

Jan Kormanec

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104
papers

3,358
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h-index

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110
ext. papers

3,883
ext. citations

4.1
avg, IF

4.61
L-index

#	Paper	IF	Citations
104	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015 , 11, 625-31	11.7	498
103	Microarray-based analysis of the Staphylococcus aureus sigmaB regulon. <i>Journal of Bacteriology</i> , 2004 , 186, 4085-99	3.5	313
102	Pushing the envelope: extracytoplasmic stress responses in bacterial pathogens. <i>Nature Reviews Microbiology</i> , 2006 , 4, 383-94	22.2	250
101	New members of the Escherichia coli sigmaE regulon identified by a two-plasmid system. <i>FEMS Microbiology Letters</i> , 2003 , 225, 1-7	2.9	107
100	A new RNA polymerase sigma factor, sigma F, is required for the late stages of morphological differentiation in Streptomyces spp. <i>Molecular Microbiology</i> , 1995 , 17, 37-48	4.1	102
99	The positions of the sigma-factor genes, whiG and sigF, in the hierarchy controlling the development of spore chains in the aerial hyphae of Streptomyces coelicolor A3(2). <i>Molecular Microbiology</i> , 1996 , 21, 593-603	4.1	97
98	Role of the two-component regulator CpxAR in the virulence of Salmonella enterica serotype Typhimurium. <i>Infection and Immunity</i> , 2004 , 72, 4654-61	3.7	96
97	Molecular analysis and organization of the sigmaB operon in Staphylococcus aureus. <i>Journal of Bacteriology</i> , 2005 , 187, 8006-19	3.5	88
96	Identification of the sigmaE regulon of Salmonella enterica serovar Typhimurium. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 1347-1359	2.9	70
95	sae is essential for expression of the staphylococcal adhesins Eap and Emp. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 1789-1800	2.9	63
94	sigmaB and the sigmaB-dependent arlRS and yabJ-spoVG loci affect capsule formation in Staphylococcus aureus. <i>Infection and Immunity</i> , 2007 , 75, 4562-71	3.7	60
93	Transcriptional studies and regulatory interactions between the phoR-phoP operon and the phoU, mtpA, and ppk genes of Streptomyces lividans TK24. <i>Journal of Bacteriology</i> , 2006 , 188, 677-86	3.5	59
92	Nuclear migration in Saccharomyces cerevisiae is controlled by the highly repetitive 313 kDa NUM1 protein. <i>Molecular Genetics and Genomics</i> , 1991 , 230, 277-87		59
91	Functional characterization of the sigmaB-dependent yabJ-spoVG operon in Staphylococcus aureus: role in methicillin and glycopeptide resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 1832-9	5.9	58
90	Role of sigmaB in the expression of Staphylococcus aureus cell wall adhesins ClfA and FnBA and contribution to infectivity in a rat model of experimental endocarditis. <i>Infection and Immunity</i> , 2005 , 73, 990-8	3.7	56
89	Regulation of ppk expression and in vivo function of Ppk in Streptomyces lividans TK24. <i>Journal of Bacteriology</i> , 2006 , 188, 6269-76	3.5	52
88	Salmonella enterica Serovar Typhimurium HtrA: regulation of expression and role of the chaperone and protease activities during infection. <i>Microbiology (United Kingdom)</i> , 2009 , 155, 873-881	2.9	46

