Bernd Kaina

List of Publications by Year
in descending order

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77	6,696	40	74
papers	citations	h-index	g-index
		76196	76769

78	78	78	9349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dose response to methylating agents in the Î³H2AX, SCE and colony formation assays: Effect of MGMT and MPG overexpression. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2022, 876-877, 503462.	0.9	0
2	Senescence Is the Main Trait Induced by Temozolomide in Glioblastoma Cells. Cancers, 2022, 14, 2233.	1.7	19
3	Curcumin Administered as Micellar Solution Suppresses Intestinal Inflammation and Colorectal Carcinogenesis. Nutrition and Cancer, 2021, 73, 686-693.	0.9	11
4	Do Carcinogens Have a Threshold Dose? The Pros and Cons. , 2021, , 1-19.		0
5	Impaired DNA repair in mouse monocytes compared to macrophages and precursors. DNA Repair, 2021, 98, 103037.	1.3	7
6	Targeting c-IAP1, c-IAP2, and Bcl-2 Eliminates Senescent Glioblastoma Cells Following Temozolomide Treatment. Cancers, 2021, 13, 3585.	1.7	19
7	Cytotoxic, Genotoxic and Senolytic Potential of Native and Micellar Curcumin. Nutrients, 2021, 13, 2385.	1.7	14
8	Molecular Dosimetry of Temozolomide: Quantification of Critical Lesions, Correlation to Cell Death Responses, and Threshold Doses. Molecular Cancer Therapeutics, 2021, 20, 1789-1799.	1.9	14
9	Abscopal Effect and Drug-Induced Xenogenization: A Strategic Alliance in Cancer Treatment?. International Journal of Molecular Sciences, 2021, 22, 10672.	1.8	5
10	Do Carcinogens Have a Threshold Dose? The Pros and Cons. , 2021, , 555-573.		0
11	Comparison of DNA repair and radiosensitivity of different blood cell populations. Scientific Reports, 2021, 11, 2478.	1.6	67
12	Methadone-mediated sensitization of glioblastoma cells is drug and cell line dependent. Journal of Cancer Research and Clinical Oncology, 2021, 147, 779-792.	1.2	5
13	Accumulation of Temozolomide-Induced Apoptosis, Senescence and DNA Damage by Metronomic Dose Schedule: A Proof-of-Principle Study with Glioblastoma Cells. Cancers, 2021, 13, 6287.	1.7	8
14	Cytotoxic and Senolytic Effects of Methadone in Combination with Temozolomide in Glioblastoma Cells. International Journal of Molecular Sciences, 2020, 21, 7006.	1.8	9
15	A genome-wide screening for DNA repair genes: much more players than hitherto known. Signal Transduction and Targeted Therapy, 2020, 5, 204.	7.1	3
16	Benzo[a]pyrene represses DNA repair through altered E2F1/E2F4 function marking an early event in DNA damage-induced cellular senescence. Nucleic Acids Research, 2020, 48, 12085-12101.	6.5	23
17	Human primary endothelial cells are impaired in nucleotide excision repair and sensitive to benzo[a]pyrene compared with smooth muscle cells and pericytes. Scientific Reports, 2019, 9, 13800.	1.6	12
18	DNA repair in personalized brain cancer therapy with temozolomide and nitrosoureas. DNA Repair, 2019, 78, 128-141.	1.3	89

