

Paul J Dyson

List of Publications by Year in descending order

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80
papers

2,109
citations

201575
27
h-index

289141
40
g-index

82
all docs

82
docs citations

82
times ranked

2395
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbiont-mediated RNA interference in insects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160042.	1.2	149
2	Variation in Actinobacterial Community Composition and Potential Function in Different Soil Ecosystems Belonging to the Arid Heihe River Basin of Northwest China. <i>Frontiers in Microbiology</i> , 2019, 10, 2209.	1.5	94
3	Genetic instability and DNA amplification in <i>Streptomyces lividans</i> 66. <i>Journal of Bacteriology</i> , 1987, 169, 4796-4803.	1.0	82
4	Evolution of Transmembrane Protein Kinases Implicated in Coordinating Remodeling of Gram-Positive Peptidoglycan: Inside versus Outside. <i>Journal of Bacteriology</i> , 2006, 188, 7470-7476.	1.0	78
5	Systematic Insertional Mutagenesis of a Streptomyces Genome: A Link Between Osmoadaptation and Antibiotic Production. <i>Genome Research</i> , 2004, 14, 893-900.	2.4	77
6	A heterodimer of EsxA and EsxB is involved in sporulation and is secreted by a type VII secretion system in <i>Streptomyces coelicolor</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 1719-1729.	0.7	58
7	<i>Streptomyces coelicolor</i> Dps-like proteins: differential dual roles in response to stress during vegetative growth and in nucleoid condensation during reproductive cell division. <i>Molecular Microbiology</i> , 2009, 73, 1186-1202.	1.2	56
8	Tris-dependent oxidative DNA strand scission during electrophoresis. <i>Electrophoresis</i> , 1995, 16, 888-894.	1.3	54
9	Production of Specialized Metabolites by <i>Streptomyces coelicolor</i> A3(2). <i>Advances in Applied Microbiology</i> , 2014, 89, 217-266.	1.3	52
10	FtsW Is a Dispensable Cell Division Protein Required for Z-Ring Stabilization during Sporulation Septation in <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2008, 190, 5555-5566.	1.0	47
11	Influence of CrgA on Assembly of the Cell Division Protein FtsZ during Development of <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2006, 188, 1540-1550.	1.0	44
12	Expression of the ASV src gene in hybrids between normal and virally transformed cells: Specific suppression occurs in some hybrids but not others. <i>Cell</i> , 1982, 30, 491-498.	13.5	43
13	A transposon insertion single-gene knockout library and new ordered cosmid library for the model organism <i>Streptomyces coelicolor</i> A3(2). <i>Antonie Van Leeuwenhoek</i> , 2011, 99, 515-522.	0.7	43
14	Gene silencing in non-model insects: Overcoming hurdles using symbiotic bacteria for trauma-free sustainable delivery of RNA interference. <i>BioEssays</i> , 2017, 39, 1600247.	1.2	43
15	Relationship of an unstable argC gene to a 5.7-kilobase amplifiable DNA sequence in <i>Streptomyces lividans</i> 66. <i>Journal of Bacteriology</i> , 1987, 169, 4804-4810.	1.0	41
16	Tris-dependent site-specific cleavage of <i>Streptomyces lividans</i> DNA. <i>FEMS Microbiology Letters</i> , 1992, 96, 247-252.	0.7	41
17	Transposon Express, a software application to report the identity of insertions obtained by comprehensive transposon mutagenesis of sequenced genomes: analysis of the preference for in vitro Tn5 transposition into GC-rich DNA. <i>Nucleic Acids Research</i> , 2004, 32, e113-e113.	6.5	37
18	Bacterial diversity and distribution in the southeast edge of the Tengger Desert and their correlation with soil enzyme activities. <i>Journal of Environmental Sciences</i> , 2012, 24, 2004-2011.	3.2	37

