

Santiago Gutierrez Martn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

3,810
citations

38
h-index

56
g-index

124
ext. papers

4,402
ext. citations

4
avg, IF

4.95
L-index

#	Paper	IF	Citations
120	Volatile-mediated interactions between <i>Trichoderma harzianum</i> and <i>Acanthoscelides obtectus</i> : A novel in vitro methodology to evaluate the impact of microbial volatile compounds on dry grain storage pests. <i>Biological Control</i> , 2022 , 169, 104868	3.8	2
119	Novel culture chamber to evaluate in vitro plant-microbe volatile interactions: effects of <i>Trichoderma harzianum</i> volatiles on wheat plantlets. <i>Plant Science</i> , 2022 , 111286	5.3	1
118	Use of VOC Chambers to evaluate the impact of microbial volatile compounds on dry grain insect pests. <i>MethodsX</i> , 2022 , 9, 101734	1.9	
117	Organic and Conventional Bean Pesticides in Development of Autochthonous <i>Trichoderma</i> Strains. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022 , 8, 603	5.6	0
116	Distribution, Function, and Evolution of a Gene Essential for Trichothecene Toxin Biosynthesis in .. <i>Frontiers in Microbiology</i> , 2021 , 12, 791641	5.7	0
115	Germination and Agronomic Traits of <i>Phaseolus vulgaris</i> L. Beans Sprayed with <i>Trichoderma</i> Strains and Attacked by <i>Acanthoscelides obtectus</i> . <i>Agronomy</i> , 2021 , 11, 2130	3.6	
114	Phylogenomic Analysis of a 55.1-kb 19-Gene Dataset Resolves a Monophyletic that Includes the Species Complex. <i>Phytopathology</i> , 2021 , 111, 1064-1079	3.8	39
113	Volatile Organic Compound Chamber: A Novel Technology for Microbiological Volatile Interaction Assays. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	4
112	Use of the volatile trichodiene to reduce <i>Fusarium</i> head blight and trichothecene contamination in wheat. <i>Microbial Biotechnology</i> , 2021 ,	6.3	4
111	Influence of Fungicide Application and Vine Age on <i>Trichoderma</i> Diversity as Source of Biological Control Agents. <i>Agronomy</i> , 2021 , 11, 446	3.6	5
110	Influence of Physicochemical Characteristics of Bean Crop Soil in <i>Trichoderma</i> spp. Development. <i>Agronomy</i> , 2021 , 11, 274	3.6	5
109	The Influence of Temperature on the Growth, Sporulation, Colonization, and Survival of <i>Trichoderma</i> spp. in Grapevine Pruning Wounds. <i>Agronomy</i> , 2021 , 11, 1771	3.6	3
108	Fungal Secondary Metabolism 2021 , 54-63		
107	Evaluation of substrates and additives to <i>Trichoderma harzianum</i> development by qPCR. <i>Agronomy Journal</i> , 2020 , 112, 3188-3194	2.2	3
106	Genetic bases for variation in structure and biological activity of trichothecene toxins produced by diverse fungi. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 5185-5199	5.7	7
105	<i>Trichoderma</i> trichothecenes 2020 , 281-301		3
104	Spores of <i>Trichoderma</i> strains sprayed over <i>Acanthoscelides obtectus</i> and <i>Phaseolus vulgaris</i> L. beans: Effects in the biology of the bean weevil. <i>Journal of Stored Products Research</i> , 2020 , 88, 101666	2.5	4

