

Robert F Schleif

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4516820/publications.pdf>

Version: 2024-02-01

110
papers

5,608
citations

94269

37
h-index

95083

68
g-index

110
all docs

110
docs citations

110
times ranked

2736
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA Looping. Annual Review of Biochemistry, 1992, 61, 199-223.	5.0	454
2	Practical Methods in Molecular Biology. , 1981, , .		333
3	Regulation of the l-arabinose operon of Escherichia coli. Trends in Genetics, 2000, 16, 559-565.	2.9	217
4	AraC protein, regulation of the l-arabinose operon in <i>Escherichia coli</i> , and the light switch mechanism of AraC action. FEMS Microbiology Reviews, 2010, 34, 779-796.	3.9	211
5	The Escherichia coli L-arabinose operon: binding sites of the regulatory proteins and a mechanism of positive and negative regulation.. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 3346-3350.	3.3	208
6	Size fractionation of double-stranded DNA by precipitation with polyethylene glycol. Nucleic Acids Research, 1975, 2, 383-390.	6.5	206
7	Structural Basis for Ligand-Regulated Oligomerization of AraC. Science, 1997, 276, 421-425.	6.0	199
8	Control of production of ribosomal protein. Journal of Molecular Biology, 1967, 27, 41-55.	2.0	185
9	Factor Necessary for Ribosomal RNA Synthesis. Nature, 1970, 228, 748-751.	13.7	160
10	Arabinose C Protein: Regulation of the Arabinose Operon in vitro. Nature: New Biology, 1971, 233, 166-170.	4.5	156
11	Regulation of the Escherichia coli l-arabinose operon studied by gel electrophoresis DNA binding assay. Journal of Molecular Biology, 1984, 178, 611-628.	2.0	152
12	Mutations in LOXHD1, a Recessive-Deafness Locus, Cause Dominant Late-Onset Fuchs Corneal Dystrophy. American Journal of Human Genetics, 2012, 90, 533-539.	2.6	141
13	An l-arabinose binding protein and arabinose permeation in Escherichia coli. Journal of Molecular Biology, 1969, 46, 185-196.	2.0	135
14	Isolation and Characterization of a Streptolydigin Resistant RNA Polymerase. Nature, 1969, 223, 1068-1069.	13.7	116
15	Induction Kinetics of the l-Arabinose Operon of Escherichia coli. Journal of Bacteriology, 1973, 115, 9-14.	1.0	114
16	A Regulatory Cascade in the Induction of rhaBAD. Journal of Molecular Biology, 1993, 234, 87-98.	2.0	108
17	Positive regulation of the Escherichia coli l-rhamnose operon is mediated by the products of tandemly repeated regulatory genes. Journal of Molecular Biology, 1987, 196, 789-799.	2.0	96
18	AraC protein: A love-hate relationship. BioEssays, 2003, 25, 274-282.	1.2	95

#	ARTICLE	IF	CITATIONS
19	Determining residue-base interactions between AraC protein and aral DNA. Journal of Molecular Biology, 1989, 209, 607-622.	2.0	88
20	AraC-DNA looping: Orientation and distance-dependent loop breaking by the cyclic AMP receptor protein. Journal of Molecular Biology, 1991, 218, 45-54.	2.0	87
21	Different cyclic AMP requirements for induction of the arabinose and lactose operons of Escherichia coli. Journal of Molecular Biology, 1973, 79, 149-162.	2.0	85
22	Upstream repression and CRP stimulation of the Escherichia colil-arabinose operon. Journal of Molecular Biology, 1984, 180, 61-72.	2.0	79
23	Arm-domain interactions in AraC. Journal of Molecular Biology, 1998, 278, 539-548.	2.0	72
24	Transcription of Escherichia coli ara in vitro. Journal of Molecular Biology, 1986, 188, 355-367.	2.0	71
25	Why should DNA loop?. Nature, 1987, 327, 369-370.	13.7	67
26	DNA-Dependent Renaturation of an Insoluble DNA Binding Protein. Journal of Molecular Biology, 1994, 243, 821-829.	2.0	67
27	High resolution electron microscopic studies of genetic regulation. Journal of Molecular Biology, 1976, 108, 471-490.	2.0	64
28	The 1.6 Å... crystal structure of the AraC sugar-binding and dimerization domain complexed with d-fucose. Journal of Molecular Biology, 1997, 273, 226-237.	2.0	58
29	Transcription Activation Parameters atara pBAD. Journal of Molecular Biology, 1996, 258, 14-24.	2.0	57
30	Purification and properties of RhaR, the positive regulator of the l-rhamnose operons of Escherichia coli. Journal of Molecular Biology, 1990, 211, 75-89.	2.0	56
31	AraC Protein Can Activate Transcription from Only One Position and When Pointed in Only One Direction. Journal of Molecular Biology, 1993, 231, 205-218.	2.0	56
32	Regulation of the l-arabinose transport operons in Escherichia coli. Journal of Molecular Biology, 1981, 151, 215-227.	2.0	54
33	The role of rigidity in DNA looping-unlooping by AraC. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 427-431.	3.3	51
34	Dual control of arabinose genes on transducing phage λ d _{ara} . Journal of Molecular Biology, 1971, 59, 127-150.	2.0	50
35	Apo-AraC actively seeks to loop. Journal of Molecular Biology, 1998, 278, 529-538.	2.0	50
36	The araE low affinity l-arabinose transport promoter. Journal of Molecular Biology, 1983, 171, 369-381.	2.0	48

