D Barry Scott

List of Publications by Year
in descending order

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	Localisation of phosphoinositides in the grass endophyte EpichloÃ« festucae and genetic and functional analysis of key components of their biosynthetic pathway in E. festucae symbiosis and Fusarium oxysporum pathogenesis. Fungal Genetics and Biology, 2022, 159, 103669.	2.1	2
2	Cross-species transcriptomics identifies core regulatory changes differentiating the asymptomatic asexual and virulent sexual life cycles of grass-symbioticEpichloÃ«fungi. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	4
3	Host apoplastic cysteine protease activity is suppressed during the mutualistic association ofLolium perenneandEpichloÃ« festucae. Journal of Experimental Botany, 2021, 72, 3410-3426.	4.8	6
4	Chitin Deacetylases Are Required for EpichloÃ« festucae Endophytic Cell Wall Remodeling During Establishment of a Mutualistic Symbiotic Interaction with Lolium perenne. Molecular Plant-Microbe Interactions, 2021, 34, 1181-1192.	2.6	12
5	Regulation of hostâ€infection ability in the grassâ€symbiotic fungus EpichloÃ« festucae by histone <scp>H3K9</scp> and <scp>H3K36</scp> methyltransferases. Environmental Microbiology, 2021, 23, 2116-2131.	3.8	9
6	Lolium perenne apoplast metabolomics for identification of novel metabolites produced by the symbiotic fungus EpichloÃ« festucae. New Phytologist, 2020, 227, 559-571.	7.3	24
7	A nuclear protein NsiA from EpichloÃ« festucae interacts with a MAP kinase MpkB and regulates the expression of genes required for symbiotic infection and hyphal cell fusion. Molecular Microbiology, 2020, 114, 626-640.	2.5	6
8	Phosphatidic acid produced by phospholipase D is required for hyphal cellâ€cell fusion and fungalâ€plant symbiosis. Molecular Microbiology, 2020, 113, 1101-1121.	2.5	16
9	Epichloe novae-zelandiae, a new endophyte from the endemic New Zealand grassPoa matthewsii. New Zealand Journal of Botany, 2019, 57, 271-288.	1.1	16
10	Regulation of subtelomeric fungal secondary metabolite genes by H3K4me3 regulators CclA and KdmB. Molecular Microbiology, 2019, 112, 837-853.	2.5	16
11	A homologue of the fungal tetraspanin Pls1 is required for EpichloÃ« festucae expressorium formation and establishment of a mutualistic interaction with Lolium perenne. Molecular Plant Pathology, 2019, 20, 961-975.	4.2	10
12	Analysis of EpichloÃ« festucae small secreted proteins in the interaction with Lolium perenne. PLoS ONE, 2019, 14, e0209463.	2.5	32
13	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
14	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
15	Orthologous peramine and pyrrolopyrazineâ€producing biosynthetic gene clusters in Metarhizium rileyi, Metarhizium majus and <scp>Cladonia grayi</scp>. Environmental Microbiology, 2019, 21, 928-939.	3.8	6
16	MIDAS: A Modular DNA Assembly System for Synthetic Biology. ACS Synthetic Biology, 2018, 7, 1018-1029.	3.8	42
17	The fine balance between mutualism and antagonism in the EpichloÃ« festucaeâ€“grass symbiotic interaction. Current Opinion in Plant Biology, 2018, 44, 32-38.	7.1	38
18	Heterologous Biosynthesis of Nodulisporic Acid F. Journal of the American Chemical Society, 2018, 140, 582-585.	13.7	39

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19	Disruption of calcineurin catalytic subunit (cnaA) in EpichloÃ« festucae induces symbiotic defects and intrahyphal hyphae formation. Molecular Plant Pathology, 2018, 19, 1414-1426.	4.2	10
20	Repeat elements organise 3D genome structure and mediate transcription in the filamentous fungus EpichloÃ« festucae. PLoS Genetics, 2018, 14, e1007467.	3.5	79
