

Bevin P Engelward

List of Publications by Year in descending order

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68
papers

3,477
citations

186209

28
h-index

143943

57
g-index

70
all docs

70
docs citations

70
times ranked

5155
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | DNA double-strand break repair: From mechanistic understanding to cancer treatment. <i>DNA Repair</i> , 2007, 6, 923-935. | 1.3 | 550 |
| 2 | The human gut bacterial genotoxin colibactin alkylates DNA. <i>Science</i> , 2019, 363, . | 6.0 | 389 |
| 3 | Single cell trapping and DNA damage analysis using microwell arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10008-10013. | 3.3 | 235 |
| 4 | Inflammation-induced DNA damage, mutations and cancer. <i>DNA Repair</i> , 2019, 83, 102673. | 1.3 | 201 |
| 5 | Base Excision Repair Intermediates Induce p53-independent Cytotoxic and Genotoxic Responses. <i>Journal of Biological Chemistry</i> , 2003, 278, 39951-39959. | 1.6 | 162 |
| 6 | High-Throughput Screening Platform for Engineered Nanoparticle-Mediated Genotoxicity Using CometChip Technology. <i>ACS Nano</i> , 2014, 8, 2118-2133. | 7.3 | 140 |
| 7 | Inflammation-Induced Cell Proliferation Potentiates DNA Damage-Induced Mutations In Vivo. <i>PLoS Genetics</i> , 2015, 11, e1004901. | 1.5 | 120 |
| 8 | A Chemical and Genetic Approach Together Define the Biological Consequences of 3-Methyladenine Lesions in the Mammalian Genome. <i>Journal of Biological Chemistry</i> , 1998, 273, 5412-5418. | 1.6 | 115 |
| 9 | <i>Streptococcus pneumoniae</i> secretes hydrogen peroxide leading to DNA damage and apoptosis in lung cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3421-30. | 3.3 | 115 |
| 10 | House dust mite-induced asthma causes oxidative damage and DNA double-strand breaks in the lungs. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 84-96.e1. | 1.5 | 111 |
| 11 | Next generation high throughput DNA damage detection platform for genotoxic compound screening. <i>Scientific Reports</i> , 2018, 8, 2771. | 1.6 | 77 |
| 12 | Recombinational Repair Is Critical for Survival of <i>Escherichia coli</i> Exposed to Nitric Oxide. <i>Journal of Bacteriology</i> , 2001, 183, 131-138. | 1.0 | 67 |
| 13 | Threshold Effects of Nitric Oxide-Induced Toxicity and Cellular Responses in Wild-Type and p53-Null Human Lymphoblastoid Cells. <i>Chemical Research in Toxicology</i> , 2006, 19, 399-406. | 1.7 | 66 |
| 14 | Single-cell microarray enables high-throughput evaluation of DNA double-strand breaks and DNA repair inhibitors. <i>Cell Cycle</i> , 2013, 12, 907-915. | 1.3 | 63 |
| 15 | Influenza infection induces host DNA damage and dynamic DNA damage responses during tissue regeneration. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 2973-2988. | 2.4 | 62 |
| 16 | Major Shifts in the Spatio-Temporal Distribution of Lung Antioxidant Enzymes during Influenza Pneumonia. <i>PLoS ONE</i> , 2012, 7, e31494. | 1.1 | 52 |
| 17 | Pneumococcal Pneumolysin Induces DNA Damage and Cell Cycle Arrest. <i>Scientific Reports</i> , 2016, 6, 22972. | 1.6 | 49 |
| 18 | Standard fluorescent imaging of live cells is highly genotoxic. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83A, 552-560. | 1.1 | 47 |

