

H C Birnboim

List of Publications by Year in descending order

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55
papers

19,310
citations

218592

26
h-index

155592

55
g-index

55
all docs

55
docs citations

55
times ranked

6132
citing authors

#	ARTICLE	IF	CITATIONS
1	A rapid alkaline extraction procedure for screening recombinant plasmid DNA. <i>Nucleic Acids Research</i> , 1979, 7, 1513-1523.	6.5	15,424
2	[17] A rapid alkaline extraction method for the isolation of plasmid DNA. <i>Methods in Enzymology</i> , 1983, 100, 243-255.	0.4	890
3	Rapidly labeled HeLa cell nuclear RNA. <i>Journal of Molecular Biology</i> , 1966, 19, 349-361.	2.0	439
4	Fluorometric method for rapid detection of DNA strand breaks in human white blood cells produced by low doses of radiation. <i>Cancer Research</i> , 1981, 41, 1889-92.	0.4	357
5	DNA strand breakage in human leukocytes exposed to a tumor promoter, phorbol myristate acetate. <i>Science</i> , 1982, 215, 1247-1249.	6.0	259
6	A procedure for the large-scale isolation of highly purified plasmid DNA using alkaline extraction and binding to glass powder. <i>Analytical Biochemistry</i> , 1982, 121, 382-387.	1.1	252
7	Rapidly labeled HeLa cell nuclear RNA. <i>Journal of Molecular Biology</i> , 1966, 19, 362-372.	2.0	216
8	DNA strand breaks in human leukocytes induced by superoxide anion, hydrogen peroxide and tumor promoters are repaired slowly compared to breaks induced by ionizing radiation. <i>Carcinogenesis</i> , 1986, 7, 1511-1517.	1.3	119
9	Rapid extraction of high molecular weight RNA from cultured cells and granulocytes for Northern analysis. <i>Nucleic Acids Research</i> , 1988, 16, 1487-1497.	6.5	115
10	The production of DNA strand breaks in human leukocytes by superoxide anion may involve a metabolic process.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985, 82, 6820-6824.	3.3	105
11	Neutrophils, Nitric Oxide Synthase, and Mutations in the Mutatect Murine Tumor Model. <i>American Journal of Pathology</i> , 2000, 156, 509-518.	1.9	81
12	Expression of Interleukin-8 Promotes Neutrophil Infiltration and Genetic Instability in Mutatect Tumors. <i>Neoplasia</i> , 2000, 2, 561-568.	2.3	73
13	Distribution of Polypyrimidine . Polypurine Segments in DNA from Diverse Organisms. <i>FEBS Journal</i> , 1979, 98, 301-307.	0.2	65
14	The use of Girard-T reagent in a rapid and sensitive method for measuring glyoxal and certain other 1,2-dicarbonyl compounds. <i>Analytical Biochemistry</i> , 1977, 81, 47-56.	1.1	63
15	Rapid Rejoining of DNA Strand Breaks in Resting Human Lymphocytes after Irradiation by Low Doses of 60 Co γ Rays or 14.6-MeV Neutrons. <i>Radiation Research</i> , 1983, 94, 499.	0.7	63
16	[57] Fluorometric analysis of DNA unwinding to study strand breaks and repair in mammalian cells. <i>Methods in Enzymology</i> , 1990, 186, 550-555.	0.4	63
17	A Myeloperoxidase-Specific Assay Based upon Bromide-Dependent Chemiluminescence of Luminol. <i>Analytical Biochemistry</i> , 1999, 273, 126-132.	1.1	50
18	Factors which affect DNA strand breakage in human leukocytes exposed to a tumor promoter, phorbol myristate acetate. <i>Canadian Journal of Physiology and Pharmacology</i> , 1982, 60, 1359-1366.	0.7	46

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19	Optimal conditions for counting of precipitated 3H-RNA on glass-fiber filters. <i>Analytical Biochemistry</i> , 1970, 37, 178-182.	1.1	43
20	Studies on HeLa cell nuclear DNA-like RNA by RNA-DNA hybridization.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1967, 58, 320-327.	3.3	40
21	HPRT? mutant T cells in the peripheral blood and synovial tissue of patients with rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 1998, 41, 1772-1782.	6.7	32
22	Analysis of Long Pyrimidine Polynucleotides in HeLa Cell Nuclear DNA: Absence of Polydeoxythymidylate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1973, 70, 2189-2192.	3.3	30
23	Spacing of polypyrimidine regions in mouse DNA as determined by poly(adenylate, guanylate) binding. <i>Journal of Molecular Biology</i> , 1978, 121, 541-559.	2.0	30
24	Hprt mutants in a transplantable murine tumour arise more frequently in vivo than in vitro. <i>British Journal of Cancer</i> , 1995, 72, 1234-1240.	2.9	30
25	[16] Extraction of high molecular weight RNA and DNA from cultured mammalian cells. <i>Methods in Enzymology</i> , 1992, 216, 154-160.	0.4	29
26	Mutagenicity and cytotoxicity of reactive oxygen and nitrogen species in the MN-11 murine tumor cell line. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1997, 379, 241-252.	0.4	28
27	A superoxide anion induced DNA strand-break metabolic pathway in human leukocytes: effects of vanadate. <i>Biochemistry and Cell Biology</i> , 1988, 66, 374-381.	0.9	26
28	Immunoselection of GRP94/endoplasmic reticulum chaperone from a KNRK cell-specific cDNA library using antibodies directed against a putative heparanase amino-terminal peptide. <i>International Journal of Cancer</i> , 1994, 56, 286-294.	2.3	26
29	Polypyrimidine segments in drosophila melanogaster DNA: I. Detection of a cryptic satellite containing polypyrimidine/polypurine DNA. <i>Cell</i> , 1975, 5, 173-181.	13.5	25
30	Expression of thymidylate synthase in human cells is an early G1 event regulated by CDK4 and p16INK4A but not E2F. <i>British Journal of Cancer</i> , 2007, 97, 1242-1250.	2.9	23
31	Semiautomatic fractionation of dilute polyacrylamide gels. <i>Analytical Biochemistry</i> , 1969, 29, 498-504.	1.1	21
32	Simultaneous protective and damaging effects of cysteamine on intracellular DNA of leukocytes. <i>Free Radical Biology and Medicine</i> , 1988, 4, 141-145.	1.3	21
33	Long Pyrimidine Tracts of L-Cell DNA: Localization to Repeated DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1974, 71, 2992-2995.	3.3	19
34	DNA from Eukaryotic Cells Contains Unusually Long Pyrimidine Sequences. <i>Canadian Journal of Biochemistry</i> , 1975, 53, 640-643.	1.4	17
35	Potentiation of retinoic acid-induced U-937 differentiation into respiratory burst-competent cells by nitric oxide donors. <i>Leukemia Research</i> , 1995, 19, 325-335.	0.4	16
36	Effect of Dietary Vitamin E on Spontaneous or Nitric Oxide Donor-Induced Mutations in a Mouse Tumor Model. <i>Journal of the National Cancer Institute</i> , 2000, 92, 1429-1433.	3.0	16

