

D Barry Scott

List of Publications by Year in descending order

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107
papers

6,921
citations

61984

43
h-index

64796

79
g-index

115
all docs

115
docs citations

115
times ranked

5329
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	8.0	715
2	Reactive Oxygen Species Play a Role in Regulating a Fungusâ€“Perennial Ryegrass Mutualistic Interaction. <i>Plant Cell</i> , 2006, 18, 1052-1066.	6.6	410
3	Plant-Symbiotic Fungi as Chemical Engineers: Multi-Genome Analysis of the Clavicipitaceae Reveals Dynamics of Alkaloid Loci. <i>PLoS Genetics</i> , 2013, 9, e1003323.	3.5	344
4	A symbiosis expressed non-ribosomal peptide synthetase from a mutualistic fungal endophyte of perennial ryegrass confers protection to the symbiotum from insect herbivory. <i>Molecular Microbiology</i> , 2005, 57, 1036-1050.	2.5	285
5	NADPH oxidases in fungi: Diverse roles of reactive oxygen species in fungal cellular differentiation. <i>Fungal Genetics and Biology</i> , 2007, 44, 1065-1076.	2.1	213
6	A p67Phox-Like Regulator Is Recruited to Control Hyphal Branching in a Fungalâ€“Grass Mutualistic Symbiosis. <i>Plant Cell</i> , 2006, 18, 2807-2821.	6.6	174
7	A complex gene cluster for indole-diterpene biosynthesis in the grass endophyte <i>Neotyphodium lolii</i> . <i>Fungal Genetics and Biology</i> , 2006, 43, 679-693.	2.1	172
8	Fungal endophyte infection of ryegrass reprograms host metabolism and alters development. <i>New Phytologist</i> , 2015, 208, 1227-1240.	7.3	165
9	Histone H ₃ K ₉ and H ₃ K ₂₇ methylation regulates fungal alkaloid biosynthesis in a fungal endophyteâ€“plant symbiosis. <i>Molecular Microbiology</i> , 2014, 92, 413-434.	2.5	161
10	Molecular cloning and genetic analysis of an indole-diterpene gene cluster from <i>Penicillium paxilli</i> . <i>Molecular Microbiology</i> , 2001, 39, 754-764.	2.5	150
11	Role of reactive oxygen species in fungal cellular differentiations. <i>Current Opinion in Microbiology</i> , 2008, 11, 488-493.	5.1	144
12	NoxA activation by the small GTPase RacA is required to maintain a mutualistic symbiotic association between <i>Epichloa festucae</i> and perennial ryegrass. <i>Molecular Microbiology</i> , 2008, 68, 1165-1178.	2.5	140
13	The Evolutionary Origins of Epichloe Endophytes from Annual Ryegrasses. <i>Mycologia</i> , 2000, 92, 1103.	1.9	139
14	The genetic basis for indole-diterpene chemical diversity in filamentous fungi. <i>Mycological Research</i> , 2008, 112, 184-199.	2.5	136
15	What triggers grass endophytes to switch from mutualism to pathogenism?. <i>Plant Science</i> , 2011, 180, 190-195.	3.6	135
16	Identification of Two Aflatoxin Biosynthesis Gene Loci in <i>Aspergillus flavus</i> and Metabolic Engineering of <i>Penicillium paxilli</i> To Elucidate Their Function. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7469-7481.	3.1	131
17	Ammonia assimilation in lupin nodules. <i>Nature</i> , 1976, 263, 703-705.	27.8	130
18	Polarity proteins Bem1 and Cdc24 are components of the filamentous fungal NADPH oxidase complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2861-2866.	7.1	128

