Julian Davies

List of Publications by Year in descending order

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132 papers	18,502 citations	22099 59 h-index	13727 129 g-index
141 all docs	141 docs citations	141 times ranked	19416 citing authors

#	Article	IF	Citations
1	Origins and Evolution of Antibiotic Resistance. Microbiology and Molecular Biology Reviews, 2010, 74, 417-433.	2.9	4,061
2	Call of the wild: antibiotic resistance genes in natural environments. Nature Reviews Microbiology, 2010, 8, 251-259.	13.6	1,733
3	Tackling antibiotic resistance. Nature Reviews Microbiology, 2011, 9, 894-896.	13.6	919
4	Plasmid-encoded hygromycin B resistance: the sequence of hygromycin B phosphotransferase gene and its expression in Escherichia coli and Saccharomyces cerevisiae. Gene, 1983, 25, 179-188.	1.0	870
5	The world of subinhibitory antibiotic concentrations. Current Opinion in Microbiology, 2006, 9, 445-453.	2.3	630
6	Horizontal gene transfer and the origin of species: lessons from bacteria. Trends in Microbiology, 2000, 8, 128-133.	3.5	474
7	Antibiotics as signalling molecules. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1195-1200.	1.8	463
8	Transcriptional modulation of bacterial gene expression by subinhibitory concentrations of antibiotics. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 17025-17030.	3.3	462
9	Expression of a transposable antibiotic resistance element in Saccharomyces. Nature, 1980, 287, 869-871.	13.7	450
10	A Distinctive Class of Integron in the Vibrio cholerae Genome. Science, 1998, 280, 605-608.	6.0	361
11	Bacterial resistance to aminoglycoside antibiotics. Trends in Microbiology, 1997, 5, 234-240.	3.5	357
12	Large Scale Identification of Genes Involved in Cell Surface Biosynthesis and Architecture in Saccharomyces cerevisiae. Genetics, 1997, 147, 435-450.	1.2	350
13	Antibiotic Resistance in the ECOR Collection: Integrons and Identification of a Novel aad Gene. Antimicrobial Agents and Chemotherapy, 2000, 44, 1568-1574.	1.4	304
14	Antibiotic inhibition of group I ribozyme function. Nature, 1991, 353, 368-370.	13.7	278
15	Phenotypic suppression and misreading in Saccharomyces cerevisiae. Nature, 1979, 277, 146-148.	13.7	261
16	Novel Natural Products from Soil DNA Libraries in a Streptomycete Host. Organic Letters, 2000, 2, 2401-2404.	2.4	247
17	Transposition of an antibiotic resistance element in mycobacteria. Nature, 1990, 345, 739-743.	13.7	229
18	Are antibiotics naturally antibiotics?. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 496-499.	1.4	224

