

# Robert F Schleif

## List of Publications by Citations

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107  
papers

4,748  
citations

37  
h-index

67  
g-index

110  
ext. papers

5,067  
ext. citations

8.4  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
107	DNA looping. <i>Annual Review of Biochemistry</i> , <b>1992</b> , 61, 199-223	29.1	421
106	Practical Methods in Molecular Biology <b>1981</b> ,		258
105	Regulation of the L-arabinose operon of Escherichia coli. <i>Trends in Genetics</i> , <b>2000</b> , 16, 559-65	8.5	189
104	Structural basis for ligand-regulated oligomerization of AraC. <i>Science</i> , <b>1997</b> , 276, 421-5	33.3	174
103	Size fractionation of double-stranded DNA by precipitation with polyethylene glycol. <i>Nucleic Acids Research</i> , <b>1975</b> , 2, 383-9	20.1	171
102	AraC protein, regulation of the l-arabinose operon in Escherichia coli, and the light switch mechanism of AraC action. <i>FEMS Microbiology Reviews</i> , <b>2010</b> , 34, 779-96	15.1	167
101	The Escherichia coli L-arabinose operon: binding sites of the regulatory proteins and a mechanism of positive and negative regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1980</b> , 77, 3346-50	11.5	167
100	Control of production of ribosomal protein. <i>Journal of Molecular Biology</i> , <b>1967</b> , 27, 41-55	6.5	153
99	Factor necessary for ribosomal RNA synthesis. <i>Nature</i> , <b>1970</b> , 228, 748-51	50.4	140
98	Regulation of the Escherichia coli L-arabinose operon studied by gel electrophoresis DNA binding assay. <i>Journal of Molecular Biology</i> , <b>1984</b> , 178, 611-28	6.5	139
97	Arabinose C protein: regulation of the arabinose operon in vitro. <i>Nature: New Biology</i> , <b>1971</b> , 233, 166-70		128
96	Mutations in LOXHD1, a recessive-deafness locus, cause dominant late-onset Fuchs corneal dystrophy. <i>American Journal of Human Genetics</i> , <b>2012</b> , 90, 533-9	11	115
95	An L-arabinose binding protein and arabinose permeation in Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1969</b> , 46, 185-96	6.5	113
94	Isolation and characterization of streptolydigin resistant RNA polymerase. <i>Nature</i> , <b>1969</b> , 223, 1068-9	50.4	97
93	AraC protein: a love-hate relationship. <i>BioEssays</i> , <b>2003</b> , 25, 274-82	4.1	88
92	A regulatory cascade in the induction of rhaBAD. <i>Journal of Molecular Biology</i> , <b>1993</b> , 234, 87-98	6.5	87
91	Induction kinetics of the L-arabinose operon of Escherichia coli. <i>Journal of Bacteriology</i> , <b>1973</b> , 115, 9-14	3.5	87

