

# Justin Nodwell

## List of Publications by Year in descending order

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79  
papers

4,373  
citations

109137

35  
h-index

114278

63  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3806  
citing authors

#	ARTICLE	IF	CITATIONS
1	The TetR Family of Regulators. <i>Microbiology and Molecular Biology Reviews</i> , 2013, 77, 440-475.	2.9	472
2	From The Cover: The SapB morphogen is a lantibiotic-like peptide derived from the product of the developmental gene ramS in <i>Streptomyces coelicolor</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11448-11453.	3.3	286
3	Transcriptional antitermination. <i>Nature</i> , 1993, 364, 401-406.	13.7	253
4	Chemical Perturbation of Secondary Metabolism Demonstrates Important Links to Primary Metabolism. <i>Chemistry and Biology</i> , 2012, 19, 1020-1027.	6.2	149
5	<i>Streptomyces</i> exploration is triggered by fungal interactions and volatile signals. <i>ELife</i> , 2017, 6, .	2.8	144
6	A chemical defence against phage infection. <i>Nature</i> , 2018, 564, 283-286.	13.7	142
7	Recognition of boxA antiterminator RNA by the <i>E. coli</i> antitermination factors NusB and ribosomal protein S10. <i>Cell</i> , 1993, 72, 261-268.	13.5	141
8	An oligopeptide permease responsible for the import of an extracellular signal governing aerial mycelium formation in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 1996, 22, 881-893.	1.2	138
9	Assembly of the cell division protein FtsZ into ladder-like structures in the aerial hyphae of <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 1997, 25, 847-858.	1.2	135
10	Initiation of actinorhodin export in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 2007, 63, 951-961.	1.2	116
11	Towards a new science of secondary metabolism. <i>Journal of Antibiotics</i> , 2013, 66, 387-400.	1.0	112
12	Morphogenetic surfactants and their role in the formation of aerial hyphae in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , 2006, 59, 731-742.	1.2	103
13	Activating secondary metabolism with stress and chemicals. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 415-424.	1.4	92
14	Phosphorylated AbsA2 Negatively Regulates Antibiotic Production in <i>Streptomyces coelicolor</i> through Interactions with Pathway-Specific Regulatory Gene Promoters. <i>Journal of Bacteriology</i> , 2007, 189, 5284-5292.	1.0	89
15	The nut site of bacteriophage lambda is made of RNA and is bound by transcription antitermination factors on the surface of RNA polymerase.. <i>Genes and Development</i> , 1991, 5, 2141-2151.	2.7	83
16	A phage-encoded anti-activator inhibits quorum sensing in <i>Pseudomonas aeruginosa</i> . <i>Molecular Cell</i> , 2021, 81, 571-583.e6.	4.5	80
17	A synthetic luxCDABE gene cluster optimized for expression in high-GC bacteria. <i>Nucleic Acids Research</i> , 2007, 35, e46-e46.	6.5	75
18	Purification of an Extracellular Signaling Molecule Involved in Production of Aerial Mycelium by <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 1998, 180, 1334-1337.	1.0	73

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19	The ramC gene is required for morphogenesis in <i>Streptomyces coelicolor</i> and expressed in a cell type-specific manner under the direct control of RamR. <i>Molecular Microbiology</i> , 2002, 45, 45-57.	1.2	72
20	Chapter 5 Applying the Genetics of Secondary Metabolism in Model Actinomycetes to the Discovery of New Antibiotics. <i>Methods in Enzymology</i> , 2009, 458, 117-141.	0.4	70
21	Genomewide insertional mutagenesis in <i>Streptomyces coelicolor</i> reveals additional genes involved in morphological differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9642-9647.	3.3	67
22	Metabolomics analysis and biological investigation of three Malvaceae plants. <i>Phytochemical Analysis</i> , 2020, 31, 204-214.	1.2	66
23	The expression of antibiotic resistance genes in antibiotic-producing bacteria. <i>Molecular Microbiology</i> , 2014, 93, 391-402.	1.2	63
24	Biochemical Activities of the absA Two-Component System of <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2005, 187, 687-696.	1.0	59
25	Crystal Structures of the <i>Streptomyces coelicolor</i> TetR-Like Protein ActR Alone and in Complex with Actinorhodin or the Actinorhodin Biosynthetic Precursor (S)-DNPA. <i>Journal of Molecular Biology</i> , 2008, 376, 1377-1387.	2.0	59
26	Genome Context as a Predictive Tool for Identifying Regulatory Targets of the TetR Family Transcriptional Regulators. <i>PLoS ONE</i> , 2012, 7, e50562.	1.1	58
27	A Two-Step Mechanism for the Activation of Actinorhodin Export and Resistance in <i>Streptomyces coelicolor</i> . <i>MBio</i> , 2012, 3, e00191-12.	1.8	56
28	Induction of antimicrobial activities in heterologous streptomycetes using alleles of the <i>Streptomyces coelicolor</i> gene absA1. <i>Journal of Antibiotics</i> , 2010, 63, 177-182.	1.0	53
29	A small molecule produced by <i>Lactobacillus</i> species blocks <i>Candida albicans</i> filamentation by inhibiting a DYRK1-family kinase. <i>Nature Communications</i> , 2021, 12, 6151.	5.8	50
30	An oxindole efflux inhibitor potentiates azoles and impairs virulence in the fungal pathogen <i>Candida auris</i> . <i>Nature Communications</i> , 2020, 11, 6429.	5.8	49
31	Silencing cryptic specialized metabolism in <i>Streptomyces</i> by the nucleoid-associated protein Lsr2. <i>ELife</i> , 2019, 8, .	2.8	48
32	Pivotal Roles for the Receiver Domain in the Mechanism of Action of the Response Regulator RamR of <i>Streptomyces coelicolor</i> . <i>Journal of Molecular Biology</i> , 2005, 351, 1030-1047.	2.0	47
33	Ligand Recognition by ActR, a TetR-Like Regulator of Actinorhodin Export. <i>Journal of Molecular Biology</i> , 2008, 383, 753-761.	2.0	45
34	Extracellular Complementation and the Identification of Additional Genes Involved in Aerial Mycelium Formation in <i>Streptomyces coelicolor</i> . <i>Genetics</i> , 1999, 151, 569-584.	1.2	44
35	Activity-Independent Discovery of Secondary Metabolites Using Chemical Elicitation and Cheminformatic Inference. <i>ACS Chemical Biology</i> , 2015, 10, 2616-2623.	1.6	43
36	Structural and Genetic Analysis of the BldB Protein of <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2002, 184, 4270-4276.	1.0	38