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|----|---|-----|-----------|
| 19 | Spontaneous mitotic homologous recombination at an enhanced yellow fluorescent protein (EYFP) cDNA direct repeat in transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6325-6330. | 3.3 | 46 |
| 20 | XRCC1 and base excision repair balance in response to nitric oxide. <i>DNA Repair</i> , 2011, 10, 1282-1293. | 1.3 | 46 |
| 21 | Micropatterned comet assay enables high throughput and sensitive DNA damage quantification. <i>Mutagenesis</i> , 2015, 30, 11-19. | 1.0 | 45 |
| 22 | Rosa26-GFP Direct Repeat (RaDR-GFP) Mice Reveal Tissue- and Age-Dependence of Homologous Recombination in Mammals In Vivo. <i>PLoS Genetics</i> , 2014, 10, e1004299. | 1.5 | 44 |
| 23 | Age-dependent accumulation of recombinant cells in the mouse pancreas revealed by in situ fluorescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11862-11867. | 3.3 | 41 |
| 24 | Nitric Oxide-Induced Homologous Recombination in Escherichia coli Is Promoted by DNA Glycosylases. <i>Journal of Bacteriology</i> , 2002, 184, 3501-3507. | 1.0 | 36 |
| 25 | Contributions of DNA repair and damage response pathways to the non-linear genotoxic responses of alkylating agents. <i>Mutation Research - Reviews in Mutation Research</i> , 2016, 767, 77-91. | 2.4 | 36 |
| 26 | CometChip: A High-throughput 96-Well Platform for Measuring DNA Damage in Microarrayed Human Cells. <i>Journal of Visualized Experiments</i> , 2014, , e50607. | 0.2 | 34 |
| 27 | 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. <i>PLoS ONE</i> , 2014, 9, e86912. | 1.1 | 32 |
| 28 | Delineation of the Chemical Pathways Underlying Nitric Oxide-Induced Homologous Recombination in Mammalian Cells. <i>Chemistry and Biology</i> , 2005, 12, 357-369. | 6.2 | 31 |
| 29 | The development and validation of EpiCometâ€Chip, a modified highâ€throughput comet assay for the assessment of DNA methylation status. <i>Environmental and Molecular Mutagenesis</i> , 2017, 58, 508-521. | 0.9 | 29 |
| 30 | Sensitive CometChip assay for screening potentially carcinogenic DNA adducts by trapping DNA repair intermediates. <i>Nucleic Acids Research</i> , 2020, 48, e13-e13. | 6.5 | 29 |
| 31 | Interstrand crosslink-induced homologous recombination carries an increased risk of deletions and insertions. <i>DNA Repair</i> , 2005, 4, 594-605. | 1.3 | 26 |
| 32 | Genotoxicity of 2,6- and 3,5-Dimethylaniline in Cultured Mammalian Cells: The Role of Reactive Oxygen Species. <i>Toxicological Sciences</i> , 2012, 130, 48-59. | 1.4 | 23 |
| 33 | K13-Mediated Reduced Susceptibility to Artemisinin in Plasmodium falciparum Is Overlaid on a Trait of Enhanced DNA Damage Repair. <i>Cell Reports</i> , 2020, 32, 107996. | 2.9 | 21 |
| 34 | Global Cancer Risk From Unregulated Polycyclic Aromatic Hydrocarbons. <i>GeoHealth</i> , 2021, 5, e2021GH000401. | 1.9 | 21 |
| 35 | Peptide targeting and imaging of damaged lung tissue in influenza-infected mice. <i>Future Microbiology</i> , 2013, 8, 257-269. | 1.0 | 20 |
| 36 | Towards precision prevention: Technologies for identifying healthy individuals with high risk of disease. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 800-802, 14-28. | 0.4 | 20 |

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|----|---|-----|-----------|
| 37 | The Parallel Transformations of Polycyclic Aromatic Hydrocarbons in the Body and in the Atmosphere. <i>Environmental Health Perspectives</i> , 2022, 130, 25004. | 2.8 | 19 |
| 38 | SpheroidChip: Patterned Agarose Microwell Compartments Harboring HepG2 Spheroids are Compatible with Genotoxicity Testing. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2427-2439. | 2.6 | 18 |
| 39 | Nitric oxide induced S-nitrosation causes base excision repair imbalance. <i>DNA Repair</i> , 2018, 68, 25-33. | 1.3 | 17 |
| 40 | A Modern Genotoxicity Testing Paradigm: Integration of the High-Throughput CometChip® and the TGx-DDI Transcriptomic Biomarker in Human HepaRG _h Cell Cultures. <i>Frontiers in Public Health</i> , 2021, 9, 694834. | 1.3 | 17 |
| 41 | <i>In vivo</i> Recombination After Chronic Damage Exposure Falls to Below Spontaneous Levels in <i>Recombomice</i> . <i>Molecular Cancer Research</i> , 2004, 2, 567-573. | 1.5 | 17 |
| 42 | DNA glycosylase activity and cell proliferation are key factors in modulating homologous recombination in vivo. <i>Carcinogenesis</i> , 2014, 35, 2495-2502. | 1.3 | 16 |
| 43 | Fluorescence Sheds Light on DNA Damage, DNA Repair, and Mutations. <i>Trends in Cancer</i> , 2021, 7, 240-248. | 3.8 | 16 |
| 44 | Excision of mutagenic replication-blocking lesions suppresses cancer but promotes cytotoxicity and lethality in nitrosamine-exposed mice. <i>Cell Reports</i> , 2021, 34, 108864. | 2.9 | 16 |
| 45 | Integrated one- and two-photon imaging platform reveals clonal expansion as a major driver of mutation load. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10314-10319. | 3.3 | 15 |
| 46 | Cytoplasmic and nuclear toxicity of 3,5-dimethylaminophenol and potential protection by selenocompounds. <i>Food and Chemical Toxicology</i> , 2014, 72, 98-110. | 1.8 | 15 |
| 47 | Applications of Fluorescence for Detecting Rare Sequence Rearrangements In Vivo. <i>Cell Cycle</i> , 2006, 5, 2715-2719. | 1.3 | 13 |
| 48 | Tissue-specific differences in the accumulation of sequence rearrangements with age. <i>DNA Repair</i> , 2008, 7, 694-703. | 1.3 | 12 |
| 49 | p53 null Fluorescent Yellow Direct Repeat (FYDR) mice have normal levels of homologous recombination. <i>DNA Repair</i> , 2011, 10, 1294-1299. | 1.3 | 11 |
| 50 | Applications of CometChip for Environmental Health Studies. <i>Chemical Research in Toxicology</i> , 2020, 33, 1528-1538. | 1.7 | 11 |
| 51 | CometChip analysis of human primary lymphocytes enables quantification of inter-individual differences in the kinetics of repair of oxidative DNA damage. <i>Free Radical Biology and Medicine</i> , 2021, 174, 89-99. | 1.3 | 10 |
| 52 | Automated fluorescence intensity and gradient analysis enables detection of rare fluorescent mutant cells deep within the tissue of RaDR mice. <i>Scientific Reports</i> , 2018, 8, 12108. | 1.6 | 7 |
| 53 | Microcolony Size Distribution Assay Enables High-Throughput Cell Survival Quantitation. <i>Cell Reports</i> , 2019, 26, 1668-1678.e4. | 2.9 | 7 |
| 54 | CometChip enables parallel analysis of multiple DNA repair activities. <i>DNA Repair</i> , 2021, 106, 103176. | 1.3 | 7 |