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19	The evolutionary origins of <i>Epichloë</i> endophytes from annual ryegrasses. <i>Mycologia</i> , 2000, 92, 1103-1118.	1.9	127
20	A Complex Ergovaline Gene Cluster in <i>Epichloë</i> Endophytes of Grasses. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2571-2579.	3.1	123
21	Disruption of Signaling in a Fungal-Grass Symbiosis Leads to Pathogenesis. <i>Plant Physiology</i> , 2010, 153, 1780-1794.	4.8	121
22	Identification of <i>Epichloë</i> Endophytes In Planta by a Microsatellite-Based PCR Fingerprinting Assay with Automated Analysis. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1268-1279.	3.1	119
23	Surrogate transformation of perennial ryegrass, <i>Lolium perenne</i> , using genetically modified <i>Acremonium</i> endophyte. <i>Molecular Genetics and Genomics</i> , 1992, 233, 1-9.	2.4	93
24	Indole-Diterpene Biosynthetic Capability of <i>Epichloë</i> Endophytes as Predicted by <i>ltm</i> Gene Analysis. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2200-2211.	3.1	92
25	Integrative transformation of the mycotoxin-producing fungus, <i>Penicillium paxilli</i> . <i>Current Genetics</i> , 1994, 25, 508-513.	1.7	88
26	Indole-Diterpene Gene Cluster from <i>Aspergillus flavus</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 6875-6883.	3.1	86
27	<i>Neotyphodium</i> fungal endophytes confer physiological protection to perennial ryegrass (<i>Lolium</i>) Tj ETQq1 1 0.784314 rgBT /Qyerlock 4.2 82	4.2	82
28	Repeat elements organise 3D genome structure and mediate transcription in the filamentous fungus <i>Epichloë festucae</i> . <i>PLoS Genetics</i> , 2018, 14, e1007467.	3.5	79
29	Fungal endophytes of grasses. <i>Current Opinion in Plant Biology</i> , 2012, 15, 462-468.	7.1	76
30	An Interspecific Fungal Hybrid Reveals Cross-Kingdom Rules for Allopolyploid Gene Expression Patterns. <i>PLoS Genetics</i> , 2014, 10, e1004180.	3.5	68
31	The endophytic symbiont <i>Epichloë festucae</i> establishes an epiphyllous net on the surface of <i>Lolium perenne</i> leaves by development of an expressorium, an appressorium-like leaf exit structure. <i>New Phytologist</i> , 2016, 211, 240-254.	7.3	67
32	Defining Paxilline Biosynthesis in <i>Penicillium paxilli</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 16829-16837.	3.4	65
33	Functional analysis of an indole-diterpene gene cluster for lolitrem B biosynthesis in the grass endosymbiont <i>Epichloë festucae</i> . <i>FEBS Letters</i> , 2012, 586, 2563-2569.	2.8	64
34	<i>Epichloë</i> endophytes: fungal symbionts of grasses. <i>Current Opinion in Microbiology</i> , 2001, 4, 393-398.	5.1	63
35	Four gene products are required for the fungal synthesis of the indole-diterpene, paspaline. <i>FEBS Letters</i> , 2006, 580, 1625-1630.	2.8	62
36	Differential roles of NADPH oxidases and associated regulators in polarized growth, conidiation and hyphal fusion in the symbiotic fungus <i>Epichloë festucae</i> . <i>Fungal Genetics and Biology</i> , 2013, 56, 87-97.	2.1	62

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37	Functional analysis of a fungal endophyte stress-activated MAP kinase. <i>Current Genetics</i> , 2008, 53, 163-174.	1.7	61
38	The Fungal Cell-Wall Integrity MAPK Cascade Is Crucial for Hyphal Network Formation and Maintenance of Restrictive Growth of <i>Epichloa festucae</i> in Symbiosis With <i>Lolium perenne</i> . <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 69-85.	2.6	60
39	A Core Gene Set Describes the Molecular Basis of Mutualism and Antagonism in <i>Epichloa</i> spp.. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 218-231.	2.6	59
40	Paxilline-negative mutants of <i>Penicillium paxilli</i> generated by heterologous and homologous plasmid integration. <i>Current Genetics</i> , 1998, 33, 368-377.	1.7	57
41	<i>ProA</i> , a transcriptional regulator of fungal fruiting body development, regulates leaf hyphal network development in the <i>Epichloa festucae</i> - <i>Lolium perenne</i> symbiosis. <i>Molecular Microbiology</i> , 2013, 90, 551-568.	2.5	49
42	Extraordinary Ribosomal Spacer Length Heterogeneity in a <i>Neotyphodium</i> Endophyte Hybrid: Implications for Concerted Evolution. <i>Genetics</i> , 1998, 150, 1625-1637.	2.9	48
43	Novel and Complex Chromosomal Arrangement of <i>Rhizobium/loti</i> Nodulation Genes. <i>Molecular Plant-Microbe Interactions</i> , 1996, 9, 187.	2.6	46
44	<i>Epichloa hybrida</i> , sp. nov., an emerging model system for investigating fungal allopolyploidy. <i>Mycologia</i> , 2017, 109, 1-15.	1.9	43
45	MIDAS: A Modular DNA Assembly System for Synthetic Biology. <i>ACS Synthetic Biology</i> , 2018, 7, 1018-1029.	3.8	42
46	Biosynthesis of Shearinine: Diversification of a Tandem Prenyl Moiety of Fungal Indole Diterpenes. <i>Organic Letters</i> , 2016, 18, 5026-5029.	4.6	39
47	Heterologous Biosynthesis of Nodulisporic Acid F. <i>Journal of the American Chemical Society</i> , 2018, 140, 582-585.	13.7	39
48	The fine balance between mutualism and antagonism in the <i>Epichloa festucae</i> -grass symbiotic interaction. <i>Current Opinion in Plant Biology</i> , 2018, 44, 32-38.	7.1	38
49	Quantitative Assessment of in Planta Distribution of Metabolic Activity and Gene Expression of an Endophytic Fungus. <i>Microbiology (United Kingdom)</i> , 1997, 143, 267-275.	1.8	36
50	Effect of de-phosphorylation of linearized pAN7-1 and of addition of restriction enzyme on plasmid integration in <i>Penicillium paxilli</i> . <i>Current Genetics</i> , 1997, 32, 147-151.	1.7	36
51	Abundant Degenerate Miniature Inverted-Repeat Transposable Elements in Genomes of Epichloid Fungal Endophytes of Grasses. <i>Genome Biology and Evolution</i> , 2011, 3, 1253-1264.	2.5	35
52	Evolution of a subtilisin-like protease gene family in the grass endophytic fungus <i>Epichloa festucae</i> . <i>BMC Evolutionary Biology</i> , 2009, 9, 168.	3.2	34
53	Molecular Cloning and Functional Analysis of Gene Clusters for the Biosynthesis of Indole-Diterpenes in <i>Penicillium crustosum</i> and <i>P. janthinellum</i> . <i>Toxins</i> , 2015, 7, 2701-2722.	3.4	33
54	Analysis of <i>Epichloa festucae</i> small secreted proteins in the interaction with <i>Lolium perenne</i> . <i>PLoS ONE</i> , 2019, 14, e0209463.	2.5	32

