Fabrizio dâ€Adda di Fagagna

List of Publications by Year
in descending order

90 papers	18,317 citations	38660 50 h-index	45213 90 g-index
98 all docs	98 docs citations	98 times ranked	20410 citing authors

#	Article	IF	Citations
1	Cellular senescence: when bad things happen to good cells. Nature Reviews Molecular Cell Biology, 2007, 8, 729-740.	16.1	3,502
2	A DNA damage checkpoint response in telomere-initiated senescence. Nature, 2003, 426, 194-198.	13.7	2,381
3	Oncogene-induced senescence is a DNA damage response triggered by DNA hyper-replication. Nature, 2006, 444, 638-642.	13.7	1,576
4	Chemokine Signaling via the CXCR2 Receptor Reinforces Senescence. Cell, 2008, 133, 1006-1018.	13.5	1,446
5	Living on a break: cellular senescence as a DNA-damage response. Nature Reviews Cancer, 2008, 8, 512-522.	12.8	866
6	Cellular senescence in ageing: from mechanisms to therapeutic opportunities. Nature Reviews Molecular Cell Biology, 2021, 22, 75-95.	16.1	812
7	Telomeric DNA damage is irreparable and causes persistent DNA-damage-response activation. Nature Cell Biology, 2012, 14, 355-365.	4.6	646
8	Site-specific DICER and DROSHA RNA products control the DNA-damage response. Nature, 2012, 488, 231-235.	13.7	460
9	Human cell senescence as a DNA damage response. Mechanisms of Ageing and Development, 2005, 126, 111-117.	2.2	383
10	Interplay between oncogene-induced DNA damage response and heterochromatin in senescence and cancer. Nature Cell Biology, 2011, 13, 292-302.	4.6	294
11	Damage-induced lncRNAs control the DNA damage response through interaction with DDRNAs at individual double-strand breaks. Nature Cell Biology, 2017, 19, 1400-1411.	4.6	288
12	Identification of a DNA Nonhomologous End-Joining Complex in Bacteria. Science, 2002, 297, 1686-1689.	6.0	284
13	Effects of DNA nonhomologous end-joining factors on telomere length and chromosomal stability in mammalian cells. Current Biology, 2001, 11, 1192-1196.	1.8	260
14	Oncogene-induced reactive oxygen species fuel hyperproliferation and DNA damage response activation. Cell Death and Differentiation, 2014, 21, 998-1012.	5.0	254
15	Functional links between telomeres and proteins of the DNA-damage response. Genes and Development, 2004, 18, 1781-1799.	2.7	244
16	Functional transcription promoters at DNA double-strand breaks mediate RNA-driven phase separation of damage-response factors. Nature Cell Biology, 2019, 21, 1286-1299.	4.6	233
17	Functions of poly(ADP-ribose) polymerase in controlling telomere length and chromosomal stability. Nature Genetics, 1999, 23, 76-80.	9.4	218
18	Oncogene-induced telomere dysfunction enforces cellular senescence in human cancer precursor lesions. EMBO Journal, 2012, 31, 2839-2851.	3.5	200

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19	Telomere dysfunction in ageing and age-related diseases. Nature Cell Biology, 2022, 24, 135-147.	4.6	194
20	Crosstalk between chromatin state and DNA damage response in cellular senescence and cancer. Nature Reviews Cancer, 2012, 12, 709-720.	12.8	181
21	Interaction of HIV-1 Tat Protein with Heparin. Journal of Biological Chemistry, 1997, 272, 11313-11320.	1.6	179
22	BRCA2 controls DNA:RNA hybrid level at DSBs by mediating RNase H2 recruitment. Nature Communications, 2018, 9, 5376.	5.8	176
23	Activation of transcription factor NF-kappaB by the Tat protein of human immunodeficiency virus type 1. Journal of Virology, 1996, 70, 4427-4437.	1.5	136
24	A direct role for small non-coding RNAs in DNA damage response. Trends in Cell Biology, 2014, 24, 171-178.	3.6	114
25	Stable Cellular Senescence Is Associated with Persistent DDR Activation. PLoS ONE, 2014, 9, e110969.	1.1	110
26	Irreparable telomeric DNA damage and persistent DDR signalling as a shared causative mechanism of cellular senescence and ageing. Current Opinion in Genetics and Development, 2014, 26, 89-95.	1.5	106
27	Cellular senescence: hot or what?. Current Opinion in Genetics and Development, 2009, 19, 25-31.	1.5	103
28	DICER, DROSHA and DNA damage-response RNAs are necessary for the secondary recruitment of DNA damage response factors. Journal of Cell Science, 2016, 129, 1468-76.	1.2	99
29	SASPense and DDRama in cancer and ageing. Nature Cell Biology, 2009, 11, 921-923.	4.6	96
30	Cleavage and Inactivation of ATM during Apoptosis. Molecular and Cellular Biology, 1999, 19, 6076-6084.	1.1	95
31	A human binding site for transcription factor USF/MLTF mimics the negative regulatory element of human immunodeficiency virus type 1. Virology, 1992, 186, 133-147.	1.1	94
32	A damaged genomeâ€™s transcriptional landscape through multilayered expression profiling around in situ-mapped DNA double-strand breaks. Nature Communications, 2017, 8, 15656.	5.8	89
33	Inhibition of DNA damage response at telomeres improves the detrimental phenotypes of Hutchinsonâ€"Gilford Progeria Syndrome. Nature Communications, 2019, 10, 4990.	5.8	85
34	Yeast Nhp6A/B and Mammalian Hmgb1 Facilitate the Maintenance of Genome Stability. Current Biology, 2005, 15, 68-72.	1.8	84
35	DNA Damage in Mammalian Neural Stem Cells Leads to Astrocytic Differentiation Mediated by BMP2 Signaling through JAK-STAT. Stem Cell Reports, 2013, 1, 123-138.	2.3	79
36	Polycomb proteins control proliferation and transformation independently of cell cycle checkpoints by regulating DNA replication. Nature Communications, 2014, 5, 3649.	5.8	79