103	Influence of Substrates in the Development of Bean and in Pathogenicity of <i>Rhizoctonia solani</i> JG KĀn. <i>Agronomy</i> , 2020 , 10, 707	3.6	0
102	Colonization of L. by the Endophyte sp. Strain T154: Biocontrol Activity Against. <i>Frontiers in Plant Science</i> , 2020 , 11, 1170	6.2	13
101	Identification of plant genes putatively involved in the perception of fungal ergosterol-squalene. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 927-947	8.3	9
100	Effect of and on the Metabolome of Bean Plants (L.). <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	17
99	Fungal Horizontal Gene Transfer: A History Beyond the Phylogenetic Kingdoms 2019 , 315-336		3
98	A cytochrome P450 monooxygenase gene required for biosynthesis of the trichothecene toxin harzianum A in <i>Trichoderma</i> . <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 8087-8103	5.7	8
97	Effect of trichodiene synthase encoding gene expression in <i>Trichoderma</i> strains on their effectiveness in the control of <i>Acanthoscelides obtectus</i> . <i>Journal of Stored Products Research</i> , 2019 , 83, 275-280	2.5	6
96	Synthesis of Trichodermin Derivatives and Their Antimicrobial and Cytotoxic Activities. <i>Molecules</i> , 2019 , 24,	4.8	3
95	Requirement of Two Acyltransferases for 4- O-Acylation during Biosynthesis of Harzianum A, an Antifungal Trichothecene Produced by <i>Trichoderma arundinaceum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 723-734	5.7	8
94	Role of <i>Trichoderma arundinaceum</i> tri10 in regulation of terpene biosynthetic genes and in control of metabolic flux. <i>Fungal Genetics and Biology</i> , 2019 , 122, 31-46	3.9	12
93	Relevance of the deletion of the Tatri4 gene in the secondary metabolome of <i>Trichoderma arundinaceum</i> . <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 2955-2965	3.9	10
92	Evolution of structural diversity of trichothecenes, a family of toxins produced by plant pathogenic and entomopathogenic fungi. <i>PLoS Pathogens</i> , 2018 , 14, e1006946	7.6	90
91	Effect of deletion of a trichothecene toxin regulatory gene on the secondary metabolism transcriptome of the saprotrophic fungus <i>Trichoderma arundinaceum</i> . <i>Fungal Genetics and Biology</i> , 2018 , 119, 29-46	3.9	18
90	Investigations of <i>Trichoderma</i> spp. and <i>Beauveria bassiana</i> as biological control agent for <i>Xylotrechus arvicola</i> , a major insect pest in Spanish vineyards. <i>Journal of Economic Entomology</i> , 2018 , 111, 2585-2591	2.2	13
89	Effect of trichodiene production by <i>Trichoderma harzianum</i> on <i>Acanthoscelides obtectus</i> . <i>Journal of Stored Products Research</i> , 2018 , 77, 231-239	2.5	19
88	Inhibitory activity of <i>Beauveria bassiana</i> and <i>Trichoderma</i> spp. on the insect pests <i>Xylotrechus arvicola</i> (Coleoptera: Cerambycidae) and <i>Acanthoscelides obtectus</i> (Coleoptera: Chrysomelidae: Bruchinae). <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 12	3.1	19
87	Involvement of Epl-1 Protein in the Regulation of Virulence- and Tomato Defense-Related Genes. <i>Frontiers in Plant Science</i> , 2017 , 8, 880	6.2	24
86	Involvement of the Transcriptional Coactivator ThMBF1 in the Biocontrol Activity of. <i>Frontiers in Microbiology</i> , 2017 , 8, 2273	5.7	11

