

Julian Davies

List of Publications by Citations

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131
papers

15,021
citations

57
h-index

122
g-index

141
ext. papers

16,691
ext. citations

9.2
avg, IF

6.74
L-index

#	Paper	IF	Citations
131	Origins and evolution of antibiotic resistance. <i>Microbiology and Molecular Biology Reviews</i> , 2010 , 74, 417-332	33.2	2956
130	Call of the wild: antibiotic resistance genes in natural environments. <i>Nature Reviews Microbiology</i> , 2010 , 8, 251-9	22.2	1364
129	Plasmid-encoded hygromycin B resistance: the sequence of hygromycin B phosphotransferase gene and its expression in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1983 , 25, 179-88	3.8	770
128	The world of subinhibitory antibiotic concentrations. <i>Current Opinion in Microbiology</i> , 2006 , 9, 445-53	7.9	516
127	Expression of a transposable antibiotic resistance element in <i>Saccharomyces</i> . <i>Nature</i> , 1980 , 287, 869-71	50.4	402
126	Horizontal gene transfer and the origin of species: lessons from bacteria. <i>Trends in Microbiology</i> , 2000 , 8, 128-33	12.4	388
125	Transcriptional modulation of bacterial gene expression by subinhibitory concentrations of antibiotics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 17025-30	11.5	387
124	Antibiotics as signalling molecules. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 1195-200	5.8	378
123	Bacterial resistance to aminoglycoside antibiotics. <i>Trends in Microbiology</i> , 1997 , 5, 234-40	12.4	311
122	A distinctive class of integron in the <i>Vibrio cholerae</i> genome. <i>Science</i> , 1998 , 280, 605-8	33.3	308
121	Large scale identification of genes involved in cell surface biosynthesis and architecture in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1997 , 147, 435-50	4	299
120	Antibiotic inhibition of group I ribozyme function. <i>Nature</i> , 1991 , 353, 368-70	50.4	256
119	Antibiotic resistance in the ECOR collection: integrons and identification of a novel aad gene. <i>Antimicrobial Agents and Chemotherapy</i> , 2000 , 44, 1568-74	5.9	238
118	Phenotypic suppression and misreading <i>Saccharomyces cerevisiae</i> . <i>Nature</i> , 1979 , 277, 146-8	50.4	223
117	Novel natural products from soil DNA libraries in a streptomycete host. <i>Organic Letters</i> , 2000 , 2, 2401-4	6.2	219
116	Transposition of an antibiotic resistance element in mycobacteria. <i>Nature</i> , 1990 , 345, 739-43	50.4	202
115	Are antibiotics naturally antibiotics?. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 496-9	4.2	177

114	The truth about antibiotics. <i>International Journal of Medical Microbiology</i> , 2006 , 296, 163-70	3.7	156
113	Enzymatic acetylation of aminoglycoside antibiotics by <i>Escherichia coli</i> carrying an R factor. <i>Biochemistry</i> , 1971 , 10, 1787-96	3.2	142
112	Inhibition of the self-cleavage reaction of the human hepatitis delta virus ribozyme by antibiotics. <i>Journal of Molecular Biology</i> , 1996 , 259, 916-25	6.5	132
111	Uncialamycin, a new enediyne antibiotic. <i>Organic Letters</i> , 2005 , 7, 5233-6	6.2	127
110	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. <i>Molecular Genetics and Genomics</i> , 1989 , 217, 202-8		123
109	Bugs, drugs and chemical genomics. <i>Nature Chemical Biology</i> , 2011 , 8, 46-56	11.7	118
108	Catabolism of benzoate and phthalate in <i>Rhodococcus</i> sp. strain RHA1: redundancies and convergence. <i>Journal of Bacteriology</i> , 2005 , 187, 4050-63	3.5	116
107	Non-competitive inhibition of group I intron RNA self-splicing by aminoglycoside antibiotics. <i>Journal of Molecular Biology</i> , 1992 , 226, 935-41	6.5	115
106	Genetic mapping of the regulator and operator genes of the lac operon. <i>Journal of Molecular Biology</i> , 1968 , 36, 413-7	6.5	110
105	A new selective agent for eukaryotic cloning vectors. <i>American Journal of Tropical Medicine and Hygiene</i> , 1980 , 29, 1089-92	3.2	106
104	Introducing the parvome: bioactive compounds in the microbial world. <i>ACS Chemical Biology</i> , 2012 , 7, 252-9	4.9	105
103	Bacterial single-stranded DNA-binding proteins are phosphorylated on tyrosine. <i>Nucleic Acids Research</i> , 2006 , 34, 1588-96	20.1	104
102	The structure of U17 isolated from <i>Streptomyces clavuligerus</i> and its properties as an antioxidant thiol. <i>FEBS Journal</i> , 1995 , 230, 821-5		102
101	Specialized microbial metabolites: functions and origins. <i>Journal of Antibiotics</i> , 2013 , 66, 361-4	3.7	98
100	R-factor mediated gentamicin resistance: A new enzyme which modifies aminoglycoside antibiotics. <i>FEBS Letters</i> , 1971 , 14, 293-296	3.8	97
99	Molecular characterization of bacterial diversity in Lodgepole pine (<i>Pinus contorta</i>) rhizosphere soils from British Columbia forest soils differing in disturbance and geographic source. <i>FEMS Microbiology Ecology</i> , 2002 , 42, 347-57	4.3	94
98	Molecular characterization of bacterial diversity from British Columbia forest soils subjected to disturbance. <i>Canadian Journal of Microbiology</i> , 2002 , 48, 655-74	3.2	94
97	Gentamicin resistance in strains of <i>Pseudomonas aeruginosa</i> mediated by enzymatic N-acetylation of the deoxystreptamine moiety. <i>Biochemistry</i> , 1972 , 11, 761-5	3.2	93

