Colin P Smith

List of Publications by Year
in descending order

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68 papers	15,836 citations	94433 37 h-index	106344 65 g-index
76 all docs	76 docs citations	76 times ranked	29647 citing authors

#	Article	IF	Citations
1	Bioconductor: open software development for computational biology and bioinformatics. Genome Biology, 2004, 5, R80.	9.6	10,796
2	Comparison of vitamin D2 and vitamin D3 supplementation in raising serum 25-hydroxyvitamin D status: a systematic review and meta-analysis. American Journal of Clinical Nutrition, 2012, 95, 1357-1364.	4.7	593
3	Effects of insufficient sleep on circadian rhythmicity and expression amplitude of the human blood transcriptome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1132-41.	7.1	452
4	High efficiency intergeneric conjugal transfer of plasmid DNA from Escherichia coli to methyl DNA-restricting streptomycetes. FEMS Microbiology Letters, 2006, 155, 223-229.	1.8	395
5	Mistimed sleep disrupts circadian regulation of the human transcriptome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E682-91.	7.1	312
6	Structure, Biosynthetic Origin, and Engineered Biosynthesis of Calcium-Dependent Antibiotics from Streptomyces coelicolor. Chemistry and Biology, 2002, 9, 1175-1187.	6.0	256
7	The dynamic transcriptional and translational landscape of the model antibiotic producer Streptomyces coelicolor A3(2). Nature Communications, 2016, 7, 11605.	12.8	201
8	A bacterial hormone (the SCB1) directly controls the expression of a pathwayâ€specific regulatory gene in the cryptic type I polyketide biosynthetic gene cluster of Streptomyces coelicolor. Molecular Microbiology, 2005, 56, 465-479.	2.5	146
9	Antibiotic Overproduction in Streptomyces coelicolor A3(2) Mediated by Phosphofructokinase Deletion*. Journal of Biological Chemistry, 2008, 283, 25186-25199.	3.4	131
10	Vitamin D and SARS-CoV-2 virus/COVID-19 disease. BMJ Nutrition, Prevention and Health, 2020, 3, 106-110.	3.7	116
11	Exponential growth, high prevalence of SARS-CoV-2, and vaccine effectiveness associated with the Delta variant. Science, 2021, 374, eabl9551.	12.6	111
12	Introduction of a Nonâ€Natural Amino Acid into a Nonribosomal Peptide Antibiotic by Modification of Adenylation Domain Specificity. Angewandte Chemie - International Edition, 2012, 51, 7181-7184.	13.8	103
13	Substrate induction and catabolite repression of the Streptomyces coelicoior glycerol operon are mediated through the GylR protein. Molecular Microbiology, 1994, 12, 737-745.	2.5	99
14	Structure and regulation of controlling sequences for the Streptomyces coelicolor glycerol operon. Journal of Molecular Biology, 1988, 204, 569-580.	4.2	98
15	The dnaK operon of Streptomyces coelicolor encodes a novel heat-shock protein which binds to the promoter region of the operon. Molecular Microbiology, 1995, 17, 663-674.	2.5	86
16	Diverse control of metabolism and other cellular processes in Streptomyces coelicolor by the PhoP transcription factor: genome-wide identification of in vivo targets. Nucleic Acids Research, 2012, 40, 9543-9556.	14.5	85
17	Daily supplementation with 15 Î¼g vitamin D2 compared with vitamin D3 to increase wintertime 25-hydroxyvitamin D status in healthy South Asian and white European women: a 12-wk randomized, placebo-controlled food-fortification trial. American Journal of Clinical Nutrition, 2017, 106, 481-490.	4.7	83
18	Negative feedback regulation of dnaK, clpB and lon expression by the DnaK chaperone machine in Streptomyces coelicolor, identified by transcriptome and in vivo DnaK-depletion analysis. Molecular Microbiology, 2003, 50, 153-166.	2.5	76

