

# Mark J Buttner

## List of Publications by Citations

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121  
papers

8,841  
citations

58  
h-index

92  
g-index

124  
ext. papers

10,082  
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5.89  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 121 | Streptomyces morphogenetics: dissecting differentiation in a filamentous bacterium. <i>Nature Reviews Microbiology</i> , <b>2009</b> , 7, 36-49  | 22.2 | 451       |
| 120 | Analysis of the Streptomyces coelicolor sigE gene reveals the existence of a subfamily of eubacterial RNA polymerase sigma factors involved in the regulation of extracytoplasmic functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 7573-7 | 11.5 | 441       |
| 119 | Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for Streptomyces using the aminoglycoside phosphotransferase gene from Tn5 as indicator. <i>Molecular Genetics and Genomics</i> , <b>1986</b> , 203, 468-78   |      | 347       |
| 118 | Evidence that the extracytoplasmic function sigma factor sigmaE is required for normal cell wall structure in Streptomyces coelicolor A3(2). <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 204-11  | 3.5  | 325       |
| 117 | Thiol-based regulatory switches. <i>Annual Review of Genetics</i> , <b>2003</b> , 37, 91-121   | 14.5 | 256       |
| 116 | The SapB morphogen is a lantibiotic-like peptide derived from the product of the developmental gene ramS in Streptomyces coelicolor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 11448-53  | 11.5 | 242       |
| 115 | The chaplins: a family of hydrophobic cell-surface proteins involved in aerial mycelium formation in Streptomyces coelicolor. <i>Genes and Development</i> , <b>2003</b> , 17, 1727-40   | 12.6 | 200       |
| 114 | RsrA, an anti-sigma factor regulated by redox change. <i>EMBO Journal</i> , <b>1999</b> , 18, 4292-8   | 13   | 200       |
| 113 | sigmaR, an RNA polymerase sigma factor that modulates expression of the thioredoxin system in response to oxidative stress in Streptomyces coelicolor A3(2). <i>EMBO Journal</i> , <b>1998</b> , 17, 5776-82   | 13   | 169       |
| 112 | The developmental fate of S. coelicolor hyphae depends upon a gene product homologous with the motility sigma factor of B. subtilis. <i>Cell</i> , <b>1989</b> , 59, 133-43  | 56.2 | 168       |
| 111 | Defining the disulphide stress response in Streptomyces coelicolor A3(2): identification of the sigmaR regulon. <i>Molecular Microbiology</i> , <b>2001</b> , 42, 1007-20  | 4.1  | 159       |
| 110 | Tetrameric c-di-GMP mediates effective transcription factor dimerization to control Streptomyces development. <i>Cell</i> , <b>2014</b> , 158, 1136-1147   | 56.2 | 157       |
| 109 | At least three different RNA polymerase holoenzymes direct transcription of the agarase gene (dagA) of Streptomyces coelicolor A3(2). <i>Cell</i> , <b>1988</b> , 52, 599-607  | 56.2 | 147       |
| 108 | Cross-regulation among disparate antibiotic biosynthetic pathways of Streptomyces coelicolor. <i>Molecular Microbiology</i> , <b>2005</b> , 58, 1276-87  | 4.1  | 144       |
| 107 | Cloning, disruption, and transcriptional analysis of three RNA polymerase sigma factor genes of Streptomyces coelicolor A3(2). <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 3367-78   | 3.5  | 138       |
| 106 | The agarase gene (dagA) of Streptomyces coelicolor A3(2): nucleotide sequence and transcriptional analysis. <i>Molecular Genetics and Genomics</i> , <b>1987</b> , 209, 101-9  |      | 134       |
| 105 | Genes essential for morphological development and antibiotic production in Streptomyces coelicolor are targets of BldD during vegetative growth. <i>Molecular Microbiology</i> , <b>2010</b> , 78, 361-79  | 4.1  | 132       |