85	Insecticidal activity of <i>Trichoderma harzianum</i> against <i>Xylotrechus arvicola</i> and <i>Acanthoscelides obtectus</i> immature stages. <i>Planta Medica</i> , 2016 , 81, S1-S381	3.1	2
84	Effect of Farnesol, a compound produced by <i>Trichoderma</i> when growing on bean (<i>Phaseolus vulgaris</i> L.). <i>Planta Medica</i> , 2016 , 81, S1-S381	3.1	1
83	Nitrogen Metabolism and Growth Enhancement in Tomato Plants Challenged with <i>Trichoderma harzianum</i> Expressing the <i>Aspergillus nidulans</i> Acetamidase <i>amdS</i> Gene. <i>Frontiers in Microbiology</i> , 2016 , 7, 1182	5.7	19
82	Development of a qPCR Strategy to Select Bean Genes Involved in Plant Defense Response and Regulated by the <i>Trichoderma velutinum</i> - <i>Rhizoctonia solani</i> Interaction. <i>Frontiers in Plant Science</i> , 2016 , 7, 1109	6.2	29
81	Trichothecenes and aspinolides produced by <i>Trichoderma arundinaceum</i> regulate expression of <i>Botrytis cinerea</i> genes involved in virulence and growth. <i>Environmental Microbiology</i> , 2016 , 18, 3991-4004	5.2	16
80	Botrydial and botcinins produced by <i>Botrytis cinerea</i> regulate the expression of <i>Trichoderma arundinaceum</i> genes involved in trichothecene biosynthesis. <i>Molecular Plant Pathology</i> , 2016 , 17, 1017-317	5.7	12
79	Effects of Trichothecene Production on the Plant Defense Response and Fungal Physiology: Overexpression of the <i>Trichoderma arundinaceum</i> <i>tri4</i> Gene in <i>T. harzianum</i> . <i>Applied and Environmental Microbiology</i> , 2015 , 81, 6355-66	4.8	26
78	Novel aspinolide production by <i>Trichoderma arundinaceum</i> with a potential role in <i>Botrytis cinerea</i> antagonistic activity and plant defence priming. <i>Environmental Microbiology</i> , 2015 , 17, 1103-18	5.2	39
77	Production of trichodiene by <i>Trichoderma harzianum</i> alters the perception of this biocontrol strain by plants and antagonized fungi. <i>Environmental Microbiology</i> , 2015 , 17, 2628-46	5.2	51
76	Trichodiene Production in a <i>Trichoderma harzianum</i> <i>erg1</i> -Silenced Strain Provides Evidence of the Importance of the Sterol Biosynthetic Pathway in Inducing Plant Defense-Related Gene Expression. <i>Molecular Plant-Microbe Interactions</i> , 2015 , 28, 1181-97	3.6	29
75	The importance of chorismate mutase in the biocontrol potential of <i>Trichoderma parareesei</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 1181	5.7	24
74	Influence of <i>Rhizoctonia solani</i> and <i>Trichoderma</i> spp. in growth of bean (<i>Phaseolus vulgaris</i> L.) and in the induction of plant defense-related genes. <i>Frontiers in Plant Science</i> , 2015 , 6, 685	6.2	68
73	<i>Trichoderma</i> Transformation Methods. <i>Fungal Biology</i> , 2015 , 41-48	2.3	2
72	The Cerato-Platanin protein Epl-1 from <i>Trichoderma harzianum</i> is involved in mycoparasitism, plant resistance induction and self cell wall protection. <i>Scientific Reports</i> , 2015 , 5, 17998	4.9	56
71	Secondary Metabolism and Antimicrobial Metabolites of <i>Trichoderma</i> 2014 , 125-137		37
70	Overexpression of <i>erg1</i> gene in <i>Trichoderma harzianum</i> CECT 2413: effect on the induction of tomato defence-related genes. <i>Journal of Applied Microbiology</i> , 2014 , 117, 812-23	4.7	19
69	Relevance of trichothecenes in fungal physiology: disruption of <i>tri5</i> in <i>Trichoderma arundinaceum</i> . <i>Fungal Genetics and Biology</i> , 2013 , 53, 22-33	3.9	72
68	The contribution of <i>Trichoderma</i> to balancing the costs of plant growth and defense. <i>International Microbiology</i> , 2013 , 16, 69-80	3	115

