Patrick Calsou

List of Publications by Year
in descending order

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93	4,361	94433	118850
papers	citations	37 h-index	62 g-index

101	101	101	4709
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Involvement of Poly(ADP-ribose) Polymerase-1 and XRCC1/DNA Ligase III in an Alternative Route for DNA Double-strand Breaks Rejoining. Journal of Biological Chemistry, 2004, 279, 55117-55126.	3.4	578
2	A G-quadruplex structure within the 5â€²-UTR of TRF2 mRNA represses translation in human cells. Nucleic Acids Research, 2010, 38, 7187-7198.	14.5	168
3	TRF2 and Apollo Cooperate with Topoisomerase 2Î± to Protect Human Telomeres from Replicative Damage. Cell, 2010, 142, 230-242.	28.9	155
4	DNA damage triggers SAF-A and RNA biogenesis factors exclusion from chromatin coupled to R-loops removal. Nucleic Acids Research, 2014, 42, 9047-9062.	14.5	143
5	DNA-dependent Protein Kinase and XRCC4-DNA Ligase IV Mobilization in the Cell in Response to DNA Double Strand Breaks. Journal of Biological Chemistry, 2005, 280, 7060-7069.	3.4	129
6	Structural and Functional Interaction between the Human DNA Repair Proteins DNA Ligase IV and XRCC4. Molecular and Cellular Biology, 2009, 29, 3163-3172.	2.3	124
7	Alternative end-joining pathway(s): Bricolage at DNA breaks. DNA Repair, 2014, 17, 81-97.	2.8	122
8	Coordinated nuclease activities counteract Ku at single-ended DNA double-strand breaks. Nature Communications, 2016, 7, 12889.	12.8	113
9	Coordinated Assembly of Ku and p460 Subunits of the DNA-dependent Protein Kinase on DNA Ends is Necessary for XRCC4â€“ligase IV Recruitment. Journal of Molecular Biology, 2003, 326, 93-103.	4.2	109
10	Dual Processing of R-Loops and Topoisomerase I Induces Transcription-Dependent DNA Double-Strand Breaks. Cell Reports, 2019, 28, 3167-3181.e6.	6.4	108
11	Neddylation Promotes Ubiquitylation and Release of Ku from DNA-Damage Sites. Cell Reports, 2015, 11, 704-714.	6.4	107
12	Ku counteracts mobilization of PARP1 and MRN in chromatin damaged with DNA double-strand breaks. Nucleic Acids Research, 2011, 39, 9605-9619.	14.5	94
13	Involvement of Polynucleotide Kinase in a Poly(ADP-ribose) Polymerase-1-dependent DNA Double-strand Breaks Rejoining Pathway. Journal of Molecular Biology, 2006, 356, 257-265.	4.2	92
14	The DNA-dependent Protein Kinase Catalytic Activity Regulates DNA End Processing by Means of Ku Entry into DNA. Journal of Biological Chemistry, 1999, 274, 7848-7856.	3.4	90
15	A noncatalytic function of the ligation complex during nonhomologous end joining. Journal of Cell Biology, 2013, 200, 173-186.	5.2	81
16	XLF and APLF bind Ku80 at two remote sites to ensure DNA repair by non-homologous end joining. Nature Structural and Molecular Biology, 2018, 25, 971-980.	8.2	78
17	Interplay between Ku, Artemis, and the DNA-dependent Protein Kinase Catalytic Subunit at DNA Ends. Journal of Biological Chemistry, 2006, 281, 27784-27793.	3.4	76
18	Improvement of porphyrins for G-quadruplex DNA targeting. Biochimie, 2011, 93, 1310-1317.	2.6	76