#	ARTICLE	IF	CITATIONS
37	The araC promoter: Transcription, mapping and interaction with the araBAD promoter. <i>Cell</i> , 1977, 11, 545-550.	13.5	47
38	Catabolite Gene Activator Protein Mutations Affecting Activity of the <i>araBAD</i> Promoter. <i>Journal of Bacteriology</i> , 1998, 180, 195-200.	1.0	45
39	In vivo experiments on the mechanism of action of l-arabinose C gene activator and lactose repressor. <i>Journal of Molecular Biology</i> , 1973, 80, 433-444.	2.0	38
40	Transcription from the rha operon psr promoter. <i>Journal of Molecular Biology</i> , 1990, 211, 1-4.	2.0	37
41	Deletion analysis of the Escherichia coli ara PC and PBAD promoters. <i>Journal of Molecular Biology</i> , 1984, 180, 201-204.	2.0	36
42	Mapping arm-DNA-binding domain interactions in AraC 1 Edited by J. A. Wells. <i>Journal of Molecular Biology</i> , 2001, 307, 1001-1009.	2.0	36
43	Overproducing araC protein with lambda-arabinose transducing phage. <i>Molecular Genetics and Genomics</i> , 1977, 157, 333-339.	2.4	35
44	Characterization of the Escherichia coli araFGH and araJ promoters. <i>Journal of Molecular Biology</i> , 1990, 215, 497-510.	2.0	35
45	Active Role of the Interdomain Linker of AraC. <i>Journal of Bacteriology</i> , 2011, 193, 5737-5746.	1.0	35
46	Hemiplegic mutations in AraC protein. <i>Journal of Molecular Biology</i> , 1999, 294, 417-425.	2.0	33
47	Solution structure of the DNA binding domain of AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 77, 202-208.	1.5	33
48	Is the amino acid but not the nucleotide sequence of the Escherichia coli araC gene conserved?. <i>Journal of Molecular Biology</i> , 1982, 154, 649-652.	2.0	32
49	Arabinose-inducible promoter from Escherichia coli. <i>Journal of Molecular Biology</i> , 1982, 156, 53-66.	2.0	32
50	Structure and properties of a truly apo form of AraC dimerization domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 646-654.	1.5	30
51	Biochemical and Physiological Properties of the DNA Binding Domain of AraC Protein. <i>Journal of Molecular Biology</i> , 2004, 340, 731-738.	2.0	29
52	Mutational Analysis of Residue Roles in AraC Function. <i>Journal of Molecular Biology</i> , 2003, 328, 85-93.	2.0	28
53	The isolation and characterization of plaque-forming arabinose transducing bacteriophage λ . <i>Journal of Molecular Biology</i> , 1975, 95, 395-407.	2.0	26
54	The regulatory region of the l-arabinose operon: A physical, genetic and physiological study. <i>Journal of Molecular Biology</i> , 1975, 95, 417-431.	2.0	26