67	Involvement of <i>Trichoderma trichothecenes</i> in the biocontrol activity and induction of plant defense-related genes. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 4856-68	4.8	115
66	Overexpression of the trichodiene synthase gene <i>tri5</i> increases trichodermin production and antimicrobial activity in <i>Trichoderma brevicompactum</i> . <i>Fungal Genetics and Biology</i> , 2011 , 48, 285-96	3.9	97
65	Identification of loci and functional characterization of trichothecene biosynthesis genes in filamentous fungi of the genus <i>Trichoderma</i> . <i>Applied and Environmental Microbiology</i> , 2011 , 77, 4867-77	4.8	106
64	Functional analysis of the <i>Trichoderma harzianum</i> <i>nox1</i> gene, encoding an NADPH oxidase, relates production of reactive oxygen species to specific biocontrol activity against <i>Pythium ultimum</i> . <i>Applied and Environmental Microbiology</i> , 2011 , 77, 3009-16	4.8	65
63	Overexpression of the <i>Trichoderma brevicompactum</i> <i>tri5</i> gene: effect on the expression of the trichodermin biosynthetic genes and on tomato seedlings. <i>Toxins</i> , 2011 , 3, 1220-32	4.9	36
62	Transgenic expression of the <i>Trichoderma harzianum</i> <i>hsp70</i> gene increases <i>Arabidopsis</i> resistance to heat and other abiotic stresses. <i>Journal of Plant Physiology</i> , 2010 , 167, 659-65	3.6	135
61	TvDim1 of <i>Trichoderma virens</i> is involved in redox-processes and confers resistance to oxidative stresses. <i>Current Genetics</i> , 2010 , 56, 63-73	2.9	16
60	The ThPG1 endopolygalacturonase is required for the <i>Trichoderma harzianum</i> -plant beneficial interaction. <i>Molecular Plant-Microbe Interactions</i> , 2009 , 22, 1021-31	3.6	130
59	Overexpression of a <i>Trichoderma</i> HSP70 gene increases fungal resistance to heat and other abiotic stresses. <i>Fungal Genetics and Biology</i> , 2008 , 45, 1506-13	3.9	59
58	Age-related clinical, serological, and histopathological features of celiac disease. <i>American Journal of Gastroenterology</i> , 2008 , 103, 2360-5; quiz 2366	0.7	82
57	Cloning and characterization of the <i>Thcut1</i> gene encoding a cutinase of <i>Trichoderma harzianum</i> T34. <i>Current Genetics</i> , 2008 , 54, 301-12	2.9	25
56	The heterologous overexpression of <i>hsp23</i> , a small heat-shock protein gene from <i>Trichoderma virens</i> , confers thermotolerance to <i>T. harzianum</i> . <i>Current Genetics</i> , 2007 , 52, 45-53	2.9	35
55	Partial silencing of a hydroxy-methylglutaryl-CoA reductase-encoding gene in <i>Trichoderma harzianum</i> CECT 2413 results in a lower level of resistance to lovastatin and lower antifungal activity. <i>Fungal Genetics and Biology</i> , 2007 , 44, 269-83	3.9	50
54	Genome-wide analysis of differentially expressed genes from <i>Penicillium chrysogenum</i> grown with a repressing or a non-repressing carbon source. <i>Current Genetics</i> , 2006 , 49, 85-96	2.9	12
53	Detection of peptaibols and partial cloning of a putative peptaibol synthetase gene from <i>T. harzianum</i> CECT 2413. <i>Folia Microbiologica</i> , 2006 , 51, 114-20	2.8	17
52	Generation, annotation and analysis of ESTs from <i>Trichoderma harzianum</i> CECT 2413. <i>BMC Genomics</i> , 2006 , 7, 193	4.5	53
51	Cloning and characterization of the <i>erg1</i> gene of <i>Trichoderma harzianum</i> : effect of the <i>erg1</i> silencing on ergosterol biosynthesis and resistance to terbinafine. <i>Fungal Genetics and Biology</i> , 2006 , 43, 164-78	3.9	69
50	ThPTR2, a di/tri-peptide transporter gene from <i>Trichoderma harzianum</i> . <i>Fungal Genetics and Biology</i> , 2006 , 43, 234-46	3.9	34