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19	Are There Thresholds in Glioblastoma Cell Death Responses Triggered by Temozolomide?. International Journal of Molecular Sciences, 2019, 20, 1562.	1.8	41
20	The SIAH1â€“HIPK2â€“p53ser46 Damage Response Pathway is Involved in Temozolomide-Induced Glioblastoma Cell Death. Molecular Cancer Research, 2019, 17, 1129-1141.	1.5	40
21	Temozolomide in Glioblastoma Therapy: Role of Apoptosis, Senescence and Autophagy. Comment on Strobel et al., Temozolomide and Other Alkylating Agents in Glioblastoma Therapy. Biomedicines 2019, 7, 69. Biomedicines, 2019, 7, 90.	1.4	30
22	Immunological and mass spectrometry-based approaches to determine thresholds of the mutagenic DNA adduct O6-methylguanine in vivo. Archives of Toxicology, 2019, 93, 559-572.	1.9	17
23	Temozolomide Induces Senescence and Repression of DNA Repair Pathways in Glioblastoma Cells via Activation of ATRâ€“CHK1, p21, and NF-ÎºB. Cancer Research, 2019, 79, 99-113.	0.4	126
24	Werner syndrome (WRN) DNA helicase and base excision repair (BER) factors maintain endothelial homeostasis. DNA Repair, 2019, 73, 17-27.	1.3	7
25	Compromised DNA Repair and Signalling in Human Granulocytes. Journal of Innate Immunity, 2019, 11, 74-85.	1.8	12
26	Epigenetic regulation of DNA repair genes and implications for tumor therapy. Mutation Research - Reviews in Mutation Research, 2019, 780, 15-28.	2.4	59
27	PARP-1 protects against colorectal tumor induction, but promotes inflammation-driven colorectal tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4061-E4070.	3.3	66
28	Repair gene O⁶â€methylguanineâ€DNA methyltransferase is controlled by SP1 and upâ€regulated by glucocorticoids, but not by temozolomide and radiation. Journal of Neurochemistry, 2018, 144, 139-151.	2.1	41
29	Sensitivity of CD3/CD28-stimulated versus non-stimulated lymphocytes to ionizing radiation and genotoxic anticancer drugs: key role of ATM in the differential radiation response. Cell Death and Disease, 2018, 9, 1053.	2.7	40
30	Genotoxicity testing: Comparison of the Î³H2AX focus assay with the alkaline and neutral comet assays. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 822, 10-18.	0.9	29
31	Impact of DNA repair on the dose-response of colorectal cancer formation induced by dietary carcinogens. Food and Chemical Toxicology, 2017, 106, 583-594.	1.8	28
32	Death of Monocytes through Oxidative Burst of Macrophages and Neutrophils: Killing in Trans. PLoS ONE, 2017, 12, e0170347.	1.1	42
33	Integrin Î±VÎ²3 silencing sensitizes malignant glioma cells to temozolomide by suppression of homologous recombination repair. Oncotarget, 2017, 8, 27754-27771.	0.8	28
34	MGMT promoter methylation determined by HRM in comparison to MSP and pyrosequencing for predicting high-grade glioma response. Clinical Epigenetics, 2016, 8, 49.	1.8	59
35	Adaptive upregulation of DNA repair genes following benzo(a)pyrene diol epoxide protects against cell death at the expense of mutations. Nucleic Acids Research, 2016, 44, 10727-10743.	6.5	37
36	DNA damage and the balance between survival and death in cancer biology. Nature Reviews Cancer, 2016, 16, 20-33.	12.8	870

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37	Apoptosis induced by temozolomide and nimustine in glioblastoma cells is supported by JNK/c-Jun-mediated induction of the BH3-only protein BIM. Oncotarget, 2015, 6, 33755-33768.	0.8	42
38	Theoretical considerations for thresholds in chemical carcinogenesis. Mutation Research - Reviews in Mutation Research, 2015, 765, 56-67.	2.4	31
39	DNA repair by MGMT, but not AAG, causes a threshold in alkylation-induced colorectal carcinogenesis. Carcinogenesis, 2015, 36, 1235-1244.	1.3	42
40	The eucalyptus oil ingredient 1,8-cineol induces oxidative DNA damage. Archives of Toxicology, 2015, 89, 797-805.	1.9	42
41	DNA breaks and chromosomal aberrations arise when replication meets base excision repair. Journal of Cell Biology, 2014, 206, 29-43.	2.3	115
42	The Î³H2AX Assay for Genotoxic and Nongenotoxic Agents: Comparison of H2AX Phosphorylation with Cell Death Response. Toxicological Sciences, 2014, 140, 103-117.	1.4	106
43	Contribution of ATM and ATR to the Resistance of Glioblastoma and Malignant Melanoma Cells to the Methylating Anticancer Drug Temozolomide. Molecular Cancer Therapeutics, 2013, 12, 2529-2540.	1.9	85
44	DNA damage-induced cell death: From specific DNA lesions to the DNA damage response and apoptosis. Cancer Letters, 2013, 332, 237-248.	3.2	720
45	O6-methylguanine-DNA methyltransferase in the defense against N-nitroso compounds and colorectal cancer. Carcinogenesis, 2013, 34, 2435-2442.	1.3	84
46	Transcriptional regulation of human DNA repair genes following genotoxic stress: trigger mechanisms, inducible responses and genotoxic adaptation. Nucleic Acids Research, 2013, 41, 8403-8420.	6.5	201
47	Survival and Death Strategies in Glioma Cells: Autophagy, Senescence and Apoptosis Triggered by a Single Type of Temozolomide-Induced DNA Damage. PLoS ONE, 2013, 8, e55665.	1.1	218
48	Human CD4+CD25+ Regulatory T Cells Are Sensitive to Low Dose Cyclophosphamide: Implications for the Immune Response. PLoS ONE, 2013, 8, e83384.	1.1	80
49	Human Monocytes Undergo Excessive Apoptosis following Temozolomide Activating the ATM/ATR Pathway While Dendritic Cells and Macrophages Are Resistant. PLoS ONE, 2012, 7, e39956.	1.1	53
50	Temozolomide Dosing Regimens for Glioma Patients. Current Neurology and Neuroscience Reports, 2012, 12, 286-293.	2.0	34
51	Artesunate Induces Oxidative DNA Damage, Sustained DNA Double-Strand Breaks, and the ATM/ATR Damage Response in Cancer Cells. Molecular Cancer Therapeutics, 2011, 10, 2224-2233.	1.9	142
52	Intrinsic Anticancer Drug Resistance of Malignant Melanoma Cells Is Abrogated by IFN-Î² and Valproic Acid. Cancer Research, 2011, 71, 4150-4160.	0.4	31
53	Human monocytes are severely impaired in base and DNA double-strand break repair that renders them vulnerable to oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21105-21110.	3.3	153
54	Targeting O 6-methylguanine-DNA methyltransferase with specific inhibitors as a strategy in cancer therapy. Cellular and Molecular Life Sciences, 2010, 67, 3663-3681.	2.4	124