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| 104 | Sensing and responding to diverse extracellular signals? Analysis of the sensor kinases and response regulators of <i>Streptomyces coelicolor</i> A3(2). <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 2795-2806                 | 2.9  | 125 |
| 103 | The role of the novel Fem protein VanK in vancomycin resistance in <i>Streptomyces coelicolor</i> . <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 13055-61   | 5.4  | 116 |
| 102 | sigma(BldN), an extracytoplasmic function RNA polymerase sigma factor required for aerial mycelium formation in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 4606-16                            | 3.5  | 113 |
| 101 | Developmental regulation of transcription of whiE, a locus specifying the polyketide spore pigment in <i>Streptomyces coelicolor</i> A3 (2). <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 2515-21                                     | 3.5  | 112 |
| 100 | Mechanistic insight into the nitrosylation of the [4Fe-4S] cluster of WhiB-like proteins. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1112-21   | 16.4 | 109 |
| 99  | Mutational analysis of RsrA, a zinc-binding anti-sigma factor with a thiol-disulphide redox switch. <i>Molecular Microbiology</i> , <b>2001</b> , 39, 1036-47  | 4.1  | 109 |
| 98  | The vancomycin resistance VanRS two-component signal transduction system of <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , <b>2006</b> , 59, 923-35  | 4.1  | 107 |
| 97  | Characterization of an inducible vancomycin resistance system in <i>Streptomyces coelicolor</i> reveals a novel gene (vank) required for drug resistance. <i>Molecular Microbiology</i> , <b>2004</b> , 52, 1107-21                          | 4.1  | 107 |
| 96  | A rare leucine codon in adpA is implicated in the morphological defect of bldA mutants of <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , <b>2003</b> , 50, 475-86  | 4.1  | 106 |
| 95  | A vancomycin photoprobe identifies the histidine kinase VanSsc as a vancomycin receptor. <i>Nature Chemical Biology</i> , <b>2010</b> , 6, 327-9   | 11.7 | 105 |
| 94  | A new RNA polymerase sigma factor, sigma F, is required for the late stages of morphological differentiation in <i>Streptomyces</i> spp. <i>Molecular Microbiology</i> , <b>1995</b> , 17, 37-48   | 4.1  | 102 |
| 93  | The positions of the sigma-factor genes, whiG and sigF, in the hierarchy controlling the development of spore chains in the aerial hyphae of <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>1996</b> , 21, 593-603 | 4.1  | 97  |
| 92  | The Role of zinc in the disulphide stress-regulated anti-sigma factor RsrA from <i>Streptomyces coelicolor</i> . <i>Journal of Molecular Biology</i> , <b>2003</b> , 333, 461-72   | 6.5  | 94  |
| 91  | c-di-GMP signalling and the regulation of developmental transitions in streptomycetes. <i>Nature Reviews Microbiology</i> , <b>2015</b> , 13, 749-60   | 22.2 | 92  |
| 90  | Initiation of aerial mycelium formation in <i>Streptomyces</i> . <i>Current Opinion in Microbiology</i> , <b>1998</b> , 1, 656-627.9   |      | 92  |
| 89  | Redox control in actinobacteria. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 1201-16   | 4    | 92  |
| 88  | Glucose repression in <i>Streptomyces coelicolor</i> A3(2): a likely regulatory role for glucose kinase. <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 244, 135-43  |      | 92  |
| 87  | Evidence that the <i>Streptomyces</i> developmental protein WhiD, a member of the WhiB family, binds a [4Fe-4S] cluster. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 8309-15   | 5.4  | 91  |

