Bevin P Engelward

List of Publications by Year
in descending order

68	3,477	186209 28	143943 57
papers	citations	h-index	g-index

70	70	70	5155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Parallel Transformations of Polycyclic Aromatic Hydrocarbons in the Body and in the Atmosphere. Environmental Health Perspectives, 2022, 130, 25004.	2.8	19
2	Recombinant cell-detecting RaDR-GFP in mice reveals an association between genomic instability and radiation-induced-thymic lymphoma.. American Journal of Cancer Research, 2022, 12, 562-573.	1.4	0
3	Fluorescence Sheds Light on DNA Damage, DNA Repair, and Mutations. Trends in Cancer, 2021, 7, 240-248.	3.8	16
4	Analysis of mutations in tumor and normal adjacent tissue via fluorescence detection. Environmental and Molecular Mutagenesis, 2021, 62, 108-123.	0.9	3
5	Excision of mutagenic replication-blocking lesions suppresses cancer but promotes cytotoxicity and lethality in nitrosamine-exposed mice. Cell Reports, 2021, 34, 108864.	2.9	16
6	Implications of an epidemiological study showing an association between in utero <scp>NDMA</scp> exposure and childhood cancer. Environmental and Molecular Mutagenesis, 2021, 62, 288-292.	0.9	6
7	A Modern Genotoxicity Testing Paradigm: Integration of the High-Throughput CometChipÂ® and the TGx-DDI Transcriptomic Biomarker in Human HepaRGâ„¢ Cell Cultures. Frontiers in Public Health, 2021, 9, 694834.	1.3	17
8	Global Cancer Risk From Unregulated Polycyclic Aromatic Hydrocarbons. GeoHealth, 2021, 5, e2021GH000401.	1.9	21
9	MalariaCometChip for high-throughput quantification of DNA damage in Plasmodium falciparum. STAR Protocols, 2021, 2, 100797.	0.5	1
10	CometChip enables parallel analysis of multiple DNA repair activities. DNA Repair, 2021, 106, 103176.	1.3	7
11	CometChip analysis of human primary lymphocytes enables quantification of inter-individual differences in the kinetics of repair of oxidative DNA damage. Free Radical Biology and Medicine, 2021, 174, 89-99.	1.3	10
12	K13-Mediated Reduced Susceptibility to Artemisinin in Plasmodium falciparum Is Overlaid on a Trait of Enhanced DNA Damage Repair. Cell Reports, 2020, 32, 107996.	2.9	21
13	Applications of CometChip for Environmental Health Studies. Chemical Research in Toxicology, 2020, 33, 1528-1538.	1.7	11
14	SpheroidChip: Patterned Agarose Microwell Compartments Harboring HepG2 Spheroids are Compatible with Genotoxicity Testing. ACS Biomaterials Science and Engineering, 2020, 6, 2427-2439.	2.6	18
15	HTS-Compatible CometChip Enables Genetic Screening for Modulators of Apoptosis and DNA Double-Strand Break Repair. SLAS Discovery, 2020, 25, 906-922.	1.4	2
16	Sensitive CometChip assay for screening potentially carcinogenic DNA adducts by trapping DNA repair intermediates. Nucleic Acids Research, 2020, 48, e13-e13.	6.5	29
17	Inflammation-induced DNA damage, mutations and cancer. DNA Repair, 2019, 83, 102673.	1.3	201
18	Microcolony Size Distribution Assay Enables High-Throughput Cell Survival Quantitation. Cell Reports, 2019, 26, 1668-1678.e4.	2.9	7

