Paul E Hasty

List of Publications by Year
in descending order

89 papers	6,734 citations	117571 34 h-index	60583 81 g-index
90 all docs	90 docs citations	90 times ranked	7225 citing authors

#	Article	IF	Citations
1	Muscle deficiency and neonatal death in mice with a targeted mutation in the myogenin gene. Nature, 1993, 364, 501-506.	13.7	1,184
2	Embryonic lethality and radiation hypersensitivity mediated by Rad51 in mice lacking Brca2. Nature, 1997, 386, 804-810.	13.7	995
3	Aging and Genome Maintenance: Lessons from the Mouse?. Science, 2003, 299, 1355-1359.	6.0	538
4	Ku86-Deficient Mice Exhibit Severe Combined Immunodeficiency and Defective Processing of V(D)J Recombination Intermediates. Cell, 1996, 86, 379-389.	13.5	413
5	Introduction of a subtle mutation into the Hox-2.6 locus in embryonic stem cells. Nature, 1991, 350, 243-246.	13.7	354
6	ERCC1-XPF Endonuclease Facilitates DNA Double-Strand Break Repair. Molecular and Cellular Biology, 2008, 28, 5082-5092.	1.1	268
7	Ku is a 5â€²-dRP/AP lyase that excises nucleotide damage near broken ends. Nature, 2010, 464, 1214-1217.	13.7	171
8	Analysis of ku80 -Mutant Mice and Cells with Deficient Levels of p53. Molecular and Cellular Biology, 2000, 20, 3772-3780.	1.1	160
9	Targeted Mutation in Î²1,4-Galactosyltransferase Leads to Pituitary Insufficiency and Neonatal Lethality. Developmental Biology, 1997, 181, 257-267.	0.9	152
10	Deletion of Ku70, Ku80, or Both Causes Early Aging without Substantially Increased Cancer. Molecular and Cellular Biology, 2007, 27, 8205-8214.	1.1	135
11	A severe phenotype in mice with a duplication of exon 3 in the cystic fibrosis locus. Human Molecular Genetics, 1993, 2, 1561-1569.	1.4	118
12	Chronic <scp>mTOR</scp> inhibition in mice with rapamycin alters <scp>T</scp>,<scp> B</scp>, myeloid, and innate lymphoid cells and gut flora and prolongs life of immuneâ€deficient mice. Aging Cell, 2015, 14, 945-956.	3.0	94
13	Deletion ofBrca2 exon 27 causes hypersensitivity to DNA crosslinks, chromosomal instability, and reduced life span in mice. Genes Chromosomes and Cancer, 2003, 36, 317-331.	1.5	92
14	Rapamycin extends life span of Rb1+/âˆ’ mice by inhibiting neuroendocrine tumors. Aging, 2013, 5, 100-110.	1.4	80
15	Broad segmental progeroid changes in short-lived <i>Ercc1</i> ^{âˆ’/Î”7} mice. Pathobiology of Aging & Age Related Diseases, 2011, 1, 7219.	1.1	79
16	mTORC1 and p53. Cell Cycle, 2013, 12, 20-25.	1.3	79
17	Limiting the Persistence of a Chromosome Break Diminishes Its Mutagenic Potential. PLoS Genetics, 2009, 5, e1000683.	1.5	77
18	Modifying the Mouse: Design and Desire. Nature Biotechnology, 1992, 10, 534-539.	9.4	72

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19	DNA double-strand breaks: A potential causative factor for mammalian aging?. Mechanisms of Ageing and Development, 2008, 129, 416-424.	2.2	72
20	Accelerating aging by mouse reverse genetics: a rational approach to understanding longevity. Aging Cell, 2004, 3, 55-65.	3.0	71
21	eRapa Restores a Normal Life Span in a FAP Mouse Model. Cancer Prevention Research, 2014, 7, 169-178.	0.7	63
22	Correction of chromosomal mutation and random integration in embryonic stem cells with helper-dependent adenoviral vectors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13628-13633.	3.3	61
23	Chromosomal rearrangements in cancer. Molecular and Cellular Oncology, 2014, 1, e29904.	0.3	56
24	Mouse Cofactor of BRCA1 (Cobra1) Is Required for Early Embryogenesis. PLoS ONE, 2009, 4, e5034.	1.1	55
25	Adaptive Stress Response in Segmental Progeria Resembles Long-Lived Dwarfism and Calorie Restriction in Mice. PLoS Genetics, 2006, 2, e192.	1.5	53
26	<scp>DNA</scp> damage in normally and prematurely aged mice. Aging Cell, 2013, 12, 467-477.	3.0	50
27	AGING: Genomic Priorities in Aging. Science, 2002, 296, 1250-1251.	6.0	47
28	p53 as an intervention target for cancer and aging. Pathobiology of Aging & Age Related Diseases, 2013, 3, 22702.	1.1	47
29	RAD51 Mutants Cause Replication Defects and Chromosomal Instability. Molecular and Cellular Biology, 2012, 32, 3663-3680.	1.1	46
30	Deficiency in the DNA repair protein ERCC1 triggers a link between senescence and apoptosis in human fibroblasts and mouse skin. Aging Cell, 2020, 19, e13072.	3.0	41
31	Severe phenotype in mice with termination mutation in exon 2 of cystic fibrosis gene. Somatic Cell and Molecular Genetics, 1995, 21, 177-187.	0.7	39
32	Non-homologous end joining, but not homologous recombination, enables survival for cells exposed to a histone deacetylase inhibitor. Nucleic Acids Research, 2005, 33, 5320-5330.	6.5	39
33	Two replication fork maintenance pathways fuse inverted repeats to rearrange chromosomes. Nature, 2013, 501, 569-572.	13.7	39
34	RECQL5 and BLM exhibit divergent functions in cells defective for the Fanconi anemia pathway. Nucleic Acids Research, 2015, 43, 893-903.	6.5	39
35	Gene targeting in mouse embryonic stem cells with an adenoviral vector. Somatic Cell and Molecular Genetics, 1995, 21, 221-231.	0.7	36
36	DNAâ€PK suppresses a p53â€independent apoptotic response to DNA damage. EMBO Reports, 2009, 10, 87-93.	2.0	35

