

Hironobu Ikehata

List of Publications by Year in descending order

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49
papers

1,423
citations

361413

20
h-index

330143

37
g-index

49
all docs

49
docs citations

49
times ranked

1560
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mechanisms of UV Mutagenesis. <i>Journal of Radiation Research</i> , 2011, 52, 115-125.	1.6	419
2	Age-associated increase of spontaneous mutant frequency and molecular nature of mutation in newborn and old lacZ-transgenic mouse. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 447, 165-177.	1.0	87
3	UVA1 Genotoxicity Is Mediated Not by Oxidative Damage but by Cyclobutane Pyrimidine Dimers in Normal Mouse Skin. <i>Journal of Investigative Dermatology</i> , 2008, 128, 2289-2296.	0.7	69
4	Roles of the KEAP1-NRF2 system in mammalian skin exposed to UV radiation. <i>Toxicology and Applied Pharmacology</i> , 2018, 360, 69-77.	2.8	50
5	UVA induces C>T transitions at methyl-CpG-associated dipyrimidine sites in mouse skin epidermis more frequently than UVB. <i>Mutagenesis</i> , 2003, 18, 511-519.	2.6	48
6	Spontaneous mutant frequency of lacZ gene in spleen of transgenic mouse increases with age. <i>Mutation Research - DNAging</i> , 1995, 338, 183-188.	3.2	42
7	Analysis of mutation spectra in UVB-exposed mouse skin epidermis and dermis: Frequent occurrence of C>T transition at methylated CpG-associated dipyrimidine sites. <i>Environmental and Molecular Mutagenesis</i> , 2003, 41, 280-292.	2.2	40
8	Mutation theory of aging, assessed in transgenic mice and knockout mice. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 1543-1552.	4.6	37
9	Significance of CpG Methylation for Solar UVA-induced Mutagenesis and Carcinogenesis in Skin. <i>Photochemistry and Photobiology</i> , 2006, 83, 196-204.	2.5	37
10	Spectrum of spontaneous mutations in a cDNA of the human hprt gene integrated in chromosomal DNA. <i>Molecular Genetics and Genomics</i> , 1989, 219, 349-358.	2.4	36
11	Absence of Mutagenic Effects of 2.45 GHz Radiofrequency Exposure in Spleen, Liver, Brain, and Testis of lacZ-Transgenic Mouse Exposed in Utero. <i>Tohoku Journal of Experimental Medicine</i> , 2004, 202, 93-103.	1.2	35
12	Mutation spectrum in sunlight-exposed mouse skin epidermis: small but appreciable contribution of oxidative stress-mediated mutagenesis. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2004, 556, 11-24.	1.0	34
13	Action Spectrum Analysis of UVR Genotoxicity for Skin: The Border Wavelengths between UVA and UVB Can Bring Serious Mutation Loads to Skin. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1850-1856.	0.7	34
14	Mechanistic considerations on the wavelength-dependent variations of UVR genotoxicity and mutagenesis in skin: the discrimination of UVA-signature from UV-signature mutation. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1861-1871.	2.9	30
15	Distribution of spontaneous CpG-associated G:C ? A:T mutations in the lacZ gene of Muta? mice: Effects of CpG methylation, the sequence context of CpG sites, and severity of mutations on the activity of the lacZ gene product. <i>Environmental and Molecular Mutagenesis</i> , 2000, 36, 301-311.	2.2	29
16	Nrf2 contributes to the weight gain of mice during space travel. <i>Communications Biology</i> , 2020, 3, 496.	4.4	27
17	Spontaneous Mutations in Digestive Tract of Old Mice Show Tissue-Specific Patterns of Genomic Instability. <i>Cancer Research</i> , 2004, 64, 6919-6923.	0.9	26
18	Mapping Psoralen Cross-Links at the Nucleotide Level in Mammalian Cells:â€% Suppression of Cross-Linking at Transcription Factor- or Nucleosome-Binding Sites. <i>Biochemistry</i> , 2001, 40, 4096-4105.	2.5	22

