

H C Birnboim

List of Publications by Year in descending order

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55
papers

19,310
citations

218677
26
h-index

155660
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. Nucleic Acids Research, 1979, 7, 1513-1523.	14.5	15,424
2	[17] A rapid alkaline extraction method for the isolation of plasmid DNA. Methods in Enzymology, 1983, 100, 243-255.	1.0	890
3	Rapidly labeled HeLa cell nuclear RNA. Journal of Molecular Biology, 1966, 19, 349-361.	4.2	439
4	Fluorometric method for rapid detection of DNA strand breaks in human white blood cells produced by low doses of radiation. Cancer Research, 1981, 41, 1889-92.	0.9	357
5	DNA strand breakage in human leukocytes exposed to a tumor promoter, phorbol myristate acetate. Science, 1982, 215, 1247-1249.	12.6	259
6	A procedure for the large-scale isolation of highly purified plasmid DNA using alkaline extraction and binding to glass powder. Analytical Biochemistry, 1982, 121, 382-387.	2.4	252
7	Rapidly labeled HeLa cell nuclear RNA. Journal of Molecular Biology, 1966, 19, 362-372.	4.2	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. Carcinogenesis, 1986, 7, 1511-1517.	2.8	119
9	Rapid extraction of high molecular weight RNA from cultured cells and granulocytes for Northern analysis. Nucleic Acids Research, 1988, 16, 1487-1497.	14.5	115
10	The production of DNA strand breaks in human leukocytes by superoxide anion may involve a metabolic process.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 6820-6824.	7.1	105
11	Neutrophils, Nitric Oxide Synthase, and Mutations in the Mutatect Murine Tumor Model. American Journal of Pathology, 2000, 156, 509-518.	3.8	81
12	Expression of Interleukin-8 Promotes Neutrophil Infiltration and Genetic Instability in Mutatect Tumors. Neoplasia, 2000, 2, 561-568.	5.3	73
13	Distribution of Polypyrimidine . Polypurine Segments in DNA from Diverse Organisms. FEBS Journal, 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. Analytical Biochemistry, 1977, 81, 47-56.	2.4	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. Radiation Research, 1983, 94, 499.	1.5	63
16	[57] Fluorometric analysis of DNA unwinding to study strand breaks and repair in mammalian cells. Methods in Enzymology, 1990, 186, 550-555.	1.0	63
17	A Myeloperoxidase-Specific Assay Based upon Bromide-Dependent Chemiluminescence of Luminol. Analytical Biochemistry, 1999, 273, 126-132.	2.4	50
18	Factors which affect DNA strand breakage in human leukocytes exposed to a tumor promoter, phorbol myristate acetate. Canadian Journal of Physiology and Pharmacology, 1982, 60, 1359-1366.	1.4	46

#	ARTICLE	IF	CITATIONS
19	Optimal conditions for counting of precipitated 3H-RNA on glass-fiber filters. Analytical Biochemistry, 1970, 37, 178-182.	2.4	43
20	Studies on HeLa cell nuclear DNA-like RNA by RNA-DNA hybridization.. Proceedings of the National Academy of Sciences of the United States of America, 1967, 58, 320-327.	7.1	40
21	HPRT? mutant T cells in the peripheral blood and synovial tissue of patients with rheumatoid arthritis. Arthritis and Rheumatism, 1998, 41, 1772-1782.	6.7	32
22	Analysis of Long Pyrimidine Polynucleotides in HeLa Cell Nuclear DNA: Absence of Polydeoxythymidylate. Proceedings of the National Academy of Sciences of the United States of America, 1973, 70, 2189-2192.	7.1	30
23	Spacing of polypyrimidine regions in mouse DNA as determined by poly(adenylate, guanylate) binding. Journal of Molecular Biology, 1978, 121, 541-559.	4.2	30
24	Hprt mutants in a transplantable murine tumour arise more frequently in vivo than in vitro. British Journal of Cancer, 1995, 72, 1234-1240.	6.4	30
25	[16] Extraction of high molecular weight RNA and DNA from cultured mammalian cells. Methods in Enzymology, 1992, 216, 154-160.	1.0	29
26	Mutagenicity and cytotoxicity of reactive oxygen and nitrogen species in the MN-11 murine tumor cell line. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1997, 379, 241-252.	1.0	28
27	A superoxide anion induced DNA strand-break metabolic pathway in human leukocytes: effects of vanadate. Biochemistry and Cell Biology, 1988, 66, 374-381.	2.0	26
28	Immunoselection of GRP94/endoplasmic reticulum protein from a KNRK cell-specific cDNA library using antibodies directed against a putative heparanase amino-terminal peptide. International Journal of Cancer, 1994, 56, 286-294.	5.1	26
29	Polypyrimidine segments in drosophila melanogaster DNA: I. Detection of a cryptic satellite containing polypyrimidine/polypurine DNA. Cell, 1975, 5, 173-181.	28.9	25
30	Expression of thymidylate synthase in human cells is an early G1 event regulated by CDK4 and p16INK4A but not E2F. British Journal of Cancer, 2007, 97, 1242-1250.	6.4	23
31	Semiautomatic fractionation of dilute polyacrylamide gels. Analytical Biochemistry, 1969, 29, 498-504.	2.4	21
32	Simultaneous protective and damaging effects of cysteamine on intracellular DNA of leukocytes. Free Radical Biology and Medicine, 1988, 4, 141-145.	2.9	21
33	Long Pyrimidine Tracts of L-Cell DNA: Localization to Repeated DNA. Proceedings of the National Academy of Sciences of the United States of America, 1974, 71, 2992-2995.	7.1	19
34	DNA from Eukaryotic Cells Contains Unusually Long Pyrimidine Sequences. Canadian Journal of Biochemistry, 1975, 53, 640-643.	1.4	17
35	Potential of retinoic acid-induced U-937 differentiation into respiratory burst-competent cells by nitric oxide donors. Leukemia Research, 1995, 19, 325-335.	0.8	16
36	Effect of Dietary Vitamin E on Spontaneous or Nitric Oxide Donor-Induced Mutations in a Mouse Tumor Model. Journal of the National Cancer Institute, 2000, 92, 1429-1433.	6.3	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.	3.8	14
38	Fractionation of oligonucleotide isophriths by electrophoresis on polyacrylamide gels. <i>Journal of Chromatography A</i> , 1969, 44, 581-593.	3.7	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.	1.5	13
41	Dose-Dependent Effects of Dietary $\hat{\alpha}$ - and $\hat{\alpha}$ -Tocopherols on Genetic Instability in Mouse Mutatect Tumors. <i>Journal of the National Cancer Institute</i> , 2004, 96, 796-800.	6.3	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.	3.0	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.	1.0	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.	2.2	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.	2.6	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.	2.4	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.	2.8	7
49	DNA clastogenic activity of diethylstilbestrol. <i>Biochemical Pharmacology</i> , 1985, 34, 3251-3257.	4.4	6
50	8-Hydroxydeoxyguanosine in DNA from TPA-Stimulated Human Granulocytes. <i>Free Radical Research</i> , 1994, 20, 113-117.	3.3	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.	1.1	5
52	Fragment analysis. Comparing nucleotide sequences in ribonucleic acid molecules. <i>Biochemistry</i> , 1969, 8, 263-269.	2.5	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.	2.1	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.	4.4	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. Journal of Virological Methods, 1994, 50, 245-255.	2.1	2