

Robert F Schleif

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4516820/robert-f-schleif-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Where to From Here?. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 848444 | 5.6 | 0 |
| 106 | Helical Behavior of the Interdomain Linker of the Escherichia coli AraC Protein. <i>Biochemistry</i> , 2019 , 58, 2867-2874 | 3.2 | 2 |
| 105 | Arabinose Alters Both Local and Distal H-D Exchange Rates in the Escherichia coli AraC Transcriptional Regulator. <i>Biochemistry</i> , 2019 , 58, 2875-2882 | 3.2 | 2 |
| 104 | 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> , 2016 , 84, 448-60 | 4.2 | 5 |
| 103 | Computational and experimental investigation of constitutive behavior in AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 3385-96 | 4.2 | 1 |
| 102 | Modulation of DNA binding by gene-specific transcription factors. <i>Biochemistry</i> , 2013 , 52, 6755-65 | 3.2 | 12 |
| 101 | Understanding the basis of a class of paradoxical mutations in AraC through simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 490-8 | 4.2 | 2 |
| 100 | Heterodimers reveal that two arabinose molecules are required for the normal arabinose response of AraC. <i>Biochemistry</i> , 2012 , 51, 8085-91 | 3.2 | 3 |
| 99 | A new and unexpected domain-domain interaction in the AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 1465-75 | 4.2 | 3 |
| 98 | Mutations in LOXHD1, a recessive-deafness locus, cause dominant late-onset Fuchs corneal dystrophy. <i>American Journal of Human Genetics</i> , 2012 , 90, 533-9 | 11 | 115 |
| 97 | Active role of the interdomain linker of AraC. <i>Journal of Bacteriology</i> , 2011 , 193, 5737-46 | 3.5 | 17 |
| 96 | AraC protein, regulation of the l-arabinose operon in Escherichia coli, and the light switch mechanism of AraC action. <i>FEMS Microbiology Reviews</i> , 2010 , 34, 779-96 | 15.1 | 167 |
| 95 | Computational predictions of the mutant behavior of AraC. <i>Journal of Molecular Biology</i> , 2010 , 398, 462-70 | 7.0 | 5 |
| 94 | Constitutive mutations in the Escherichia coli AraC protein. <i>Journal of Bacteriology</i> , 2009 , 191, 2668-74 | 3.5 | 17 |
| 93 | Functional modes of the regulatory arm of AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 74, 81-91 | 4.2 | 17 |
| 92 | Solution structure of the DNA binding domain of AraC protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 202-8 | 4.2 | 27 |
| 91 | Opposite allosteric mechanisms in TetR and CAP. <i>Protein Science</i> , 2009 , 18, 775-81 | 6.3 | 3 |

| | | | |
|----|--|------|----|
| 90 | A DNA-assisted binding assay for weak protein-protein interactions. <i>Journal of Molecular Biology</i> , 2009 , 394, 805-14 | 6.5 | 6 |
| 89 | 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, 4119-28 | 3.2 | 5 |
| 88 | DNA tape measurements of AraC. <i>Nucleic Acids Research</i> , 2008 , 36, 404-10 | 20.1 | 7 |
| 87 | Structure and properties of a truly apo form of AraC dimerization domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 66, 646-54 | 4.2 | 25 |
| 86 | Specific interactions by the N-terminal arm inhibit self-association of the AraC dimerization domain. <i>Protein Science</i> , 2006 , 15, 2828-35 | 6.3 | 7 |
| 85 | Arm-domain interactions can provide high binding cooperativity. <i>Protein Science</i> , 2004 , 13, 2829-31 | 6.3 | 6 |
| 84 | ara Operon 2004 , 116-119 | | |
| 83 | Modeling and studying proteins with molecular dynamics. <i>Methods in Enzymology</i> , 2004 , 383, 28-47 | 1.7 | 5 |
| 82 | Building family traditions. <i>Molecular Microbiology</i> , 2004 , 53, 355-6 | 4.1 | 1 |
| 81 | A portable allosteric mechanism. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 57, 9-11 | 4.2 | 9 |
| 80 | Biochemical and physiological properties of the DNA binding domain of AraC protein. <i>Journal of Molecular Biology</i> , 2004 , 340, 731-8 | 6.5 | 27 |
| 79 | AraC protein: a love-hate relationship. <i>BioEssays</i> , 2003 , 25, 274-82 | 4.1 | 88 |
| 78 | Mutational analysis of residue roles in AraC function. <i>Journal of Molecular Biology</i> , 2003 , 328, 85-93 | 6.5 | 25 |
| 77 | Stabilizing C-terminal tails on AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , 42, 177-81 | 4.2 | 4 |
| 76 | Biophysical evidence of arm-domain interactions in AraC. <i>Analytical Biochemistry</i> , 2001 , 295, 107-12 | 3.1 | 15 |
| 75 | Identification of oligomerizing peptides. <i>Journal of Biological Chemistry</i> , 2001 , 276, 20017-21 | 5.4 | 1 |
| 74 | Strengthened arm-dimerization domain interactions in AraC. <i>Journal of Biological Chemistry</i> , 2001 , 276, 2562-4 | 5.4 | 21 |
| 73 | 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> , 2001 , 98, 427-31 | 11.5 | 47 |