96	Microbes have the last word. A drastic re-evaluation of antimicrobial treatment is needed to overcome the threat of antibiotic-resistant bacteria. <i>EMBO Reports</i> , 2007 , 8, 616-21	6.5	92
95	Enzymatic inactivation of streptomycin by R factor-resistant <i>Escherichia coli</i> . <i>Nature</i> , 1968 , 219, 288-91	50.4	91
94	Dual effects of MLS antibiotics: transcriptional modulation and interactions on the ribosome. <i>Chemistry and Biology</i> , 2004 , 11, 1307-16		83
93	Cladoniamides A-G, tryptophan-derived alkaloids produced in culture by <i>Streptomyces uncialis</i> . <i>Organic Letters</i> , 2008 , 10, 3501-4	6.2	81
92	Characterization of the protocatechuic acid catabolic gene cluster from <i>Streptomyces</i> sp. strain 2065. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1499-508	4.8	79
91	Aminoglycoside-inactivating enzymes in clinical isolates of <i>Streptococcus faecalis</i> . An explanation for resistance to antibiotic synergism. <i>Journal of Clinical Investigation</i> , 1978 , 62, 480-6	15.9	79
90	Heterologous production of daptomycin in <i>Streptomyces lividans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 121-8	4.2	75
89	How to discover new antibiotics: harvesting the parvome. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 5-10	9.7	74
88	Novel pathway of salicylate degradation by <i>Streptomyces</i> sp. strain WA46. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1297-306	4.8	71
87	Effects of subinhibitory concentrations of antibiotics on SOS and DNA repair gene expression in <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 3394-7	5.9	70
86	Trichodermin resistance--mutation affecting eukaryotic ribosomes. <i>Nature</i> , 1974 , 248, 535-6	50.4	68
85	Enzymatic acetylation as a means of determining serum aminoglycoside concentrations. <i>Antimicrobial Agents and Chemotherapy</i> , 1973 , 4, 497-9	5.9	67
84	Rapid identification and characterization of hammerhead-ribozyme inhibitors using fluorescence-based technology. <i>Nature Biotechnology</i> , 2001 , 19, 56-61	44.5	65
83	Molecular characterization of class 3 integrons from <i>Delftia</i> spp. <i>Journal of Bacteriology</i> , 2007 , 189, 6276-83	5.3	64
82	Effect of spectinomycin on polypeptide synthesis in extracts of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1967 , 29, 203-15	6.5	64
81	Roles of ring-hydroxylating dioxygenases in styrene and benzene catabolism in <i>Rhodococcus jostii</i> RHA1. <i>Journal of Bacteriology</i> , 2008 , 190, 37-47	3.5	63
80	Isolation and nucleotide sequence of the <i>Aspergillus restrictus</i> gene coding for the ribonucleolytic toxin restrictocin and its expression in <i>Aspergillus nidulans</i> : the leader sequence protects producing strains from suicide. <i>Nucleic Acids Research</i> , 1991 , 19, 1001-6	20.1	63
79	Actinobacteria: the good, the bad, and the ugly. <i>Antonie Van Leeuwenhoek</i> , 2010 , 98, 143-50	2.1	62