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19	The truth about antibiotics. International Journal of Medical Microbiology, 2006, 296, 163-170.	1.5	186
20	Enzymic acetylation of aminoglycoside antibiotics by Excherichia coli carrying an R factor. Biochemistry, 1971, 10, 1787-1796.	1.2	168
21	Uncialamycin, A New Enediyne Antibiotic. Organic Letters, 2005, 7, 5233-5236.	2.4	154
22	On the evolution of Tn21-like multiresistance transposons: Sequence analysis of the gene (aacC1) for gentamicin acetyltransferase-3-I(AAC(3)-I), another member of the Tn21-based expression cassette. Molecular Genetics and Genomics, 1989, 217, 202-208.	2.4	153
23	Inhibition of the Self-cleavage Reaction of the Human Hepatitis Delta Virus Ribozyme by Antibiotics. Journal of Molecular Biology, 1996, 259, 916-925.	2.0	144
24	Catabolism of Benzoate and Phthalate in Rhodococcus sp. Strain RHA1: Redundancies and Convergence. Journal of Bacteriology, 2005, 187, 4050-4063.	1.0	140
25	R-factor mediated gentamicin resistance: A new enzyme which modifies aminoglycoside antibiotics. FEBS Letters, 1971, 14, 293-296.	1.3	136
26	Bugs, drugs and chemical genomics. Nature Chemical Biology, 2012, 8, 46-56.	3.9	130
27	Specialized microbial metabolites: functions and origins. Journal of Antibiotics, 2013, 66, 361-364.	1.0	130
28	Genetic mapping of the regulator and operator genes of the lac operon. Journal of Molecular Biology, 1968, 36, 413-417.	2.0	129
29	Non-competitive inhibition of group I intron RNA self-splicing by aminoglycoside antibiotics. Journal of Molecular Biology, 1992, 226, 935-941.	2.0	127
30	Introducing the Parvome: Bioactive Compounds in the Microbial World. ACS Chemical Biology, 2012, 7, 252-259.	1.6	125
31	A New Selective Agent for Eukaryotic Cloning Vectors. American Journal of Tropical Medicine and Hygiene, 1980, 29, 1089-1092.	0.6	123
32	Bacterial single-stranded DNA-binding proteins are phosphorylated on tyrosine. Nucleic Acids Research, 2006, 34, 1588-1596.	6.5	122
33	Enzymatic Inactivation of Streptomycin by R Factor-resistant Escherichia coli. Nature, 1968, 219, 288-291.	13.7	121
34	Microbes have the last word. EMBO Reports, 2007, 8, 616-621.	2.0	121
35	Gentamicin resistance in strains of Pseudomonas aeruginosa mediated by enzymic N-acetylation of the deoxystreptamine moiety. Biochemistry, 1972, 11, 761-766.	1.2	115
36	The Structure of U17 Isolated from Streptomyces clavuligerus and its Properties as an Antioxidant Thiol. FEBS Journal, 1995, 230, 821-825.	0.2	115

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37	Molecular characterization of bacterial diversity in Lodgepole pine (Pinus contorta) rhizosphere soils from British Columbia forest soils differing in disturbance and geographic source. FEMS Microbiology Ecology, 2002, 42, 347-357.	1.3	106
38	Molecular characterization of bacterial diversity from British Columbia forest soils subjected to disturbance. Canadian Journal of Microbiology, 2002, 48, 655-674.	0.8	103
39	Aminoglycoside-Inactivating Enzymes in Clinical Isolates of Streptococcus Faecalis. Journal of Clinical Investigation, 1978, 62, 480-486.	3.9	102
40	Characterization of the Protocatechuic Acid Catabolic Gene Cluster from Streptomyces sp. Strain 2065. Applied and Environmental Microbiology, 2000, 66, 1499-1508.	1.4	93
41	Cladoniamides Aâ˜G, Tryptophan-Derived Alkaloids Produced in Culture by Streptomyces uncialis. Organic Letters, 2008, 10, 3501-3504.	2.4	89
42	Effects of Subinhibitory Concentrations of Antibiotics on SOS and DNA Repair Gene Expression in Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2008, 52, 3394-3397.	1.4	89
43	Dual Effects of MLS Antibiotics. Chemistry and Biology, 2004, 11, 1307-1316.	6.2	88
44	Novel Pathway of Salicylate Degradation by Streptomyces sp. Strain WA46. Applied and Environmental Microbiology, 2004, 70, 1297-1306.	1.4	85
45	Molecular Characterization of Class 3 Integrons from Delftia spp. Journal of Bacteriology, 2007, 189, 6276-6283.	1.0	85
46	Actinobacteria: the good, the bad, and the ugly. Antonie Van Leeuwenhoek, 2010, 98, 143-150.	0.7	85
47	Effect of spectinomycin on polypeptide synthesis in extracts of Escherichia coli. Journal of Molecular Biology, 1967, 29, 203-215.	2.0	83
48	Heterologous production of daptomycin in Streptomyces lividans. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 121-128.	1.4	81
49	How to discover new antibiotics: harvesting the parvome. Current Opinion in Chemical Biology, 2011, 15, 5-10.	2.8	79
50	Trichodermin resistanceâ€”mutation affecting eukaryotic ribosomes. Nature, 1974, 248, 535-536.	13.7	76
51	Enzymatic Acetylation as a Means of Determining Serum Aminoglycoside Concentrations. Antimicrobial Agents and Chemotherapy, 1973, 4, 497-499.	1.4	75
52	Roles of Ring-Hydroxylating Dioxygenases in Styrene and Benzene Catabolism in Rhodococcus jostii RHA1. Journal of Bacteriology, 2008, 190, 37-47.	1.0	75
53	Plasmid-Mediated Aminoglycoside Phosphotransferase of Broad Substrate Range That Phosphorylates Amikacin. Antimicrobial Agents and Chemotherapy, 1977, 11, 619-624.	1.4	70
54	Rapid identification and characterization of hammerhead-ribozyme inhibitors using fluorescence-based technology. Nature Biotechnology, 2001, 19, 56-61.	9.4	70