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37	An Engineered Allele of <i>afsQ1</i> Facilitates the Discovery and Investigation of Cryptic Natural Products. <i>ACS Chemical Biology</i> , 2017, 12, 628-634.	1.6	37
38	Novel Links between Antibiotic Resistance and Antibiotic Production. <i>Journal of Bacteriology</i> , 2007, 189, 3683-3685.	1.0	35
39	Actinorhodin is a redox-active antibiotic with a complex mode of action against Gram-positive cells. <i>Molecular Microbiology</i> , 2017, 106, 597-613.	1.2	33
40	The Lasso Peptide Siamycin-I Targets Lipid II at the Gram-Positive Cell Surface. <i>ACS Chemical Biology</i> , 2019, 14, 966-974.	1.6	33
41	Control of Specialized Metabolism by Signaling and Transcriptional Regulation: Opportunities for New Platforms for Drug Discovery?. <i>Annual Review of Microbiology</i> , 2018, 72, 25-48.	2.9	32
42	Put a Bow on It: Knotted Antibiotics Take Center Stage. <i>Antibiotics</i> , 2019, 8, 117.	1.5	32
43	StoPK-1, a serine/threonine protein kinase from the glycopeptide antibiotic producer <i>Streptomyces toyocaensis</i> NRRL 15009, affects oxidative stress response. <i>Molecular Microbiology</i> , 2002, 44, 417-430.	1.2	31
44	Multicellular Development in <i>Streptomyces</i> . , 0, , 419-438.		30
45	The <i>Streptomyces coelicolor</i> sporulation-specific $\sigma^{WhiG}$ form of RNA polymerase transcribes a gene encoding a ProX-like protein that is dispensable for sporulation. <i>Gene</i> , 1998, 212, 137-146.	1.0	29
46	Critical Residues and Novel Effects of Overexpression of the <i>Streptomyces coelicolor</i> Developmental Protein BldB: Evidence for a Critical Interacting Partner. <i>Journal of Bacteriology</i> , 2006, 188, 8189-8195.	1.0	28
47	A Synthetic, Species-Specific Activator of Secondary Metabolism and Sporulation in <i>Streptomyces coelicolor</i> . <i>ChemBioChem</i> , 2013, 14, 83-91.	1.3	27
48	Deglycosylation as a Mechanism of Inducible Antibiotic Resistance Revealed Using a Global Relational Tree for One-Component Regulators. <i>Chemistry and Biology</i> , 2013, 20, 232-240.	6.2	26
49	Chromosome level assembly and secondary metabolite potential of the parasitic fungus <i>Cordyceps militaris</i> . <i>BMC Genomics</i> , 2017, 18, 912.	1.2	25
50	Investigation of Transcription Repression and Small-Molecule Responsiveness by TetR-Like Transcription Factors Using a Heterologous <i>Escherichia coli</i> -Based Assay. <i>Journal of Bacteriology</i> , 2007, 189, 6655-6664.	1.0	23
51	Membrane Association and Kinase-Like Motifs of the RamC Protein of <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2002, 184, 4920-4924.	1.0	22
52	Are you talking to me? A possible role for $\gamma$ -butyrolactones in interspecies signalling. <i>Molecular Microbiology</i> , 2014, 94, 483-485.	1.2	21
53	Targeting fungal membrane homeostasis with imidazopyrazoindoles impairs azole resistance and biofilm formation. <i>Nature Communications</i> , 2022, 13, .	5.8	21
54	Natural Products Repertoire of the Red Sea. <i>Marine Drugs</i> , 2020, 18, 457.	2.2	20