#	ARTICLE	IF	CITATIONS
55	The regulatory region of the l-arabinose operon: Its isolation on a 1000 base-pair fragment from DNA heteroduplexes. <i>Journal of Molecular Biology</i> , 1975, 95, 409-416.	2.0	25
56	Reaching Out. <i>Journal of Molecular Biology</i> , 1994, 242, 330-338.	2.0	24
57	[2] Assaying of organisms for the presence of restriction endonucleases. <i>Methods in Enzymology</i> , 1980, 65, 19-23.	0.4	23
58	Identification of araC protein on two-dimensional gels, its in vivo instability and normal level. <i>Journal of Molecular Biology</i> , 1981, 149, 133-139.	2.0	23
59	Equilibrium DNA-binding of AraC protein. <i>Journal of Molecular Biology</i> , 1987, 195, 741-744.	2.0	22
60	Strengthened Arm-Dimerization Domain Interactions in AraC. <i>Journal of Biological Chemistry</i> , 2001, 276, 2562-2564.	1.6	21
61	Cooperative Action of the Catabolite Activator Protein and AraC In Vitro at the araFGH Promoter. <i>Journal of Bacteriology</i> , 2000, 182, 1995-2000.	1.0	20
62	Electron microscopy of gene regulation: The L-arabinose operon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976, 73, 1518-1522.	3.3	19
63	Altered DNA contacts made by a mutant AraC protein. <i>Nucleic Acids Research</i> , 1985, 13, 5019-5026.	6.5	19
64	Recognition of Overlapping Nucleotides by AraC and the Sigma Subunit of RNA Polymerase. <i>Journal of Bacteriology</i> , 2000, 182, 5076-5081.	1.0	19
65	Constitutive Mutations in the <i>Escherichia coli</i> AraC Protein. <i>Journal of Bacteriology</i> , 2009, 191, 2668-2674.	1.0	19
66	Biophysical Evidence of Arm-Domain Interactions in AraC. <i>Analytical Biochemistry</i> , 2001, 295, 107-112.	1.1	18
67	Functional modes of the regulatory arm of AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 81-91.	1.5	18
68	The specificity of lamboid phage late gene induction (lamboid phage late gene specificity). <i>Virology</i> , 1972, 50, 610-612.	1.1	16
69	Modulation of DNA Binding by Gene-Specific Transcription Factors. <i>Biochemistry</i> , 2013, 52, 6755-6765.	1.2	16
70	DNA Bending by AraC: a Negative Mutant. <i>Journal of Bacteriology</i> , 1998, 180, 4227-4232.	1.0	16
71	Induction of the L-arabinose operon. <i>Journal of Molecular Biology</i> , 1969, 46, 197-199.	2.0	15
72	Paucity of sites mutable to constitutivity in the araC activator gene of the l-arabinose operon of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1975, 96, 185-199.	2.0	14