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19	Longâ€patch DNA repair synthesis during base excision repair in mammalian cells. EMBO Reports, 2003, 4, 363-367.	4.5	70
20	TRF2/RAP1 and DNAâ€“PK mediate a double protection against joining at telomeric ends. EMBO Journal, 2010, 29, 1573-1584.	7.8	67
21	Plugged into the Ku-DNA hub: The NHEJ network. Progress in Biophysics and Molecular Biology, 2019, 147, 62-76.	2.9	62
22	Effect of double-strand break DNA sequence on the PARP-1 NHEJ pathway. Biochemical and Biophysical Research Communications, 2008, 369, 982-988.	2.1	61
23	Long-term XPC Silencing Reduces DNA Double-Strand Break Repair. Cancer Research, 2007, 67, 2526-2534.	0.9	56
24	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
25	Interactions of the transcription/DNA repair factor TFIIH and XP repair proteins with DNA lesions in a cell-free repair assay. Journal of Molecular Biology, 1998, 281, 211-218.	4.2	54
26	Decreased DNA-PK activity in human cancer cells exhibiting hypersensitivity to low-dose irradiation. British Journal of Cancer, 2000, 83, 514-518.	6.4	54
27	CNBP controls transcription by unfolding DNA G-quadruplex structures. Nucleic Acids Research, 2019, 47, 7901-7913.	14.5	52
28	UV sensitivity and impaired nucleotide excision repair in DNA-dependent protein kinase mutant cells. Nucleic Acids Research, 1998, 26, 1382-1389.	14.5	50
29	The DNA repair complex DNA-PK, aÂpharmacological target inÂcancer chemotherapy andÂradiotherapy. Pathologie Et Biologie, 2006, 54, 185-193.	2.2	50
30	Role of DNA repair in the mechanisms of cell resistance to alkylating agents and cisplatin. Cancer Chemotherapy and Pharmacology, 1993, 32, 85-89.	2.3	49
31	Interplay between Cernunnos-XLF and Nonhomologous End-joining Proteins at DNA Ends in the Cell. Journal of Biological Chemistry, 2007, 282, 31937-31943.	3.4	47
32	Transcription-associated topoisomerase 2Î± (TOP2A) activity is a major effector of cytotoxicity induced by G-quadruplex ligands. ELife, 2021, 10, .	6.0	46
33	Cross-Resistance to Ionizing Radiation in a Murine Leukemic Cell Line Resistant tocis-Dichlorodiammineplatinum(II): Role of Ku Autoantigen. Molecular Pharmacology, 1999, 56, 141-146.	2.3	44
34	A DNA double-strand break defective fibroblast cell line (180BR) derived from a radiosensitive patient represents a new mutant phenotype. Cancer Research, 1997, 57, 4600-7.	0.9	42
35	Transfer of Ku86 RNA antisense decreases the radioresistance of human fibroblasts. Cancer Gene Therapy, 2000, 7, 339-346.	4.6	40
36	Repair synthesis by human cell extracts in cisplatin damaged DNA is preferentially determined by minor adducts. Nucleic Acids Research, 1992, 20, 6363-6368.	14.5	39