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55	Fungal symbionts of grasses: evolutionary insights and agricultural potential. Trends in Microbiology, 1993, 1, 196-200.	7.7	30
56	Deletion and Gene Expression Analyses Define the Paxilline Biosynthetic Gene Cluster in <i>Penicillium paxilli</i> . Toxins, 2013, 5, 1422-1446.	3.4	29
57	Functional analysis and subcellular localization of two geranylgeranyl diphosphate synthases from <i>Penicillium paxilli</i> . Molecular Genetics and Genomics, 2009, 282, 257-271.	2.1	28
58	Disparate Independent Genetic Events Disrupt the Secondary Metabolism Gene <i>perA</i> in Certain Symbiotic <i>Epichloa</i> Species. Applied and Environmental Microbiology, 2015, 81, 2797-2807.	3.1	27
59	Efficient nonenzymatic cyclization and domain shuffling drive pyrrolopyrazine diversity from truncated variants of a fungal NRPS. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25614-25623.	7.1	27
60	Morphogenesis, Growth, and Development of the Grass Symbiont <i>Epichloa festucae</i> . Topics in Current Genetics, 2012, , 243-264.	0.7	26
61	Conservation of fungal and animal nicotinamide adenine dinucleotide phosphate oxidase complexes. Molecular Microbiology, 2015, 95, 910-913.	2.5	26
62	Concerted Evolution in the Ribosomal RNA Genes of an <i>Epichloa</i> Endophyte Hybrid: Comparison between Tandemly Arranged rDNA and Dispersed 5S rrn Genes. Fungal Genetics and Biology, 2002, 35, 39-51.	2.1	25
63	Complex epigenetic regulation of alkaloid biosynthesis and host interaction by heterochromatin protein I in a fungal endophyte-plant symbiosis. Fungal Genetics and Biology, 2019, 125, 71-83.	2.1	25
64	Redox Regulation of an AP-1-Like Transcription Factor, YapA, in the Fungal Symbiont <i>Epichloa festucae</i> . Eukaryotic Cell, 2013, 12, 1335-1348.	3.4	24
65	<i>Lolium perenne</i> apoplast metabolomics for identification of novel metabolites produced by the symbiotic fungus <i>Epichloa festucae</i> . New Phytologist, 2020, 227, 559-571.	7.3	24
66	SymB and SymC, two membrane associated proteins, are required for <i>Epichloa festucae</i> hyphal cell-cell fusion and maintenance of a mutualistic interaction with <i>Lolium perenne</i> . Molecular Microbiology, 2017, 103, 657-677.	2.5	23
67	Transformation of the ryegrass endophyte <i>Neotyphodium lolii</i> can alter its in planta mycelial morphology. Mycological Research, 2006, 110, 601-611.	2.5	20
68	Fungal Endophyte Production of Reactive Oxygen Species is Critical for Maintaining the Mutualistic Symbiotic Interaction Between <i>Epichloa festucae</i> and Perennial Ryegrass. Plant Signaling and Behavior, 2007, 2, 171-173.	2.4	20
69	An <i>Epichloa festucae</i> homologue of MOB3, a component of the STRIPAK complex, is required for the establishment of a mutualistic symbiotic interaction with <i>Lolium perenne</i> . Molecular Plant Pathology, 2016, 17, 1480-1492.	4.2	20
70	Artificial Inoculation of <i>Epichloa festucae</i> into <i>Lolium perenne</i> , and Visualisation of Endophytic and Epiphyllous Fungal Growth. Bio-protocol, 2018, 8, e2990.	0.4	20
71	Patterns of Expression of a Lolitrem Biosynthetic Gene in the <i>Epichloa festucae</i> "Perennial Ryegrass Symbiosis. Molecular Plant-Microbe Interactions, 2008, 21, 188-197.	2.6	19
72	IDC2 and IDC3, two genes involved in cell non-autonomous signaling of fruiting body development in the model fungus <i>Podospora anserina</i> . Developmental Biology, 2017, 421, 126-138.	2.0	19

