

# Robert F Schleif

## List of Publications by Year in descending order

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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	A Career's Work, the <i>l</i> -Arabinose Operon: How It Functions and How We Learned It. <i>EcoSal Plus</i> , 2022, 10, .	2.1	1
2	Where to From Here?. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 848444.	1.6	3
3	Helical Behavior of the Interdomain Linker of the <i>Escherichia coli</i> AraC Protein. <i>Biochemistry</i> , 2019, 58, 2867-2874.	1.2	5
4	Arabinose Alters Both Local and Distal H <sup>2</sup> D Exchange Rates in the <i>Escherichia coli</i> AraC Transcriptional Regulator. <i>Biochemistry</i> , 2019, 58, 2875-2882.	1.2	4
5	A genetic and physical study of the interdomain linker of <i>E. Coli</i> AraC protein-a <i>trans</i> -subunit communication pathway. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 448-460.	1.5	7
6	Computational and experimental investigation of constitutive behavior in AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3385-3396.	1.5	1
7	Modulation of DNA Binding by Gene-Specific Transcription Factors. <i>Biochemistry</i> , 2013, 52, 6755-6765.	1.2	16
8	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
9	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
10	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
11	Mutations in LOXHD1, a Recessive-Deafness Locus, Cause Dominant Late-Onset Fuchs Corneal Dystrophy. <i>American Journal of Human Genetics</i> , 2012, 90, 533-539.	2.6	141
12	Active Role of the Interdomain Linker of AraC. <i>Journal of Bacteriology</i> , 2011, 193, 5737-5746.	1.0	35
13	AraC protein, regulation of the <i>l</i> -arabinose operon in <i>Escherichia coli</i> , and the light switch mechanism of AraC action. <i>FEMS Microbiology Reviews</i> , 2010, 34, 779-796.	3.9	211
14	Computational Predictions of the Mutant Behavior of AraC. <i>Journal of Molecular Biology</i> , 2010, 398, 462-470.	2.0	7
15	Constitutive Mutations in the <i>Escherichia coli</i> AraC Protein. <i>Journal of Bacteriology</i> , 2009, 191, 2668-2674.	1.0	19
16	Functional modes of the regulatory arm of AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 81-91.	1.5	18
17	Solution structure of the DNA binding domain of AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 77, 202-208.	1.5	33
18	Opposite allosteric mechanisms in TetR and CAP. <i>Protein Science</i> , 2009, 18, 775-781.	3.1	6

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19	A DNA-Assisted Binding Assay for Weak Protein-Protein Interactions. <i>Journal of Molecular Biology</i> , 2009, 394, 805-814.	2.0	9
20	Arm-domain interactions can provide high binding cooperativity. <i>Protein Science</i> , 2009, 13, 2829-2831.	3.1	6
21	The Salt Dependence of the Interferon Regulatory Factor 1 DNA Binding Domain Binding to DNA Reveals Ions Are Localized around Protein and DNA. <i>Biochemistry</i> , 2008, 47, 4119-4128.	1.2	6
22	DNA tape measurements of AraC. <i>Nucleic Acids Research</i> , 2007, 36, 404-410.	6.5	7
23	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
24	Specific interactions by the N-terminal arm inhibit self-association of the AraC dimerization domain. <i>Protein Science</i> , 2006, 15, 2828-2835.	3.1	8
25	ara Operon. , 2004, , 116-119.		0
26	Modeling and Studying Proteins with Molecular Dynamics. <i>Methods in Enzymology</i> , 2004, 383, 28-47.	0.4	7
27	Building family traditions. <i>Molecular Microbiology</i> , 2004, 53, 355-356.	1.2	2
28	A portable allosteric mechanism. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 9-11.	1.5	10
29	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
30	AraC protein: A love-hate relationship. <i>BioEssays</i> , 2003, 25, 274-282.	1.2	95
31	Mutational Analysis of Residue Roles in AraC Function. <i>Journal of Molecular Biology</i> , 2003, 328, 85-93.	2.0	28
32	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
33	Stabilizing C-terminal tails on AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 177-181.	1.5	4
34	Biophysical Evidence of Arm-Domain Interactions in AraC. <i>Analytical Biochemistry</i> , 2001, 295, 107-112.	1.1	18
35	Identification of Oligomerizing Peptides. <i>Journal of Biological Chemistry</i> , 2001, 276, 20017-20021.	1.6	1
36	Strengthened Arm-Dimerization Domain Interactions in AraC. <i>Journal of Biological Chemistry</i> , 2001, 276, 2562-2564.	1.6	21

