

Joan-Ramon Daban

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54
papers

1,029
citations

20
h-index

31
g-index

56
ext. papers

1,085
ext. citations

3.3
avg, IF

4.6
L-index

#	Paper	IF	Citations
54	Physical constraints in the condensation of eukaryotic chromosomes. Local concentration of DNA versus linear packing ratio in higher order chromatin structures. <i>Biochemistry</i> , 2000 , 39, 3861-6	3.2	87
53	Use of the hydrophobic probe Nile red for the fluorescent staining of protein bands in sodium dodecyl sulfate-polyacrylamide gels. <i>Analytical Biochemistry</i> , 1991 , 199, 169-74	3.1	64
52	Evidence For Sodium Dodecyl Sulfate/Protein Complexes Adopting a Necklace Structure. <i>FEBS Journal</i> , 1995 , 232, 818-824		63
51	Use of Nile red as a fluorescent probe for the study of the hydrophobic properties of protein-sodium dodecyl sulfate complexes in solution. <i>Analytical Biochemistry</i> , 1991 , 199, 162-8	3.1	63
50	Interdigitated solenoid model for compact chromatin fibers. <i>Biochemistry</i> , 1998 , 37, 4299-304	3.2	57
49	High concentration of DNA in condensed chromatin. <i>Biochemistry and Cell Biology</i> , 2003 , 81, 91-9	3.6	55
48	Role of histone pairs H2A,H2B and H3,H4 in the self-assembly of nucleosome core particles. <i>Journal of Molecular Biology</i> , 1982 , 156, 771-89	6.5	49
47	Electron microscopy and atomic force microscopy studies of chromatin and metaphase chromosome structure. <i>Micron</i> , 2011 , 42, 733-50	2.3	47
46	Structural and kinetic study of the self-assembly of nucleosome core particles. <i>Journal of Molecular Biology</i> , 1982 , 156, 749-69	6.5	45
45	Kinetic studies of the reaction of thiol groups of calf-thymus histone F3 with 5-5T-dithiobis (2-nitrobenzoic acid). <i>FEBS Journal</i> , 1974 , 49, 151-6		41
44	Detection of five nanograms of protein by two-minute Nile red staining of unfixed SDS gels. <i>BioTechniques</i> , 1996 , 21, 625-6	2.5	34
43	Association of nucleosome core particle DNA with different histone oligomers. Transfer of histones between DNA-(H2A,H2B) and DNA-(H3,H4) complexes. <i>Journal of Molecular Biology</i> , 1988 , 204, 141-54	6.5	30
42	Rapid fluorescent monitoring of total protein patterns on sodium dodecyl sulfate-polyacrylamide gels and western blots before immunodetection and sequencing. <i>Electrophoresis</i> , 1998 , 19, 2407-11	3.6	26
41	Fluorescent labeling of proteins with Nile red and 2-methoxy-2,4-diphenyl-3(2H)-furanone: physicochemical basis and application to the rapid staining of sodium dodecyl sulfate polyacrylamide gels and Western blots. <i>Electrophoresis</i> , 2001 , 22, 874-80	3.6	25
40	Nonenzymatic chemiluminescent detection and quantitation of total protein on Western and slot blots allowing subsequent immunodetection and sequencing. <i>Electrophoresis</i> , 1997 , 18, 1960-6	3.6	23
39	Structural elements of bulk chromatin within metaphase chromosomes. <i>Chromosome Research</i> , 2005 , 13, 725-43	4.4	23
38	Green-light transilluminator for the detection without photodamage of proteins and DNA labeled with different fluorescent dyes. <i>Electrophoresis</i> , 2001 , 22, 399-403	3.6	22