| | | | |
|----|---|------|-----|
| 72 | The C-terminal end of AraC tightly binds to the rest of its domain. <i>Journal of Biological Chemistry</i> , 2001 , 276, 4886-8 | 5.4 | 5 |
| 71 | Mapping arm-DNA-binding domain interactions in AraC. <i>Journal of Molecular Biology</i> , 2001 , 307, 1001-9 | 6.5 | 35 |
| 70 | Regulation of the L-arabinose operon of Escherichia coli. <i>Trends in Genetics</i> , 2000 , 16, 559-65 | 8.5 | 189 |
| 69 | Recognition of overlapping nucleotides by AraC and the sigma subunit of RNA polymerase. <i>Journal of Bacteriology</i> , 2000 , 182, 5076-81 | 3.5 | 15 |
| 68 | Cooperative action of the catabolite activator protein and AraC in vitro at the araFGH promoter. <i>Journal of Bacteriology</i> , 2000 , 182, 1995-2000 | 3.5 | 12 |
| 67 | Hemiplegic mutations in AraC protein. <i>Journal of Molecular Biology</i> , 1999 , 294, 417-25 | 6.5 | 31 |
| 66 | Arm-domain interactions in AraC. <i>Journal of Molecular Biology</i> , 1998 , 278, 539-48 | 6.5 | 65 |
| 65 | Apo-AraC actively seeks to loop. <i>Journal of Molecular Biology</i> , 1998 , 278, 529-38 | 6.5 | 47 |
| 64 | Isolation and physical characterization of random insertions in Staphylococcal nuclease. <i>Journal of Molecular Biology</i> , 1998 , 282, 751-9 | 6.5 | 11 |
| 63 | DNA bending by AraC: a negative mutant. <i>Journal of Bacteriology</i> , 1998 , 180, 4227-32 | 3.5 | 14 |
| 62 | Catabolite gene activator protein mutations affecting activity of the araBAD promoter. <i>Journal of Bacteriology</i> , 1998 , 180, 195-200 | 3.5 | 37 |
| 61 | The 1.6 Å crystal structure of the AraC sugar-binding and dimerization domain complexed with D-fucose. <i>Journal of Molecular Biology</i> , 1997 , 273, 226-37 | 6.5 | 53 |
| 60 | Structural basis for ligand-regulated oligomerization of AraC. <i>Science</i> , 1997 , 276, 421-5 | 33.3 | 174 |
| 59 | Transcription activation parameters at ara pBAD. <i>Journal of Molecular Biology</i> , 1996 , 258, 14-24 | 6.5 | 51 |
| 58 | In vivo association of protein fragments giving active AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 25, 501-505 | 4.2 | 1 |
| 57 | In vivo association of protein fragments giving active AraC. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 25, 501-5 | 4.2 | 7 |
| 56 | Reaching out. Locating and lengthening the interdomain linker in AraC protein. <i>Journal of Molecular Biology</i> , 1994 , 242, 330-8 | 6.5 | 22 |
| 55 | DNA-dependent renaturation of an insoluble DNA binding protein. Identification of the RhaS binding site at rhaBAD. <i>Journal of Molecular Biology</i> , 1994 , 243, 821-9 | 6.5 | 55 |