21	Draft Genome Sequence of the Filamentous Fungus Hypoxylon pulicicidum ATCC 74245. Genome Announcements, 2018, 6, .	0.8	8
22	Artificial Inoculation of Epichloë festucae into Lolium perenne, and Visualisation of Endophytic and Epiphyllous Fungal Growth. Bio-protocol, 2018, 8, e2990.	0.4	20
23	IDC2 and IDC3 , two genes involved in cell non-autonomous signaling of fruiting body development in the model fungus Podospora anserina. Developmental Biology, 2017, 421, 126-138.	2.0	19
24	SymB and SymC, two membrane associated proteins, are required for <scp>E</scp>pichloÃ« festucae hyphal cellâ€“cell fusion and maintenance of a mutualistic interaction with <scp>L</scp>olium perenne. Molecular Microbiology, 2017, 103, 657-677.	2.5	23
25	EpichloÃ« hybrida, sp. nov., an emerging model system for investigating fungal allopolyploidy. Mycologia, 2017, 109, 1-15.	1.9	43
26	Analysis of simple sequence repeat (SSR) structure and sequence within EpichloÃ« endophyte genomes reveals impacts on gene structure and insights into ancestral hybridization events. PLoS ONE, 2017, 12, e0183748.	2.5	9
27	The endophytic symbiont EpichloÃ« festucae establishes an epiphyllous net on the surface of Lolium perenne leaves by development of an expressorium, an appressoriumâ€like leaf exit structure. New Phytologist, 2016, 211, 240-254.	7.3	67
28	An EpichloÃ« festucae homologue of MOB3, a component of the STRIPAK complex, is required for the establishment of a mutualistic symbiotic interaction with Lolium perenne. Molecular Plant Pathology, 2016, 17, 1480-1492.	4.2	20
29	Biosynthesis of Shearinine: Diversification of a Tandem Prenyl Moiety of Fungal Indole Diterpenes. Organic Letters, 2016, 18, 5026-5029.	4.6	39
30	Molecular Cloning and Functional Analysis of Gene Clusters for the Biosynthesis of Indole-Diterpenes in Penicillium crustosum and P. janthinellum. Toxins, 2015, 7, 2701-2722.	3.4	33
31	Fungal endophyte infection of ryegrass reprograms host metabolism and alters development. New Phytologist, 2015, 208, 1227-1240.	7.3	165
32	Molecular and cellular analysis of the pH response transcription factor PacC in the fungal symbiont EpichloÃ« festucae. Fungal Genetics and Biology, 2015, 85, 25-37.	2.1	17
33	A Core Gene Set Describes the Molecular Basis of Mutualism and Antagonism in EpichloÃ« spp.. Molecular Plant-Microbe Interactions, 2015, 28, 218-231.	2.6	59
34	Conservation of fungal and animal nicotinamide adenine dinucleotide phosphate oxidase complexes. Molecular Microbiology, 2015, 95, 910-913.	2.5	26
35	Disparate Independent Genetic Events Disrupt the Secondary Metabolism Gene perA in Certain Symbiotic EpichloÃ« Species. Applied and Environmental Microbiology, 2015, 81, 2797-2807.	3.1	27
36	Draft Genome Sequence of the Filamentous Fungus Penicillium paxilli (ATCC 26601). Genome Announcements, 2015, 3, .	0.8	1

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37	Minimum Information about a Biosynthetic Gene cluster. Nature Chemical Biology, 2015, 11, 625-631.	8.0	715
38	Editorial overview: Biotic interactions: The diverse and dynamic nature of perception and response in plant interactions: from cells to communities. Current Opinion in Plant Biology, 2015, 26, v-viii.	7.1	1
39	The Fungal Cell-Wall Integrity MAPK Cascade Is Crucial for Hyphal Network Formation and Maintenance of Restrictive Growth of EpichloÃ« festucae in Symbiosis With Lolium perenne. Molecular Plant-Microbe Interactions, 2015, 28, 69-85.	2.6	60