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55	Isolation and nucleotide sequence of theAspergillus restrictusgene coding for the ribonucleolytic toxin restrictocin and its expression inAspergillus nidulans: the leader sequence protects producing strains from suicide. Nucleic Acids Research, 1991, 19, 1001-1006.	6.5	68
56	Characterization of a vanillic acid non-oxidative decarboxylation gene cluster from Streptomyces sp. D7 The GenBank accession number for the sequence reported in this paper is AF134589.. Microbiology (United Kingdom), 1999, 145, 2393-2403.	0.7	68
57	Functional Characterization of a Catabolic Plasmid from Polychlorinated- Biphenyl-Degrading Rhodococcus sp. Strain RHA1. Journal of Bacteriology, 2004, 186, 7783-7795.	1.0	65
58	Peptide antibiotics of the tuberactinomycin family as inhibitors of group I intron RNA splicing. Journal of Molecular Biology, 1994, 236, 1001-1010.	2.0	64
59	Mechanisms of resistance to aminoglycosides. American Journal of Medicine, 1977, 62, 868-872.	0.6	62
60	Transcription Modulation of Salmonella enterica Serovar Typhimurium Promoters by Sub-MIC Levels of Rifampin. Journal of Bacteriology, 2006, 188, 7988-7991.	1.0	59
61	Modulation of virulence gene expression by cell wall active antibiotics in Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2011, 66, 979-984.	1.3	59
62	Fungal ribotoxins: a family of naturally engineered targeted toxins?. Biochemistry and Cell Biology, 1995, 73, 1151-1159.	0.9	55
63	Identifying Protein Kinase Inhibitors Using an Assay Based on Inhibition of Aerial Hyphae Formation in Streptomyces.. Journal of Antibiotics, 2002, 55, 407-416.	1.0	54
64	Effects of Apramycin, a Novel Aminoglycoside Antibiotic on Bacterial Protein Synthesis. FEBS Journal, 1979, 99, 623-628.	0.2	51
65	Suppression of Staphylococcus aureus virulence by a small-molecule compound. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8003-8008.	3.3	49
66	Ribotoxins are a more widespread group of proteins within the filamentous fungi than previously believed. Toxicon, 1999, 37, 1549-1563.	0.8	47
67	RNase U2 and Î±-Sarcin: A Study of Relationships. Methods in Enzymology, 2001, 341, 335-351.	0.4	44
68	Proteomic Analysis of Survival of Rhodococcus jostii RHA1 during Carbon Starvation. Applied and Environmental Microbiology, 2012, 78, 6714-6725.	1.4	43
69	Protein tyrosine phosphorylation in streptomycetes. FEMS Microbiology Letters, 1994, 120, 187-190.	0.7	42
70	Mitogillin and Related Fungal Ribotoxins. Methods in Enzymology, 2001, 341, 324-335.	0.4	40
71	Improved lux reporters for use in Staphylococcus aureus. Plasmid, 2009, 61, 182-187.	0.4	40
72	General Mechanisms of Antimicrobial Resistance. Clinical Infectious Diseases, 1979, 1, 23-27.	2.9	39