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37	Human normal peripheral blood B-lymphocytes are deficient in DNA-dependent protein kinase activity due to the expression of a variant form of the Ku86 protein. Oncogene, 1998, 16, 1553-1560.	5.9	37
38	A Chemiluminescent Microplate Assay to Detect DNA Damage Induced by Genotoxic Treatments. Analytical Biochemistry, 1995, 232, 37-42.	2.4	36
39	Deficient nucleotide excision repair activity in protein extracts from normal human lymphocytes. Carcinogenesis, 1995, 16, 1611-1616.	2.8	35
40	Properties of damage-dependent DNA incision by nucleotide excision repair in human cell-free extracts. Nucleic Acids Research, 1994, 22, 4937-4942.	14.5	34
41	DNA Replication but Not Nucleotide Excision Repair Is Required for UVC-Induced Replication Protein A Phosphorylation in Mammalian Cells. Molecular and Cellular Biology, 2000, 20, 2696-2705.	2.3	34
42	Cell nonhomologous end joining capacity controls SAF-A phosphorylation by DNA-PK in response to DNA double-strand breaks inducers. Cell Cycle, 2009, 8, 3717-3722.	2.6	34
43	ATM antagonizes NHEJ proteins assembly and DNA-ends synapsis at single-ended DNA double strand breaks. Nucleic Acids Research, 2020, 48, 9710-9723.	14.5	34
44	Detection of Oxidative Base DNA Damage by a New Biochemical Assay. Archives of Biochemistry and Biophysics, 2000, 376, 26-33.	3.0	33
45	Polo-like kinase 1 mediates BRCA1 phosphorylation and recruitment at DNA double-strand breaks. Oncotarget, 2016, 7, 2269-2283.	1.8	27
46	A novel cytoprotective function for the <scp>DNA</scp> repair protein Ku in regulating p53 <scp>mRNA</scp> translation andÂfunction. EMBO Reports, 2016, 17, 508-518.	4.5	25
47	In vitro eukaryotic DNA excision repair assays: An overview. Biochimie, 1995, 77, 796-802.	2.6	24
48	The activity of the DNA-dependent protein kinase (DNA-PK) complex is determinant in the cellular response to nitrogen mustards. Biochimie, 2000, 82, 25-28.	2.6	24
49	The nickel(II) complex of guanidinium phenyl porphyrin, a specific G-quadruplex ligand, targets telomeres and leads to POT1 mislocalization in culture cells. Journal of Biological Inorganic Chemistry, 2015, 20, 729-738.	2.6	24
50	BRCA1 prevents R-loop-associated centromeric instability. Cell Death and Disease, 2021, 12, 896.	6.3	24
51	Double Strand Breaks in DNA Inhibit Nucleotide Excision Repair in Vitro. Journal of Biological Chemistry, 1996, 271, 27601-27607.	3.4	23
52	SHORT COMMUNICATION: Negative interference of metal (II) ions with nucleotide excision repair in human cell-free extracts. Carcinogenesis, 1996, 17, 2779-2782.	2.8	23
53	Ku Entry into DNA Inhibits Inward DNA Transactions in Vitro. Journal of Biological Chemistry, 2000, 275, 35684-35691.	3.4	22
54	Weigle reactivation and mutagenesis of bacteriophage Î» in lexA(Def) mutants of E. coli K12. Molecular Genetics and Genomics, 1985, 201, 329-333.	2.4	21

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55	Measurement of Damage-Specific DNA Incision by Nucleotide Excision Repair in Vitro. Biochemical and Biophysical Research Communications, 1994, 202, 788-795.	2.1	21
56	Inhibition of Ku heterodimer DNA end binding activity during granulocytic differentiation of human promyelocytic cell lines. Oncogene, 2001, 20, 4373-4382.	5.9	21
57	Repair of Oxidative DNA Damage In Vitro: A Tool for Screening Antioxidative Compounds. Food and Chemical Toxicology, 1999, 37, 1009-1014.	3.6	20
58	A cisplatin-resistant murine leukemia cell line exhibits increased topoisomerase II activity. Molecular Pharmacology, 1994, 46, 431-6.	2.3	20
59	DNA repair activity in protein extracts of fresh human malignant lymphoid cells. Molecular Pharmacology, 1996, 49, 766-71.	2.3	20
60	Possible anti-recombinogenic role of Bloom's syndrome helicase in double-strand break processing. Nucleic Acids Research, 2003, 31, 6272-6282.	14.5	18
61	Loss of BRCA1 impairs centromeric cohesion and triggers chromosomal instability. FASEB Journal, 2014, 28, 5250-5261.	0.5	18
62	Preferential Repair Incision of Cross-LinksversusMonoadducts in Psoralen-Damaged Plasmid DNA by Human Cell-Free Extractsâ€. Biochemistry, 1996, 35, 14963-14969.	2.5	17
63	DNA repair activity in protein extracts from rat tissues. FEBS Letters, 1997, 414, 581-584.	2.8	17
64	Structure-Based Virtual Ligand Screening on the XRCC4/DNA Ligase IV Interface. Scientific Reports, 2016, 6, 22878.	3.3	17
65	Activated RecA protein may induce expression of a gene that is not controlled by the LexA repressor and whose function is required for mutagenesis and repair of UV-irradiated bacteriophage lambda. Journal of Bacteriology, 1987, 169, 4816-4821.	2.2	16
66	Scaffold attachment factor A (SAF-A) and Ku temporally regulate repair of radiation-induced clustered genome lesions. Oncotarget, 2016, 7, 54430-54444.	1.8	16
67	DNA excision-repair synthesis is enhanced in a murine leukemia L1210 cell line resistant to cisplatin. FEBS Journal, 1993, 211, 403-409.	0.2	15
68	Regulation of the DNA-dependent protein kinase (DNA-PK) activity in eukaryotic cells. Biochimie, 1999, 81, 117-125.	2.6	15
69	c-Myc protein is degraded in response to UV irradiation. Cell Cycle, 2008, 7, 63-70.	2.6	15
70	Constrained G4 structures unveil topology specificity of known and new G4 binding proteins. Scientific Reports, 2021, 11, 13469.	3.3	15
71	Ku70/Ku80 protein complex inhibits the binding of nucleotide excision repair proteins on linear DNA in vitro. Journal of Molecular Biology, 1998, 284, 963-973.	4.2	14
72	DNA damage excision repair in microplate wells with chemiluminescence detection: Development and perspectives. Biochimie, 1999, 81, 53-58.	2.6	14