| | | | |
|----|--|------|-----|
| 54 | AraC protein can activate transcription from only one position and when pointed in only one direction. <i>Journal of Molecular Biology</i> , 1993 , 231, 205-18 | 6.5 | 48 |
| 53 | A regulatory cascade in the induction of rhaBAD. <i>Journal of Molecular Biology</i> , 1993 , 234, 87-98 | 6.5 | 87 |
| 52 | Formation of AraC-DNA sandwiches. <i>Nucleic Acids Research</i> , 1993 , 21, 435-8 | 20.1 | 6 |
| 51 | Repression of the araBAD promoter from araO1. <i>Journal of Molecular Biology</i> , 1992 , 224, 335-41 | 6.5 | 2 |
| 50 | DNA looping. <i>Annual Review of Biochemistry</i> , 1992 , 61, 199-223 | 29.1 | 421 |
| 49 | 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 | 6.5 | 75 |
| 48 | Characterization of the Escherichia coli araFGH and araJ promoters. <i>Journal of Molecular Biology</i> , 1990 , 215, 497-510 | 6.5 | 29 |
| 47 | Transcription from the rha operon psr promoter. <i>Journal of Molecular Biology</i> , 1990 , 211, 1-4 | 6.5 | 33 |
| 46 | 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 | 6.5 | 51 |
| 45 | Determining residue-base interactions between AraC protein and aral DNA. <i>Journal of Molecular Biology</i> , 1989 , 209, 607-22 | 6.5 | 80 |
| 44 | Equilibrium DNA-binding of AraC protein. Compensation for displaced ions. <i>Journal of Molecular Biology</i> , 1987 , 195, 741-4 | 6.5 | 20 |
| 43 | 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, 789-99 | 6.5 | 80 |
| 42 | 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> , 1986 , 188, 355-67 | 6.5 | 64 |
| 41 | Altered DNA contacts made by a mutant AraC protein. <i>Nucleic Acids Research</i> , 1985 , 13, 5019-26 | 20.1 | 18 |
| 40 | Regulation of the Escherichia coli L-arabinose operon studied by gel electrophoresis DNA binding assay. <i>Journal of Molecular Biology</i> , 1984 , 178, 611-28 | 6.5 | 139 |
| 39 | Upstream repression and CRP stimulation of the Escherichia coli L-arabinose operon. <i>Journal of Molecular Biology</i> , 1984 , 180, 61-72 | 6.5 | 71 |
| 38 | Deletion analysis of the Escherichia coli ara PC and PBAD promoters. <i>Journal of Molecular Biology</i> , 1984 , 180, 201-4 | 6.5 | 32 |
| 37 | Transcription start site and induction kinetics of the araC regulatory gene in Escherichia coli K-12. <i>Journal of Molecular Biology</i> , 1983 , 170, 1049-53 | 6.5 | 8 |

| | | | |
|----|---|------|-----|
| 36 | 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> , 1983 , 171, 369-81 | 6.5 | 41 |
| 35 | Spacing mutations between the Escherichia coli pBAD RNA polymerase binding site and the araC (I) induction site. <i>Nucleic Acids Research</i> , 1983 , 11, 1873-80 | 20.1 | 7 |
| 34 | Is the amino acid but not the nucleotide sequence of the Escherichia coli araC gene conserved?. <i>Journal of Molecular Biology</i> , 1982 , 154, 649-52 | 6.5 | 24 |
| 33 | Arabinose-inducible promoter from Escherichia coli. Its cloning from chromosomal DNA, identification as the araFG promoter and sequence. <i>Journal of Molecular Biology</i> , 1982 , 156, 53-66 | 6.5 | 26 |
| 32 | Identification of araC protein and two-dimensional gels, its in vivo instability and normal level. <i>Journal of Molecular Biology</i> , 1981 , 149, 133-9 | 6.5 | 20 |
| 31 | Regulation of the L-arabinose transport operons in Escherichia coli. <i>Journal of Molecular Biology</i> , 1981 , 151, 215-27 | 6.5 | 45 |
| 30 | Practical Methods in Molecular Biology 1981 , | | 258 |
| 29 | Electron microscopy of proteins bound to DNA. <i>Methods in Enzymology</i> , 1980 , 65, 885-96 | 1.7 | 2 |
| 28 | 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> , 1980 , 77, 3346-50 | 11.5 | 167 |
| 27 | Assaying of organisms for the presence of restriction endonucleases. <i>Methods in Enzymology</i> , 1980 , 65, 19-23 | 1.7 | 17 |
| 26 | The araC promoter: transcription, mapping and interaction with the araBAD promoter. <i>Cell</i> , 1977 , 11, 545-50 | 56.2 | 42 |
| 25 | Overproducing araC protein with lambda-arabinose transducing phage. <i>Molecular Genetics and Genomics</i> , 1977 , 157, 333-9 | | 30 |
| 24 | 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> , 1977 , 157, 341-4 | | 7 |
| 23 | High resolution electron microscopic studies of genetic regulation. <i>Journal of Molecular Biology</i> , 1976 , 108, 471-90 | 6.5 | 54 |
| 22 | 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, 1518-22 | 11.5 | 16 |
| 21 | 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> , 1975 , 96, 185-99 | 6.5 | 11 |
| 20 | The isolation and characterization of plaque-forming arabinose transducing bacteriophage lambda. <i>Journal of Molecular Biology</i> , 1975 , 95, 395-407 | 6.5 | 21 |
| 19 | 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, 409-16 | 6.5 | 23 |