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|----|--|-----|-----------|
| 55 | Antioxidants and selenocompounds inhibit 3,5-dimethylaminophenol toxicity to human urothelial cells. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2019, 70, 18-29. | 0.4 | 7 |
| 56 | Recombinant cells in the lung increase with age via de novo recombination events and clonal expansion. <i>Environmental and Molecular Mutagenesis</i> , 2017, 58, 135-145. | 0.9 | 6 |
| 57 | Implications of an epidemiological study showing an association between in utero <scp>NDMA</scp> exposure and childhood cancer. <i>Environmental and Molecular Mutagenesis</i> , 2021, 62, 288-292. | 0.9 | 6 |
| 58 | Open Access to Research Is in the Public Interest. <i>PLoS Biology</i> , 2007, 5, e48. | 2.6 | 5 |
| 59 | Analysis of mutations in tumor and normal adjacent tissue via fluorescence detection. <i>Environmental and Molecular Mutagenesis</i> , 2021, 62, 108-123. | 0.9 | 3 |
| 60 | The flap about ATM and MRE11. <i>Cell Cycle</i> , 2010, 9, 3156-3160. | 1.3 | 2 |
| 61 | HTS-Compatible CometChip Enables Genetic Screening for Modulators of Apoptosis and DNA Double-Strand Break Repair. <i>SLAS Discovery</i> , 2020, 25, 906-922. | 1.4 | 2 |
| 62 | MalariaCometChip for high-throughput quantification of DNA damage in <i>Plasmodium falciparum</i> . <i>STAR Protocols</i> , 2021, 2, 100797. | 0.5 | 1 |
| 63 | DNA Damage after Continuous Irradiation: Yanch and Engelward Respond. <i>Environmental Health Perspectives</i> , 2012, 120, . | 2.8 | 0 |
| 64 | Radiation Dose-Rate: Engelward and Yanch Respond. <i>Environmental Health Perspectives</i> , 2012, 120, . | 2.8 | 0 |
| 65 | O21 •The role of DNA damage and repair in allergic airway inflammation. <i>Clinical and Translational Allergy</i> , 2014, 4, O21. | 1.4 | 0 |
| 66 | Visualizing homologous recombination and illustrating DNA repair pathway interaction in vivo via a bioengineered fluorescent reporter system. <i>FASEB Journal</i> , 2012, 26, 454.3. | 0.2 | 0 |
| 67 | Using the novel RADR mouse to visualize the effects of age and environment on DNA repair in vivo in multiple tissues. <i>FASEB Journal</i> , 2013, 27, 446.3. | 0.2 | 0 |
| 68 | Recombinant cell-detecting RaDR-GFP in mice reveals an association between genomic instability and radiation-induced-thymic lymphoma.. <i>American Journal of Cancer Research</i> , 2022, 12, 562-573. | 1.4 | 0 |