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|----|--|------|----|
| 86 | A connection between stress and development in the multicellular prokaryote <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>2001</b> , 40, 804-14   | 4.1  | 90 |
| 85 | A developmentally regulated gene encoding a repressor-like protein is essential for sporulation in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>1998</b> , 29, 343-57  | 4.1  | 89 |
| 84 | BldD is a direct regulator of key developmental genes in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>2001</b> , 40, 257-69  | 4.1  | 88 |
| 83 | A signal transduction system in <i>Streptomyces coelicolor</i> that activates the expression of a putative cell wall glycan operon in response to vancomycin and other cell wall-specific antibiotics. <i>Molecular Microbiology</i> , <b>2002</b> , 44, 1199-1211 | 4.1  | 87 |
| 82 | The Ser/Thr protein kinase AfsK regulates polar growth and hyphal branching in the filamentous bacteria <i>Streptomyces</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E2371-9                  | 11.5 | 83 |
| 81 | WhiD and WhiB, homologous proteins required for different stages of sporulation in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 1286-95   | 3.5  | 83 |
| 80 | Genes required for aerial growth, cell division, and chromosome segregation are targets of WhiA before sporulation in <i>Streptomyces venezuelae</i> . <i>MBio</i> , <b>2013</b> , 4, e00684-13  | 7.8  | 79 |
| 79 | A putative two-component signal transduction system regulates sigmaE, a sigma factor required for normal cell wall integrity in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>1999</b> , 33, 97-107                                     | 4.1  | 79 |
| 78 | RNA polymerase heterogeneity in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>1989</b> , 3, 1653-9  | 4.1  | 79 |
| 77 | The $\beta$ Cell Envelope Stress Response of <i>Streptomyces coelicolor</i> Is Influenced by a Novel Lipoprotein, CseA. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 6037-6037  | 3.5  | 78 |
| 76 | Isolation and characterization of the major vegetative RNA polymerase of <i>Streptomyces coelicolor</i> A3(2); renaturation of a sigma subunit using GroEL. <i>Molecular Microbiology</i> , <b>1992</b> , 6, 1133-9  | 4.1  | 78 |
| 75 | Expression of the chaplin and rodlin hydrophobic sheath proteins in <i>Streptomyces venezuelae</i> is controlled by BldN and a cognate anti-sigma factor, RsbN. <i>Molecular Microbiology</i> , <b>2012</b> , 84, 1033-49  | 4.1  | 77 |
| 74 | Generation of a non-sporulating strain of <i>Streptomyces coelicolor</i> A3(2) by the manipulation of a developmentally controlled ftsZ promoter. <i>Molecular Microbiology</i> , <b>2000</b> , 38, 737-49   | 4.1  | 76 |
| 73 | Vancomycin resistance VanS/VanR two-component systems. <i>Advances in Experimental Medicine and Biology</i> , <b>2008</b> , 631, 200-13  | 3.6  | 75 |
| 72 | A crystal structure of the bifunctional antibiotic simocyclinone D8, bound to DNA gyrase. <i>Science</i> , <b>2009</b> , 326, 1415-8   | 33.3 | 74 |
| 71 | Regulation of apical growth and hyphal branching in <i>Streptomyces</i> . <i>Current Opinion in Microbiology</i> , <b>2012</b> , 15, 737-43  | 7.9  | 68 |
| 70 | SapB and the chaplins: connections between morphogenetic proteins in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , <b>2007</b> , 64, 602-13   | 4.1  | 65 |
| 69 | Genome-Wide Chromatin Immunoprecipitation Sequencing Analysis Shows that WhiB Is a Transcription Factor That Cocontrols Its Regulon with WhiA To Initiate Developmental Cell Division in <i>Streptomyces</i> . <i>MBio</i> , <b>2016</b> , 7, e00523-16            | 7.8  | 64 |

