Jean SÃ©bastien Hoffmann

List of Publications by Year
in descending order

101 papers	3,809 citations	94415 37 h-index	138468 58 g-index
111 all docs	111 docs citations	111 times ranked	3806 citing authors

#	Article	IF	Citations
1	Overexpression of DNA polymerase Â in cell results in a mutator phenotype and a decreased sensitivity to anticancer drugs. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12586-12590.	7.1	179
2	DNA synthesis by Pol Î· promotes fragile site stability by preventing under-replicated DNA in mitosis. Journal of Cell Biology, 2013, 201, 395-408.	5.2	165
3	DNA polymeraseÎ¸ up-regulation is associated with poor survival in breast cancer, perturbs DNA replication, and promotes genetic instability. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13390-13395.	7.1	157
4	DNA polymerase beta bypasses in vitro a single d(GpG)-cisplatin adduct placed on codon 13 of the HRAS gene.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 5356-5360.	7.1	121
5	Proteomic Profiling Reveals a Specific Role for Translesion DNA Polymerase Î· in the Alternative Lengthening of Telomeres. Cell Reports, 2016, 17, 1858-1871.	6.4	113
6	Role of TLS DNA polymerases eta and kappa in processing naturally occurring structured DNA in human cells. Molecular Carcinogenesis, 2009, 48, 369-378.	2.7	107
7	Human DNA Polymerase Î· Is Required for Common Fragile Site Stability during Unperturbed DNA Replication. Molecular and Cellular Biology, 2009, 29, 3344-3354.	2.3	106
8	Overexpression of Claspin and Timeless protects cancer cells from replication stress in a checkpoint-independent manner. Nature Communications, 2019, 10, 910.	12.8	105
9	Mutator phenotype of BCRâ€‰â€“â€‰ABL transfected Ba/F3 cell lines and its association with enhanced expression of DNA polymerase Î². Oncogene, 1999, 18, 2676-2680.	5.9	96
10	A â€˜DNA replicationâ€™ signature of progression and negative outcome in colorectal cancer. Oncogene, 2010, 29, 876-887.	5.9	95
11	Deregulated DNA polymerase beta induces chromosome instability and tumorigenesis. Cancer Research, 2002, 62, 3511-4.	0.9	95
12	In vivo gene silencing in solid tumors by targeted electrically mediated siRNA delivery. Gene Therapy, 2007, 14, 752-759.	4.5	94
13	The DNA polymerase Â is required for the repair of non-compatible DNA double strand breaks by NHEJ in mammalian cells. Nucleic Acids Research, 2006, 34, 2998-3007.	14.5	90
14	MUS81 nuclease activity is essential for replication stress tolerance and chromosome segregation in BRCA2-deficient cells. Nature Communications, 2017, 8, 15983.	12.8	86
15	The p400/Tip60 ratio is critical for colorectal cancer cell proliferation through DNA damage response pathways. Oncogene, 2009, 28, 1506-1517.	5.9	85
16	Enhanced expression and activity of DNA polymerase Î² in human ovarian tumor cells: impact on sensitivity towards antitumor agents. Oncogene, 2001, 20, 6181-6187.	5.9	83
17	DNA replication stress response involving PLK1, CDC6, POLQ, RAD51 and CLASPIN upregulation prognoses the outcome of early/mid-stage non-small cell lung cancer patients. Oncogenesis, 2012, 1, e30-e30.	4.9	81
18	Up-regulation of the error-prone DNA polymerase {kappa} promotes pleiotropic genetic alterations and tumorigenesis. Cancer Research, 2005, 65, 325-30.	0.9	74