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19	Biosynthesis of the (2S,3R)-3-Methyl Glutamate Residue of Nonribosomal Lipopeptides. Journal of the American Chemical Society, 2006, 128, 11250-11259.	13.7	73
20	Sequence and transcriptional analysis of the nourseothricin acetyltransferase-encoding gene nat1 from Streptomyces noursei. Gene, 1993, 127, 127-131.	2.2	72
21	The HspR regulon of Streptomyces coelicolor: a role for the DnaK chaperone as a transcriptional co-repressorâ€. Molecular Microbiology, 2002, 38, 1093-1103.	2.5	71
22	SsgA-like proteins determine the fate of peptidoglycan during sporulation ofStreptomyces coelicolor. Molecular Microbiology, 2005, 58, 929-944.	2.5	70
23	One of the Two Genes Encoding Nucleoid-Associated HU Proteins in Streptomyces coelicolor Is Developmentally Regulated and Specifically Involved in Spore Maturation. Journal of Bacteriology, 2009, 191, 6489-6500.	2.2	64
24	Physical identification of a chromosomal locus encoding biosynthetic genes for the lipopeptide calcium-dependent antibiotic (CDA) of Streptomyces coelicolor A3(2). Microbiology (United Kingdom), 1998, 144, 193-199.	1.8	58
25	Active-Site Modifications of Adenylation Domains Lead to Hydrolysis of Upstream Nonribosomal Peptidyl Thioester Intermediates. Journal of the American Chemical Society, 2004, 126, 5032-5033.	13.7	58
26	New pleiotropic effects of eliminating a rare tRNA from Streptomyces coelicolor, revealed by combined proteomic and transcriptomic analysis of liquid cultures. BMC Genomics, 2007, 8, 261.	2.8	57
27	Loss of the controlled localization of growth stage-specific cell-wall synthesis pleiotropically affects developmental gene expression in an ssgA mutant of Streptomyces coelicolor. Molecular Microbiology, 2007, 64, 1244-1259.	2.5	55
28	The ROK Family Regulator Rok7B7 Pleiotropically Affects Xylose Utilization, Carbon Catabolite Repression, and Antibiotic Production in Streptomyces coelicolor. Journal of Bacteriology, 2013, 195, 1236-1248.	2.2	53
29	Gene Expression Profiling of Human Cancers. Annals of the New York Academy of Sciences, 2004, 1028, 28-37.	3.8	52
30	Genome-Wide Analysis of In Vivo Binding of the Master Regulator DasR in Streptomyces coelicolor Identifies Novel Non-Canonical Targets. PLoS ONE, 2015, 10, e0122479.	2.5	51
31	Cloning and transcription analysis of the entire glycerol utilization (gylABX) operon of Streptomyces coelicolor A3(2) and identification of a closely associated transcription unit. Molecular Genetics and Genomics, 1988, 211, 129-137.	2.4	48
32	A comparison of key aspects of gene regulation inStreptomyces coelicolorandEscherichia coliusing nucleotideâ€resolution transcription maps produced in parallel by global and differentialRNAsequencing. Molecular Microbiology, 2014, 94, 963-987.	2.5	48
33	Acidic pH shock induces the expressions of a wide range of stress-response genes. BMC Genomics, 2008, 9, 604.	2.8	44
34	Engineered Biosynthesis of Nonribosomal Lipopeptides with Modified Fatty Acid Side Chains. Journal of the American Chemical Society, 2007, 129, 15182-15191.	13.7	42
35	NepA is a structural cell wall protein involved in maintenance of spore dormancy in Streptomyces coelicolor. Molecular Microbiology, 2009, 71, 1591-1603.	2.5	42
36	An asparagine oxygenase (AsnO) and a 3-hydroxyasparaginyl phosphotransferase (HasP) are involved in the biosynthesis of calcium-dependent lipopeptide antibiotics. Microbiology (United Kingdom), 2007, 153, 768-776.	1.8	40