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37	Superoxide Anion May Trigger DNA Strand Breaks in Human Granulocytes by Acting at a Membrane Target. <i>Annals of the New York Academy of Sciences</i> , 1988, 551, 83-93.	1.8	14
38	Fractionation of oligonucleotide isopliths by electrophoresis on polyacrylamide gels. <i>Journal of Chromatography A</i> , 1969, 44, 581-593.	1.8	13
39	Polypyrimidine sequences found in eukaryotic DNA have been conserved during evolution. <i>Nucleic Acids and Protein Synthesis</i> , 1976, 454, 419-428.	1.7	13
40	Rapid rejoining of DNA strand breaks in resting human lymphocytes after irradiation by low doses of ⁶⁰ Co gamma rays or 14.6-MeV neutrons. <i>Radiation Research</i> , 1983, 94, 499-507.	0.7	13
41	Dose-Dependent Effects of Dietary \hat{A} - and \hat{A} -Tocopherols on Genetic Instability in Mouse Mutatect Tumors. <i>Journal of the National Cancer Institute</i> , 2004, 96, 796-800.	3.0	12
42	Effect of lipophilic chelators on oxyradical-induced DNA strand breaks in human granulocytes: Paradoxical effect of 1,10-phenanthroline. <i>Archives of Biochemistry and Biophysics</i> , 1992, 294, 17-21.	1.4	11
43	Mutatect: a mouse tumour model for detecting radiation-induced mutations in vivo. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1999, 430, 275-280.	0.4	11
44	Failure of Phorbol Myristate Acetate to Damage DNA in Leukocytes from Patients with Chronic Granulomatous Disease. <i>Infection and Immunity</i> , 1982, 38, 1299-1300.	1.0	11
45	Levels of DNA strand breaks and superoxide in phorbol ester-treated human granulocytes. <i>Journal of Cellular Biochemistry</i> , 1997, 66, 219-228.	1.2	10
46	Nucleotide sequence of polypyrimidines from cloned mouse DNA as determined by base-specific blockage of exonuclease action. <i>Analytical Biochemistry</i> , 1983, 129, 88-97.	1.1	8
47	Prevention of G:C pairing in mouse DNA by complete blocking of guanine residues with glyoxal. Availability of cytosine, adenine and thymine for hydrogen bonding with added unmodified polynucleotides. <i>Nucleic Acids and Protein Synthesis</i> , 1978, 517, 296-307.	1.7	7
48	Constitutive expression of interleukin-8 by Mutatect cells markedly affects their tumor biology. <i>Carcinogenesis</i> , 2001, 22, 243-250.	1.3	7
49	DNA clastogenic activity of diethylstilbestrol. <i>Biochemical Pharmacology</i> , 1985, 34, 3251-3257.	2.0	6
50	8-Hydroxydeoxyguanosine in DNA from TPA-Stimulated Human Granulocytes. <i>Free Radical Research</i> , 1994, 20, 113-117.	1.5	5
51	Random Phasing of Polypyrimidine/Polypurine Segments and Nucleosome Monomers in Chromatin from Mouse L Cells. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1978, 42, 1161-1165.	2.0	5
52	Fragment analysis. Comparing nucleotide sequences in ribonucleic acid molecules. <i>Biochemistry</i> , 1969, 8, 263-269.	1.2	4
53	Indomethacin shifts the peak of c-fos, egr-1, and c-myc gene expression in confluent fibroblasts induced by phorbol myristate acetate. <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 508-513.	1.0	3
54	Inhibition by superoxide dismutase-mimetic copper complexes of phorbol ester-induced respiratory burst in human granulocytes. <i>Biochemical Pharmacology</i> , 1992, 43, 1061-1066.	2.0	3

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55	Recovery of a rare clone from a population of unstable retroviral vector-expressing mammalian cells using a new RNA extraction and slot-blot protocol. <i>Journal of Virological Methods</i> , 1994, 50, 245-255.	1.0	2