90	Determining residue-base interactions between AraC protein and aral DNA. <i>Journal of Molecular Biology</i> , <b>1989</b> , 209, 607-22	6.5	80
89	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> , <b>1987</b> , 196, 789-99	6.5	80
88	AraC-DNA looping: orientation and distance-dependent loop breaking by the cyclic AMP receptor protein. <i>Journal of Molecular Biology</i> , <b>1991</b> , 218, 45-54	6.5	75
87	Upstream repression and CRP stimulation of the Escherichia coli L-arabinose operon. <i>Journal of Molecular Biology</i> , <b>1984</b> , 180, 61-72	6.5	71
86	Different cyclic AMP requirements for induction of the arabinose and lactose operons of Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1973</b> , 79, 149-62	6.5	67
85	Arm-domain interactions in AraC. <i>Journal of Molecular Biology</i> , <b>1998</b> , 278, 539-48	6.5	65
84	Transcription of Escherichia coli ara in vitro. The cyclic AMP receptor protein requirement for PBAD induction that depends on the presence and orientation of the araO2 site. <i>Journal of Molecular Biology</i> , <b>1986</b> , 188, 355-67	6.5	64
83	DNA-dependent renaturation of an insoluble DNA binding protein. Identification of the RhaS binding site at rhaBAD. <i>Journal of Molecular Biology</i> , <b>1994</b> , 243, 821-9	6.5	55
82	High resolution electron microscopic studies of genetic regulation. <i>Journal of Molecular Biology</i> , <b>1976</b> , 108, 471-90	6.5	54
81	The 1.6 A crystal structure of the AraC sugar-binding and dimerization domain complexed with D-fucose. <i>Journal of Molecular Biology</i> , <b>1997</b> , 273, 226-37	6.5	53
80	Transcription activation parameters at ara pBAD. <i>Journal of Molecular Biology</i> , <b>1996</b> , 258, 14-24	6.5	51
79	Purification and properties of RhaR, the positive regulator of the L-rhamnose operons of Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1990</b> , 211, 75-89	6.5	51
78	AraC protein can activate transcription from only one position and when pointed in only one direction. <i>Journal of Molecular Biology</i> , <b>1993</b> , 231, 205-18	6.5	48
77	The role of rigidity in DNA looping-unlooping by AraC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 427-31	11.5	47
76	Apo-AraC actively seeks to loop. <i>Journal of Molecular Biology</i> , <b>1998</b> , 278, 529-38	6.5	47
75	Regulation of the L-arabinose transport operons in Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1981</b> , 151, 215-27	6.5	45
74	The araC promoter: transcription, mapping and interaction with the araBAD promoter. <i>Cell</i> , <b>1977</b> , 11, 545-50	56.2	42
73	The araE low affinity L-arabinose transport promoter. Cloning, sequence, transcription start site and DNA binding sites of regulatory proteins. <i>Journal of Molecular Biology</i> , <b>1983</b> , 171, 369-81	6.5	41

72	Dual control of arabinose genes on transducing phage lambda-dara. <i>Journal of Molecular Biology</i> , <b>1971</b> , 59, 127-50	6.5	39
71	Catabolite gene activator protein mutations affecting activity of the araBAD promoter. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 195-200	3.5	37
70	Mapping arm-DNA-binding domain interactions in AraC. <i>Journal of Molecular Biology</i> , <b>2001</b> , 307, 1001-9	6.5	35
69	Transcription from the rha operon psr promoter. <i>Journal of Molecular Biology</i> , <b>1990</b> , 211, 1-4	6.5	33
68	Deletion analysis of the Escherichia coli ara PC and PBAD promoters. <i>Journal of Molecular Biology</i> , <b>1984</b> , 180, 201-4	6.5	32
67	Hemiplegic mutations in AraC protein. <i>Journal of Molecular Biology</i> , <b>1999</b> , 294, 417-25	6.5	31
66	Overproducing araC protein with lambda-arabinose transducing phage. <i>Molecular Genetics and Genomics</i> , <b>1977</b> , 157, 333-9		30
65	Characterization of the Escherichia coli araFGH and araJ promoters. <i>Journal of Molecular Biology</i> , <b>1990</b> , 215, 497-510	6.5	29
64	In vivo experiments on the mechanism of action of L-arabinose C gene activator and lactose repressor. <i>Journal of Molecular Biology</i> , <b>1973</b> , 80, 433-44	6.5	29
63	Solution structure of the DNA binding domain of AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 77, 202-8	4.2	27
62	Biochemical and physiological properties of the DNA binding domain of AraC protein. <i>Journal of Molecular Biology</i> , <b>2004</b> , 340, 731-8	6.5	27
61	Arabinose-inducible promoter from Escherichia coli. Its cloning from chromosomal DNA, identification as the araFG promoter and sequence. <i>Journal of Molecular Biology</i> , <b>1982</b> , 156, 53-66	6.5	26
60	Structure and properties of a truly apo form of AraC dimerization domain. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 66, 646-54	4.2	25
59	Mutational analysis of residue roles in AraC function. <i>Journal of Molecular Biology</i> , <b>2003</b> , 328, 85-93	6.5	25
58	Is the amino acid but not the nucleotide sequence of the Escherichia coli araC gene conserved?. <i>Journal of Molecular Biology</i> , <b>1982</b> , 154, 649-52	6.5	24
57	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> , <b>1975</b> , 95, 409-16	6.5	23
56	Reaching out. Locating and lengthening the interdomain linker in AraC protein. <i>Journal of Molecular Biology</i> , <b>1994</b> , 242, 330-8	6.5	22
55	The regulatory region of the L-arabinose operon: a physical, genetic and physiological study. <i>Journal of Molecular Biology</i> , <b>1975</b> , 95, 417-31	6.5	22