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19	A novel bacterial disease of the European shore crab, <i>Carcinus maenas</i> – molecular pathology and epidemiology. Microbiology (United Kingdom), 2007, 153, 2839-2849.	0.7	36
20	Osmotic regulation of the <i>Streptomyces lividans</i> thiostrepton-inducible promoter, <i>ptipA</i> . Microbiology (United Kingdom), 2002, 148, 381-390.	0.7	35
21	Characterization of Changes to the Cell Surface during the Life Cycle of <i>Streptomyces coelicolor</i> : Atomic Force Microscopy of Living Cells. Journal of Bacteriology, 2007, 189, 2219-2225.	1.0	35
22	Draft Genomes, Phylogenetic Reconstruction, and Comparative Genomics of Two Novel Cohabiting Bacterial Symbionts Isolated from <i>Frankliniella occidentalis</i> . Genome Biology and Evolution, 2015, 7, 2188-2202.	1.1	35
23	Novel post-replicative DNA modification in <i>Streptomyces</i> : analysis of the preferred modification site of plasmid <i>pIJ101</i> . Nucleic Acids Research, 1998, 26, 1248-1253.	6.5	33
24	Osmoregulation in <i>Streptomyces coelicolor</i> : modulation of SigB activity by OsaC. Molecular Microbiology, 2009, 71, 1250-1262.	1.2	33
25	Draft Genome Sequence of <i>Rhodococcus rhodnii</i> Strain LMG5362, a Symbiont of <i>Rhodnius prolixus</i> (Hemiptera, Reduviidae, Triatominae), the Principle Vector of <i>Trypanosoma cruzi</i> . Genome Announcements, 2013, 1, .	0.8	30
26	A Laterally Acquired Galactose Oxidase-Like Gene Is Required for Aerial Development during Osmotic Stress in <i>Streptomyces coelicolor</i> . PLoS ONE, 2013, 8, e54112.	1.1	30
27	Bacterial community responses to increasing ammonia concentrations in model recirculating vertical flow saline biofilters. Ecological Engineering, 2010, 36, 1485-1491.	1.6	29
28	A Novel Alkaliphilic <i>Streptomyces</i> Inhibits ESKAPE Pathogens. Frontiers in Microbiology, 2018, 9, 2458.	1.5	29
29	Complete genome sequence of a psychotrophic <i>Pseudarthrobacter sulfonivorans</i> strain Ar51 (CGMCC) Tj ETQq1 1 0.784314 rgBT /Over 2016, 231, 81-82.	1.9	27
30	<i>Streptomyces coelicolor</i> A3(2) CYP102 Protein, a Novel Fatty Acid Hydroxylase Encoded as a Heme Domain without an N-Terminal Redox Partner. Applied and Environmental Microbiology, 2010, 76, 1975-1980.	1.4	26
31	Overview of paratransgenesis as a strategy to control pathogen transmission by insect vectors. Parasites and Vectors, 2022, 15, 112.	1.0	26
32	Inducible transposition in <i>Streptomyces lividans</i> of insertion sequence IS6100 from <i>Mycobacterium fortuitum</i> . Molecular Microbiology, 1995, 18, 933-941.	1.2	24
33	The <i>dpsA</i> Gene of <i>Streptomyces coelicolor</i> : Induction of Expression from a Single Promoter in Response to Environmental Stress or during Development. PLoS ONE, 2011, 6, e25593.	1.1	24
34	A novel bifunctional histone protein in <i>Streptomyces</i> : a candidate for structural coupling between DNA conformation and transcription during development and stress?. Nucleic Acids Research, 2013, 41, 4813-4824.	6.5	24
35	Tag-encoded pyrosequencing analysis of bacterial diversity within different alpine grassland ecosystems of the Qinghai-Tibet Plateau, China. Environmental Earth Sciences, 2014, 72, 779-786.	1.3	24
36	Tris-dependent site-specific cleavage of <i>Streptomyces lividans</i> DNA. FEMS Microbiology Letters, 1992, 96, 247-252.	0.7	24