49	A comparison of the phenotypic and genetic stability of recombinant <i>Trichoderma</i> spp. generated by protoplast- and <i>Agrobacterium</i> -mediated transformation. <i>Journal of Microbiology</i> , 2006 , 44, 383-95	3	39
48	Detection of putative peptide synthetase genes in <i>Trichoderma</i> species: application of this method to the cloning of a gene from <i>T. harzianum</i> CECT 2413. <i>FEMS Microbiology Letters</i> , 2005 , 244, 139-48	2.9	34
47	Screening of antimicrobial activities in <i>Trichoderma</i> isolates representing three trichoderma sections. <i>Mycological Research</i> , 2005 , 109, 1397-406		37
46	Stable transformants of the azaphilone pigment-producing <i>Monascus purpureus</i> obtained by protoplast transformation and <i>Agrobacterium</i> -mediated DNA transfer. <i>Current Genetics</i> , 2003 , 43, 447-52	2.9	39
45	Expression of a synthetic copy of the bovine chymosin gene in <i>Aspergillus awamori</i> from constitutive and pH-regulated promoters and secretion using two different pre-pro sequences. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 249-59	4.9	25
44	The isopenicillin N acyltransferases of <i>Aspergillus nidulans</i> and <i>Penicillium chrysogenum</i> differ in their ability to maintain the 40-kDa alphabeta heterodimer in an undissociated form. <i>FEBS Journal</i> , 2003 , 270, 1958-68		18
43	Co-transformation with autonomous replicating and integrative plasmids in <i>Penicillium chrysogenum</i> is highly efficient and leads in some cases to rescue of the intact integrative plasmid. <i>Fungal Genetics and Biology</i> , 2003 , 40, 83-92	3.9	6
42	Subcellular localization of the homocitrate synthase in <i>Penicillium chrysogenum</i> . <i>Molecular Genetics and Genomics</i> , 2002 , 266, 711-9	3.1	10
41	The <i>cefT</i> gene of <i>Acremonium chrysogenum</i> C10 encodes a putative multidrug efflux pump protein that significantly increases cephalosporin C production. <i>Molecular Genetics and Genomics</i> , 2002 , 267, 673-83	3.1	62
40	A novel epimerization system in fungal secondary metabolism involved in the conversion of isopenicillin N into penicillin N in <i>Acremonium chrysogenum</i> . <i>Journal of Biological Chemistry</i> , 2002 , 277, 46216-25	5.4	57
39	Silencing of the aspergillopepsin B (<i>pepB</i>) gene of <i>Aspergillus awamori</i> by antisense RNA expression or protease removal by gene disruption results in a large increase in thaumatin production. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 3550-9	4.8	45
38	Cloning and characterization of the gene <i>cahB</i> encoding a cephalosporin C acetylhydrolase from <i>Acremonium chrysogenum</i> . <i>Applied Microbiology and Biotechnology</i> , 2001 , 57, 350-6	5.7	13
37	Intrachromosomal recombination after targeted monocopy integration in <i>Penicillium chrysogenum</i> : stabilization of the direct repeats to prevent loss of the inserted gene. <i>Current Genetics</i> , 2001 , 39, 231-6	2.9	2
36	Characterization of the reverse transsulfuration gene <i>mecB</i> of <i>Acremonium chrysogenum</i> , which encodes a functional cystathionine-gamma-lyase. <i>Molecular Genetics and Genomics</i> , 2001 , 264, 746-54	3.1	10
35	Characterization of the <i>gdhA</i> gene from the phytopathogen <i>Botrytis cinerea</i> . <i>Fungal Genetics and Biology</i> , 2001 , 34, 193-206	3.9	4
34	Targeted inactivation of the <i>mecB</i> gene, encoding cystathionine-gamma-lyase, shows that the reverse transsulfuration pathway is required for high-level cephalosporin biosynthesis in <i>Acremonium chrysogenum</i> C10 but not for methionine induction of the cephalosporin genes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 17115-20	3.5	38
33	The specific transport system for lysine is fully inhibited by ammonium in <i>Penicillium chrysogenum</i> : an ammonium-insensitive system allows uptake in carbon-starved cells. <i>Antonie Van Leeuwenhoek</i> , 2000 , 77, 91-100	2.1	4
32	Overexpression of the <i>lys1</i> gene in <i>Penicillium chrysogenum</i> : homocitrate synthase levels, alpha-aminoadipic acid pool and penicillin production. <i>Applied Microbiology and Biotechnology</i> , 2000 , 54, 69-77	5.7	14