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73	ARTEMIS Nuclease Facilitates Apoptotic Chromatin Cleavage. Cancer Research, 2009, 69, 8120-8126.	0.9	14
74	Single-stranded DNA oligomers stimulate error-prone alternative repair of DNA double-strand breaks through hijacking Ku protein. Nucleic Acids Research, 2015, 43, gkv894.	14.5	14
75	G-Quadruplex binding optimization by gold(<scp>iii</scp>) insertion into the center of a porphyrin. Dalton Transactions, 2019, 48, 6091-6099.	3.3	14
76	In vitro evolution of cisplatin/DNA monoadducts into diadducts is dependent upon superhelical density. Biochemical and Biophysical Research Communications, 1992, 189, 111-118.	2.1	12
77	Modification of deoxyribose-phosphate residues by extracts of ataxia telangiectasia cells. Mutation Research DNA Repair, 1990, 236, 19-26.	3.7	8
78	Involvement of glutathione in cis-platinum toxicity in Escherichia coli K12. Toxicology, 1992, 72, 341-350.	4.2	8
79	UV resistance of E. coli K-12 deficient in cAMP/CRP regulation. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1992, 282, 247-252.	1.1	8
80	The DNA-Binding Polyamine Moiety in the Vectorized DNA Topoisomerase II Inhibitor F14512 Alters Reparability of the Consequent Enzyme-Linked DNA Double-Strand Breaks. Molecular Cancer Therapeutics, 2017, 16, 2166-2177.	4.1	8
81	XAB2 promotes Ku eviction from single-ended DNA double-strand breaks independently of the ATM kinase. Nucleic Acids Research, 2021, 49, 9906-9925.	14.5	8
82	Regulation of the SOS response analyzed by RecA protein amplification. Journal of Bacteriology, 1985, 162, 1162-1165.	2.2	8
83	Heat-inducible reactivation of UV-damaged bacteriophage Î». Molecular Genetics and Genomics, 1991, 226-226, 113-119.	2.4	7
84	Multiple mechanisms of resistance to cisplatin toxicity in an Escherichia coli K12 mutant. Toxicology, 1994, 93, 235-247.	4.2	7
85	Alkyneâ€Tagged Analogue of Jaspineâ€…B: New Tool for Identifying Jaspineâ€…B Mode of Action. ChemBioChem, 2018, 19, 2438-2442.	2.6	7
86	Rapid Quantification of DNA Repair Synthesis in Cell Extracts. Analytical Biochemistry, 1993, 215, 304-306.	2.4	6
87	UV Induction of Excision Repair Enzymes Detected in Protein Extracts from Schizosaccharomyces pombe. Biochemical and Biophysical Research Communications, 1994, 198, 770-779.	2.1	6
88	Role of intercalation and redox potential in DNA photosensitization by ruthenium(ii) polypyridyl complexes: assessment using DNA repair protein tests. Photochemical and Photobiological Sciences, 2013, 12, 1517-1526.	2.9	6
89	Ku protein complex is involved in nucleotide excision repair of DNA. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1996, 319, 179-82.	0.8	2
90	SDR enzymes oxidize specific lipidic alkynylcarbinols into cytotoxic protein-reactive species. ELife, 2022, 11, .	6.0	2

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91	RECA immunological assay as a tool to analyze the SOS response. Biochimie, 1985, 67, 349-352.	2.6	1
92	DNA-PK, a Pharmacological Target in Cancer Chemotherapy and Radiotherapy?. , 2013, , 25-44.		1
93	In Vitro Excision Repair Assay in Schizosaccharomyces pombe. , 1999, 113, 327-335.		0