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37	Biotechnological Potential of Streptomyces Siderophores as New Antibiotics. Current Medicinal Chemistry, 2021, 28, 1407-1421.	1.2	23
38	Cell-Biological Studies of Osmotic Shock Response in Streptomyces spp. Journal of Bacteriology, 2017, 199, .	1.0	22
39	Transposon mutagenesis with IS6100 in the avermectin-producer Streptomyces avermitilis. Microbiology (United Kingdom), 1998, 144, 1963-1970.	0.7	21
40	Pulsed-field gel electrophoresis of Streptomyces lividans DNA. Trends in Genetics, 1993, 9, 72.	2.9	20
41	A trehalose biosynthetic enzyme doubles as an osmotic stress sensor to regulate bacterial morphogenesis. PLoS Genetics, 2017, 13, e1007062.	1.5	20
42	Novel site-specific DNA modification in Streptomyces: Analysis of preferred intragenic modification sites present in a 5.7 kb amplified DNA sequence. Nucleic Acids Research, 1998, 26, 3364-3371.	6.5	19
43	Diversity and Succession of Actinobacteria in the Forelands of the Tianshan Glacier, China. Geomicrobiology Journal, 2016, 33, 716-723.	1.0	19
44	High-level heterologous production and Functional Secretion by recombinant Pichia pastoris of the shortest proline-rich antibacterial honeybee peptide Apidaecin. Scientific Reports, 2017, 7, 14543.	1.6	19
45	The Family Streptomycetaceae. , 2014, , 889-1010.		19
46	Site-specific Recombination in Transposition and Plasmid Stability. Cold Spring Harbor Symposia on Quantitative Biology, 1984, 49, 227-233.	2.0	19
47	Nitrogen removal and changes to microbial communities in model flood/drain and submerged biofilters treating aquaculture wastewater. Aquacultural Engineering, 2012, 50, 37-45.	1.4	18
48	The Product of a Developmental Gene, <i>crgA</i> , That Coordinates Reproductive Growth in Streptomyces Belongs to a Novel Family of Small Actinomycete-Specific Proteins. Journal of Bacteriology, 2003, 185, 6678-6685.	1.0	17
49	Regulation of expression of trehalose-6-phosphate synthase during cold shock in Arthrobacter strain A3. Extremophiles, 2011, 15, 499-508.	0.9	17
50	Optimization of dietary RNA interference delivery to western flower thrips <i>Frankliniella occidentalis</i> and onion thrips <i>Thrips tabaci</i>. Archives of Insect Biochemistry and Physiology, 2020, 103, e21645.	0.6	17
51	Low target site specificity of an IS6100-based mini-transposon, Tn1792, developed for transposon mutagenesis of antibiotic-producing Streptomyces. FEMS Microbiology Letters, 1999, 171, 215-221.	0.7	16
52	Streptomyces dangxiongensis sp. nov., isolated from soil of Qinghai-Tibet Plateau. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 2729-2734.	0.8	15
53	A tale of tails: deciphering the contribution of terminal tails to the biochemical properties of two Dps proteins from Streptomyces coelicolor. Cellular and Molecular Life Sciences, 2014, 71, 4911-4926.	2.4	14
54	Microbial mercury methylation profile in terminus of a high-elevation glacier on the northern boundary of the Tibetan Plateau. Science of the Total Environment, 2020, 708, 135226.	3.9	13