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|----|--|------|----|
| 68 | Phage p1-derived artificial chromosomes facilitate heterologous expression of the FK506 gene cluster. <i>PLoS ONE</i> , <b>2013</b> , 8, e69319  | 3.7  | 64 |
| 67 | Different alleles of the response regulator gene bldM arrest <i>Streptomyces coelicolor</i> development at distinct stages. <i>Molecular Microbiology</i> , <b>2000</b> , 36, 1265-78  | 4.1  | 63 |
| 66 | Specialized osmotic stress response systems involve multiple SigB-like sigma factors in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , <b>2003</b> , 47, 699-714   | 4.1  | 63 |
| 65 | Assignment of the zinc ligands in RsrA, a redox-sensing ZAS protein from <i>Streptomyces coelicolor</i> . <i>Biochemistry</i> , <b>2006</b> , 45, 8294-300   | 3.2  | 62 |
| 64 | Response regulator heterodimer formation controls a key stage in <i>Streptomyces</i> development. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004554  | 6    | 58 |
| 63 | Characterization of [4Fe-4S]-containing and cluster-free forms of <i>Streptomyces</i> WhiD. <i>Biochemistry</i> , <b>2009</b> , 48, 12252-64   | 3.2  | 58 |
| 62 | Identification and structure of the anti-sigma factor-binding domain of the disulphide-stress regulated sigma factor sigma(R) from <i>Streptomyces coelicolor</i> . <i>Journal of Molecular Biology</i> , <b>2002</b> , 323, 225-36    | 6.5  | 56 |
| 61 | Function and redundancy of the chaplin cell surface proteins in aerial hypha formation, rodlet assembly, and viability in <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 5879-89                 | 3.5  | 50 |
| 60 | The crystal structure of the TetR family transcriptional repressor SimR bound to DNA and the role of a flexible N-terminal extension in minor groove binding. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 9433-47                | 20.1 | 49 |
| 59 | Developmentally regulated volatiles geosmin and 2-methylisoborneol attract a soil arthropod to <i>Streptomyces</i> bacteria promoting spore dispersal. <i>Nature Microbiology</i> , <b>2020</b> , 5, 821-829                           | 26.6 | 46 |
| 58 | DevA, a GntR-like transcriptional regulator required for development in <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 5014-23   | 3.5  | 45 |
| 57 | Construction and characterization of <i>Streptomyces coelicolor</i> A3(2) mutants that are multiply deficient in the nonessential hrd-encoded RNA polymerase sigma factors. <i>Journal of Bacteriology</i> , <b>1992</b> , 174, 5165-7 | 3.5  | 44 |
| 56 | SmeA, a small membrane protein with multiple functions in <i>Streptomyces</i> sporulation including targeting of a SpoIIIE/FtsK-like protein to cell division septa. <i>Molecular Microbiology</i> , <b>2007</b> , 65, 1458-73         | 4.1  | 42 |
| 55 | The sigma(E) cell envelope stress response of <i>Streptomyces coelicolor</i> is influenced by a novel lipoprotein, CseA. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 7222-9  | 3.5  | 41 |
| 54 | RNA polymerase-DNA interactions in <i>Streptomyces</i> . In vitro studies of a <i>S. lividans</i> plasmid promoter with <i>S. coelicolor</i> RNA polymerase. <i>Journal of Molecular Biology</i> , <b>1985</b> , 185, 177-88           | 6.5  | 41 |
| 53 | Coupling of the biosynthesis and export of the DNA gyrase inhibitor simocyclinone in <i>Streptomyces</i> antibioticus. <i>Molecular Microbiology</i> , <b>2009</b> , 72, 1462-74   | 4.1  | 40 |
| 52 | New sporulation loci in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 5419-25  | 3.5  | 40 |
| 51 | Identification and characterization of CdgB, a diguanylate cyclase involved in developmental processes in <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 3100-8                                  | 3.5  | 39 |