#	ARTICLE	IF	CITATIONS
73	Transcription start site and induction kinetics of the araC regulatory gene in Escherichia coli K-12. Journal of Molecular Biology, 1983, 170, 1049-1053.	2.0	11
74	Isolation and physical characterization of random insertions in staphylococcal nuclease 1 Edited by J. A. Wells. Journal of Molecular Biology, 1998, 282, 751-759.	2.0	11
75	A portable allosteric mechanism. Proteins: Structure, Function and Bioinformatics, 2004, 57, 9-11.	1.5	10
76	In vitro construction of plasmids which result in overproduction of the protein product of the araC gene of Escherichia coli. Molecular Genetics and Genomics, 1977, 157, 341-344.	2.4	9
77	Arm-domain interactions in proteins: a review. , 1999, 34, 1-3.		9
78	A DNA-Assisted Binding Assay for Weak Protein-Protein Interactions. Journal of Molecular Biology, 2009, 394, 805-814.	2.0	9
79	The metabolic stability of ribosomal protein. Molecular Genetics and Genomics, 1967, 100, 252-255.	2.4	8
80	Specific interactions by the N-terminal arm inhibit self-association of the AraC dimerization domain. Protein Science, 2006, 15, 2828-2835.	3.1	8
81	Spacing mutations between the Escherichia coli PBAD RNA polymerase binding site and the araC(II) induction site. Nucleic Acids Research, 1983, 11, 1873-1880.	6.5	7
82	Formation of AraC-DNA sandwiches. Nucleic Acids Research, 1993, 21, 435-438.	6.5	7
83	Modeling and Studying Proteins with Molecular Dynamics. Methods in Enzymology, 2004, 383, 28-47.	0.4	7
84	DNA tape measurements of AraC. Nucleic Acids Research, 2007, 36, 404-410.	6.5	7
85	Computational Predictions of the Mutant Behavior of AraC. Journal of Molecular Biology, 2010, 398, 462-470.	2.0	7
86	A genetic and physical study of the interdomain linker of E. Coli AraC protein-a trans-subunit communication pathway. Proteins: Structure, Function and Bioinformatics, 2016, 84, 448-460.	1.5	7
87	In vivo association of protein fragments giving active AraC. Proteins: Structure, Function and Bioinformatics, 1996, 25, 501-505.	1.5	7
88	The Salt Dependence of the Interferon Regulatory Factor 1 DNA Binding Domain Binding to DNA Reveals Ions Are Localized around Protein and DNA. Biochemistry, 2008, 47, 4119-4128.	1.2	6
89	Opposite allosteric mechanisms in TetR and CAP. Protein Science, 2009, 18, 775-781.	3.1	6
90	Arm-domain interactions can provide high binding cooperativity. Protein Science, 2009, 13, 2829-2831.	3.1	6

#	ARTICLE	IF	CITATIONS
91	A new and unexpected domain-domain interaction in the AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1465-1475.	1.5	6
92	l-arabinose operon messenger of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1971, 61, 275-279.	2.0	5
93	The C-terminal End of AraC Tightly Binds to the Rest of Its Domain. <i>Journal of Biological Chemistry</i> , 2001, 276, 4886-4888.	1.6	5
94	Heterodimers Reveal That Two Arabinose Molecules Are Required for the Normal Arabinose Response of AraC. <i>Biochemistry</i> , 2012, 51, 8085-8091.	1.2	5
95	Helical Behavior of the Interdomain Linker of the <i>Escherichia coli</i> AraC Protein. <i>Biochemistry</i> , 2019, 58, 2867-2874.	1.2	5
96	Lambda lysozyme synthesis in the absence of N protein. <i>Virology</i> , 1971, 45, 532-533.	1.1	4
97	Repression of the araBAD promoter from araO1. <i>Journal of Molecular Biology</i> , 1992, 224, 335-341.	2.0	4
98	Stabilizing C-terminal tails on AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 177-181.	1.5	4
99	Arabinose Alters Both Local and Distal H ² D Exchange Rates in the <i>Escherichia coli</i> AraC Transcriptional Regulator. <i>Biochemistry</i> , 2019, 58, 2875-2882.	1.2	4
100	Novel Mutation to Dominant Fucose Resistance in the λ -Arabinose Operon of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1973, 115, 711-713.	1.0	4
101	Understanding the basis of a class of paradoxical mutations in AraC through simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 490-498.	1.5	3
102	Where to From Here?. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 848444.	1.6	3
103	[79] Electron microscopy of proteins bound to DNA. <i>Methods in Enzymology</i> , 1980, 65, 885-896.	0.4	2
104	Building family traditions. <i>Molecular Microbiology</i> , 2004, 53, 355-356.	1.2	2
105	In vivo association of protein fragments giving active AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 25, 501-505.	1.5	1
106	Identification of Oligomerizing Peptides. <i>Journal of Biological Chemistry</i> , 2001, 276, 20017-20021.	1.6	1
107	Computational and experimental investigation of constitutive behavior in AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3385-3396.	1.5	1
108	A Career's Work, the λ -Arabinose Operon: How It Functions and How We Learned It. <i>EcoSal Plus</i> , 2022, 10, .	2.1	1

#	ARTICLE	IF	CITATIONS
109	The arabinose C gene product of Escherichia coli B/r is hyperlabile in a cell free protein synthesis system. Molecular Genetics and Genomics, 1974, 128, 93-94.	2.4	0
110	ara Operon. , 2004, , 116-119.		0