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37	Expression of H-RASV12 in a zebrafish model of Costello syndrome causes cellular senescence in adult proliferating cells. DMM Disease Models and Mechanisms, 2009, 2, 56-67.	1.2	77
38	The Gam protein of bacteriophage Mu is an orthologue of eukaryotic Ku. EMBO Reports, 2003, 4, 47-52.	2.0	76
39	DNA damage response activation in mouse embryonic fibroblasts undergoing replicative senescence and following spontaneous immortalization. Cell Cycle, 2008, 7, 3601-3606.	1.3	76
40	DNA damage response inhibition at dysfunctional telomeres by modulation of telomeric DNA damage response RNAs. Nature Communications, 2017, 8, 13980.	5.8	76
41	Complex engagement of DNA damage response pathways in human cancer and in lung tumor progression. Carcinogenesis, 2007, 28, 2082-2088.	1.3	74
42	Breaking news: high-speed race ends in arrest â€“ how oncogenes induce senescence. Trends in Cell Biology, 2007, 17, 529-536.	3.6	73
43	Notch is a direct negative regulator of the DNA-damage response. Nature Structural and Molecular Biology, 2015, 22, 417-424.	3.6	68
44	Differential regulation of DNA damage response activation between somatic and germline cells in Caenorhabditis elegans. Cell Death and Differentiation, 2012, 19, 1847-1855.	5.0	65
45	Telomerase abrogates aneuploidyâ€induced telomere replication stress, senescence and cell depletion. EMBO Journal, 2015, 34, 1371-1384.	3.5	65
46	From â€œCellularâ€• RNA to â€œSmartâ€• RNA: Multiple Roles of RNA in Genome Stability and Beyond. Chemical Reviews, 2018, 118, 4365-4403.	23.0	63
47	Is cellular senescence an example of antagonistic pleiotropy?. Aging Cell, 2012, 11, 378-383.	3.0	62
48	Activation of the DNA Damage Response by Telomere Attrition: A Passage to Cellular Senescence. Cell Cycle, 2004, 3, 541-544.	1.3	61
49	Terminally differentiated astrocytes lack DNA damage response signaling and are radioresistant but retain DNA repair proficiency. Cell Death and Differentiation, 2012, 19, 582-591.	5.0	58
50	A novel single-cell method provides direct evidence of persistent DNA damage in senescent cells and aged mammalian tissues. Aging Cell, 2017, 16, 422-427.	3.0	56
51	Molecular and functional interactions of transcription factor USF with the long terminal repeat of human immunodeficiency virus type 1. Journal of Virology, 1995, 69, 2765-2775.	1.5	54
52	NOTCH1 Inhibits Activation of ATM by Impairing the Formation of an ATM-FOXO3a-KAT5/Tip60 Complex. Cell Reports, 2016, 16, 2068-2076.	2.9	53
53	Transcription and DNA Damage: Holding Hands or Crossing Swords?. Journal of Molecular Biology, 2017, 429, 3215-3229.	2.0	52
54	Telomere and Telomerase Modulation by the Mammalian Rad9/Rad1/Hus1 DNA-Damage-Checkpoint Complex. Current Biology, 2006, 16, 1551-1558.	1.8	50