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55	Discovery of a Novel DNA Gyrase-Targeting Antibiotic through the Chemical Perturbation of <i>Streptomyces venezuelae</i> Sporulation. <i>Cell Chemical Biology</i> , 2019, 26, 1274-1282.e4.	2.5	18
56	Chemical entrapment and killing of insects by bacteria. <i>Nature Communications</i> , 2020, 11, 4608.	5.8	18
57	Bacterial Transmembrane Proteins that Lack N-Terminal Signal Sequences. <i>PLoS ONE</i> , 2011, 6, e19421.	1.1	18
58	A new antitrypanosomal alkaloid from the Red Sea marine sponge <i>Hyrtios</i> sp.. <i>Journal of Antibiotics</i> , 2018, 71, 1036-1039.	1.0	17
59	Membrane activity profiling of small molecule <i>B. subtilis</i> growth inhibitors utilizing novel dual-dye fluorescence assay. <i>MedChemComm</i> , 2018, 9, 554-561.	3.5	16
60	Metabolomic profiling and biological investigation of <i>Tabebuia Aurea</i> (Silva Manso) leaves, family Bignoniaceae. <i>Natural Product Research</i> , 2021, 35, 4632-4637.	1.0	11
61	Biology and applications of co-produced, synergistic antimicrobials from environmental bacteria. <i>Nature Microbiology</i> , 2021, 6, 1118-1128.	5.9	11
62	Tetrodecamycin: An unusual and interesting tetronate antibiotic. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6269-6275.	1.4	10
63	Dimerization of the RamC Morphogenetic Protein of <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2004, 186, 1330-1336.	1.0	9
64	Transmembrane topology of the AbsA1 sensor kinase of <i>Streptomyces coelicolor</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 1812-1818.	0.7	9
65	13-Deoxytetrodecamycin, a new tetronate ring-containing antibiotic that is active against multidrug-resistant <i>Staphylococcus aureus</i> . <i>Journal of Antibiotics</i> , 2015, 68, 698-702.	1.0	7
66	A Chemical Inhibitor of Cell Growth Reduces Cell Size in <i>Bacillus subtilis</i> . <i>ACS Chemical Biology</i> , 2019, 14, 688-695.	1.6	7
67	Monomeric red fluorescent protein as a reporter for macromolecular localization in <i>Streptomyces coelicolor</i> . <i>Plasmid</i> , 2007, 58, 167-173.	0.4	6
68	Chemical and biological studies on the soft coral <i>Nephthea</i> sp.. <i>RSC Advances</i> , 2021, 11, 23654-23663.	1.7	6
69	Microbe Profile: <i>Streptomyces coelicolor</i> : a burlesque of pigments and phenotypes. <i>Microbiology (United Kingdom)</i> , 2019, 165, 953-955.	0.7	6
70	<i>Streptomyces</i> : A Screening Tool for Bacterial Cell Division Inhibitors. <i>Journal of Biomolecular Screening</i> , 2015, 20, 275-284.	2.6	5
71	David and Goliath: chemical perturbation of eukaryotes by bacteria. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 233-248.	1.4	5
72	The ARC2 response in <i>Streptomyces coelicolor</i> requires the global regulatory genes <i>afsR</i> and <i>afsS</i> . <i>Microbiology (United Kingdom)</i> , 2021, 167, .	0.7	4

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73	Biosynthetic Genes for the Tetrodecamycin Antibiotics. <i>Journal of Bacteriology</i> , 2016, 198, 1965-1973.	1.0	3
74	Dualâ€PKS Cluster for Biosynthesis of a Lightâ€Induced Secondary Metabolite Found from Genome Sequencing of <i>Hyphodiscus hymeniophilus</i> Fungus. <i>ChemBioChem</i> , 2020, 21, 2116-2120.	1.3	3
75	High-Throughput Chemical Screen Identifies a 2,5-Disubstituted Pyridine as an Inhibitor of <i>Candida albicans</i> Erg11. <i>MSphere</i> , 2022, 7, e0007522.	1.3	3
76	Better Chemistry through Regulation. <i>Chemistry and Biology</i> , 2011, 18, 1515-1516.	6.2	2
77	Antimicrobials: Expressing antibiotic gene clusters. <i>Nature Microbiology</i> , 2017, 2, 17061.	5.9	2
78	DNA damage-induced block of sporulation in <i>Streptomyces venezuelae</i> involves downregulation of ssgB. <i>Microbiology (United Kingdom)</i> , 2022, 168, .	0.7	1
79	Diverse Cell-Cell Signaling Molecules Control Formation of Aerial Hyphae and Secondary Metabolism in <i>Streptomyces</i> . , 0, , 91-104.		0