78	Characterization of a vanillic acid non-oxidative decarboxylation gene cluster from <i>Streptomyces</i> sp. D7. <i>Microbiology (United Kingdom)</i> , 1999 , 145 (Pt 9), 2393-2403	2.9	62
77	Functional characterization of a catabolic plasmid from polychlorinated- biphenyl-degrading <i>Rhodococcus</i> sp. strain RHA1. <i>Journal of Bacteriology</i> , 2004 , 186, 7783-95	3.5	60
76	Mechanisms of resistance to aminoglycosides. <i>American Journal of Medicine</i> , 1977 , 62, 868-72	2.4	58
75	Peptide antibiotics of the tuberactinomycin family as inhibitors of group I intron RNA splicing. <i>Journal of Molecular Biology</i> , 1994 , 236, 1001-10	6.5	57
74	Plasmid-mediated aminoglycoside phosphotransferase of broad substrate range that phosphorylates amikacin. <i>Antimicrobial Agents and Chemotherapy</i> , 1977 , 11, 619-24	5.9	57
73	Fungal ribotoxins: a family of naturally engineered targeted toxins?. <i>Biochemistry and Cell Biology</i> , 1995 , 73, 1151-9	3.6	53
72	Modulation of virulence gene expression by cell wall active antibiotics in <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 979-84	5.1	52
71	Transcription modulation of <i>Salmonella enterica</i> serovar Typhimurium promoters by sub-MIC levels of rifampin. <i>Journal of Bacteriology</i> , 2006 , 188, 7988-91	3.5	52
70	Identifying protein kinase inhibitors using an assay based on inhibition of aerial hyphae formation in <i>Streptomyces</i> . <i>Journal of Antibiotics</i> , 2002 , 55, 407-16	3.7	48
69	Effects of apramycin, a novel aminoglycoside antibiotic on bacterial protein synthesis. <i>FEBS Journal</i> , 1979 , 99, 623-8		45
68	Ribotoxins are a more widespread group of proteins within the filamentous fungi than previously believed. <i>Toxicon</i> , 1999 , 37, 1549-63	2.8	42
67	RNase U2 and alpha-sarcin: a study of relationships. <i>Methods in Enzymology</i> , 2001 , 341, 335-51	1.7	40
66	Mitogillin and related fungal ribotoxins. <i>Methods in Enzymology</i> , 2001 , 341, 324-35	1.7	37
65	Protein tyrosine phosphorylation in streptomycetes. <i>FEMS Microbiology Letters</i> , 1994 , 120, 187-90	2.9	37
64	Improved lux reporters for use in <i>Staphylococcus aureus</i> . <i>Plasmid</i> , 2009 , 61, 182-7	3.3	36
63	Molecular dissection of mitogillin reveals that the fungal ribotoxins are a family of natural genetically engineered ribonucleases. <i>Journal of Biological Chemistry</i> , 1999 , 274, 12576-82	5.4	35
62	Cultivation-dependent characterization of bacterial diversity from British Columbia forest soils subjected to disturbance. <i>Canadian Journal of Microbiology</i> , 2002 , 48, 643-54	3.2	34
61	In vivo and in vitro phosphorylation of ribosomal proteins by protein kinases from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 1976 , 15, 2289-96	3.2	32