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19	The human gut bacterial genotoxin colibactin alkylates DNA. Science, 2019, 363, .	6.0	389
20	Antioxidants and selenocompounds inhibit 3,5-dimethylaminophenol toxicity to human urothelial cells. Arhiv Za Higijenu Rada I Toksikologiju, 2019, 70, 18-29.	0.4	7
21	Next generation high throughput DNA damage detection platform for genotoxic compound screening. Scientific Reports, 2018, 8, 2771.	1.6	77
22	Automated fluorescence intensity and gradient analysis enables detection of rare fluorescent mutant cells deep within the tissue of RaDR mice. Scientific Reports, 2018, 8, 12108.	1.6	7
23	Nitric oxide induced S-nitrosation causes base excision repair imbalance. DNA Repair, 2018, 68, 25-33.	1.3	17
24	Recombinant cells in the lung increase with age via de novo recombination events and clonal expansion. Environmental and Molecular Mutagenesis, 2017, 58, 135-145.	0.9	6
25	Towards precision prevention: Technologies for identifying healthy individuals with high risk of disease. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2017, 800-802, 14-28.	0.4	20
26	The development and validation of EpiCometâ€Chip, a modified highâ€throughput comet assay for the assessment of DNA methylation status. Environmental and Molecular Mutagenesis, 2017, 58, 508-521.	0.9	29
27	Pneumococcal Pneumolysin Induces DNA Damage and Cell Cycle Arrest. Scientific Reports, 2016, 6, 22972.	1.6	49
28	House dust miteâ€“induced asthma causes oxidative damage and DNA double-strand breaks in the lungs. Journal of Allergy and Clinical Immunology, 2016, 138, 84-96.e1.	1.5	111
29	Contributions of DNA repair and damage response pathways to the non-linear genotoxic responses of alkylating agents. Mutation Research - Reviews in Mutation Research, 2016, 767, 77-91.	2.4	36
30	Inflammation-Induced Cell Proliferation Potentiates DNA Damage-Induced Mutations In Vivo. PLoS Genetics, 2015, 11, e1004901.	1.5	120
31	Streptococcus pneumoniaesecretes hydrogen peroxide leading to DNA damage and apoptosis in lung cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3421-30.	3.3	115
32	Influenza infection induces host DNA damage and dynamic DNA damage responses during tissue regeneration. Cellular and Molecular Life Sciences, 2015, 72, 2973-2988.	2.4	62
33	Micropatterned comet assay enables high throughput and sensitive DNA damage quantification. Mutagenesis, 2015, 30, 11-19.	1.0	45
34	Rosa26-GFP Direct Repeat (RaDR-GFP) Mice Reveal Tissue- and Age-Dependence of Homologous Recombination in Mammals In Vivo. PLoS Genetics, 2014, 10, e1004299.	1.5	44
35	High-Throughput Screening Platform for Engineered Nanoparticle-Mediated Genotoxicity Using CometChip Technology. ACS Nano, 2014, 8, 2118-2133.	7.3	140
36	Cytoplasmic and nuclear toxicity of 3,5-dimethylaminophenol and potential protection by selenocompounds. Food and Chemical Toxicology, 2014, 72, 98-110.	1.8	15