87	Transcriptional analysis of the rpoE gene encoding extracytoplasmic stress response sigma factor sigmaE in Salmonella enterica serovar Typhimurium. <i>FEMS Microbiology Letters</i> , 2003 , 226, 307-14	2.9	46
86	Stress-response sigma factor sigma(H) is essential for morphological differentiation of Streptomyces coelicolor A3(2). <i>Archives of Microbiology</i> , 2001 , 177, 98-106	3	44
85	Identification and transcriptional characterization of the gene encoding the stress-response sigma factor sigma(H) in streptomyces coelicolor A3(2). <i>FEMS Microbiology Letters</i> , 2000 , 189, 31-8	2.9	43
84	Cloning and characterization of a polyketide synthase gene cluster involved in biosynthesis of a proposed angucycline-like polyketide auricin in Streptomyces aureofaciens CCM 3239. <i>Gene</i> , 2002 , 297, 197-208	3.8	41
83	Analyzing the developmental expression of sigma factors with S1-nuclease mapping. <i>Methods in Molecular Biology</i> , 2001 , 160, 481-94	1.4	39
82	Increased heterologous production of the antitumoral polyketide mithramycin A by engineered Streptomyces lividans TK24 strains. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 857-869	5.7	36
81	Differential expression of principal sigma factor homologues of Streptomyces aureofaciens correlates with the developmental stage. <i>Nucleic Acids Research</i> , 1993 , 21, 3647-52	20.1	35
80	A two-plasmid system for identification of promoters recognized by RNA polymerase containing extracytoplasmic stress response sigma(E) in Escherichia coli. <i>Journal of Microbiological Methods</i> , 2001 , 45, 103-11	2.8	33
79	Differential production of two antibiotics of Streptomyces coelicolor A3(2), actinorhodin and undecylprodigiosin, upon salt stress conditions. <i>Archives of Microbiology</i> , 2004 , 181, 384-9	3	32
78	Four genes in Streptomyces aureofaciens containing a domain characteristic of principal sigma factors. <i>Gene</i> , 1992 , 122, 63-70	3.8	31
77	The role of the TetR-family transcriptional regulator Aur1R in negative regulation of the auricin gene cluster in Streptomyces aureofaciens CCM 3239. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 2374-2383	2.9	30
76	Identification and characterization of an indigoidine-like gene for a blue pigment biosynthesis in Streptomyces aureofaciens CCM 3239. <i>Folia Microbiologica</i> , 2010 , 55, 119-25	2.8	29
75	Optimization of a two-plasmid system for the identification of promoters recognized by RNA polymerase containing Staphylococcus aureus alternative sigma factor sigmaB. <i>FEMS Microbiology Letters</i> , 2004 , 232, 173-9	2.9	29
74	High-level expression of Na ⁺ /D-glucose cotransporter (SGLT1) in a stably transfected Chinese hamster ovary cell line. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998 , 1373, 309-20	3.8	28
73	Catabolite control protein E (CcpE) is a LysR-type transcriptional regulator of tricarboxylic acid cycle activity in Staphylococcus aureus. <i>Journal of Biological Chemistry</i> , 2013 , 288, 36116-28	5.4	27
72	The role of two SARP family transcriptional regulators in regulation of the auricin gene cluster in Streptomyces aureofaciens CCM 3239. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 1629-1639	2.9	27
71	The Brevibacterium flavum sigma factor SigB has a role in the environmental stress response. <i>FEMS Microbiology Letters</i> , 2002 , 216, 77-84	2.9	27
70	Characterization of a regulatory gene essential for the production of the angucycline-like polyketide antibiotic auricin in Streptomyces aureofaciens CCM 3239. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 2693-2706	2.9	27