60	Suppression of virulence by a small-molecule compound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8003-8008	11.5	31
59	Proteomic analysis of survival of <i>Rhodococcus jostii</i> RHA1 during carbon starvation. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 6714-25	4.8	30
58	Kisameet Clay Exhibits Potent Antibacterial Activity against the ESKAPE Pathogens. <i>MBio</i> , 2016 , 7, e01842-15	4.2	29
57	Methylation of proteins in 60S ribosomal subunits from <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1977 , 75, 187-91	3.8	27
56	Coumabiocins A-F, aminocoumarins from an organic extract of <i>Streptomyces</i> sp. L-4-4. <i>Journal of Natural Products</i> , 2010 , 73, 880-4	4.9	26
55	Antimicrobial resistance gene delivery in animal feeds. <i>Emerging Infectious Diseases</i> , 2004 , 10, 679-83	10.2	26
54	Involvement of the amino-terminal beta-hairpin of the <i>Aspergillus</i> ribotoxins on the interaction with membranes and nonspecific ribonuclease activity. <i>Protein Science</i> , 2001 , 10, 1658-68	6.3	26
53	Inhibitors of macromolecular synthesis in yeast. <i>Methods in Cell Biology</i> , 1975 , 12, 17-38	1.8	25
52	Dehydrosqualene Desaturase as a Novel Target for Anti-Virulence Therapy against. <i>MBio</i> , 2017 , 8,	7.8	24
51	The 1.5 Å crystal structure of a bleomycin resistance determinant from bleomycin-producing <i>Streptomyces verticillus</i> . <i>Journal of Molecular Biology</i> , 2000 , 295, 915-25	6.5	24
50	General mechanisms of antimicrobial resistance. <i>Clinical Infectious Diseases</i> , 1979 , 1, 23-9	11.6	24
49	Components of Eukaryotic-like Protein Signaling Pathways in <i>Mycobacterium tuberculosis</i> . <i>Microbial & Comparative Genomics</i> , 1997 , 2, 63-73		23
48	Isolation and characterization of <i>Streptomyces</i> sp. NL15-2K capable of degrading lignin-related aromatic compounds. <i>Journal of Bioscience and Bioengineering</i> , 2006 , 102, 124-7	3.3	22
47	Phenotypic changes in ciprofloxacin-resistant <i>Staphylococcus aureus</i> . <i>Research in Microbiology</i> , 2009 , 160, 785-91	4	21
46	Small molecules: the lexicon of biodiversity. <i>Journal of Biotechnology</i> , 2007 , 129, 3-5	3.7	19
45	Human microbiome science: vision for the future, Bethesda, MD, July 24 to 26, 2013. <i>Microbiome</i> , 2014 , 2,	16.6	18
44	Class 1 and class 2 integrons in multidrug-resistant gram-negative bacteria isolated from the Salmon River, British Columbia. <i>Canadian Journal of Microbiology</i> , 2011 , 57, 460-7	3.2	17
43	The pseudodisaccharides: a novel class of group I intron splicing inhibitors. <i>Nucleic Acids Research</i> , 1994 , 22, 4983-8	20.1	17

42	Characterization of the plasmids comprising the "R factor" R5 and their relationships to other R plasmids. <i>Plasmid</i> , 1980 , 3, 260-77	3.3	17
41	Herbicidin congeners, undecose nucleosides from an organic extract of <i>Streptomyces</i> sp. L-9-10. <i>Journal of Natural Products</i> , 2014 , 77, 227-33	4.9	16
40	The Whys and Wherefores of Antibiotic Resistance. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017 , 7,	5.4	16
39	A cold-sensitive mutant of <i>Saccharomyces cerevisiae</i> defective in ribosome processing. <i>Molecular Genetics and Genomics</i> , 1979 , 175, 313-23		16
38	<i>Staphylococcus aureus</i> promoter-lux reporters for drug discovery. <i>Journal of Antibiotics</i> , 2010 , 63, 492-83.7		15
37	Kisameet Glacial Clay: an Unexpected Source of Bacterial Diversity. <i>MBio</i> , 2017 , 8,	7.8	14
36	Complex integrons containing qnrB4-ampC (bla(DHA-1)) in plasmids of multidrug-resistant <i>Citrobacter freundii</i> from wastewater. <i>Canadian Journal of Microbiology</i> , 2013 , 59, 110-6	3.2	14
35	Darwin and microbiomes. <i>EMBO Reports</i> , 2009 , 10, 805	6.5	14
34	Single amino acid substitutions affecting the specificity of the fungal ribotoxin mitogillin. <i>FEBS Letters</i> , 2000 , 466, 87-90	3.8	13
33	A new look at antibiotic resistance. <i>FEMS Microbiology Letters</i> , 1986 , 39, 363-371	2.9	13
32	What Is the Mechanism of Plasmid-Determined Resistance to Aminoglycoside Antibiotics?. <i>Topics in Infectious Diseases</i> , 1977 , 207-219		13
31	Unciaphenol, an Oxygenated Analogue of the Bergman Cyclization Product of Uncialamycin Exhibits Anti-HIV Activity. <i>Organic Letters</i> , 2015 , 17, 5304-7	6.2	12
30	Characterization of a mycothiol ligase mutant of <i>Rhodococcus jostii</i> RHA1. <i>Research in Microbiology</i> , 2008 , 159, 643-50	4	12
29	Accidental release of antibiotic-resistance genes. <i>Trends in Biotechnology</i> , 1994 , 12, 74-5	15.1	10
28	Antibiotic resistance and the golden age of microbiology. <i>Upsala Journal of Medical Sciences</i> , 2014 , 119, 65-7	2.8	9
27	Characterization of two isozymes of coniferyl alcohol dehydrogenase from <i>Streptomyces</i> sp. NL15-2K. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 1770-7	2.1	8
26	Ribonuclease U2: cloning, production in <i>Pichia pastoris</i> and affinity chromatography purification of the active recombinant protein. <i>FEMS Microbiology Letters</i> , 2000 , 189, 165-9	2.9	8
25	Resistance redux. Infectious diseases, antibiotic resistance and the future of mankind. <i>EMBO Reports</i> , 2008 , 9 Suppl 1, S18-21	6.5	7