| | | | |
|----|---|------|-----|
| 18 | The regulatory region of the L-arabinose operon: a physical, genetic and physiological study. <i>Journal of Molecular Biology</i> , 1975 , 95, 417-31 | 6.5 | 22 |
| 17 | Size fractionation of double-stranded DNA by precipitation with polyethylene glycol. <i>Nucleic Acids Research</i> , 1975 , 2, 383-9 | 20.1 | 171 |
| 16 | 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> , 1974 , 128, 93-4 | | |
| 15 | Different cyclic AMP requirements for induction of the arabinose and lactose operons of Escherichia coli. <i>Journal of Molecular Biology</i> , 1973 , 79, 149-62 | 6.5 | 67 |
| 14 | 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, 433-44 | 6.5 | 29 |
| 13 | Induction kinetics of the L-arabinose operon of Escherichia coli. <i>Journal of Bacteriology</i> , 1973 , 115, 9-14 | 3.5 | 87 |
| 12 | Novel mutation to dominant fucose resistance in the L-arabinose operon of Escherichia coli. <i>Journal of Bacteriology</i> , 1973 , 115, 711-3 | 3.5 | 3 |
| 11 | The specificity of lamboid phage late gene induction (lamboid phage late gene specificity). <i>Virology</i> , 1972 , 50, 610-2 | 3.6 | 15 |
| 10 | Dual control of arabinose genes on transducing phage lambda-dara. <i>Journal of Molecular Biology</i> , 1971 , 59, 127-50 | 6.5 | 39 |
| 9 | L-arabinose operon messenger of Escherichia coli. Its inducibility and translation efficiency relative to lactose operon messenger. <i>Journal of Molecular Biology</i> , 1971 , 61, 275-9 | 6.5 | 4 |
| 8 | Lambda lysozyme synthesis in the absence of N protein. <i>Virology</i> , 1971 , 45, 532-3 | 3.6 | 2 |
| 7 | Arabinose C protein: regulation of the arabinose operon in vitro. <i>Nature: New Biology</i> , 1971 , 233, 166-70 | | 128 |
| 6 | Factor necessary for ribosomal RNA synthesis. <i>Nature</i> , 1970 , 228, 748-51 | 50.4 | 140 |
| 5 | Isolation and characterization of streptolydigin resistant RNA polymerase. <i>Nature</i> , 1969 , 223, 1068-9 | 50.4 | 97 |
| 4 | An L-arabinose binding protein and arabinose permeation in Escherichia coli. <i>Journal of Molecular Biology</i> , 1969 , 46, 185-96 | 6.5 | 113 |
| 3 | Induction of the L-arabinose operon. <i>Journal of Molecular Biology</i> , 1969 , 46, 197-9 | 6.5 | 12 |
| 2 | Control of production of ribosomal protein. <i>Journal of Molecular Biology</i> , 1967 , 27, 41-55 | 6.5 | 153 |
| 1 | The metabolic stability of ribosomal protein. <i>Molecular Genetics and Genomics</i> , 1967 , 100, 252-5 | | 6 |