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37	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
38	The C-terminal End of AraC Tightly Binds to the Rest of Its Domain. Journal of Biological Chemistry, 2001, 276, 4886-4888.	1.6	5
39	Regulation of the l-arabinose operon of Escherichia coli. Trends in Genetics, 2000, 16, 559-565.	2.9	217
40	Recognition of Overlapping Nucleotides by AraC and the Sigma Subunit of RNA Polymerase. Journal of Bacteriology, 2000, 182, 5076-5081.	1.0	19
41	Cooperative Action of the Catabolite Activator Protein and AraC In Vitro at the araFGH Promoter. Journal of Bacteriology, 2000, 182, 1995-2000.	1.0	20
42	Arm-domain interactions in proteins: a review. , 1999, 34, 1-3.		9
43	Hemiplegic mutations in AraC protein. Journal of Molecular Biology, 1999, 294, 417-425.	2.0	33
44	Arm-domain interactions in AraC. Journal of Molecular Biology, 1998, 278, 539-548.	2.0	72
45	Apo-AraC actively seeks to loop. Journal of Molecular Biology, 1998, 278, 529-538.	2.0	50
46	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
47	DNA Bending by AraC: a Negative Mutant. Journal of Bacteriology, 1998, 180, 4227-4232.	1.0	16
48	Catabolite Gene Activator Protein Mutations Affecting Activity of the <i>araBAD</i> Promoter. Journal of Bacteriology, 1998, 180, 195-200.	1.0	45
49	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
50	Structural Basis for Ligand-Regulated Oligomerization of AraC. Science, 1997, 276, 421-425.	6.0	199
51	Transcription Activation Parameters at the <i>ara</i> pBAD. Journal of Molecular Biology, 1996, 258, 14-24.	2.0	57
52	In vivo association of protein fragments giving active AraC. Proteins: Structure, Function and Bioinformatics, 1996, 25, 501-505.	1.5	1
53	In vivo association of protein fragments giving active AraC. Proteins: Structure, Function and Bioinformatics, 1996, 25, 501-505.	1.5	7
54	Reaching Out. Journal of Molecular Biology, 1994, 242, 330-338.	2.0	24

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55	DNA-Dependent Renaturation of an Insoluble DNA Binding Protein. <i>Journal of Molecular Biology</i> , 1994, 243, 821-829.	2.0	67
56	AraC Protein Can Activate Transcription from Only One Position and When Pointed in Only One Direction. <i>Journal of Molecular Biology</i> , 1993, 231, 205-218.	2.0	56
57	A Regulatory Cascade in the Induction of rhaBAD. <i>Journal of Molecular Biology</i> , 1993, 234, 87-98.	2.0	108
58	Formation of AraC-DNA sandwiches. <i>Nucleic Acids Research</i> , 1993, 21, 435-438.	6.5	7
59	Repression of the araBAD promoter from araO1. <i>Journal of Molecular Biology</i> , 1992, 224, 335-341.	2.0	4
60	DNA Looping. <i>Annual Review of Biochemistry</i> , 1992, 61, 199-223.	5.0	454
61	AraC-DNA looping: Orientation and distance-dependent loop breaking by the cyclic AMP receptor protein. <i>Journal of Molecular Biology</i> , 1991, 218, 45-54.	2.0	87
62	Characterization of the Escherichia coli araFGH and araJ promoters. <i>Journal of Molecular Biology</i> , 1990, 215, 497-510.	2.0	35
63	Transcription from the rha operon psr promoter. <i>Journal of Molecular Biology</i> , 1990, 211, 1-4.	2.0	37
64	Purification and properties of RhaR, the positive regulator of the l-rhamnose operons of Escherichia coli. <i>Journal of Molecular Biology</i> , 1990, 211, 75-89.	2.0	56
65	Determining residue-base interactions between AraC protein and araI DNA. <i>Journal of Molecular Biology</i> , 1989, 209, 607-622.	2.0	88
66	Equilibrium DNA-binding of AraC protein. <i>Journal of Molecular Biology</i> , 1987, 195, 741-744.	2.0	22
67	Positive regulation of the Escherichia coli l-rhamnose operon is mediated by the products of tandemly repeated regulatory genes. <i>Journal of Molecular Biology</i> , 1987, 196, 789-799.	2.0	96
68	Why should DNA loop?. <i>Nature</i> , 1987, 327, 369-370.	13.7	67
69	Transcription of Escherichia coli ara in vitro. <i>Journal of Molecular Biology</i> , 1986, 188, 355-367.	2.0	71
70	Altered DNA contacts made by a mutant AraC protein. <i>Nucleic Acids Research</i> , 1985, 13, 5019-5026.	6.5	19
71	Regulation of the Escherichia coli l-arabinose operon studied by gel electrophoresis DNA binding assay. <i>Journal of Molecular Biology</i> , 1984, 178, 611-628.	2.0	152
72	Upstream repression and CRP stimulation of the Escherichia coli l-arabinose operon. <i>Journal of Molecular Biology</i> , 1984, 180, 61-72.	2.0	79