69	Small outer-membrane lipoprotein, SmpA, is regulated by sigmaE and has a role in cell envelope integrity and virulence of Salmonella enterica serovar Typhimurium. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 979-988	2.9	26
68	A method for the identification of promoters recognized by RNA polymerase containing a particular sigma factor: cloning of a developmentally regulated promoter and corresponding gene directed by the Streptomyces aureofaciens sigma factor RpoZ. <i>Gene</i> , 1998 , 208, 43-50	3.8	24
67	Effect of inactivation of degS on Salmonella enterica serovar typhimurium in vitro and in vivo. <i>Infection and Immunity</i> , 2005 , 73, 459-63	3.7	24
66	Cloning and transcriptional characterization of two sigma factor genes, sigA and sigB, from Brevibacterium flavum. <i>Current Microbiology</i> , 2001 , 43, 249-54	2.4	24
65	Development of a Biosensor Concept to Detect the Production of Cluster-Specific Secondary Metabolites. <i>ACS Synthetic Biology</i> , 2017 , 6, 1026-1033	5.7	22
64	Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Subsequent Fermentation for Optimized Production. <i>Methods in Molecular Biology</i> , 2017 , 1539, 99-144	1.4	22
63	The dpsA gene of Streptomyces coelicolor: induction of expression from a single promoter in response to environmental stress or during development. <i>PLoS ONE</i> , 2011 , 6, e25593	3.7	21
62	The Streptomyces aureofaciens homologue of the whiG gene encoding a putative sigma factor essential for sporulation. <i>Gene</i> , 1994 , 143, 101-3	3.8	21
61	Activity of the Streptomyces coelicolor stress-response sigma factor sigmaH is regulated by an anti-sigma factor. <i>FEMS Microbiology Letters</i> , 2002 , 209, 229-35	2.9	20
60	The anti-anti-sigma factor BldG is involved in activation of the stress response sigma factor sigma(H) in Streptomyces coelicolor A3(2). <i>Journal of Bacteriology</i> , 2010 , 192, 5674-81	3.5	19
59	Cascade of extracytoplasmic function sigma factors in Mycobacterium tuberculosis: identification of a sigmaJ-dependent promoter upstream of sigI. <i>FEMS Microbiology Letters</i> , 2008 , 280, 120-6	2.9	18
58	Utilization of a reporter system based on the blue pigment indigoidine biosynthetic gene bpsA for detection of promoter activity and deletion of genes in Streptomyces. <i>Journal of Microbiological Methods</i> , 2015 , 113, 1-3	2.8	16
57	Intriguing properties of the angucycline antibiotic auricin and complex regulation of its biosynthesis. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 45-60	5.7	16
56	Stress-response sigma factor sigma(H) directs expression of the gltB gene encoding glutamate synthase in Streptomyces coelicolor A3(2). <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002 , 1577, 149-54		16
55	A method for isolation of small DNA fragments from agarose and polyacrylamide gels. <i>Analytical Biochemistry</i> , 2001 , 293, 138-9	3.1	16
54	The periplasmic chaperone Skp is required for successful Salmonella Typhimurium infection in a murine typhoid model. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 848-858	2.9	15
53	Differential expression of two sporulation specific sigma factors of Streptomyces aureofaciens correlates with the developmental stage. <i>Gene</i> , 1996 , 181, 19-27	3.8	15
52	Multiple regulatory genes in the salinomycin biosynthetic gene cluster of Streptomyces albus CCM 4719. <i>Folia Microbiologica</i> , 2007 , 52, 359-65	2.8	14

51	Characterization of the polyketide spore pigment cluster whiESa in <i>Streptomyces aureofaciens</i> CCM3239. <i>Archives of Microbiology</i> , 2004 , 182, 388-95	3	14
50	A Butyrolactone autoregulator-receptor system involved in the regulation of auricin production in <i>Streptomyces aureofaciens</i> CCM 3239. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 309-25	5.7	13
49	Strict control of auricin production in <i>Streptomyces aureofaciens</i> CCM 3239 involves a feedback mechanism. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 2413-21	5.7	13
48	Disruption of a sigma factor gene, sigF, affects an intermediate stage of spore pigment production in <i>Streptomyces aureofaciens</i> . <i>FEMS Microbiology Letters</i> , 1997 , 153, 371-7	2.9	13
47	Mapping the transcription start points of the <i>Staphylococcus aureus</i> eap, emp, and vwb promoters reveals a conserved octanucleotide sequence that is essential for expression of these genes. <i>Journal of Bacteriology</i> , 2008 , 190, 447-51	3.5	12
46	<i>Streptomyces aureofaciens</i> whiB gene encoding putative transcription factor essential for differentiation. <i>Nucleic Acids Research</i> , 1993 , 21, 2512	20.1	12
45	Regulation of an alternative sigma factor σ^{100} by a partner switching mechanism with an anti-sigma factor PrsI and an anti-anti-sigma factor ArsI in <i>Streptomyces coelicolor</i> A3(2). <i>Gene</i> , 2012 , 492, 71-80	3.8	11
44	Disruption of a glycogen-branching enzyme gene, glgB, specifically affects the sporulation-associated phase of glycogen accumulation in <i>Streptomyces aureofaciens</i> . <i>Microbiology (United Kingdom)</i> , 1996 , 142, 1201-1208	2.9	11
43	Sigma(s)-Dependent carbon-starvation induction of pbpG (PBP 7) is required for the starvation-stress response in <i>Salmonella enterica</i> serovar Typhimurium. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 2148-2158	2.9	11
42	Recent achievements in the generation of stable genome alterations/mutations in species of the genus <i>Streptomyces</i> . <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 5463-5482	5.7	10
41	A gene determining a new member of the SARP family contributes to transcription of genes for the synthesis of the angucycline polyketide auricin in <i>Streptomyces aureofaciens</i> CCM 3239. <i>FEMS Microbiology Letters</i> , 2013 , 346, 45-55	2.9	10
40	The gene cluster aur1 for the angucycline antibiotic auricin is located on a large linear plasmid pSA3239 in <i>Streptomyces aureofaciens</i> CCM 3239. <i>FEMS Microbiology Letters</i> , 2013 , 342, 130-7	2.9	10
39	Identification of promoters recognized by RNA polymerase containing <i>Mycobacterium tuberculosis</i> stress-response sigma factor sigma(F). <i>Archives of Microbiology</i> , 2007 , 187, 185-97	3	10
38	Cascade of sigma factors in streptomycetes: identification of a new extracytoplasmic function sigma factor sigmaJ that is under the control of the stress-response sigma factor sigmaH in <i>Streptomyces coelicolor</i> A3(2). <i>Archives of Microbiology</i> , 2006 , 186, 435-46	3	10
37	Cloning, sequencing and expression in <i>Escherichia coli</i> of a <i>Streptomyces aureofaciens</i> gene encoding glyceraldehyde-3-phosphate dehydrogenase. <i>Gene</i> , 1995 , 165, 77-80	3.8	10
36	Genetic manipulation of pathway regulation for overproduction of angucycline-like antibiotic auricin in <i>Streptomyces aureofaciens</i> CCM 3239. <i>Folia Microbiologica</i> , 2011 , 56, 276-82	2.8	9
35	The ssgB gene, encoding a member of the regulon of stress-response sigma factor sigmaH, is essential for aerial mycelium septation in <i>Streptomyces coelicolor</i> A3(2). <i>Archives of Microbiology</i> , 2003 , 180, 380-4	3	9
34	The <i>Streptomyces aureofaciens</i> homologue of the sporulation gene whiH is dependent on rpoZ-encoded sigma factor. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999 , 1444, 80-4		9