37	Highly compact folding of chromatin induced by cellular cation concentrations. Evidence from atomic force microscopy studies in aqueous solution. <i>European Biophysics Journal</i> , 2006 , 35, 495-501	1.9	21
36	Rapid fluorescent staining of histones in sodium dodecyl sulfate-polyacrylamide gels. <i>Analytical Biochemistry</i> , 1984 , 138, 223-8	3.1	21
35	Frozen-hydrated chromatin from metaphase chromosomes has an interdigitated multilayer structure. <i>EMBO Journal</i> , 2019 , 38,	13	21
34	Stacked thin layers of metaphase chromatin explain the geometry of chromosome rearrangements and banding. <i>Scientific Reports</i> , 2015 , 5, 14891	4.9	18
33	Dense chromatin plates in metaphase chromosomes. <i>European Biophysics Journal</i> , 2009 , 38, 503-22	1.9	18
32	Electrophoresis of chromatin on nondenaturing agarose gels containing Mg ²⁺ . Self-assembly of small chromatin fragments and folding of the 30-nm fiber. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22514-21	5.4	18
31	Irregular orientation of nucleosomes in the well-defined chromatin plates of metaphase chromosomes. <i>Biochemistry</i> , 2010 , 49, 4043-50	3.2	17
30	Mechanism of nucleosome dissociation produced by transcription elongation in a short chromatin template. <i>Biochemistry</i> , 1995 , 34, 6711-9	3.2	16
29	Nanotribology results show that DNA forms a mechanically resistant 2D network in metaphase chromatin plates. <i>Biophysical Journal</i> , 2010 , 99, 3951-8	2.9	12
28	Supramolecular multilayer organization of chromosomes: possible functional roles of planar chromatin in gene expression and DNA replication and repair. <i>FEBS Letters</i> , 2020 , 594, 395-411	3.8	12
27	A fluorescent method for the rapid staining and quantitation of proteins in sodium dodecyl sulfate-polyacrylamide gels. <i>Electrophoresis</i> , 1985 , 6, 527-531	3.6	11
26	The interaction of histone H3 with histone H4 and with other histones studied by 19F nuclear magnetic resonance. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1977 , 492, 12-9		11
25	The energy components of stacked chromatin layers explain the morphology, dimensions and mechanical properties of metaphase chromosomes. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20131043	4.1	10
24	Self-assembly of thin plates from micrococcal nuclease-digested chromatin of metaphase chromosomes. <i>Biophysical Journal</i> , 2012 , 103, 567-575	2.9	9
23	Fluorescent properties of histone-1-anilinonaphthalene 8-sulfonate complexes in the presence of denaturant agents: application to the rapid staining of histones in urea and Triton-urea-polyacrylamide gels. <i>Analytical Biochemistry</i> , 1985 , 146, 431-3	3.1	9
22	Electrostatic and conformational effects on the reaction of thiol groups of calf thymus histone H3 with 5,5'-dithiobis(2-nitrobenzoic acid). <i>Archives of Biochemistry and Biophysics</i> , 1978 , 191, 82-9	4.1	8
21	Use of fluorescent probes to study nucleosomes. <i>Methods in Enzymology</i> , 1989 , 170, 192-214	1.7	7
20	Comparative study of different fluorescent dyes for the detection of proteins on membranes using the peroxyoxalate chemiluminescent reaction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 793, 75-81	3.2	6

19	Chromatin plates in the interphase nucleus. <i>FEBS Letters</i> , 2019 , 593, 810-819	3.8	5
18	Detection of Texas red-labelled double-stranded DNA by non-enzymatic peroxyoxalate chemiluminescence. <i>Luminescence</i> , 2001 , 16, 247-9	2.5	5
17	Fluorescent labeling of proteins and its application to SDS-PAGE and western blotting. <i>Methods in Molecular Biology</i> , 2009 , 536, 407-16	1.4	3
16	Inhibition of Peroxyoxalate Chemiluminescence by Intercalation of Fluorescent Acceptors between DMA Bases. <i>Photochemistry and Photobiology</i> , 1999 , 69, 405-409	3.6	3
15	Rapid Staining of Proteins in Polyacrylamide Gels with Nile Red. <i>Springer Protocols</i> , 1996 , 179-185	0.3	3
14	Accessibility of thiol groups of calf thymus histone H3 complexed with other histones and/or DNA, and within nucleosomes. <i>Biochimie</i> , 1979 , 61, 967-71	4.6	2
13	Rapid and Sensitive Staining of Unfixed Proteins in Polyacrylamide Gels with Nile Red. <i>Springer Protocols</i> , 2009 , 497-504	0.3	1
12	MDPF Staining of Proteins on Western Blots. <i>Springer Protocols</i> , 2009 , 717-721	0.3	1
11	Flow and evaporation cells for the detection of proteins on membranes with the peroxyoxalate chemiluminescent reaction in organic media. <i>Electrophoresis</i> , 2004 , 25, 2501-5	3.6	1
10	ANALYTICAL APPLICATIONS OF A NEW AQUEOUS PEROXYOXALATE CHEMILUMINESCENCE REAGENT.: COMPARISON WITH THE TYPICAL TCPO REACTION IN ORGANIC SOLVENT 2002 ,		1
9	Histones associated with single-stranded DNA do not preclude the formation of double-helical DNA. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995 , 1260, 132-8		1
8	Enzymatic probes for histone-DNA complexes: micrococcal nuclease activity under conditions useful for the investigation of chromatin structure. <i>Journal of Proteomics</i> , 1986 , 13, 57-9		1
7	Disulphide bridging of calf thymus histone H3 by 5,5'-dithiobis(2-nitrobenzoic acid). <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1978 , 536, 323-7		1
6	Soft-matter properties of multilayer chromosomes. <i>Physical Biology</i> , 2021 , 18,	3	1
5	Multilayer organization of chromosomes 2021 , 267-296		1
4	Fluorescent Labeling of Proteins and Its Application to SDS-PAGE and Western Blotting. <i>Methods in Molecular Biology</i> , 2015 , 1314, 41-50	1.4	
3	Evidence for Sodium Dodecyl Sulfate/Protein Complexes Adopting a Necklace Structure. <i>FEBS Journal</i> , 2008 , 232, 818-824		
2	Rapid and Sensitive Staining of Unfixed Proteins in Polyacrylamide Gels with Nile Red 2002 , 243-250		

- 1 MDPF Staining of Proteins on Western Blots **2002**, 375-380