31	Overexpression and lack of degradation of thaumatin in an aspergillopepsin A-defective mutant of <i>Aspergillus awamori</i> containing an insertion in the pepA gene. <i>Applied Microbiology and Biotechnology</i> , 2000 , 54, 772-7	5.7	28
30	A novel heptameric sequence (TTAGTAA) is the binding site for a protein required for high level expression of pcbAB, the first gene of the penicillin biosynthesis in <i>Penicillium chrysogenum</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 2423-30	5.4	29
29	Transcription of the pcbAB, pcbC and penDE genes of <i>Penicillium chrysogenum</i> AS-P-78 is repressed by glucose and the repression is not reversed by alkaline pHs. <i>Microbiology (United Kingdom)</i> , 1999 , 145 (Pt 2), 317-324	2.9	34
28	Penicillin and cephalosporin biosynthesis: mechanism of carbon catabolite regulation of penicillin production. <i>Antonie Van Leeuwenhoek</i> , 1999 , 75, 21-31	2.1	53
27	Gene organization and plasticity of the beta-lactam genes in different filamentous fungi. <i>Antonie Van Leeuwenhoek</i> , 1999 , 75, 81-94	2.1	52
26	Intrachromosomal recombination between direct repeats in <i>Penicillium chrysogenum</i> : gene conversion and deletion events. <i>Molecular Genetics and Genomics</i> , 1999 , 261, 994-1000		31
25	Characterization and lysine control of expression of the lys1 gene of <i>Penicillium chrysogenum</i> encoding homocitrate synthase. <i>Gene</i> , 1999 , 226, 51-9	3.8	20
24	Molecular characterization of the <i>Acremonium chrysogenum</i> cefG gene product: the native deacetylcephalosporin C acetyltransferase is not processed into subunits. <i>Biochemical Journal</i> , 1999 , 337, 379-385	3.8	23
23	Molecular characterization of the <i>Acremonium chrysogenum</i> cefG gene product: the native deacetylcephalosporin C acetyltransferase is not processed into subunits. <i>Biochemical Journal</i> , 1999 , 337, 379	3.8	8
22	Thaumatin production in <i>Aspergillus awamori</i> by use of expression cassettes with strong fungal promoters and high gene dosage. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 1168-74	4.8	45
21	Characterization of the lys2 gene of <i>Penicillium chrysogenum</i> encoding alpha-amino adipic acid reductase. <i>Molecular Genetics and Genomics</i> , 1998 , 259, 549-56		28
20	Characterization and nitrogen-source regulation at the transcriptional level of the gdhA gene of <i>Aspergillus awamori</i> encoding an NADP-dependent glutamate dehydrogenase. <i>Current Genetics</i> , 1998 , 34, 50-9	2.9	34
19	Characterization of the bip gene of <i>Aspergillus awamori</i> encoding a protein with an HDEL retention signal homologous to the mammalian BiP involved in polypeptide secretion. <i>Current Genetics</i> , 1997 , 32, 139-46	2.9	18
18	Expression of the cefG gene is limiting for cephalosporin biosynthesis in <i>Acremonium chrysogenum</i> . <i>Applied Microbiology and Biotechnology</i> , 1997 , 48, 606-14	5.7	61
17	Autonomously replicating plasmids carrying the AMA1 region in <i>Penicillium chrysogenum</i> . <i>Current Genetics</i> , 1996 , 29, 482-9	2.9	50
16	Mutants blocked in penicillin biosynthesis show a deletion of the entire penicillin gene cluster at a specific site within a conserved hexanucleotide sequence. <i>Applied Microbiology and Biotechnology</i> , 1996 , 44, 597-604	5.7	79
15	Molecular genetics as a tool to remove bottlenecks in the biosynthesis of β -lactam antibiotics. <i>World Journal of Microbiology and Biotechnology</i> , 1996 , 12, 517-23	4.4	1
14	Mutants blocked in penicillin biosynthesis show a deletion of the entire penicillin gene cluster at a specific site within a conserved hexanucleotide sequence 1996 , 44, 597		7