54	Strengthened arm-dimerization domain interactions in AraC. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 2562-4	5.4	21
53	The isolation and characterization of plaque-forming arabinose transducing bacteriophage lambda. <i>Journal of Molecular Biology</i> , <b>1975</b> , 95, 395-407	6.5	21
52	Equilibrium DNA-binding of AraC protein. Compensation for displaced ions. <i>Journal of Molecular Biology</i> , <b>1987</b> , 195, 741-4	6.5	20
51	Identification of araC protein and two-dimensional gels, its in vivo instability and normal level. <i>Journal of Molecular Biology</i> , <b>1981</b> , 149, 133-9	6.5	20
50	Altered DNA contacts made by a mutant AraC protein. <i>Nucleic Acids Research</i> , <b>1985</b> , 13, 5019-26	20.1	18
49	Constitutive mutations in the Escherichia coli AraC protein. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 2668-74	3.5	17
48	Functional modes of the regulatory arm of AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 74, 81-91	4.2	17
47	Active role of the interdomain linker of AraC. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 5737-46	3.5	17
46	Assaying of organisms for the presence of restriction endonucleases. <i>Methods in Enzymology</i> , <b>1980</b> , 65, 19-23	1.7	17
45	Electron microscopy of gene regulation: the L-arabinose operon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1976</b> , 73, 1518-22	11.5	16
44	Biophysical evidence of arm-domain interactions in AraC. <i>Analytical Biochemistry</i> , <b>2001</b> , 295, 107-12	3.1	15
43	Recognition of overlapping nucleotides by AraC and the sigma subunit of RNA polymerase. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 5076-81	3.5	15
42	The specificity of lamboid phage late gene induction (lamboid phage late gene specificity). <i>Virology</i> , <b>1972</b> , 50, 610-2	3.6	15
41	DNA bending by AraC: a negative mutant. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 4227-32	3.5	14
40	Modulation of DNA binding by gene-specific transcription factors. <i>Biochemistry</i> , <b>2013</b> , 52, 6755-65	3.2	12
39	Cooperative action of the catabolite activator protein and AraC in vitro at the araFGH promoter. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 1995-2000	3.5	12
38	Induction of the L-arabinose operon. <i>Journal of Molecular Biology</i> , <b>1969</b> , 46, 197-9	6.5	12
37	Isolation and physical characterization of random insertions in Staphylococcal nuclease. <i>Journal of Molecular Biology</i> , <b>1998</b> , 282, 751-9	6.5	11