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37	Deciphering the Regulon of Streptomyces coelicolor AbrC3, a Positive Response Regulator of Antibiotic Production. Applied and Environmental Microbiology, 2014, 80, 2417-2428.	3.1	39
38	RankProdIt: A web-interactive Rank Products analysis tool. BMC Research Notes, 2010, 3, 221.	1.4	38
39	Construction and application of streptomycete promoter probe vectors which employ the Streptomyces glaucescens tyrosinase-encoding gene as reporter. Gene, 1994, 146, 105-110.	2.2	37
40	Metabolic flux analysis for calcium dependent antibiotic (CDA) production in Streptomyces coelicolor. Metabolic Engineering, 2004, 6, 313-325.	7.0	36
41	Development and application of versatile high density microarrays for genome-wide analysis of Streptomyces coelicolor: characterization of the HspR regulon. Genome Biology, 2009, 10, R5.	9.6	36
42	Metabolic and evolutionary insights into the closely-related species Streptomyces coelicolor and Streptomyces lividans deduced from high-resolution comparative genomic hybridization. BMC Genomics, 2010, 11, 682.	2.8	36
43	Genome-wide transcriptomic analysis of the response to nitrogen limitation in Streptomyces coelicolor A3(2). BMC Research Notes, 2011, 4, 78.	1.4	35
44	Analysis of gene expression in operons of Streptomyces coelicolor. Genome Biology, 2006, 7, R46.	9.6	34
45	pH shock induces overexpression of regulatory and biosynthetic genes for actinorhodin productionin Streptomyces coelicolor A3(2). Applied Microbiology and Biotechnology, 2007, 76, 1119-1130.	3.6	33
46	Stress hormone-mediated acceleration of breast cancer metastasis is halted by inhibition of nitric oxide synthase. Cancer Letters, 2019, 459, 59-71.	7.2	32
47	Statistical Reconstruction of Transcription Factor Activity Using Michaelis-Menten Kinetics. Biometrics, 2007, 63, 816-823.	1.4	30
48	Identification of new developmentally regulated genes involved in Streptomyces coelicolorsporulation. BMC Microbiology, 2013, 13, 281.	3.3	30
49	OsdR of Streptomyces coelicolor and the Dormancy Regulator DevR of Mycobacterium tuberculosis Control Overlapping Regulons. MSystems, 2016, 1, .	3.8	30
50	Exploiting human and mouse transcriptomic data: Identification of circadian genes and pathways influencing health. BioEssays, 2015, 37, 544-556.	2.5	28
51	High efficiency intergeneric conjugal transfer of plasmid DNA from Escherichia coli to methyl DNA-restricting streptomycetes. FEMS Microbiology Letters, 1997, 155, 223-229.	1.8	25
52	Genome-wide analysis of the role of the antibiotic biosynthesis regulator AbsA2 in Streptomyces coelicolor A3(2). PLoS ONE, 2019, 14, e0200673.	2.5	24
53	Cloning and sequencing of the dnaK region of Streptomyces coelicolor A3(2). Gene, 1993, 130, 141-144.	2.2	21
54	A 'Gram-negative-type' DNA polymerase III is essential for replication of the linear chromosome of Streptomyces coelicolor A3(2). Molecular Microbiology, 1999, 31, 949-958.	2.5	21

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55	Vitamins D2 and D3 Have Overlapping But Different Effects on the Human Immune System Revealed Through Analysis of the Blood Transcriptome. Frontiers in Immunology, 2022, 13, 790444.	4.8	20
56	Translational control plays an important role in the adaptive heat-shock response of Streptomyces coelicolor. Nucleic Acids Research, 2018, 46, 5692-5703.	14.5	17
57	Active site modification of the Î²-ketoacyl-ACP synthase FabF3 of Streptomyces coelicolor affects the fatty acid chain length of the CDA lipopeptides. Chemical Communications, 2011, 47, 1860-1862.	4.1	16
58	A terD Domain-Encoding Gene (SCO2368) Is Involved in Calcium Homeostasis and Participates in Calcium Regulation of a DosR-Like Regulon in Streptomyces coelicolor. Journal of Bacteriology, 2015, 197, 913-923.	2.2	14
59	Intercellular Communication and Human Hepatocellular Carcinoma. Annals of the New York Academy of Sciences, 2004, 1028, 202-212.	3.8	13
60	Vitamins D3 and D2 have marked but different global effects on gene expression in a rat oligodendrocyte precursor cell line. Molecular Medicine, 2020, 26, 32.	4.4	9
61	Elucidation of Focal Adhesion Kinase as a Modulator of Migration and Invasion and as a Potential Therapeutic Target in Chronic Lymphocytic Leukemia. Cancers, 2022, 14, 1600.	3.7	6
62	Streptomyces coelicolor A3(2): from genome sequence to function. Methods in Microbiology, 2002, 33, 321-336.	0.8	5
63	Dissecting the Streptomyces genome. Biochemical Society Transactions, 1984, 12, 584-586.	3.4	4
64	The statistical distribution of the intensity of pixels within spots of DNA microarrays: what is the appropriate single-value representative?. Applied Bioinformatics, 2003, 2, 229-39.	1.6	3
65	<scp>UK</scp> Nutrition Research Partnership â€˜Hot Topicâ€™ workshop: Vitamin Dâ€”A multiâ€disciplinary approach to (1) elucidate its role in human health and (2) develop strategies to improve vitamin D status in the <scp>UK</scp> population. Nutrition Bulletin, 0, , .	1.8	3
66	Reconstructing regulatory networks in Streptomyces using evolutionary algorithms. , 2013, , .		1
67	Chemotranscriptomic Profiling Defines Drug-Specific Signatures of the Glycopeptide Antibiotics Dalbavancin, Vancomycin and Chlorobiphenyl-Vancomycin in a VanB-Type-Resistant Streptomycete. Frontiers in Microbiology, 2021, 12, 641756.	3.5	0
68	1151: A Blinded, Randomized Controlled Trial of Neo-Adjuvant Celecoxib in Patients with CT1-2 Prostate Cancer. Journal of Urology, 2007, 177, 380-380.	0.4	0