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55	Pharmacological boost of DNA damage response and repair by enhanced biogenesis of DNA damage response RNAs. Scientific Reports, 2019, 9, 6460.	1.6	49
56	Telomere transcription in ageing. Ageing Research Reviews, 2020, 62, 101115.	5.0	44
57	MRE11-RAD50-NBS1 Complex Is Sufficient to Promote Transcription by RNA Polymerase II at Double-Strand Breaks by Melting DNA Ends. Cell Reports, 2021, 34, 108565.	2.9	43
58	Human replication protein Cdc6 is selectively cleaved by caspase 3 during apoptosis. EMBO Reports, 2002, 3, 780-784.	2.0	39
59	Recent Advancements in DNA Damageâ€“Transcription Crosstalk and High-Resolution Mapping of DNA Breaks. Annual Review of Genomics and Human Genetics, 2017, 18, 87-113.	2.5	37
60	DNA Damage Triggers a New Phase in Neurodegeneration. Trends in Genetics, 2021, 37, 337-354.	2.9	37
61	Epigenetic alterations associated with cellular senescence: A barrier against tumorigenesis or a red carpet for cancer?. Seminars in Cancer Biology, 2011, 21, 360-366.	4.3	35
62	<scp>RNA</scp> â€processing proteins regulate Mec1/ <scp>ATR</scp> activation by promoting generation of <scp>RPA</scp> â€coated ss <scp>DNA</scp>. EMBO Reports, 2015, 16, 221-231.	2.0	32
63	Telomere damage promotes vascular smooth muscle cell senescence and immune cell recruitment after vessel injury. Communications Biology, 2021, 4, 611.	2.0	32
64	Transcriptional and post-transcriptional regulation of the ionizing radiation response by ATM and p53. Scientific Reports, 2017, 7, 43598.	1.6	31
65	Express or repress? The transcriptional dilemma of damaged chromatin. FEBS Journal, 2017, 284, 2133-2147.	2.2	28
66	Neural stem cells exposed to BrdU lose their global DNA methylation and undergo astrocytic differentiation. Nucleic Acids Research, 2012, 40, 5332-5342.	6.5	26
67	Resection is responsible for loss of transcription around a double-strand break in Saccharomyces cerevisiae. ELife, 2015, 4, .	2.8	26
68	Cleavage of the Bloom's syndrome gene product during apoptosis by caspase-3 results in an impaired interaction with topoisomerase IIIalpha. Nucleic Acids Research, 2001, 29, 3172-3180.	6.5	25
69	Stimulation of the adenovirus major late promoter in vitro by transcription factor USF is enhanced by the adenovirus DNA binding protein. Journal of Virology, 1994, 68, 8288-8295.	1.5	25
70	Never-ageing cellular senescence. European Journal of Cancer, 2011, 47, 1616-1622.	1.3	24
71	DNA damage response at telomeres boosts the transcription of SARSâ€CoVâ€2 receptor ACE2 during aging. EMBO Reports, 2022, 23, e53658.	2.0	24
72	PREP1 tumor suppressor protects the late-replicating DNA by controlling its replication timing and symmetry. Scientific Reports, 2018, 8, 3198.	1.6	18

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73	The prolyl-isomerase PIN1 is essential for nuclear Lamin-B structure and function and protects heterochromatin under mechanical stress. Cell Reports, 2021, 36, 109694.	2.9	15
74	Need telomere maintenance? Call 911. Cell Division, 2007, 2, 3.	1.1	11
75	The cohesin complex prevents Myc-induced replication stress. Cell Death and Disease, 2017, 8, e2956-e2956.	2.7	11
76	BRCA1 deficiency specific base substitution mutagenesis is dependent on translesion synthesis and regulated by 53BP1. Nature Communications, 2022, 13, 226.	5.8	11
77	TGS1 mediates 2,2,7-trimethyl guanosine capping of the human telomerase RNA to direct telomerase dependent telomere maintenance. Nature Communications, 2022, 13, 2302.	5.8	11
78	Target-enrichment sequencing for detailed characterization of small RNAs. Nature Protocols, 2018, 13, 768-786.	5.5	9
79	DROSHA is recruited to DNA damage sites by the MRN complex to promote non-homologous end joining. Journal of Cell Science, 2021, 134, .	1.2	9
80	DNA Damage In Situ Ligation Followed by Proximity Ligation Assay (DI-PLA). Methods in Molecular Biology, 2019, 1896, 11-20.	0.4	8
81	Long non-coding RNA in the control of genome stability and cancer phenotypes. Non-coding RNA Investigation, 2018, 2, 13-13.	0.6	7
82	RNase A treatment and reconstitution with DNA damage response RNA in living cells as a tool to study the role of non-coding RNA in the formation of DNA damage response foci. Nature Protocols, 2019, 14, 1489-1508.	5.5	7
83	Cellular senescence and cellular longevity: Nearly 50Âyears on and still working on it. Experimental Cell Research, 2008, 314, 1907-1908.	1.2	6
84	NOTCH1 modulates activity of DNA-PKcs. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2018, 808, 20-27.	0.4	4
85	A Role for Human DNA Polymerase Î» in Alternative Lengthening of Telomeres. International Journal of Molecular Sciences, 2021, 22, 2365.	1.8	3
86	Human nuclear ARGONAUTE 2 interacts in vivo only with small RNAs and not with DNA. Cell Cycle, 2015, 14, 2001-2002.	1.3	2
87	Detection of Telomeric DNA:RNA Hybrids Using TeloDRIP-qPCR. International Journal of Molecular Sciences, 2020, 21, 9774.	1.8	1
88	Genetics and development. Current Opinion in Genetics and Development, 2002, 12, 621-627.	1.5	0
89	Cell biology. Current Opinion in Cell Biology, 2002, 14, 661-670.	2.6	0
90	In Vitro Detection of Long Noncoding RNA Generated from DNA Double-Strand Breaks. Methods in Molecular Biology, 2019, 2004, 209-219.	0.4	0