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73	Glutamine synthetase and nitrate assimilation in sorghum (<i>Sorghum vulgare</i>) leaves. <i>Canadian Journal of Botany</i> , 1979, 57, 754-758.	1.1	17
74	Molecular and cellular analysis of the pH response transcription factor PacC in the fungal symbiont <i>Epichloa festucae</i> . <i>Fungal Genetics and Biology</i> , 2015, 85, 25-37.	2.1	17
75	Regulation switching of <i>Epichloa typhina</i> within elongating perennial ryegrass leaves. <i>Mycological Research</i> , 2008, 112, 1056-1062.	2.5	16
76	<i>Epichloa</i> Endophytes: Clavicipitaceous Symbionts of Grasses. , 2009, , 276-306.		16
77	<i>Epichloa novae-zelandiae</i> , a new endophyte from the endemic New Zealand grass <i>Poa matthewsii</i> . <i>New Zealand Journal of Botany</i> , 2019, 57, 271-288.	1.1	16
78	Regulation of subtelomeric fungal secondary metabolite genes by H3K4me3 regulators CclA and KdmB. <i>Molecular Microbiology</i> , 2019, 112, 837-853.	2.5	16
79	Phosphatidic acid produced by phospholipase D is required for hyphal cell-cell fusion and fungal-plant symbiosis. <i>Molecular Microbiology</i> , 2020, 113, 1101-1121.	2.5	16
80	Structural analysis of a peptide synthetase gene required for ergopeptine production in the endophytic fungus <i>Neotyphodium lolii</i> . <i>DNA Sequence</i> , 2005, 16, 379-385.	0.7	14
81	Functional analysis of a β -1,6-glucanase gene from the grass endophytic fungus <i>Epichloa festucae</i> . <i>Fungal Genetics and Biology</i> , 2007, 44, 808-817.	2.1	14
82	Molecular cloning of a nodulation gene from fast- and slow-growing strains of <i>Lotus</i> rhizobia. <i>Molecular Genetics and Genomics</i> , 1985, 201, 43-50.	2.4	13
83	Heterologous and homologous plasmid integration at a spore-pigment locus in <i>Penicillium paxilli</i> generates large deletions. <i>Current Genetics</i> , 1994, 26, 468-476.	1.7	12
84	Chitin Deacetylases Are Required for <i>Epichloa festucae</i> Endophytic Cell Wall Remodeling During Establishment of a Mutualistic Symbiotic Interaction with <i>Lolium perenne</i> . <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 1181-1192.	2.6	12
85	Disruption of calcineurin catalytic subunit (<i>cnaA</i>) in <i>Epichloa festucae</i> induces symbiotic defects and intrahyphal hyphae formation. <i>Molecular Plant Pathology</i> , 2018, 19, 1414-1426.	4.2	10
86	A homologue of the fungal tetraspanin Pls1 is required for <i>Epichloa festucae</i> expression formation and establishment of a mutualistic interaction with <i>Lolium perenne</i> . <i>Molecular Plant Pathology</i> , 2019, 20, 961-975.	4.2	10
87	Analysis of simple sequence repeat (SSR) structure and sequence within <i>Epichloa</i> endophyte genomes reveals impacts on gene structure and insights into ancestral hybridization events. <i>PLoS ONE</i> , 2017, 12, e0183748.	2.5	9
88	Regulation of host-infection ability in the grass-symbiotic fungus <i>Epichloa festucae</i> by histone H3K9 and H3K36 methyltransferases. <i>Environmental Microbiology</i> , 2021, 23, 2116-2131.	3.8	9
89	Suppression of tandem-multimer formation during genetic transformation of the mycotoxin-producing fungus <i>Penicillium paxilli</i> by disrupting an orthologue of <i>Aspergillus nidulans</i> <i>uvsC</i> . <i>Current Genetics</i> , 2002, 42, 59-65.	1.7	8
90	Exploring molecular signaling in plant-fungal symbioses using high throughput RNA sequencing. <i>Plant Signaling and Behavior</i> , 2010, 5, 1353-1358.	2.4	8

