

Robert H Proctor

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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.

89 papers	6,035 citations	37 h-index	77 g-index
92 ext. papers	7,253 ext. citations	4.6 avg, IF	5.43 L-index

#	Paper	IF	Citations
89	Comparative genomics reveals mobile pathogenicity chromosomes in <i>Fusarium</i> . <i>Nature</i> , 2010 , 464, 367-73	30.4	1085
88	Deciphering the cryptic genome: genome-wide analyses of the rice pathogen <i>Fusarium fujikuroi</i> reveal complex regulation of secondary metabolism and novel metabolites. <i>PLoS Pathogens</i> , 2013 , 9, e1003475	7.6	321
87	Co-expression of 15 contiguous genes delineates a fumonisin biosynthetic gene cluster in <i>Gibberella moniliformis</i> . <i>Fungal Genetics and Biology</i> , 2003 , 38, 237-49	3.9	308
86	A polyketide synthase gene required for biosynthesis of fumonisin mycotoxins in <i>Gibberella fujikuroi</i> mating population A. <i>Fungal Genetics and Biology</i> , 1999 , 27, 100-12	3.9	299
85	<i>Fusarium</i> pathogenomics. <i>Annual Review of Microbiology</i> , 2013 , 67, 399-416	17.5	294
84	Phylogenetic analyses of RPB1 and RPB2 support a middle Cretaceous origin for a clade comprising all agriculturally and medically important fusaria. <i>Fungal Genetics and Biology</i> , 2013 , 52, 20-31	3.9	254
83	Characterization of four clustered and coregulated genes associated with fumonisin biosynthesis in <i>Fusarium verticillioides</i> . <i>Fungal Genetics and Biology</i> , 2001 , 34, 155-65	3.9	191
82	Genes, gene clusters, and biosynthesis of trichothecenes and fumonisins in <i>Fusarium</i> . <i>Toxin Reviews</i> , 2009 , 28, 198-215	2.3	181
81	One fungus, one name: defining the genus <i>Fusarium</i> in a scientifically robust way that preserves longstanding use. <i>Phytopathology</i> , 2013 , 103, 400-8	3.8	155
80	The <i>Fusarium verticillioides</i> FUM gene cluster encodes a Zn(II)2Cys6 protein that affects FUM gene expression and fumonisin production. <i>Eukaryotic Cell</i> , 2007 , 6, 1210-8		153
79	Evidence that a secondary metabolic biosynthetic gene cluster has grown by gene relocation during evolution of the filamentous fungus <i>Fusarium</i> . <i>Molecular Microbiology</i> , 2009 , 74, 1128-42	4.1	145
78	Transformation-mediated complementation of a FUM gene cluster deletion in <i>Fusarium verticillioides</i> restores both fumonisin production and pathogenicity on maize seedlings. <i>Molecular Plant-Microbe Interactions</i> , 2008 , 21, 87-97	3.6	139
77	Inactivation of a cytochrome P-450 is a determinant of trichothecene diversity in <i>Fusarium</i> species. <i>Fungal Genetics and Biology</i> , 2002 , 36, 224-33	3.9	136
76	The genetic basis for 3-ADON and 15-ADON trichothecene chemotypes in <i>Fusarium</i> . <i>Fungal Genetics and Biology</i> , 2011 , 48, 485-95	3.9	135
75	Discontinuous distribution of fumonisin biosynthetic genes in the <i>Gibberella fujikuroi</i> species complex. <i>Mycological Research</i> , 2004 , 108, 815-22		128
74	FvVE1 regulates filamentous growth, the ratio of microconidia to macroconidia and cell wall formation in <i>Fusarium verticillioides</i> . <i>Molecular Microbiology</i> , 2006 , 62, 1418-32	4.1	118
73	Fumonisin production in the maize pathogen <i>Fusarium verticillioides</i> : genetic basis of naturally occurring chemical variation. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 2424-30	5.7	110