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19	A role for DNA polymerase Î¸ in the timing of DNA replication. Nature Communications, 2014, 5, 4285.	12.8	73
20	CHK1 as a therapeutic target to bypass chemoresistance in AML. Science Signaling, 2016, 9, ra90.	3.6	73
21	Overexpression of DNA polymerase Î²: a genomic instability enhancer process. FASEB Journal, 1999, 13, 1107-1111.	0.5	72
22	p210 BCR/ABL kinase regulates nucleotide excision repair (NER) and resistance to UV radiation. Blood, 2003, 102, 2632-2637.	1.4	69
23	DNA polymerase Î¹-dependent DNA synthesis at stalled replication forks is important for CHK1 activation. EMBO Journal, 2013, 32, 2172-2185.	7.8	60
24	A Role for DNA Polymerase Î² in Mutagenic UV Lesion Bypass. Journal of Biological Chemistry, 2002, 277, 50046-50053.	3.4	59
25	Localisation of human DNA polymerase Î¹ to replication foci. Journal of Cell Science, 2002, 115, 4413-4418.	2.0	56
26	Nucleotide excision repair DNA synthesis by excess DNA polymerase Î²: a potential source of genetic instability in cancer cells. FASEB Journal, 2000, 14, 1765-1774.	0.5	55
27	Bypass Replication of the Cisplatin-d(GpG) Lesion by Calf Thymus DNA Polymerase Î² and Human Immunodeficiency Virus Type I Reverse Transcriptase Is Highly Mutagenic. Journal of Biological Chemistry, 1996, 271, 15386-15392.	3.4	52
28	Modulation of Cellular Response to Cisplatin by a Novel Inhibitor of DNA Polymerase Î². Molecular Pharmacology, 2005, 67, 1485-1492.	2.3	52
29	The Human Specialized DNA Polymerases and Non-B DNA: Vital Relationships to Preserve Genome Integrity. Journal of Molecular Biology, 2013, 425, 4767-4781.	4.2	51
30	Mutagenicity and pausing of HIV reverse transcriptase during HIV plus-strand DNA synthesis. Nucleic Acids Research, 1994, 22, 47-52.	14.5	50
31	The UL8 Subunit of the Herpes Simplex Virus Type-1 DNA Helicase-Primase Optimizes Utilization of DNA Templates Covered by the Homologous Single-strand DNA-binding Protein ICP8. Journal of Biological Chemistry, 1996, 271, 21645-21651.	3.4	49
32	Involvement of DNA polymerase Î² in DNA replication and mutagenic consequences. Journal of Molecular Biology, 2002, 315, 1039-1047.	4.2	49
33	Involvement of DNA polymerase Î¼ in the repair of a specific subset of DNA double-strand breaks in mammalian cells. Nucleic Acids Research, 2007, 35, 3551-3560.	14.5	49
34	Upregulation of Error-Prone DNA Polymerases Beta and Kappa Slows Down Fork Progression Without Activating the Replication Checkpoint. Cell Cycle, 2007, 6, 471-477.	2.6	44
35	Fork-like DNA templates support bypass replication of lesions that block DNA synthesis on single-stranded templates. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 13766-13769.	7.1	42
36	Characterization of the Trypanosoma cruzi Rad51 gene and its role in recombination events associated with the parasite resistance to ionizing radiation. Molecular and Biochemical Parasitology, 2006, 149, 191-200.	1.1	42

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37	Adaptation to DNA damage and stimulation of genetic instability: the double-edged sword mammalian DNA polymerase Îº. Biochimie, 2005, 87, 637-646.	2.6	39
38	Characterization of promoter regulatory elements involved in downexpression of the DNA polymerase Îº in colorectal cancer. Oncogene, 2007, 26, 3387-3394.	5.9	38
39	Aberrant expression of alternative DNA polymerases: A source of mutator phenotype as well as replicative stress in cancer. Seminars in Cancer Biology, 2010, 20, 312-319.	9.6	36
40	HMG1 protein inhibits the translesion synthesis of the major DNA cisplatin adduct by cell extracts 1 1Edited by M. Yaniv. Journal of Molecular Biology, 1997, 270, 539-543.	4.2	33
41	The Protective Role of Dormant Origins in Response to Replicative Stress. International Journal of Molecular Sciences, 2018, 19, 3569.	4.1	32
42	Cyclin Kinase-independent role of p21CDKN1A in the promotion of nascent DNA elongation in unstressed cells. ELife, 2016, 5, .	6.0	31
43	Deregulated DNA polymerase Î² strengthens ionizing radiation-induced nucleotidic and chromosomal instabilities. Oncogene, 2002, 21, 2320-2327.	5.9	29
44	DNA polymerase beta from Trypanosoma cruzi is involved in kinetoplast DNA replication and repair of oxidative lesions. Molecular and Biochemical Parasitology, 2012, 183, 122-131.	1.1	29
45	Biochemical studies with DNA polymerase Î² and DNA polymerase Î²-PAK of Trypanosoma cruzi suggest the involvement of these proteins in mitochondrial DNA maintenance. DNA Repair, 2008, 7, 1882-1892.	2.8	28
46	DNA Polymerase Î² can Incorporate Ribonucleotides during DNA Synthesis of Undamaged and CPD-damaged DNA. Journal of Molecular Biology, 2003, 331, 1017-1023.	4.2	27
47	DNA replication stress triggers rapid DNA replication fork breakage by Artemis and XPF. PLoS Genetics, 2018, 14, e1007541.	3.5	27
48	Germline mutation p.N363K in POLE is associated with an increased risk of colorectal cancer and giant cell glioblastoma. Familial Cancer, 2019, 18, 173-178.	1.9	27
49	DNA polymerase Î² imbalance increases apoptosis and mutagenesis induced by oxidative stress. FEBS Letters, 2001, 505, 229-232.	2.8	25
50	eIF4A inhibition circumvents uncontrolled DNA replication mediated by 4E-BP1 loss in pancreatic cancer. JCI Insight, 2019, 4, .	5.0	25
51	DNA polymerase Â overexpression stimulates the Rad51-dependent homologous recombination in mammalian cells. Nucleic Acids Research, 2004, 32, 5104-5112.	14.5	24
52	Excess Polİ¸ functions in response to replicative stress in homologous recombination-proficient cancer cells. Biology Open, 2016, 5, 1485-1492.	1.2	22
53	EMT Transcription Factor ZEB1 Represses the Mutagenic POLİ¸-Mediated End-Joining Pathway in Breast Cancers. Cancer Research, 2021, 81, 1595-1606.	0.9	22
54	Role of specialized DNA polymerases in the limitation of replicative stress and DNA damage transmission. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2018, 808, 62-73.	1.0	20