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37	Myelodysplastic syndrome: An inability to appropriately respond to damaged DNA?. Experimental Hematology, 2013, 41, 665-674.	0.2	35
38	The impact of DNA damage, genetic mutation and cellular responses on cancer prevention, longevity and aging: observations in humans and mice. Mechanisms of Ageing and Development, 2005, 126, 71-77.	2.2	33
39	Biochemical and cellular characteristics of the 3' -> 5' exonuclease TREX2. Nucleic Acids Research, 2007, 35, 2682-2694.	6.5	33
40	p53 and rapamycin are additive. Oncotarget, 2015, 6, 15802-15813.	0.8	29
41	Disruption of the Gi2Î± locus in embryonic stem cells and mice: a modified hit and run strategy with detection by a PCR dependent on gap repair. Transgenic Research, 1993, 2, 345-355.	1.3	27
42	The impact energy metabolism and genome maintenance have on longevity and senescence: lessons from yeast to mammals. Mechanisms of Ageing and Development, 2001, 122, 1651-1662.	2.2	26
43	Embryonic stem cells deficient for Brca2 or Blm exhibit divergent genotoxic profiles that support opposing activities during homologous recombination. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2006, 602, 110-120.	0.4	24
44	Extended longevity mechanisms in short-lived progeroid mice: Identification of a preservative stress response associated with successful aging. Mechanisms of Ageing and Development, 2007, 128, 58-63.	2.2	24
45	Deletion of BRCA2 exon 27 causes defects in response to both stalled and collapsed replication forks. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2014, 766-767, 66-72.	0.4	24
46	A genotoxic screen: rapid analysis of cellular doseâ€“response to a wide range of agents that either damage DNA or alter genome maintenance pathways. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 554, 253-266.	0.4	23
47	Ku80 Deletion Suppresses Spontaneous Tumors and Induces a p53-Mediated DNA Damage Response. Cancer Research, 2008, 68, 9497-9502.	0.4	23
48	Deletion of Ku80 causes early aging independent of chronic inflammation and Rag-1-induced DSBs. Mechanisms of Ageing and Development, 2007, 128, 601-608.	2.2	22
49	Potential Relationship between Inadequate Response to DNA Damage and Development of Myelodysplastic Syndrome. International Journal of Molecular Sciences, 2015, 16, 966-989.	1.8	22
50	Rapamycin Extends Life Span in Apc Colon Cancer FAP Model. Clinical Colorectal Cancer, 2021, 20, e61-e70.	1.0	22
51	Persistent NF-Î°B activation in muscle stem cells induces proliferation-independent telomere shortening. Cell Reports, 2021, 35, 109098.	2.9	22
52	Deletion of Individual Ku Subunits in Mice Causes an NHEJ-Independent Phenotype Potentially by Altering Apurinic/Apyrimidinic Site Repair. PLoS ONE, 2014, 9, e86358.	1.1	21
53	Cisplatin Depletes TREX2 and Causes Robertsonian Translocations as Seen in TREX2 Knockout Cells. Cancer Research, 2007, 67, 9077-9083.	0.4	18
54	Is NHEJ a tumor suppressor or an aging suppressor?. Cell Cycle, 2008, 7, 1139-1145.	1.3	18