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19	Mutation induction with UVB in mouse skin epidermis is suppressed in acute high-dose exposure. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2002, 508, 41-47.	1.0	22
20	Mutation spectrum in UVB-exposed skin epidermis of Xpa-knockout mice: Frequent recovery of triplet mutations. <i>Environmental and Molecular Mutagenesis</i> , 2007, 48, 1-13.	2.2	22
21	Chromatin fine structure of the c- <i>MYC</i> insulator element/DNase I-hypersensitive site I is not preserved during mitosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15741-15746.	7.1	20
22	Influences of p53 deficiency on the apoptotic response, DNA damage removal and mutagenesis in UVB-exposed mouse skin. <i>Mutagenesis</i> , 2010, 25, 397-405.	2.6	20
23	Quantitative analysis of UV photolesions suggests that cyclobutane pyrimidine dimers produced in mouse skin by UVB are more mutagenic than those produced by UVC. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 404-413.	2.9	20
24	Mutation spectrum in UVB-exposed skin epidermis of a mildly-affected Xpg-deficient mouse. <i>Environmental and Molecular Mutagenesis</i> , 2006, 47, 107-116.	2.2	19
25	Solar-UV-signature mutation prefers TCG to CCG: extrapolative consideration from UVA1-induced mutation spectra in mouse skin. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1319-1327.	2.9	18
26	X-Ray- and Ultraviolet-Radiation-Induced Mutations in Muta α Mouse. <i>Radiation Research</i> , 1997, 148, 123.	1.5	17
27	Remarkable induction of UV-signature mutations at the 3 α -cytosine of dipyrimidine sites except at 5 α -TCG-3 α in the UVB-exposed skin epidermis of xeroderma pigmentosum variant model mice. <i>DNA Repair</i> , 2014, 22, 112-122.	2.8	16
28	Thermolysin improves mutation analysis in skin epidermis from ultraviolet light-irradiated Muta α Mouse. <i>Environmental and Molecular Mutagenesis</i> , 2001, 38, 55-58.	2.2	14
29	Frequent recovery of triplet mutations in UVB-exposed skin epidermis of Xpc-knockout mice. <i>DNA Repair</i> , 2007, 6, 82-93.	2.8	14
30	Wavelength- and Tissue- dependent Variations in the Mutagenicity of Cyclobutane Pyrimidine Dimers in Mouse Skin. <i>Photochemistry and Photobiology</i> , 2020, 96, 94-104.	2.5	14
31	3'-Blocking Damage of DNA as a Mutagenic Lesion Caused by Hydrogen Peroxide in <i>Escherichia coli</i> . <i>Journal of Radiation Research</i> , 1998, 39, 137-144.	1.6	12
32	Antigenotoxic effects of <i>p53</i> on spontaneous and ultraviolet light B-induced deletions in the epidermis of <i>gpt</i> delta transgenic mice. <i>Environmental and Molecular Mutagenesis</i> , 2011, 52, 244-252.	2.2	10
33	<i>In Vivo</i> Spectrum of UVC-induced Mutation in Mouse Skin Epidermis May Reflect the Cytosine Deamination Propensity of Cyclobutane Pyrimidine Dimers. <i>Photochemistry and Photobiology</i> , 2015, 91, 1488-1496.	2.5	10
34	A model for triplet mutation formation based on error-prone translesional DNA synthesis opposite UV photolesions. <i>DNA Repair</i> , 2007, 6, 658-668.	2.8	9
35	Absence of <i>Ku70</i> Gene Obliterates X-Ray-Induced <i>lacZ</i> Mutagenesis of Small Deletions in Mouse Tissues. <i>Radiation Research</i> , 2008, 170, 216-223.	1.5	9
36	XPC is involved in genome maintenance through multiple pathways in different tissues. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009, 670, 24-31.	1.0	9

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37	Molecular nature of mutations induced by irradiation with repeated low doses of X-rays in spleen, liver, brain and testis of lacZ-transgenic mice. <i>International Journal of Radiation Biology</i> , 2003, 79, 635-641.	1.8	8
38	The Maintenance of Genome Integrity is Tissue-Specific. <i>Genes and Environment</i> , 2006, 28, 16-22.	2.1	8
39	Shuttle vector system for the analysis of mutational events in mammalian chromosomal DNA. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1989, 210, 237-247.	1.0	7
40	Fully functional global genome repair of (6-4) photoproducts and compromised transcription-coupled repair of cyclobutane pyrimidine dimers in condensed mitotic chromatin. <i>Experimental Cell Research</i> , 2012, 318, 623-631.	2.6	6
41	Role of the Msh2 gene in genome maintenance and development in mouse fetuses. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 734, 50-55.	1.0	3
42	Skin can control solar UVR-induced mutations through the epidermis-specific response of mutation induction suppression. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 2008.	2.9	3
43	Seasonal Differences in the UVA/UVB Ratio of Natural Sunlight Influence the Efficiency of the Photoisomerization of (6-4) Photoproducts into their Dewar Valence Isomers. <i>Photochemistry and Photobiology</i> , 2021, 97, 582-588.	2.5	3
44	A phosphatidylinositol 3-kinase inhibitor wortmannin induces radioresistant DNA synthesis and sensitizes cells to bleomycin and ionizing radiation. <i>International Journal of Cancer</i> , 1998, 78, 642-647.	5.1	3
45	Comparison of DNA Polymerases .ALPHA., .DELTA., and .EPSILON. of Mouse Cell Line FM3A and Its Temperature-Sensitive Mutant tsFT20.. <i>Tohoku Journal of Experimental Medicine</i> , 1994, 172, 65-81.	1.2	2
46	Effects of calorie restriction on the age-dependent accumulation of mutations in the small intestine of lacZ-transgenic mice. <i>Mechanisms of Ageing and Development</i> , 2011, 132, 117-122.	4.6	2
47	Cyclobutane Pyrimidine Dimers Produced with Narrowband UVB Are on Average More Mutagenic than Those with Broadband UVB in Mouse Skin. <i>Photochemistry and Photobiology</i> , 2022, 98, 916-924.	2.5	1
48	Characteristics of mutations generated through digestion with restriction enzyme and ligation in plasmid DNA. <i>Environmental and Molecular Mutagenesis</i> , 2001, 38, 46-54.	2.2	0
49	Tissue-specificity of age-dependent accumulation of mutations in digestive tract of mouse. <i>Geriatrics and Gerontology International</i> , 2004, 4, S135-S136.	1.5	0