherapy</i> , 2019, 120, 109468.	5.6	19
34	Nitric Oxide Down-Regulates Topoisomerase I and Induces Camptothecin Resistance in Human Breast MCF-7 Tumor Cells. <i>PLoS ONE</i> , 2015, 10, e0141897.	2.5	19
35	Synthesis and biological properties of N2-substituted spin-labeled analogs of actinomycin D. <i>Journal of Medicinal Chemistry</i> , 1979, 22, 1051-1055.	6.4	18
36	Role of Nitric Oxide in the Chemistry and Anticancer Activity of Etoposide (VP-16,213). <i>Chemical Research in Toxicology</i> , 2013, 26, 379-387.	3.3	18

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37	Coppier ion-dependent oxy-radical mediated DNA damage from dihydroxy derivative of etoposide. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1990, 1096, 81-83.	3.8	17
38	DNA Cleavage and Detection of DNA Radicals Formed from Hydralazine and Copper (II) by ESR and Immuno-Spin Trapping. <i>Chemical Research in Toxicology</i> , 2014, 27, 674-682.	3.3	17
39	Is Metabolic Activation of Topoisomerase II Poisons Important In The Mechanism Of Cytotoxicity?. <i>Journal of Drug Metabolism & Toxicology</i> , 2015, 06, .	0.1	17
40	Resistance of paraquat and adriamycin in human breast tumor cells: role of free radical formation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1989, 1010, 304-310.	4.1	16
41	Tyrosinase-Induced Free Radical Formation From VP-16,213: Relationship To Cytotoxicity. <i>Free Radical Research Communications</i> , 1990, 10, 287-293.	1.8	16
42	Synergistic enhancement of topotecan-induced cell death by ascorbic acid in human breast MCF-7 tumor cells. <i>Free Radical Biology and Medicine</i> , 2017, 113, 406-412.	2.9	16
43	Acridine spin labels as probes for nucleic acids. <i>Life Sciences</i> , 1975, 17, 1829-1836.	4.3	15
44	Mechanism of DNA strand breaks by mitonafide, an imide derivative of 3-nitro-1,8-naphthalic acid. <i>Biochemical Pharmacology</i> , 1985, 34, 3845-3852.	4.4	15
45	Doxorubicin-induced oxygen free radical formation in sensitive and doxorubicin-resistant variants of rat glioblastoma cell lines. <i>FEBS Letters</i> , 1993, 322, 295-298.	2.8	15
46	Doxorubicin-induced oxygen free radical formation in sensitive and doxorubicin-resistant variants of rat glioblastoma cell lines. <i>FEBS Letters</i> , 1993, 326, 302-305.	2.8	15
47	Biotransformation of Hydrazine Dervatives in the Mechanism of Toxicity. <i>Journal of Drug Metabolism & Toxicology</i> , 2014, 05, .	0.1	14
48	Suramin inhibits DNA damage in human prostate cancer cells treated with topoisomerase inhibitors in vitro. <i>Prostate</i> , 1993, 23, 25-36.	2.3	13
49	Construction of a recombinant adeno-associated virus (rAAV) vector expressing murine interleukin-12 (IL-12). <i>Cancer Gene Therapy</i> , 2000, 7, 308-315.	4.6	12
50	Elucidation of Mechanisms of Topotecan-Induced Cell Death in Human Breast MCF-7 Cancer Cells by Gene Expression Analysis. <i>Frontiers in Genetics</i> , 2020, 11, 775.	2.3	12
51	Etoposide-induced DNA damage in human tumor cells: requirement for cellular activating factors. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1991, 1097, 111-116.	3.8	9
52	Cytochrome P-450- and Peroxidase-Dependent Activation of Procarbazine and Iproniazid in Mammalian Cells. <i>Free Radical Research Communications</i> , 1991, 15, 189-195.	1.8	9
53	NCX-4040, a Unique Nitric Oxide Donor, Induces Reversal of Drug-Resistance in Both ABCB1- and ABCG2-Expressing Multidrug Human Cancer Cells. <i>Cancers</i> , 2021, 13, 1680.	3.7	9
54	Nitric Oxide: Friend or Foe in Cancer Chemotherapy and Drug Resistance: A Perspective. <i>Journal of Cancer Science & Therapy</i> , 2016, 8, 244-251.	1.7	8

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55	Nitric oxide inhibits ATPase activity and induces resistance to topoisomerase II-poisons in human MCF-7 breast tumor cells. <i>Biochemistry and Biophysics Reports</i> , 2017, 10, 252-259.	1.3	8
56	Synergistic interactions of etoposide and interleukin-1 β are not due to DNA damage in human melanoma cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1993, 1180, 231-235.	3.8	6
57	Role of oxygen free radical formation in the mechanism of menogaril resistance in multidrug resistant tumor cells. <i>Chemico-Biological Interactions</i> , 1990, 76, 89-99.	4.0	4
58	Structural investigations of DNA-histone complexes. A spin label study. <i>Nucleic Acids Research</i> , 1979, 6, 3703-3714.	14.5	2
59	Mechanism of action of N2-substituted spin labeled actinomycin D: Binding to nucleic acids and erythrocyte ghost membranes. <i>Chemico-Biological Interactions</i> , 1981, 34, 367-372.	4.0	1
60	Role of Free Radicals in Etoposide (Vp-16,213) Action. , 1988, 49, 765-768.		1