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|----|---|------|----|
| 50 | Sigma-E is required for the production of the antibiotic actinomycin in <i>Streptomyces antibioticus</i> . <i>Molecular Microbiology</i> , <b>1997</b> , 23, 169-78   | 4.1  | 39 |
| 49 | Specific peptide-activated proteolytic cleavage of <i>Escherichia coli</i> elongation factor Tu. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 2891-5                          | 11.5 | 39 |
| 48 | Mechanistic basis of branch-site selection in filamentous bacteria. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002423   | 5    | 37 |
| 47 | Two dynamin-like proteins stabilize FtsZ rings during sporulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E6176-E6183  | 11.5 | 36 |
| 46 | c-di-GMP Arms an Anti- $\Phi$ o Control Progression of Multicellular Differentiation in <i>Streptomyces</i> . <i>Molecular Cell</i> , <b>2020</b> , 77, 586-599.e6  | 17.6 | 36 |
| 45 | Discovery of a family of $\beta$ -aminobutyrate ureas via rational derepression of a silent bacterial gene cluster. <i>Chemical Science</i> , <b>2014</b> , 5, 86-89  | 9.4  | 34 |
| 44 | Two promoters for the whiB sporulation gene of <i>Streptomyces coelicolor</i> A3(2) and their activities in relation to development. <i>Journal of Bacteriology</i> , <b>1992</b> , 174, 6215-20  | 3.5  | 33 |
| 43 | Two promoters from the <i>Streptomyces</i> plasmid pIJ101 and their expression in <i>Escherichia coli</i> . <i>Gene</i> , <b>1987</b> , 51, 179-86  | 3.8  | 32 |
| 42 | Deletion of DNA lying close to the glkA locus induces ectopic sporulation in <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>1995</b> , 17, 221-30   | 4.1  | 31 |
| 41 | Structures of the TetR-like simocyclinone efflux pump repressor, SimR, and the mechanism of ligand-mediated derepression. <i>Journal of Molecular Biology</i> , <b>2011</b> , 408, 40-56  | 6.5  | 28 |
| 40 | 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> , <b>1998</b> , 212, 137-46                      | 3.8  | 28 |
| 39 | Identification and characterization of the mre gene region of <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Genetics and Genomics</i> , <b>2000</b> , 263, 1053-60   |      | 27 |
| 38 | Evolutionary relationships among actinophages and a putative adaptation for growth in <i>Streptomyces</i> spp. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 4924-35  | 3.5  | 26 |
| 37 | The bldC developmental locus of <i>Streptomyces coelicolor</i> encodes a member of a family of small DNA-binding proteins related to the DNA-binding domains of the MerR family. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 716-28 | 3.5  | 26 |
| 36 | Fluorescence Time-lapse Imaging of the Complete <i>S. venezuelae</i> Life Cycle Using a Microfluidic Device. <i>Journal of Visualized Experiments</i> , <b>2016</b> , 53863   | 1.6  | 25 |
| 35 | The gene encoding RNase III in <i>Streptomyces coelicolor</i> is transcribed during exponential phase and is required for antibiotic production and for proper sporulation. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 4079-83     | 3.5  | 25 |
| 34 | Multicellular Development in <i>Streptomyces</i> <b>2014</b> , 419-438  |      | 24 |
| 33 | The <i>Streptomyces</i> master regulator BldD binds c-di-GMP sequentially to create a functional BldD2-(c-di-GMP) <sub>4</sub> complex. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 6923-6933   | 20.1 | 22 |