36	Paucity of sites mutable to constitutivity in the araC activator gene of the L-arabinose operon of Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1975</b> , 96, 185-99	6.5	11
35	A portable allosteric mechanism. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 57, 9-11	4.2	9
34	Transcription start site and induction kinetics of the araC regulatory gene in Escherichia coli K-12. <i>Journal of Molecular Biology</i> , <b>1983</b> , 170, 1049-53	6.5	8
33	DNA tape measurements of AraC. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 404-10	20.1	7
32	Specific interactions by the N-terminal arm inhibit self-association of the AraC dimerization domain. <i>Protein Science</i> , <b>2006</b> , 15, 2828-35	6.3	7
31	Spacing mutations between the Escherichia coli pBAD RNA polymerase binding site and the araC (I) induction site. <i>Nucleic Acids Research</i> , <b>1983</b> , 11, 1873-80	20.1	7
30	In vitro construction of plasmids which result in overproduction of the protein product of the araC gene of Escherichia coli. <i>Molecular Genetics and Genomics</i> , <b>1977</b> , 157, 341-4		7
29	In vivo association of protein fragments giving active AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1996</b> , 25, 501-5	4.2	7
28	A DNA-assisted binding assay for weak protein-protein interactions. <i>Journal of Molecular Biology</i> , <b>2009</b> , 394, 805-14	6.5	6
27	Arm-domain interactions can provide high binding cooperativity. <i>Protein Science</i> , <b>2004</b> , 13, 2829-31	6.3	6
26	Formation of AraC-DNA sandwiches. <i>Nucleic Acids Research</i> , <b>1993</b> , 21, 435-8	20.1	6
25	The metabolic stability of ribosomal protein. <i>Molecular Genetics and Genomics</i> , <b>1967</b> , 100, 252-5		6
24	Computational predictions of the mutant behavior of AraC. <i>Journal of Molecular Biology</i> , <b>2010</b> , 398, 462-70	6.9	5
23	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> , <b>2008</b> , 47, 4119-28	3.2	5
22	Modeling and studying proteins with molecular dynamics. <i>Methods in Enzymology</i> , <b>2004</b> , 383, 28-47	1.7	5
21	The C-terminal end of AraC tightly binds to the rest of its domain. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 4886-8	5.4	5
20	A genetic and physical study of the interdomain linker of E. Coli AraC protein--a trans-subunit communication pathway. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2016</b> , 84, 448-60	4.2	5
19	Stabilizing C-terminal tails on AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 42, 177-81	4.2	4

18	L-arabinose operon messenger of Escherichia coli. Its inducibility and translation efficiency relative to lactose operon messenger. <i>Journal of Molecular Biology</i> , <b>1971</b> , 61, 275-9	6.5	4
17	Heterodimers reveal that two arabinose molecules are required for the normal arabinose response of AraC. <i>Biochemistry</i> , <b>2012</b> , 51, 8085-91	3.2	3
16	A new and unexpected domain-domain interaction in the AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2012</b> , 80, 1465-75	4.2	3
15	Opposite allosteric mechanisms in TetR and CAP. <i>Protein Science</i> , <b>2009</b> , 18, 775-81	6.3	3
14	Novel mutation to dominant fucose resistance in the L-arabinose operon of Escherichia coli. <i>Journal of Bacteriology</i> , <b>1973</b> , 115, 711-3	3.5	3
13	Helical Behavior of the Interdomain Linker of the Escherichia coli AraC Protein. <i>Biochemistry</i> , <b>2019</b> , 58, 2867-2874	3.2	2
12	Arabinose Alters Both Local and Distal H-D Exchange Rates in the Escherichia coli AraC Transcriptional Regulator. <i>Biochemistry</i> , <b>2019</b> , 58, 2875-2882	3.2	2
11	Understanding the basis of a class of paradoxical mutations in AraC through simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2013</b> , 81, 490-8	4.2	2
10	Repression of the araBAD promoter from araO1. <i>Journal of Molecular Biology</i> , <b>1992</b> , 224, 335-41	6.5	2
9	Electron microscopy of proteins bound to DNA. <i>Methods in Enzymology</i> , <b>1980</b> , 65, 885-96	1.7	2
8	Lambda lysozyme synthesis in the absence of N protein. <i>Virology</i> , <b>1971</b> , 45, 532-3	3.6	2
7	Computational and experimental investigation of constitutive behavior in AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 3385-96	4.2	1
6	Building family traditions. <i>Molecular Microbiology</i> , <b>2004</b> , 53, 355-6	4.1	1
5	Identification of oligomerizing peptides. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 20017-21	5.4	1
4	In vivo association of protein fragments giving active AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1996</b> , 25, 501-505	4.2	1
3	Where to From Here?. <i>Frontiers in Molecular Biosciences</i> , <b>2022</b> , 9, 848444	5.6	0
2	ara Operon <b>2004</b> , 116-119		
1	The arabinose C gene product of Escherichia coli B-r is hyperlabile in a cell free protein synthesis system. <i>Molecular Genetics and Genomics</i> , <b>1974</b> , 128, 93-4		