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55	MCM8- and MCM9 Deficiencies Cause Lifelong Increased Hematopoietic DNA Damage Driving p53-Dependent Myeloid Tumors. Cell Reports, 2019, 28, 2851-2865.e4.	6.4	20
56	Role of DNA polymerase Îº in the maintenance of genomic stability. Molecular and Cellular Oncology, 2014, 1, e29902.	0.7	19
57	Analysis of DNA Replication by Optical Mapping in Nanochannels. Small, 2016, 12, 5963-5970.	10.0	19
58	Active Site Mutations in Mammalian DNA Polymerase Î´ Alter Accuracy and Replication Fork Progression. Journal of Biological Chemistry, 2010, 285, 32264-32272.	3.4	18
59	Under-Replicated DNA: The Byproduct of Large Genomes?. Cancers, 2020, 12, 2764.	3.7	18
60	Enhanced expression and activity of DNA polymerase beta in chronic myelogenous leukemia. Anticancer Research, 2006, 26, 523-5.	1.1	18
61	Chk1 loss creates replication barriers that compromise cell survival independently of excess origin firing. EMBO Journal, 2019, 38, e101284.	7.8	17
62	Translesion Synthesis or Repair by Specialized DNA Polymerases Limits Excessive Genomic Instability upon Replication Stress. International Journal of Molecular Sciences, 2021, 22, 3924.	4.1	17
63	When RAD52 Allows Mitosis to Accept Unscheduled DNA Synthesis. Cancers, 2020, 12, 26.	3.7	16
64	Characterization of a Natural Mutator Variant of Human DNA Polymerase Î» which Promotes Chromosomal Instability by Compromising NHEJ. PLoS ONE, 2009, 4, e7290.	2.5	16
65	Human Adipose-Derived Stem Cells Expanded Under Ambient Oxygen Concentration Accumulate Oxidative DNA Lesions and Experience Procarcinogenic DNA Replication Stress. Stem Cells Translational Medicine, 2017, 6, 68-76.	3.3	15
66	Replication of DNA containing cisplatin lesions and its mutagenic consequences. Biochimie, 1995, 77, 803-807.	2.6	14
67	Analyzing the Opportunities to Target DNA Double-Strand Breaks Repair and Replicative Stress Responses to Improve Therapeutic Index of Colorectal Cancer. Cancers, 2021, 13, 3130.	3.7	13
68	A DNA repair variant in POLQ (c.-1060A > G) is associated to hereditary breast cancer patients: a caseâ€“control study. BMC Cancer, 2014, 14, 850.	2.6	12
69	KDM5A and KDM5B histone-demethylases contribute to HU-induced replication stress response and tolerance. Biology Open, 2021, 10, .	1.2	11
70	Regulation of DNA Polymerase Î² by the LMP1 Oncoprotein of EBV through the Nuclear Factor-ÎºB Pathway. Cancer Research, 2009, 69, 5177-5185.	0.9	10
71	Characterization and localization ofcis-diamminedichloro-platinum(II) adducts on a purified oligonucleotide containing the codons 12 and 13 ofH-rasproto-oncogene. Nucleic Acids Research, 1992, 20, 6473-6479.	14.5	9
72	The R438W polymorphism of human DNA polymerase lambda triggers cellular sensitivity to camptothecin by compromising the homologous recombination repair pathway. Carcinogenesis, 2010, 31, 1742-1747.	2.8	9