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|----|--|------|----|
| 32 | The <i>Streptomyces coelicolor</i> developmental transcription factor sigmaBldN is synthesized as a proprotein. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 2338-45  | 3.5  | 22 |
| 31 | When is a transcription factor a NAP?. <i>Current Opinion in Microbiology</i> , <b>2020</b> , 55, 26-33  | 7.9  | 21 |
| 30 | Characterisation of <i>Streptomyces spheroides</i> NovW and revision of its functional assignment to a dTDP-6-deoxy-D-xylo-4-hexulose 3-epimerase. <i>Chemical Communications</i> , <b>2006</b> , 1079-81  | 5.8  | 21 |
| 29 | Genetic analysis of the phi C31-specific phage growth limitation (Pgl) system of <i>Streptomyces coelicolor</i> A3(2). <i>Molecular Microbiology</i> , <b>1993</b> , 7, 329-36   | 4.1  | 20 |
| 28 | Characterization of a gene conferring bialaphos resistance in <i>Streptomyces coelicolor</i> A3(2). <i>Gene</i> , <b>1991</b> , 104, 39-45   | 3.8  | 18 |
| 27 | The 1.6-Å resolution crystal structure of NovW: a 4-keto-6-deoxy sugar epimerase from the novobiocin biosynthetic gene cluster of <i>Streptomyces spheroides</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 63, 261-5 | 4.2  | 17 |
| 26 | BldC Delays Entry into Development To Produce a Sustained Period of Vegetative Growth in <i>Streptomyces venezuelae</i> . <i>MBio</i> , <b>2019</b> , 10,  | 7.8  | 15 |
| 25 | Multi-layered inhibition of <i>Streptomyces</i> development: BldO is a dedicated repressor of whiB. <i>Molecular Microbiology</i> , <b>2017</b> , 104, 700-711   | 4.1  | 14 |
| 24 | Translational Control of the SigR-Directed Oxidative Stress Response in via IF3-Mediated Repression of a Noncanonical GTC Start Codon. <i>MBio</i> , <b>2017</b> , 8,  | 7.8  | 14 |
| 23 | Characterization of the rpoC gene of <i>Streptomyces coelicolor</i> A3(2) and its use to develop a simple and rapid method for the purification of RNA polymerase. <i>Gene</i> , <b>1997</b> , 196, 31-42  | 3.8  | 14 |
| 22 | Transcription from the P1 promoters of <i>Micromonospora echinospora</i> in the absence of native upstream DNA sequences. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 6503-10  | 3.5  | 14 |
| 21 | Defining the regulon of genes controlled by $\sigma^B$ a key regulator of the cell envelope stress response in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , <b>2019</b> , 112, 461-481   | 4.1  | 12 |
| 20 | The MerR-like protein BldC binds DNA direct repeats as cooperative multimers to regulate <i>Streptomyces</i> development. <i>Nature Communications</i> , <b>2018</b> , 9, 1139   | 17.4 | 12 |
| 19 | Expansion and re-classification of the extracytoplasmic function (ECF) $\sigma$ -factor family. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 986-1005   | 20.1 | 12 |
| 18 | Discovery of the extracytoplasmic function $\sigma$ -factors. <i>Molecular Microbiology</i> , <b>2019</b> , 112, 348-355   | 4.1  | 11 |
| 17 | Determination of phosphorylation sites in the DivIVA cytoskeletal protein of <i>Streptomyces coelicolor</i> by targeted LC-MS/MS. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 4187-92  | 5.6  | 9  |
| 16 | A sporulation-specific, sigF-dependent protein, SspA, affects septum positioning in <i>Streptomyces coelicolor</i> . <i>Molecular Microbiology</i> , <b>2014</b> , 91, 363-80  | 4.1  | 7  |
| 15 | The oligoribonuclease gene in <i>Streptomyces coelicolor</i> is not transcriptionally or translationally coupled to adpA, a key bldA target. <i>FEMS Microbiology Letters</i> , <b>2008</b> , 286, 60-5  | 2.9  | 7  |

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|----|---|------|---|
| 14 | SimC7 Is a Novel NAD(P)H-Dependent Ketoreductase Essential for the Antibiotic Activity of the DNA Gyrase Inhibitor Simocyclinone. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 2192-204   | 6.5  | 6 |
| 13 | Substrate-Assisted Catalysis in Polyketide Reduction Proceeds via a Phenolate Intermediate. <i>Cell Chemical Biology</i> , <b>2016</b> , 23, 1091-1097  | 8.2  | 6 |
| 12 | The crystal structure of the RsbN-BldN complex from <i>Streptomyces venezuelae</i> defines a new structural class of anti- $\sigma$ -factor. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 7405-7417  | 20.1 | 6 |
| 11 | <i>Streptomyces venezuelae</i> NRRL B-65442: genome sequence of a model strain used to study morphological differentiation in filamentous actinobacteria. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2021</b> ,                               | 4.2  | 4 |
| 10 | Actinoplanes Swims into the Molecular Age. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,  | 3.5  | 3 |
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| 4  | Expansion and re-classification of the extracytoplasmic function (ECF) $\sigma$ -factor family  |      | 2 |
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