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91	Draft Genome Sequence of the Filamentous Fungus <i>Hypoxylon pulvicidum</i> ATCC 74245. <i>Genome Announcements</i> , 2018, 6, .	0.8	8
92	Orthologous peramine and pyrrolopyrazine-producing biosynthetic gene clusters in <i>Metarhizium rileyi</i> , <i>Metarhizium majus</i> and <i>Cladonia grayi</i> . <i>Environmental Microbiology</i> , 2019, 21, 928-939.	3.8	6
93	A nuclear protein NsiA from <i>Epichloa festucae</i> interacts with a MAP kinase MpkB and regulates the expression of genes required for symbiotic infection and hyphal cell fusion. <i>Molecular Microbiology</i> , 2020, 114, 626-640.	2.5	6
94	Host apoplastic cysteine protease activity is suppressed during the mutualistic association of <i>Lolium perenne</i> and <i>Epichloa festucae</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 3410-3426.	4.8	6
95	The requirement for exopolysaccharide precedes the requirement for flavolan-binding polysaccharide in nodulation of <i>Leucaena leucocephala</i> by <i>Rhizobium loti</i> . <i>Archives of Microbiology</i> , 1997, 167, 182-186.	2.2	5
96	Signalling in the <i>Epichloa festucae</i> : Perennial Ryegrass Mutualistic Symbiotic Interaction. <i>Signaling and Communication in Plants</i> , 2012, , 143-181.	0.7	5
97	Formation of arthroconidia during regeneration and selection of transformed <i>Epichloa festucae</i> protoplasts. <i>Fungal Biology</i> , 2014, 118, 462-471.	2.5	4
98	Cross-species transcriptomics identifies core regulatory changes differentiating the asymptomatic asexual and virulent sexual life cycles of grass-symbiotic <i>Epichloa</i> fungi. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	4
99	Regulation and Functional Analysis of Bioprotective Metabolite Genes from the Grass Symbiont <i>Epichloa festucae</i> . , 2010, , 199-213.		3
100	Isoprenoids: Gene Clusters and Chemical Puzzles. , 2004, , 163-198.		2
101	Localisation of phosphoinositides in the grass endophyte <i>Epichloa festucae</i> and genetic and functional analysis of key components of their biosynthetic pathway in <i>E. festucae</i> symbiosis and <i>Fusarium oxysporum</i> pathogenesis. <i>Fungal Genetics and Biology</i> , 2022, 159, 103669.	2.1	2
102	Draft Genome Sequence of the Filamentous Fungus <i>Penicillium paxilli</i> (ATCC 26601). <i>Genome Announcements</i> , 2015, 3, .	0.8	1
103	Editorial overview: Biotic interactions: The diverse and dynamic nature of perception and response in plant interactions: from cells to communities. <i>Current Opinion in Plant Biology</i> , 2015, 26, v-viii.	7.1	1
104	Functional Analysis of the Perennial Ryegrass – <i>Epichloa</i> Endophyte Interaction. <i>Developments in Plant Breeding</i> , 2004, , 133-144.	0.2	1
105	Functional and expression analysis of bioprotective metabolite genes from <i>Epichloa</i> endophyte. <i>Mycotoxins</i> , 2011, 61, 13-18.	0.2	1
106	Genetic Manipulation of Clavicipitalean Endophytes. , 2003, , .		0
107	Functional analysis of endophyte genes required for maintaining the mutualistic symbiosis between <i>Epichloa festucae</i> and perennial ryegrass. <i>Mycotoxins</i> , 2011, 61, 19-23.	0.2	0