40	An Interspecific Fungal Hybrid Reveals Cross-Kingdom Rules for Allopolyploid Gene Expression Patterns. PLoS Genetics, 2014, 10, e1004180.	3.5	68
41	Formation of arthroconidia during regeneration and selection of transformed EpichloÃ« festucae protoplasts. Fungal Biology, 2014, 118, 462-471.	2.5	4
42	Histone <scp>H</scp>3<scp>K</scp>9 and <scp>H</scp>3<scp>K</scp>27 methylation regulates fungal alkaloid biosynthesis in a fungal endophyteâ€“plant symbiosis. Molecular Microbiology, 2014, 92, 413-434.	2.5	161
43	<scp>ProA</scp>, a transcriptional regulator of fungal fruiting body development, regulates leaf hyphal network development in the <scp>E</scp>pichloÃ« festucaeâ€“<scp>L</scp>olium perenne symbiosis. Molecular Microbiology, 2013, 90, 551-568.	2.5	49
44	Differential roles of NADPH oxidases and associated regulators in polarized growth, conidiation and hyphal fusion in the symbiotic fungus EpichloÃ« festucae. Fungal Genetics and Biology, 2013, 56, 87-97.	2.1	62
45	Deletion and Gene Expression Analyses Define the Paxilline Biosynthetic Gene Cluster in Penicillium paxilli. Toxins, 2013, 5, 1422-1446.	3.4	29
46	Plant-Symbiotic Fungi as Chemical Engineers: Multi-Genome Analysis of the Clavicipitaceae Reveals Dynamics of Alkaloid Loci. PLoS Genetics, 2013, 9, e1003323.	3.5	344
47	Redox Regulation of an AP-1-Like Transcription Factor, YapA, in the Fungal Symbiont EpichloÃ« festucae. Eukaryotic Cell, 2013, 12, 1335-1348.	3.4	24
48	Fungal endophytes of grasses. Current Opinion in Plant Biology, 2012, 15, 462-468.	7.1	76
49	Functional analysis of an indoleâ€diterpene gene cluster for lolitrem B biosynthesis in the grass endosymbiont EpichloÃ« festucae. FEBS Letters, 2012, 586, 2563-2569.	2.8	64
50	Morphogenesis, Growth, and Development of the Grass Symbiont EpichlÃ¶e festucae. Topics in Current Genetics, 2012, , 243-264.	0.7	26
51	Signalling in the EpichloÃ« festucae: Perennial Ryegrass Mutualistic Symbiotic Interaction. Signaling and Communication in Plants, 2012, , 143-181.	0.7	5
52	What triggers grass endophytes to switch from mutualism to pathogenism?. Plant Science, 2011, 180, 190-195.	3.6	135
53	Abundant Degenerate Miniature Inverted-Repeat Transposable Elements in Genomes of Epichloid Fungal Endophytes of Grasses. Genome Biology and Evolution, 2011, 3, 1253-1264.	2.5	35
54	Polarity proteins Bem1 and Cdc24 are components of the filamentous fungal NADPH oxidase complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2861-2866.	7.1	128

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55	Functional analysis of endophyte genes required for maintaining the mutualistic symbiosis between EpichloÃ« festucae and perennial ryegrass. Mycotoxins, 2011, 61, 19-23.	0.2	0
56	Functional and expression analysis of bioprotective metabolite genes from EpichloÃ« endophyte. Mycotoxins, 2011, 61, 13-18.	0.2	1
57	Exploring molecular signaling in plant-fungal symbioses using high throughput RNA sequencing. Plant Signaling and Behavior, 2010, 5, 1353-1358.	2.4	8
58	Disruption of Signaling in a Fungal-Grass Symbiosis Leads to Pathogenesis Â Â. Plant Physiology, 2010, 153, 1780-1794.	4.8	121
59	Regulation and Functional Analysis of Bioprotective Metabolite Genes from the Grass Symbiont Epichloe festucae. , 2010, , 199-213.		3
60	Identification of Two Aflatrem Biosynthesis Gene Loci in Aspergillus flavus and Metabolic Engineering of Penicillium paxilli To Elucidate Their Function. Applied and Environmental Microbiology, 2009, 75, 7469-7481.	3.1	131
61	Indole-Diterpene Biosynthetic Capability ofEpichloeˆEndophytes as Predicted byltmGene Analysis. Applied and Environmental Microbiology, 2009, 75, 2200-2211.	3.1	92