24	Errors in Translation. <i>Progress in Molecular and Subcellular Biology</i> , 1969 , 47-81	3	7
23	Antimicrobial Resistance Genes and Wastewater Treatment 2017 , 1-13		5
22	Construction of a Multiplex Promoter Reporter Platform to Monitor <i>Staphylococcus aureus</i> Virulence Gene Expression and the Identification of Usnic Acid as a Potent Suppressor of psm Gene Expression. <i>Frontiers in Microbiology</i> , 2016 , 7, 1344	5.7	5
21	Comment la résistance vient aux bactéries. <i>Biofutur</i> , 1997 , 1997, 14-17		4
20	Unanswered questions concerning antibiotic resistance. <i>Clinical Microbiology and Infection</i> , 1998 , 4, 2-3	9.5	4
19	Gathering no moss. <i>Annual Review of Microbiology</i> , 2003 , 57, 1-27	17.5	4
18	Gene capture in : Response. <i>Trends in Microbiology</i> , 1999 , 7, 95	12.4	4
17	Microbial molecular diversity: past and present Thom Award Lecture. <i>Journal of Industrial Microbiology</i> , 1994 , 13, 208-11		4
16	Screening of Microbial Extracts for Anticancer Compounds Using <i>Streptomyces</i> Kinase Inhibitor Assay. <i>Natural Product Communications</i> , 2015 , 10, 1934578X1501000	0.9	3
15	Antibiotic Resistance in and from Nature. <i>Microbiology Spectrum</i> , 2013 , 1,	8.9	3
14	<i>Streptomyces</i> are special: arcane applications. <i>Microbial Biotechnology</i> , 2011 , 4, 141-3	6.3	3
13	Crystallization and preliminary X-ray diffraction studies of bleomycin-binding protein from bleomycin-producing <i>Streptomyces verticillus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998 , 54, 127-8		3
12	Chapter 20. Mechanisms of Resistance to Antibiotics. <i>Annual Reports in Medicinal Chemistry</i> , 1972 , 7, 217-227	1.6	3
11	A New Look at Secondary Metabolites 307-322		3
10	Path to Resistance 2011 , 7-14		2
9	Production of bleomycin N-acetyltransferase in <i>Escherichia coli</i> and <i>Streptomyces verticillus</i>		2
8	"A ce moment-là. <i>Research in Microbiology</i> , 2014 , 165, 351-2	4	1
7	Metagenomics and Antibiotic Discovery from Uncultivated Bacteria. <i>Microbiology Monographs</i> , 2008 , 217-236	0.8	1

- 6 Antibiotics and Antibiotic Resistance in Mycobacteria 287-306 1
- 5 A mutant of *Saccharomyces cerevisiae* that possesses unusual ribosomes [proceedings].
Biochemical Society Transactions, **1979**, 7, 668-70 5.1 1
- 4 Aspects of the Molecular Genetics of Antibiotics **1998**, 285-299
- 3 Structures and Properties of Ribotoxins 451-460
- 2 From Party-Going Chemist to Worldly Microbiologist 66-70
- 1 Antibiotic Resistance in and from Nature 183-194