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73	Deletion analysis of the Escherichia coli ara PC and PBAD promoters. Journal of Molecular Biology, 1984, 180, 201-204.	2.0	36
74	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
75	The araE low affinity l-arabinose transport promoter. Journal of Molecular Biology, 1983, 171, 369-381.	2.0	48
76	Spacing mutations between the Escherichia coli PBAD RNA polymerase binding site and the araC(l) induction site. Nucleic Acids Research, 1983, 11, 1873-1880.	6.5	7
77	Is the amino acid but not the nucleotide sequence of the Escherichia coli araC gene conserved?. Journal of Molecular Biology, 1982, 154, 649-652.	2.0	32
78	Arabinose-inducible promoter from Escherichia coli. Journal of Molecular Biology, 1982, 156, 53-66.	2.0	32
79	Identification of araC protein on two-dimensional gels, its in vivo instability and normal level. Journal of Molecular Biology, 1981, 149, 133-139.	2.0	23
80	Regulation of the l-arabinose transport operons in Escherichia coli. Journal of Molecular Biology, 1981, 151, 215-227.	2.0	54
81	Practical Methods in Molecular Biology. , 1981, , .		333
82	[79] Electron microscopy of proteins bound to DNA. Methods in Enzymology, 1980, 65, 885-896.	0.4	2
83	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
84	[2] Assaying of organisms for the presence of restriction endonucleases. Methods in Enzymology, 1980, 65, 19-23.	0.4	23
85	The araC promoter: Transcription, mapping and interaction with the araBAD promoter. Cell, 1977, 11, 545-550.	13.5	47
86	Overproducing araC protein with lambda-arabinose transducing phage. Molecular Genetics and Genomics, 1977, 157, 333-339.	2.4	35
87	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
88	High resolution electron microscopic studies of genetic regulation. Journal of Molecular Biology, 1976, 108, 471-490.	2.0	64
89	Electron microscopy of gene regulation: The L-arabinose operon. Proceedings of the National Academy of Sciences of the United States of America, 1976, 73, 1518-1522.	3.3	19
90	Paucity of sites mutable to constitutivity in the araC activator gene of the l-arabinose operon of Escherichia coli. Journal of Molecular Biology, 1975, 96, 185-199.	2.0	14

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91	The isolation and characterization of plaque-forming arabinose transducing bacteriophage $\lambda$ . Journal of Molecular Biology, 1975, 95, 395-407.	2.0	26
92	The regulatory region of the l-arabinose operon: Its isolation on a 1000 base-pair fragment from DNA heteroduplexes. Journal of Molecular Biology, 1975, 95, 409-416.	2.0	25
93	The regulatory region of the l-arabinose operon: A physical, genetic and physiological study. Journal of Molecular Biology, 1975, 95, 417-431.	2.0	26
94	Size fractionation of double-stranded DNA by precipitation with polyethylene glycol. Nucleic Acids Research, 1975, 2, 383-390.	6.5	206
95	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
96	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
97	In vivo experiments on the mechanism of action of l-arabinose C gene activator and lactose repressor. Journal of Molecular Biology, 1973, 80, 433-444.	2.0	38
98	Induction Kinetics of the l -Arabinose Operon of Escherichia coli. Journal of Bacteriology, 1973, 115, 9-14.	1.0	114
99	Novel Mutation to Dominant Fucose Resistance in the <i>l</i> -Arabinose Operon of Escherichia coli. Journal of Bacteriology, 1973, 115, 711-713.	1.0	4
100	The specificity of lamboid phage late gene induction (lamboid phage late gene specificity). Virology, 1972, 50, 610-612.	1.1	16
101	Dual control of arabinose genes on transducing phage $\lambda$ data. Journal of Molecular Biology, 1971, 59, 127-150.	2.0	50
102	l-arabinose operon messenger of Escherichia coli. Journal of Molecular Biology, 1971, 61, 275-279.	2.0	5
103	Lambda lysozyme synthesis in the absence of N protein. Virology, 1971, 45, 532-533.	1.1	4
104	Arabinose C Protein: Regulation of the Arabinose Operon in vitro. Nature: New Biology, 1971, 233, 166-170.	4.5	156
105	Factor Necessary for Ribosomal RNA Synthesis. Nature, 1970, 228, 748-751.	13.7	160
106	Isolation and Characterization of a Streptolydigin Resistant RNA Polymerase. Nature, 1969, 223, 1068-1069.	13.7	116
107	An l-arabinose binding protein and arabinose permeation in Escherichia coli. Journal of Molecular Biology, 1969, 46, 185-196.	2.0	135
108	Induction of the L-arabinose operon. Journal of Molecular Biology, 1969, 46, 197-199.	2.0	15

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109	Control of production of ribosomal protein. <i>Journal of Molecular Biology</i> , 1967, 27, 41-55.	2.0	185
110	The metabolic stability of ribosomal protein. <i>Molecular Genetics and Genomics</i> , 1967, 100, 252-255.	2.4	8