62	Evolution of a subtilisin-like protease gene family in the grass endophytic fungus EpichloÃ« festucae. BMC Evolutionary Biology, 2009, 9, 168.	3.2	34
63	Functional analysis and subcellular localization of two geranylgeranyl diphosphate synthases from Penicillium paxilli. Molecular Genetics and Genomics, 2009, 282, 257-271.	2.1	28
64	EpichloÃ« Endophytes: Clavicipitaceous Symbionts of Grasses. , 2009, , 276-306.		16
65	Functional analysis of a fungal endophyte stress-activated MAP kinase. Current Genetics, 2008, 53, 163-174.	1.7	61
66	NoxA activation by the small GTPase RacA is required to maintain a mutualistic symbiotic association between EpichloÃ« festucae and perennial ryegrass. Molecular Microbiology, 2008, 68, 1165-1178.	2.5	140
67	Neotyphodium fungal endophytes confer physiological protection to perennial ryegrass (Lolium) Tj ETQq1 1 0.784314 rgBT /Overlock	4.2	82
68	The genetic basis for indole-diterpene chemical diversity in filamentous fungi. Mycological Research, 2008, 112, 184-199.	2.5	136
69	Regulation switching of EpichloÃ« typhina within elongating perennial ryegrass leaves. Mycological Research, 2008, 112, 1056-1062.	2.5	16
70	Role of reactive oxygen species in fungal cellular differentiations. Current Opinion in Microbiology, 2008, 11, 488-493.	5.1	144
71	Patterns of Expression of a Lolitrem Biosynthetic Gene in the EpichloÃ« festucaeâ€“Perennial Ryegrass Symbiosis. Molecular Plant-Microbe Interactions, 2008, 21, 188-197.	2.6	19
72	Defining Paxilline Biosynthesis in Penicillium paxilli. Journal of Biological Chemistry, 2007, 282, 16829-16837.	3.4	65

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73	Fungal Endophyte Production of Reactive Oxygen Species is Critical for Maintaining the Mutualistic Symbiotic Interaction BetweenEpichloÃ« festucaeand Perennial Ryegrass. Plant Signaling and Behavior, 2007, 2, 171-173.	2.4	20
74	A Complex Ergovaline Gene Cluster in EpichloeÌ‚ Endophytes of Grasses. Applied and Environmental Microbiology, 2007, 73, 2571-2579.	3.1	123
75	Functional analysis of a Î²-1,6-glucanase gene from the grass endophytic fungus EpichloÃ« festucae. Fungal Genetics and Biology, 2007, 44, 808-817.	2.1	14
76	NADPH oxidases in fungi: Diverse roles of reactive oxygen species in fungal cellular differentiation. Fungal Genetics and Biology, 2007, 44, 1065-1076.	2.1	213
77	Reactive Oxygen Species Play a Role in Regulating a Fungusâ€“Perennial Ryegrass Mutualistic Interaction. Plant Cell, 2006, 18, 1052-1066.	6.6	410
78	Transformation of the ryegrass endophyte Neotyphodium lolii can alter its in planta mycelial morphology. Mycological Research, 2006, 110, 601-611.	2.5	20
79	Four gene products are required for the fungal synthesis of the indole-diterpene, paspaline. FEBS Letters, 2006, 580, 1625-1630.	2.8	62
80	A complex gene cluster for indole-diterpene biosynthesis in the grass endophyte Neotyphodium lolii. Fungal Genetics and Biology, 2006, 43, 679-693.	2.1	172
81	A p67Phox-Like Regulator Is Recruited to Control Hyphal Branching in a Fungalâ€“Grass Mutualistic Symbiosis. Plant Cell, 2006, 18, 2807-2821.	6.6	174
82	A symbiosis expressed non-ribosomal peptide synthetase from a mutualistic fungal endophyte of perennial ryegrass confers protection to the symbiotum from insect herbivory. Molecular Microbiology, 2005, 57, 1036-1050.	2.5	285
83	Structural analysis of a peptide synthetase gene required for ergopeptine production in the endophytic fungusNeotyphodium lolii. DNA Sequence, 2005, 16, 379-385.	0.7	14