33	Cloning of the putative glycogen branching enzyme gene, glgB, from <i>Streptomyces aureofaciens</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994 , 1200, 334-6	4	9
32	Characterization of the sigmaE-dependent rpoEp3 promoter of <i>Salmonella enterica</i> serovar Typhimurium. <i>FEMS Microbiology Letters</i> , 2006 , 261, 53-9	2.9	8
31	An efficient blue-white screening system for markerless deletions and stable integrations in <i>Streptomyces</i> chromosomes based on the blue pigment indigoidine biosynthetic gene bpsA. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 10231-10244	5.7	8
30	Complete Genome Sequence of subsp. CCM 3239 (Formerly "CCM 3239"), a Producer of the Angucycline-Type Antibiotic Auricin. <i>Genome Announcements</i> , 2018 , 6,		7
29	The σ^E -specific anti-sigma factor RsfA is one of the protein kinases that phosphorylates the pleiotropic anti-anti-sigma factor BldG in <i>Streptomyces coelicolor</i> A3(2). <i>Gene</i> , 2014 , 538, 280-7	3.8	7
28	Identification of nucleotides critical for activity of the σ^E -dependent rpoEp3 promoter in <i>Salmonella enterica</i> serovar Typhimurium. <i>FEMS Microbiology Letters</i> , 2004 , 238, 227-233	2.9	7
27	<i>Streptomyces aureofaciens</i> sporulation-specific sigma factor sigma(rpoZ) directs expression of a gene encoding protein similar to hydrolases involved in degradation of the lignin-related biphenyl compounds. <i>Research in Microbiology</i> , 2001 , 152, 883-8	4	7
26	Sequence analysis and gene amplification study of the penicillin biosynthesis gene cluster from different strains of <i>Penicillium chrysogenum</i> . <i>Biologia (Poland)</i> , 2010 , 65, 1-6	1.5	6
25	Optimization of a two-plasmid system for the identification of promoters recognized by RNA polymerase containing <i>Mycobacterium tuberculosis</i> stress response sigma factor, sigmaF. <i>Folia Microbiologica</i> , 2004 , 49, 685-91	2.8	6
24	Identification of nucleotides critical for activity of the sigmaE-dependent rpoEp3 promoter in <i>Salmonella enterica</i> serovar Typhimurium. <i>FEMS Microbiology Letters</i> , 2004 , 238, 227-33	2.9	6
23	Cloning and sequencing of the gene encoding a ribonuclease from <i>Streptomyces aureofaciens</i> CCM3239. <i>Gene</i> , 1992 , 119, 147-8	3.8	6
22	Secretome Dynamics in a Gram-Positive Bacterial Model. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 423-436	7.6	6
21	Cloning and characterization of a new polyketide synthase gene cluster in <i>Streptomyces aureofaciens</i> CCM 3239. <i>DNA Sequence</i> , 2004 , 15, 188-95		5
20	Localization and characterization of a temporally regulated promoter from the <i>Streptomyces aureofaciens</i> 2201 plasmid pSA 2201. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991 , 1088, 119-26		5
19	Monitoring Protein Secretion in Using Fluorescent Proteins. <i>Frontiers in Microbiology</i> , 2018 , 9, 3019	5.7	5
18	Rapid identification of <i>Streptomyces tetracycline</i> producers by MALDI-TOF mass spectrometry. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018 , 53, 1083-1093	2.3	5
17	A Structural Analysis of the Angucycline-Like Antibiotic Auricin from Subsp. CCM 3239 Revealed Its High Similarity to Griseusins. <i>Antibiotics</i> , 2019 , 8,	4.9	4
16	A gene (hur) from <i>Streptomyces aureofaciens</i> , conferring resistance to hydroxyurea, is related to genes encoding streptomycin phosphotransferase. <i>Gene</i> , 1992 , 114, 133-7	3.8	4