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55	Prevention of Carcinogen and Inflammation-Induced Dermal Cancer by Oral Rapamycin Includes Reducing Genetic Damage. Cancer Prevention Research, 2015, 8, 400-409.	0.7	18
56	Rapamycin: The Cure for all that Ails. Journal of Molecular Cell Biology, 2010, 2, 17-19.	1.5	17
57	Acarbose improved survival for <i>Apc^{+/Min}</i> mice. Aging Cell, 2020, 19, e13088.	3.0	17
58	Gene conversion during vector insertion in embryonic stem cells. Nucleic Acids Research, 1995, 23, 2058-2064.	6.5	16
59	Temporal, Spatial and Tissue-Specific Expression of a Myogenin-lacZ Transgene Targeted to the Hprt Locus in Mice. BioTechniques, 1999, 27, 154-163.	0.8	16
60	Rebuttal to Miller: 'Accelerated aging': a primrose path to insight?'. Aging Cell, 2004, 3, 67-69.	3.0	16
61	Aging and p53: getting it straight A commentary on a recent paper by Gentry and Venkatachalam. Aging Cell, 2005, 4, 331-333.	3.0	16
62	A mechanism for 1,4-Benzoquinone-induced genotoxicity. Oncotarget, 2016, 7, 46433-46447.	0.8	16
63	TREX2 exonuclease defective cells exhibit double-strand breaks and chromosomal fragments but not Robertsonian translocations. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 662, 84-87.	0.4	15
64	Trex2 Enables Spontaneous Sister Chromatid Exchanges Without Facilitating DNA Double-Strand Break Repair. Genetics, 2011, 188, 787-797.	1.2	15
65	Ku80-deleted cells are defective at base excision repair. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 745-746, 16-25.	0.4	15
66	Genetic Manipulation of the Mouse VIA Gene Targeting in Embryonic Stem Cells. Novartis Foundation Symposium, 1992, 165, 256-276.	1.2	14
67	Effect of Ku80 Deficiency on Mutation Frequencies and Spectra at a LacZ Reporter Locus in Mouse Tissues and Cells. PLoS ONE, 2008, 3, e3458.	1.1	13
68	The Progeroid Phenotype of Ku80 Deficiency Is Dominant over DNA-PKCS Deficiency. PLoS ONE, 2014, 9, e93568.	1.1	13
69	Distinct roles of XPF-ERCC1 and Rad1-Rad10-Saw1 in replication-coupled and uncoupled inter-strand crosslink repair. Nature Communications, 2018, 9, 2025.	5.8	13
70	HPRT minigene generates chimeric transcripts as a by-product of gene targeting. Genesis, 2007, 45, 275-281.	0.8	12
71	The phenotype of FancB-mutant mouse embryonic stem cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 712, 20-27.	0.4	12
72	Adaptations to chronic rapamycin in mice. Pathobiology of Aging & Age Related Diseases, 2016, 6, 31688.	1.1	12

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73	Musashi1 Contribution to Glioblastoma Development via Regulation of a Network of DNA Replication, Cell Cycle and Division Genes. Cancers, 2021, 13, 1494.	1.7	9
74	Homologous recombination defects and how they affect replication fork maintenance. AIMS Genetics, 2018, 05, 192-211.	1.9	9
75	Highâ€throughput knockâ€in coupling gene targeting with the <i>HPRT</i> minigene and Creâ€mediated recombination. Genesis, 2008, 46, 732-737.	0.8	8
76	Do p53 stress responses impact organismal aging?. Translational Cancer Research, 2016, 5, 685-691.	0.4	8
77	Targeting of the Gi2Î± Gene in es cells with Replacement and Insertion Vectors. Journal of Receptors and Signal Transduction, 1993, 13, 619-637.	1.2	7
78	Sex-dependent lifespan extension of ApcMin/+ FAP mice by chronic mTOR inhibition. Aging Pathobiology and Therapeutics, 2020, 2, 187-194.	0.3	7
79	TREX2 Exonuclease Causes Spontaneous Mutations and Stress-Induced Replication Fork Defects in Cells Expressing RAD51K133A. Cell Reports, 2020, 33, 108543.	2.9	5
80	High Preservation of CpG Cytosine Methylation Patterns at Imprinted Gene Loci in Liver and Brain of Aged Mice. PLoS ONE, 2013, 8, e73496.	1.1	4
81	Mouse Models of Accelerated Aging. , 2006, , 601-618.		2
82	Defining a genotoxic profile with mouse embryonic stem cells. Experimental Biology and Medicine, 2013, 238, 285-293.	1.1	2
83	Unlike p53, p27 failed to exhibit an anti-tumor genetic interaction with Ku80. Cell Cycle, 2009, 8, 2463-2466.	1.3	1
84	Oneâ€step knockin for inducible expression in mouse embryonic stem cells. Genesis, 2011, 49, 92-97.	0.8	1
85	mTOR, Aging, and Cancer: A Dangerous Link. , 2016, , 277-292.		1
86	Trex2 responds to damaged replication forks in diverse ways. Molecular and Cellular Oncology, 2021, 8, 1881394.	0.3	1
87	High-Throughput Inducible Expression of Transgenes at the Hprt Gene in Mouse Embryonic Stem Cells. BioTechniques, 2003, 34, 462-468.	0.8	0
88	Editorial. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2016, 788, 1.	0.4	0
89	Longevity Assurance by Genome Maintenance. , 2013, , 25-62.		0