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73	Kisameet Clay Exhibits Potent Antibacterial Activity against the ESKAPE Pathogens. MBio, 2016, 7, e01842-15.	1.8	39
74	Molecular Dissection of Mitogillin Reveals That the Fungal Ribotoxins Are a Family of Natural Genetically Engineered Ribonucleases. Journal of Biological Chemistry, 1999, 274, 12576-12582.	1.6	37
75	Cultivation-dependent characterization of bacterial diversity from British Columbia forest soils subjected to disturbance. Canadian Journal of Microbiology, 2002, 48, 643-654.	0.8	37
76	Dehydrosqualene Desaturase as a Novel Target for Anti-Virulence Therapy againstStaphylococcus aureus. MBio, 2017, 8, .	1.8	37
77	In vivo and in vitro phosphorylation of ribosomal proteins by protein kinases from Saccharomyces cerevisiae. Biochemistry, 1976, 15, 2289-2296.	1.2	33
78	Chapter 2 Inhibitors of Macromolecular Synthesis in Yeast. Methods in Cell Biology, 1975, 12, 17-38.	0.5	32
79	Methylation of proteins in 60 S ribosomal subunits fromSaccharomyces cerevisiae. FEBS Letters, 1977, 75, 187-191.	1.3	30
80	Involvement of the amino-terminal Î²-hairpin of theAspergillusribotoxins on the interaction with membrances and nonspecific ribonuclease activity. Protein Science, 2001, 10, 1658-1668.	3.1	30
81	Antimicrobial Resistance Gene Delivery in Animal Feeds. Emerging Infectious Diseases, 2004, 10, 679-683.	2.0	30
82	Coumabiocins Aâ”F, Aminocoumarins from an Organic Extract of Streptomyces sp. L-4-4. Journal of Natural Products, 2010, 73, 880-884.	1.5	29
83	Isolation and characterization of Streptomyces sp. NL15-2K capable of degrading lignin-related aromatic compounds. Journal of Bioscience and Bioengineering, 2006, 102, 124-127.	1.1	26
84	Human microbiome science: vision for the future, Bethesda, MD, July 24 to 26, 2013. Microbiome, 2014, 2, .	4.9	25
85	Components of Eukaryotic-like Protein Signaling Pathways inMycobacterium tuberculosis. Microbial & Comparative Genomics, 1997, 2, 63-73.	0.6	24
86	The 1.5 Ã... crystal structure of a bleomycin resistance determinant from bleomycin-producing Streptomyces verticillus. Journal of Molecular Biology, 2000, 295, 915-925.	2.0	24
87	Phenotypic changes in ciprofloxacin-resistant Staphylococcus aureus. Research in Microbiology, 2009, 160, 785-791.	1.0	24
88	Small molecules: The lexicon of biodiversity. Journal of Biotechnology, 2007, 129, 3-5.	1.9	23
89	The Whys and Wherefores of Antibiotic Resistance. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a025171.	2.9	22
90	The pseudodisaccharides: a novel class of group I intron splicing inhibitors. Nucleic Acids Research, 1994, 22, 4983-4988.	6.5	21

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91	Complex integrons containing qnrB4-ampC (blaDHA-1) in plasmids of multidrug-resistant Citrobacter freundii from wastewater. Canadian Journal of Microbiology, 2013, 59, 110-116.	0.8	21
92	Characterization of the plasmids comprising the â€œR Factorâ€•R5 and their relationships to other R plasmids. Plasmid, 1980, 3, 260-277.	0.4	20
93	Class 1 and class 2 integrons in multidrug-resistant gram-negative bacteria isolated from the Salmon River, British Columbia. Canadian Journal of Microbiology, 2011, 57, 460-467.	0.8	20
94	Herbicidin Congeners, Undecose Nucleosides from an Organic Extract of Streptomyces sp. L-9-10. Journal of Natural Products, 2014, 77, 227-233.	1.5	20
95	Kisameet Glacial Clay: an Unexpected Source of Bacterial Diversity. MBio, 2017, 8, .	1.8	18
96	A cold-sensitive mutant of Saccharomyces cerevisiae defective in ribosome processing. Molecular Genetics and Genomics, 1979, 175, 313-323.	2.4	16
97	A new look at antibiotic resistance. FEMS Microbiology Letters, 1986, 39, 363-371.	0.7	16
98	Darwin and microbiomes. EMBO Reports, 2009, 10, 805-805.	2.0	16
99	Staphylococcus aureus promoter-lux reporters for drug discovery. Journal of Antibiotics, 2010, 63, 492-498.	1.0	16
100	Unciaphenol, an Oxygenated Analogue of the Bergman Cyclization Product of Uncialamycin Exhibits Anti-HIV Activity. Organic Letters, 2015, 17, 5304-5307.	2.4	16
101	What Is the Mechanism of Plasmid-Determined Resistance to Aminoglycoside Antibiotics?. Topics in Infectious Diseases, 1977, , 207-219.	0.6	16
102	Single amino acid substitutions affecting the specificity of the fungal ribotoxin mitogillin. FEBS Letters, 2000, 466, 87-90.	1.3	15
103	Characterization of a mycothiol ligase mutant of Rhodococcus jostii RHA1. Research in Microbiology, 2008, 159, 643-650.	1.0	12
104	Accidental release of antibiotic-resistance genes. Trends in Biotechnology, 1994, 12, 74-75.	4.9	11
105	Antibiotic resistance and the golden age of microbiology. Upsala Journal of Medical Sciences, 2014, 119, 65-67.	0.4	11
106	Unanswered questions concerning antibiotic resistance. Clinical Microbiology and Infection, 1998, 4, 2-3.	2.8	10
107	Construction of a Multiplex Promoter Reporter Platform to Monitor Staphylococcus aureus Virulence Gene Expression and the Identification of Usnic Acid as a Potent Suppressor of psm Gene Expression. Frontiers in Microbiology, 2016, 7, 1344.	1.5	10
108	Ribonuclease U2: cloning, production inPichia pastorisand affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	0.7	8