15	Unusual features of the large linear plasmid pSA3239 from <i>Streptomyces aureofaciens</i> CCM 3239. <i>Gene</i> , 2018 , 642, 313-323	3.8	4
14	Characterisation of the genes involved in the biosynthesis and attachment of the aminodeoxysugar D-forosamine in the auricin gene cluster of <i>Streptomyces aureofaciens</i> CCM3239. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3177-95	5.7	3
13	Corrigendum to Optimization of a two-plasmid system for the identification of promoters recognized by RNA polymerase containing <i>Staphylococcus aureus</i> alternative sigma factor σ^{B} [FEMS Microbiol. Lett. 232 (2004) 173-179]. <i>FEMS Microbiology Letters</i> , 2004 , 235, 211-211	2.9	3
12	The antitumor antibiotic mithramycin: new advanced approaches in modification and production. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 7701-7721	5.7	3
11	Characterization of the <i>micA</i> gene encoding a small regulatory σ -dependent RNA in <i>Salmonella enterica</i> serovar Typhimurium. <i>Folia Microbiologica</i> , 2011 , 56, 59-65	2.8	2
10	The Complex Roles and Regulation of Stress Response Factors in <i>Streptomyces Coelicolor</i> 2016 , 328-343		1
9	Phenotypic analysis of <i>Salmonella enterica</i> serovar Typhimurium <i>rpoE</i> mutants encoding RNA polymerase extracytoplasmic stress response sigma factors (σ^E) with altered promoter specificity. <i>Archives of Microbiology</i> , 2013 , 195, 27-36	3	1
8	A mutant of <i>Salmonella enterica</i> serovar Typhimurium RNA polymerase extracytoplasmic stress response sigma factor sigma(E) with altered promoter specificity. <i>Molecular Genetics and Genomics</i> , 2009 , 282, 119-29	3.1	1
7	The expression of the <i>rpoE</i> operon is fine-tuned by the internal <i>rseA</i> promoter in <i>Salmonella enterica</i> serovar Typhimurium. <i>Biologia (Poland)</i> , 2010 , 65, 932-938	1.5	1
6	The Role of Alternative Sigma Factors in Pathogen Virulence 2017 , 229-303		1
5	Pleiotropic anti-anti-sigma factor BldG is phosphorylated by several anti-sigma factor kinases in the process of activating multiple sigma factors in <i>Streptomyces coelicolor</i> A3(2). <i>Gene</i> , 2020 , 755, 144883	3.8	0
4	An efficient system for stable markerless integration of large biosynthetic gene clusters into <i>Streptomyces</i> chromosomes. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 2123-2137	5.7	0
3	The linear plasmid pSA3239 is essential for the replication of the <i>Streptomyces lavendulae</i> subsp. <i>lavendulae</i> CCM 3239 chromosome. <i>Research in Microbiology</i> , 2021 , 172, 103870	4	0
2	Screening Systems for Stable Markerless Genomic Deletions/Integrations in <i>Streptomyces</i> Species. <i>Methods in Molecular Biology</i> , 2021 , 2296, 91-141	1.4	0
1	The gene downstream of <i>Streptomyces aureofaciens</i> <i>whiB</i> encodes a large protein with proposed transmembrane localization, and is induced by glucose. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998 , 1397, 151-5		