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73	Depletion of DNA Polymerase Theta Inhibits Tumor Growth and Promotes Genome Instability through the cGAS-STING-ISG Pathway in Esophageal Squamous Cell Carcinoma. Cancers, 2021, 13, 3204.	3.7	9
74	Evidence of finely tuned expression of DNA polymerase Î² in vivo using transgenic mice. FEBS Letters, 2004, 566, 147-150.	2.8	8
75	Acylphloroglucinol Derivatives fromMahureapalustris. Journal of Natural Products, 2005, 68, 979-984.	3.0	8
76	Impact of the DNA polymerase Theta on the DNA replication program. Genomics Data, 2015, 3, 90-93.	1.3	7
77	Dendrogenin A Enhances Anti-Leukemic Effect of Anthracycline in Acute Myeloid Leukemia. Cancers, 2020, 12, 2933.	3.7	7
78	Application of fluorine-19 nuclear magnetic resonance to the determination of plasma-protein binding of 5â€²-deoxy-5-fluorouridine, a new antineoplastic fluoropyrimidine. Journal of Pharmaceutical and Biomedical Analysis, 1988, 6, 47-59.	2.8	6
79	Interaction of cis-diamminedichloroplatinum (II) with single-stranded DNA in the presence or absence of escherichia coli singlestranded binding protein. Biochemical Pharmacology, 1991, 42, 1393-1398.	4.4	5
80	A Truncated NRIP1 Mutant Amplifies Microsatellite Instability of Colorectal Cancer by Regulating MSH2/MSH6 Expression, and Is a Prognostic Marker of Stage III Tumors. Cancers, 2021, 13, 4449.	3.7	5
81	In vitro DNA synthesis by DNA polymerase I and DNA polymerase Î± on single-stranded DNA containing either purine or pyrimidine monoadducts. Biochemical Pharmacology, 1992, 44, 1123-1129.	4.4	4
82	Recent Advances in Enhancing the Therapeutic Index of PARP Inhibitors in Breast Cancer. Cancers, 2021, 13, 4132.	3.7	4
83	Pol Îº in replication checkpoint. Cell Cycle, 2013, 12, 3713-3714.	2.6	3
84	Targeting ATR/CHK1 pathway in acute myeloid leukemia to overcome chemoresistance. Molecular and Cellular Oncology, 2017, 4, e1289293.	0.7	3
85	A Role for Human DNA Polymerase Î» in Alternative Lengthening of Telomeres. International Journal of Molecular Sciences, 2021, 22, 2365.	4.1	3
86	Low Replicative Stress Triggers Cell-Type Specific Inheritable Advanced Replication Timing. International Journal of Molecular Sciences, 2021, 22, 4959.	4.1	3
87	Opposite Roles for ZEB1 and TMEJ in the Regulation of Breast Cancer Genome Stability. Frontiers in Cell and Developmental Biology, 2021, 9, 727429.	3.7	3
88	3R gene expression in chronic lymphocytic leukemia reveals insight into disease evolution. Blood Cancer Journal, 2016, 6, e429-e429.	6.2	2
89	DNA polymerase Î½ gene expression influences fludarabine resistance in chronic lymphocytic leukemia independently of p53 status. Haematologica, 2018, 103, 1038-1046.	3.5	2
90	Proper sister chromatid disjunction requires CDA and PARP-1. Cell Cycle, 2017, 16, 1239-1240.	2.6	1

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91	The Heritability of Replication Problems. Cells, 2021, 10, 1464.	4.1	1
92	A Catalytically Independent Function of Human DNA Polymerase Kappa Controls the Stability and Abundance of Checkpoint Kinase 1. Molecular and Cellular Biology, 2021, 41, e0009021.	2.3	1
93	Isolation and characterization of HC1: a novel human DNA repair gene. Genetics and Molecular Research, 2009, 8, 247-260.	0.2	1
94	DNA synthesis by CHO cell extracts on fork-like DNA templates containing the major cisplatin adduct requires a ligation step. Biochimie, 2000, 82, 41-49.	2.6	0
95	R75: CaractÃ©risation du rÃ1e de lâ€™ADN polymÃ©rase alternative kappa (Pol k) dans le checkpoint de la phase S. Bulletin Du Cancer, 2010, 97, S44.	1.6	0
96	R66: RÃ1e de lâ€™ADN polymÃ©rase thÃªta dans le maintien de lâ€™intÃ©gritÃ© du gÃ©nome en absence de stress exogÃ¨ne. Bulletin Du Cancer, 2010, 97, S40-S41.	1.6	0
97	Loss of 4E-BP1-mediated translational control favors DNA replication in pancreatic cancer.. Pancreatology, 2017, 17, S25.	1.1	0
98	Abstract 241: A mutant DNA polymerase-delta associated with increased tumor progression causes random deletions in DNA. , 2010, , .		0
99	Abstract B4: A â€œDNA replication stressâ€•gene signature associated with a poor prognosis in early non-small cell lung cancer. Clinical Cancer Research, 2012, 18, B4-B4.	7.0	0
100	Cancer et chaos gÃ©nÃ©tique : une possible implication de l'ADN polymÃ©rase Î² ?. Medecine/Sciences, 1999, 15, 387.	0.2	0
101	Abstract PO-043: Cytidine deaminase protects pancreatic cancer cells from replicative stress and drive response to DNA-targeting drugs. , 2021, , .		0