13	Autonomously replicating plasmids carrying theAMA1 region inPenicillium chrysogenum 1996 , 29, 482		3
12	Genes for beta-lactam antibiotic biosynthesis. <i>Antonie Van Leeuwenhoek</i> , 1995 , 67, 181-200	2.1	34
11	Three genes hrdB, hrdD and hrdT of Streptomyces griseus IMRU 3570, encoding sigma factor-like proteins, are differentially expressed under specific nutritional conditions. <i>Gene</i> , 1995 , 153, 41-8	3.8	16
10	The penicillin gene cluster is amplified in tandem repeats linked by conserved hexanucleotide sequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 6200-4	11.5	157
9	Expression of genes and processing of enzymes for the biosynthesis of penicillins and cephalosporins. <i>Antonie Van Leeuwenhoek</i> , 1994 , 65, 227-43	2.1	13
8	Molecular characterization of three loss-of-function mutations in the isopenicillin N-acyltransferase gene (penDE) of Penicillium chrysogenum. <i>Journal of Bacteriology</i> , 1994 , 176, 4941-8	3.5	22
7	Exogenous methionine increases levels of mRNAs transcribed from pcbAB, pcbC, and cefEF genes, encoding enzymes of the cephalosporin biosynthetic pathway, in Acremonium chrysogenum. <i>Journal of Bacteriology</i> , 1994 , 176, 985-91	3.5	45
6	Resolution of four large chromosomes in penicillin-producing filamentous fungi: the penicillin gene cluster is located on chromosome II (9.6 Mb) in Penicillium notatum and chromosome I (10.4 Mb) in Penicillium chrysogenum. <i>Molecular Genetics and Genomics</i> , 1993 , 241, 573-8		66
5	The isopenicillin-N acyltransferase of Penicillium chrysogenum has isopenicillin-N amidohydrolase, 6-aminopenicillanic acid acyltransferase and penicillin amidase activities, all of which are encoded by the single penDE gene. <i>FEBS Journal</i> , 1993 , 215, 323-32		66
4	The cefG gene of Cephalosporium acremonium is linked to the cefEF gene and encodes a deacetylcephalosporin C acetyltransferase closely related to homoserine O-acetyltransferase. <i>Journal of Bacteriology</i> , 1992 , 174, 3056-64	3.5	77
3	Resolution of chromosomes III and VI of Aspergillus nidulans by pulsed-field gel electrophoresis shows that the penicillin biosynthetic pathway genes pcbAB, pcbC, and penDE are clustered on chromosome VI (3.0 megabases). <i>Journal of Bacteriology</i> , 1992 , 174, 7063-7	3.5	37
2	Expression of the penDE gene of Penicillium chrysogenum encoding isopenicillin N acyltransferase in Cephalosporium acremonium: production of benzylpenicillin by the transformants. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 56-64		45
1	Cloning, characterization of the acyl-CoA:6-amino penicillanic acid acyltransferase gene of Aspergillus nidulans and linkage to the isopenicillin N synthase gene. <i>Molecular Genetics and Genomics</i> , 1990 , 221, 322-30		52