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55	MGMT activity, promoter methylation and immunohistochemistry of pretreatment and recurrent malignant gliomas: a comparative study on astrocytoma and glioblastoma. International Journal of Cancer, 2010, 127, 2106-2118.	2.3	97
56	Both base excision repair and O6-methylguanine-DNA methyltransferase protect against methylation-induced colon carcinogenesis. Carcinogenesis, 2010, 31, 2111-2117.	1.3	61
57	Processing of O⁶-methylguanine into DNA double-strand breaks requires two rounds of replication whereas apoptosis is also induced in subsequent cell cycles. Cell Cycle, 2010, 9, 168-178.	1.3	128
58	Topotecan Triggers Apoptosis in p53-Deficient Cells by Forcing Degradation of XIAP and Survivin Thereby Activating Caspase-3-Mediated Bid Cleavage. Journal of Pharmacology and Experimental Therapeutics, 2010, 332, 316-325.	1.3	33
59	Three prime exonuclease I (TREX1) is Fos/AP-1 regulated by genotoxic stress and protects against ultraviolet light and benzo(a)pyrene-induced DNA damage. Nucleic Acids Research, 2010, 38, 6418-6432.	6.5	52
60	MGMT in primary and recurrent human glioblastomas after radiation and chemotherapy and comparison with p53 status and clinical outcome. International Journal of Cancer, 2008, 122, 1391-1399.	2.3	96
61	Human Monocytes, but not Dendritic Cells Derived from Them, Are Defective in Base Excision Repair and Hypersensitive to Methylating Agents. Cancer Research, 2007, 67, 26-31.	0.4	52
62	MGMT: Key node in the battle against genotoxicity, carcinogenicity and apoptosis induced by alkylating agents. DNA Repair, 2007, 6, 1079-1099.	1.3	549
63	Local intracerebral administration of O6-benzylguanine combined with systemic chemotherapy with temozolomide of a patient suffering from a recurrent glioblastoma. Journal of Neuro-Oncology, 2007, 82, 85-89.	1.4	39
64	O6-methylguanine DNA methyltransferase and p53 status predict temozolomide sensitivity in human malignant glioma cells. Journal of Neurochemistry, 2006, 96, 766-776.	2.1	290
65	Topotecan-Triggered Degradation of Topoisomerase I Is p53-Dependent and Impacts Cell Survival. Cancer Research, 2005, 65, 8920-8926.	0.4	44
66	Apoptosis triggered by DNA damage O6-methylguanine in human lymphocytes requires DNA replication and is mediated by p53 and Fas/CD95/Apo-1. Oncogene, 2004, 23, 359-367.	2.6	114
67	Variability and regulation of O6-alkylguanine-DNA alkyltransferase. Carcinogenesis, 2003, 24, 625-635.	1.3	168
68	Long-time expression of DNA repair enzymes MGMT and APE in human peripheral blood mononuclear cells. Archives of Toxicology, 2001, 75, 306-312.	1.9	33
69	BER, MGMT, and MMR in defense against alkylation-induced genotoxicity and apoptosis. Progress in Molecular Biology and Translational Science, 2001, 68, 41-54.	1.9	82
70	DNA double-strand breaks trigger apoptosis in p53-deficient fibroblasts. Carcinogenesis, 2001, 22, 579-585.	1.3	99
71	Comparison of the genotoxic and apoptosis-inducing properties of ganciclovir and penciclovir in Chinese hamster ovary cells transfected with the thymidine kinase gene of herpes simplex virus-1: Implications for gene therapeutic approaches. Cancer Gene Therapy, 2000, 7, 107-117.	2.2	53
72	Nuclear Translocation of Mismatch Repair Proteins MSH2 and MSH6 as a Response of Cells to Alkylating Agents. Journal of Biological Chemistry, 2000, 275, 36256-36262.	1.6	85

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73	Chromosomal instability, reproductive cell death and apoptosis induced by O6-methylguanine in Mexâˆ', Mex+ and methylation-tolerant mismatch repair compromised cells: facts and models. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1997, 381, 227-241.	0.4	169
74	Induction of the alkyltransferase (MGMT) gene by DNA damaging agents and the glucocorticoid dexamethasone and comparison with the response of base excision repair genes. Carcinogenesis, 1996, 17, 2329-2336.	1.3	113
75	Contribution of O6-alkylguanine and N-alkylpurines to the formation of sister chromatid exchanges, chromosomal aberrations, and gene mutations: New insights gained from studies of genetically engineered mammalian cell lines. Environmental and Molecular Mutagenesis, 1993, 22, 283-292.	0.9	115
76	Dependency of the yield of sister-chromatid exchanges induced by alkylating agents on fixation time. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1985, 149, 451-461.	0.4	32
77	Temozolomide â€" Just a Radiosensitizer?. Frontiers in Oncology, 0, 12, .	1.3	7