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55	Genetic instability associated with insertion of IS6100 into one end of the <i>Streptomyces lividans</i> chromosome. <i>Microbiology (United Kingdom)</i> , 1999, 145, 2203-2208.	0.7	13
56	<i>Streptomyces lacrimifluminis</i> sp. nov., a novel actinobacterium that produces antibacterial compounds, isolated from soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 4981-4986.	0.8	13
57	<i>Streptomyces qaidamensis</i> sp. nov., isolated from sand in the Qaidam Basin, China. <i>Journal of Antibiotics</i> , 2018, 71, 880-886.	1.0	12
58	Forkhead-associated proteins genetically linked to the serine/threonine kinase PknB regulate carbon flux towards antibiotic biosynthesis in <i>Streptomyces coelicolor</i> . <i>Microbial Biotechnology</i> , 2011, 4, 263-274.	2.0	11
59	Genome Sequence of <i>Streptomyces violaceusniger</i> Strain SPC6, a Halotolerant Streptomycete That Exhibits Rapid Growth and Development. <i>Genome Announcements</i> , 2013, 1, .	0.8	11
60	Comparative Genomics of Facultative Bacterial Symbionts Isolated from European Orius Species Reveals an Ancestral Symbiotic Association. <i>Frontiers in Microbiology</i> , 2017, 8, 1969.	1.5	11
61	A rhamnose-binding lectin from <i>Rhodnius prolixus</i> and the impact of its silencing on gut bacterial microbiota and <i>Trypanosoma cruzi</i> . <i>Developmental and Comparative Immunology</i> , 2021, 114, 103823.	1.0	11
62	Azadirachtin interferes with basal immunity and microbial homeostasis in the <i>Rhodnius prolixus</i> midgut. <i>Developmental and Comparative Immunology</i> , 2021, 114, 103864.	1.0	10
63	The catalytic efficiency of trehalose-6-phosphate synthase is effected by the N-loop at low temperatures. <i>Archives of Microbiology</i> , 2010, 192, 937-943.	1.0	8
64	Targeting the Osmotic Stress Response for Strain Improvement of an Industrial Producer of Secondary Metabolites. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1787-1795.	0.9	8
65	Cointegrate resolution following transposition of Tn1792 in <i>Streptomyces avermitilis</i> facilitates analysis of transposon-tagged genes. <i>Journal of Microbiological Methods</i> , 2002, 49, 89-96.	0.7	7
66	Site-specific recombination. <i>Nature</i> , 1981, 294, 608-610.	13.7	6
67	The Evolution of an Osmotically Inducible <i>dps</i> in the Genus <i>Streptomyces</i> . <i>PLoS ONE</i> , 2013, 8, e60772.	1.1	6
68	Complete genome sequence of a psychotrophic <i>Arthrobacter</i> strain A3 (CGMCC 1.8987), a novel long-chain hydrocarbons producer. <i>Journal of Biotechnology</i> , 2016, 222, 23-24.	1.9	6
69	A new bacterial tRNA enhances antibiotic production in <i>Streptomyces</i> by circumventing inefficient wobble base-pairing. <i>Nucleic Acids Research</i> , 2022, 50, 7084-7096.	6.5	6
70	Bacterial Competition Influences the Ability of Symbiotic Bacteria to Colonize Western Flower Thrips. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	6
71	pUCS75, a stable high-copy-number <i>Streptomyces</i> - <i>Escherichia coli</i> shuttle vector which facilitates subcloning from pUC plasmid and M 13 phage vectors. <i>Gene</i> , 1996, 171, 71-73.	1.0	5
72	<i>Streptomyces coelicolor</i> A3(2): from genome sequence to function. <i>Methods in Microbiology</i> , 2002, 33, 321-336.	0.4	5

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73	Evaluation of the effects of the insect pathogenic fungus <i>Metarhizium anisopliae</i> on microbial populations of disparate plant growing media. <i>Fungal Ecology</i> , 2010, 3, 185-194.	0.7	4
74	<i>Streptomyces</i> Isolates from the Soil of an Ancient Irish Cure Site, Capable of Inhibiting Multi-Resistant Bacteria and Yeasts. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4923.	1.3	4
75	RfiA, a novel PAP2 domain-containing polytopic membrane protein that confers resistance to the FtsZ inhibitor PC190723. <i>Future Microbiology</i> , 2015, 10, 325-335.	1.0	3
76	Fungi as Biocontrol Agents of <i>Culicoides</i> Biting Midges, the Putative Vectors of Bluetongue Disease. <i>Vector-Borne and Zoonotic Diseases</i> , 2019, 19, 395-399.	0.6	3
77	Symbiont-Mediated RNA Interference (SMR): Using Symbiotic Bacteria as Vectors for Delivering RNAi to Insects. <i>Methods in Molecular Biology</i> , 2022, 2360, 295-306.	0.4	3
78	4 Isolation and Development of Transposons. <i>Methods in Microbiology</i> , 1999, , 133-167.	0.4	2
79	Editorial “ preview. <i>Microbial Biotechnology</i> , 2011, 4, 138-140.	2.0	2
80	Low target site specificity of an IS6100-based mini-transposon, Tn1792, developed for transposon mutagenesis of antibiotic-producing <i>Streptomyces</i> . <i>FEMS Microbiology Letters</i> , 1999, 171, 215-221.	0.7	1