84	Indole-Diterpene Gene Cluster from Aspergillus flavus. Applied and Environmental Microbiology, 2004, 70, 6875-6883.	3.1	86
85	Functional Analysis of the Perennial Ryegrass â€” EpichloÃ« Endophyte Interaction. Developments in Plant Breeding, 2004, , 133-144.	0.2	1
86	Isoprenoids: Gene Clusters and Chemical Puzzles. , 2004, , 163-198.		2
87	Genetic Manipulation of Clavicipitalean Endophytes. , 2003, , .		0
88	Concerted Evolution in the Ribosomal RNA Genes of an EpichloÃ« Endophyte Hybrid: Comparison between Tandemly Arranged rDNA and Dispersed 5S rrn Genes. Fungal Genetics and Biology, 2002, 35, 39-51.	2.1	25
89	Suppression of tandem-multimer formation during genetic transformation of the mycotoxin-producing fungus Penicillium paxilli by disrupting an orthologue of Aspergillus nidulans uvsC. Current Genetics, 2002, 42, 59-65.	1.7	8
90	EpichloÃ« endophytes: fungal symbionts of grasses. Current Opinion in Microbiology, 2001, 4, 393-398.	5.1	63

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91	Molecular cloning and genetic analysis of an indole-diterpene gene cluster from Penicillium paxilli. Molecular Microbiology, 2001, 39, 754-764.	2.5	150
92	The evolutionary origins of EpichloÃ« endophytes from annual ryegrasses. Mycologia, 2000, 92, 1103-1118.	1.9	127
93	The Evolutionary Origins of Epichloe Endophytes from Annual Ryegrasses. Mycologia, 2000, 92, 1103.	1.9	139
94	Identification of EpichloeÌ‚ Endophytes In Planta by a Microsatellite-Based PCR Fingerprinting Assay with Automated Analysis. Applied and Environmental Microbiology, 1999, 65, 1268-1279.	3.1	119
95	Paxilline-negative mutants of Penicillium paxilli generated by heterologous and homologous plasmid integration. Current Genetics, 1998, 33, 368-377.	1.7	57
96	Extraordinary Ribosomal Spacer Length Heterogeneity in a Neotyphodium Endophyte Hybrid: Implications for Concerted Evolution. Genetics, 1998, 150, 1625-1637.	2.9	48
97	Quantitative Assessment of in Planta Distribution of Metabolic Activity and Gene Expression of an Endophytic Fungus. Microbiology (United Kingdom), 1997, 143, 267-275.	1.8	36
98	Effect of de-phosphorylation of linearized pAN7-1 and of addition of restriction enzyme on plasmid integration in Penicillium paxilli. Current Genetics, 1997, 32, 147-151.	1.7	36
99	The requirement for exopolysaccharide precedes the requirement for flavolan-binding polysaccharide in nodulation of Leucaena leucocephala by Rhizobium loti. Archives of Microbiology, 1997, 167, 182-186.	2.2	5
100	Novel and Complex Chromosomal Arrangement ofRhizobium/otiNodulation Genes. Molecular Plant-Microbe Interactions, 1996, 9, 187.	2.6	46
101	Heterologous and homologous plasmid integration at a spore-pigment locus in Penicillium paxilli generates large deletions. Current Genetics, 1994, 26, 468-476.	1.7	12
102	Integrative transformation of the mycotoxin-producing fungus, Penicillium paxilli. Current Genetics, 1994, 25, 508-513.	1.7	88
103	Fungal symbionts of grasses: evolutionary insights and agricultural potential. Trends in Microbiology, 1993, 1, 196-200.	7.7	30
104	Surrogate transformation of perennial ryegrass,Lolium perenne, using genetically modifiedAcremonium endophyte. Molecular Genetics and Genomics, 1992, 233, 1-9.	2.4	93
105	Molecular cloning of a nodulation gene from fast- and slow-growing strains of Lotus rhizobia. Molecular Genetics and Genomics, 1985, 201, 43-50.	2.4	13
106	Glutamine synthetase and nitrate assimilation in sorghum (Sorghum vulgare) leaves. Canadian Journal of Botany, 1979, 57, 754-758.	1.1	17
107	Ammonia assimilation in lupin nodules. Nature, 1976, 263, 703-705.	27.8	130