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109	Characterization of Two Isozymes of Coniferyl Alcohol Dehydrogenase fromStreptomycessp. NL15-2K. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1770-1777.	0.6	8
110	Errors in Translation. Progress in Molecular and Subcellular Biology, 1969, , 47-81.	0.9	8
111	Resistance redux. EMBO Reports, 2008, 9, S18-21.	2.0	7
112	Screening of Microbial Extracts for Anticancer Compounds Using Streptomyces Kinase Inhibitor Assay. Natural Product Communications, 2015, 10, 1934578X1501000.	0.2	6
113	Gathering No Moss. Annual Review of Microbiology, 2003, 57, 1-27.	2.9	5
114	Subinhibitory Concentrations of Antibiotics Exacerbate Staphylococcal Infection by Inducing Bacterial Virulence. Microbiology Spectrum, 2022, 10, .	1.2	5
115	Chapter 20. Mechanisms of Resistance to Antibiotics. Annual Reports in Medicinal Chemistry, 1972, 7, 217-227.	0.5	4
116	Microbial molecular diversity: Past and present Thom Award lecture. Journal of Industrial Microbiology, 1994, 13, 208-211.	0.9	4
117	Crystallization and preliminary X-ray diffraction studies of bleomycin-binding protein from bleomycin-producing Streptomyces verticillus. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 127-128.	2.5	4
118	Gene capture in Vibrio cholerae: Response. Trends in Microbiology, 1999, 7, 95.	3.5	4
119	Streptomycetes are special: arcane applications. Microbial Biotechnology, 2011, 4, 141-143.	2.0	4
120	A New Look at Secondary Metabolites. , 0, , 307-322.		4
121	Antibiotic Resistance in and from Nature. Microbiology Spectrum, 2013, 1, .	1.2	3
122	Antivirulence Agent as an Adjuvant of Î²-Lactam Antibiotics in Treating Staphylococcal Infections. Antibiotics, 2022, 11, 819.	1.5	3
123	Antibiotics and Antibiotic Resistance in Mycobacteria. , 0, , 287-306.		2
124	Production of bleomycin N-acetyltransferase in Escherichia coli and Streptomyces verticillus. , 0, .		2
125	A Mutant of Saccharomyces cerevisiae that Possesses Unusual Ribosomes. Biochemical Society Transactions, 1979, 7, 668-670.	1.6	1
126	Multiplication in specialization. Nature, 1986, 323, 368-368.	13.7	1

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127	Metagenomics and Antibiotic Discovery from Uncultivated Bacteria. Microbiology Monographs, 2008, , 217-236.	0.3	1
128	â€œA ce moment-lÃâ€• Research in Microbiology, 2014, 165, 351-352.	1.0	1
129	Antibiotic Resistance in and from Nature. , 0, , 183-194.		1
130	Aspects of the Molecular Genetics of Antibiotics. , 1998, , 285-299.		0
131	Structures and Properties of Ribotoxins. , 0, , 451-460.		0
132	From Party-Going Chemist to Worldly Microbiologist. , 0, , 66-70.		0