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37	DNA glycosylase activity and cell proliferation are key factors in modulating homologous recombination in vivo. Carcinogenesis, 2014, 35, 2495-2502.	1.3	16
38	CometChip: A High-throughput 96-Well Platform for Measuring DNA Damage in Microarrayed Human Cells. Journal of Visualized Experiments, 2014, , e50607.	0.2	34
39	O21 â€•The role of DNA damage and repair in allergic airway inflammation. Clinical and Translational Allergy, 2014, 4, O21.	1.4	0
40	Molecular Analysis of Serum and Bronchoalveolar Lavage in a Mouse Model of Influenza Reveals Markers of Disease Severity That Can Be Clinically Useful in Humans. PLoS ONE, 2014, 9, e86912.	1.1	32
41	Single-cell microarray enables high-throughput evaluation of DNA double-strand breaks and DNA repair inhibitors. Cell Cycle, 2013, 12, 907-915.	1.3	63
42	Peptide targeting and imaging of damaged lung tissue in influenza-infected mice. Future Microbiology, 2013, 8, 257-269.	1.0	20
43	Standard fluorescent imaging of live cells is highly genotoxic. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 552-560.	1.1	47
44	Using the novel RADR mouse to visualize the effects of age and environment on DNA repair in vivo in multiple tissues. FASEB Journal, 2013, 27, 446.3.	0.2	0
45	DNA Damage after Continuous Irradiation: Yanch and Engelward Respond. Environmental Health Perspectives, 2012, 120, .	2.8	0
46	Genotoxicity of 2,6- and 3,5-Dimethylaniline in Cultured Mammalian Cells: The Role of Reactive Oxygen Species. Toxicological Sciences, 2012, 130, 48-59.	1.4	23
47	Major Shifts in the Spatio-Temporal Distribution of Lung Antioxidant Enzymes during Influenza Pneumonia. PLoS ONE, 2012, 7, e31494.	1.1	52
48	Radiation Dose-Rate: Engelward and Yanch Respond. Environmental Health Perspectives, 2012, 120, .	2.8	0
49	Visualizing homologous recombination and illustrating DNA repair pathway interaction in vivo via a bioengineered fluorescent reporter system. FASEB Journal, 2012, 26, 454.3.	0.2	0
50	p53 null Fluorescent Yellow Direct Repeat (FYDR) mice have normal levels of homologous recombination. DNA Repair, 2011, 10, 1294-1299.	1.3	11
51	XRCC1 and base excision repair balance in response to nitric oxide. DNA Repair, 2011, 10, 1282-1293.	1.3	46
52	Single cell trapping and DNA damage analysis using microwell arrays. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10008-10013.	3.3	235
53	The flap about ATM and MRE11. Cell Cycle, 2010, 9, 3156-3160.	1.3	2
54	Tissue-specific differences in the accumulation of sequence rearrangements with age. DNA Repair, 2008, 7, 694-703.	1.3	12

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55	Integrated one- and two-photon imaging platform reveals clonal expansion as a major driver of mutation load. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10314-10319.	3.3	15
56	Open Access to Research Is in the Public Interest. PLoS Biology, 2007, 5, e48.	2.6	5
57	DNA double-strand break repair: From mechanistic understanding to cancer treatment. DNA Repair, 2007, 6, 923-935.	1.3	550
58	Applications of Fluorescence for Detecting Rare Sequence Rearrangements In Vivo. Cell Cycle, 2006, 5, 2715-2719.	1.3	13
59	Threshold Effects of Nitric Oxide-Induced Toxicity and Cellular Responses in Wild-Type and p53-Null Human Lymphoblastoid Cells. Chemical Research in Toxicology, 2006, 19, 399-406.	1.7	66
60	Age-dependent accumulation of recombinant cells in the mouse pancreas revealed by in situ fluorescence imaging. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11862-11867.	3.3	41
61	Delineation of the Chemical Pathways Underlying Nitric Oxide-Induced Homologous Recombination in Mammalian Cells. Chemistry and Biology, 2005, 12, 357-369.	6.2	31
62	Interstrand crosslink-induced homologous recombination carries an increased risk of deletions and insertions. DNA Repair, 2005, 4, 594-605.	1.3	26
63	In vivo Recombination After Chronic Damage Exposure Falls to Below Spontaneous Levels in â€œRecombomiceâ€. Molecular Cancer Research, 2004, 2, 567-573.	1.5	17
64	Spontaneous mitotic homologous recombination at an enhanced yellow fluorescent protein (EYFP) cDNA direct repeat in transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6325-6330.	3.3	46
65	Base Excision Repair Intermediates Induce p53-independent Cytotoxic and Genotoxic Responses. Journal of Biological Chemistry, 2003, 278, 39951-39959.	1.6	162
66	Nitric Oxide-Induced Homologous Recombination in Escherichia coli Is Promoted by DNA Glycosylases. Journal of Bacteriology, 2002, 184, 3501-3507.	1.0	36
67	Recombinational Repair Is Critical for Survival of Escherichia coli Exposed to Nitric Oxide. Journal of Bacteriology, 2001, 183, 131-138.	1.0	67
68	A Chemical and Genetic Approach Together Define the Biological Consequences of 3-Methyladenine Lesions in the Mammalian Genome. Journal of Biological Chemistry, 1998, 273, 5412-5418.	1.6	115