72	Identification of gene clusters associated with fusaric acid, fusarin, and perithecial pigment production in <i>Fusarium verticillioides</i> . <i>Fungal Genetics and Biology</i> , 2012 , 49, 521-32	3.9	98
71	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
70	A fumonisin biosynthetic gene cluster in <i>Fusarium oxysporum</i> strain O-1890 and the genetic basis for B versus C fumonisin production. <i>Fungal Genetics and Biology</i> , 2008 , 45, 1016-26	3.9	90
69	Restoration of wild-type virulence to Tri5 disruption mutants of <i>Gibberella zeae</i> via gene reversion and mutant complementation. <i>Microbiology (United Kingdom)</i> , 1997 , 143 (Pt 8), 2583-2591	2.9	89
68	Comparative "Omics" of the <i>Fusarium fujikuroi</i> Species Complex Highlights Differences in Genetic Potential and Metabolite Synthesis. <i>Genome Biology and Evolution</i> , 2016 , 8, 3574-3599	3.9	81
67	Birth, death and horizontal transfer of the fumonisin biosynthetic gene cluster during the evolutionary diversification of <i>Fusarium</i> . <i>Molecular Microbiology</i> , 2013 , 90, 290-306	4.1	72
66	Identification of a 12-gene Fusaric Acid Biosynthetic Gene Cluster in <i>Fusarium</i> Species Through Comparative and Functional Genomics. <i>Molecular Plant-Microbe Interactions</i> , 2015 , 28, 319-32	3.6	67
65	Characterization of a fusarium 2-gene cluster involved in trichothecene C-8 modification. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 7936-44	5.7	63
64	FUM13 encodes a short chain dehydrogenase/reductase required for C-3 carbonyl reduction during fumonisin biosynthesis in <i>Gibberella moniliformis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 3000-6	5.7	62
63	<i>Fusarium</i> Tri4 encodes a multifunctional oxygenase required for trichothecene biosynthesis. <i>Canadian Journal of Microbiology</i> , 2006 , 52, 636-42	3.2	59
62	Variation in Fumonisin and Ochratoxin Production Associated with Differences in Biosynthetic Gene Content in <i>Aspergillus niger</i> and <i>A. welwitschiae</i> Isolates from Multiple Crop and Geographic Origins. <i>Frontiers in Microbiology</i> , 2016 , 7, 1412	5.7	51
61	Variation in the fumonisin biosynthetic gene cluster in fumonisin-producing and nonproducing black aspergilli. <i>Fungal Genetics and Biology</i> , 2014 , 73, 39-52	3.9	49
60	<i>Fusarium sibiricum</i> sp. nov, a novel type A trichothecene-producing <i>Fusarium</i> from northern Asia closely related to <i>F. sporotrichioides</i> and <i>F. langsethiae</i> . <i>International Journal of Food Microbiology</i> , 2011 , 147, 58-68	5.8	48
59	Marasas et al. 1984 "Toxigenic <i>Fusarium</i> Species: Identity and Mycotoxicology" revisited. <i>Mycologia</i> , 2018 , 110, 1058-1080	2.4	48
58	Insights into natural products biosynthesis from analysis of 490 polyketide synthases from <i>Fusarium</i> . <i>Fungal Genetics and Biology</i> , 2016 , 89, 37-51	3.9	46
57	Genetic diversity and trichothecene chemotypes of the <i>Fusarium graminearum</i> clade isolated from maize in Nepal and identification of a putative new lineage. <i>Fungal Biology</i> , 2011 , 115, 38-48	2.8	46
56	FUM9 is required for C-5 hydroxylation of fumonisins and complements the meiotically defined Fum3 locus in <i>Gibberella moniliformis</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6935-7	4.8	46
55	Analysis of aberrant virulence of <i>Gibberella zeae</i> following transformation-mediated complementation of a trichothecene-deficient (Tri5) mutant. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 8), 2059-2068	2.9	42

54	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
53	The geographic distribution and complex evolutionary history of the NX-2 trichothecene chemotype from <i>Fusarium graminearum</i> . <i>Fungal Genetics and Biology</i> , 2016 , 95, 39-48	3.9	38
52	Variation in secondary metabolite production potential in the <i>Fusarium incarnatum-equiseti</i> species complex revealed by comparative analysis of 13 genomes. <i>BMC Genomics</i> , 2019 , 20, 314	4.5	37
51	A polyphasic approach for characterization of a collection of cereal isolates of the <i>Fusarium incarnatum-equiseti</i> species complex. <i>International Journal of Food Microbiology</i> , 2016 , 234, 24-35	5.8	36
50	Heterologous expression of two trichothecene P450 genes in <i>Fusarium verticillioides</i> . <i>Canadian Journal of Microbiology</i> , 2006 , 52, 220-6	3.2	35
49	Differential Retention of Gene Functions in a Secondary Metabolite Cluster. <i>Molecular Biology and Evolution</i> , 2017 , 34, 2002-2015	8.3	32
48	No to : Phylogenomic and Practical Reasons for Continued Inclusion of the <i>Fusarium solani</i> Species Complex in the Genus. <i>MSphere</i> , 2020 , 5,	5	32
47	Population genetic structure and mycotoxin potential of the wheat crown rot and head blight pathogen <i>Fusarium culmorum</i> in Algeria. <i>Fungal Genetics and Biology</i> , 2017 , 103, 34-41	3.9	31
46	Complementary host-pathogen genetic analyses of the role of fumonisins in the <i>Zea mays</i> - <i>Gibberella moniliformis</i> interaction. <i>Physiological and Molecular Plant Pathology</i> , 2007 , 70, 149-160	2.6	30
45	<i>Fusarium</i> mycotoxins: a trans-disciplinary overview. <i>Canadian Journal of Plant Pathology</i> , 2018 , 40, 161-176	11.6	27
44	<i>Fusarium agapanthi</i> sp. nov., a novel bikaverin and fusarubin-producing leaf and stem spot pathogen of <i>Agapanthus praecox</i> (African lily) from Australia and Italy. <i>Mycologia</i> , 2016 , 108, 981-992	2.4	27
43	Biosynthetic and genetic relationships of B-series fumonisins produced by <i>Gibberella fujikuroi</i> mating population A. <i>Natural Toxins</i> , 1999 , 7, 251-8		22
42	Two Horizontally Transferred Xenobiotic Resistance Gene Clusters Associated with Detoxification of Benzoxazolinones by <i>Fusarium</i> Species. <i>PLoS ONE</i> , 2016 , 11, e0147486	3.7	20
41	Production and Role of Hormones During Interaction of Species With Maize (L.) Seedlings. <i>Frontiers in Plant Science</i> , 2018 , 9, 1936	6.2	20
40	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
39	Synergistic Phytotoxic Effects of Culmorin and Trichothecene Mycotoxins. <i>Toxins</i> , 2019 , 11,	4.9	16
38	Karyotype evolution in. <i>IMA Fungus</i> , 2018 , 9, 13-26	6.8	15
37	Reducing production of fumonisin mycotoxins in <i>Fusarium verticillioides</i> by RNA interference. <i>Mycotoxin Research</i> , 2018 , 34, 29-37	4	14

36	<i>Fusarium algeriense</i> , sp. nov., a novel toxigenic crown rot pathogen of durum wheat from Algeria is nested in the <i>Fusarium burgessii</i> species complex. <i>Mycologia</i> , 2017 , 109, 935-950	2.4	13
35	Variation in type A trichothecene production and trichothecene biosynthetic genes in <i>Fusarium goolgardii</i> from natural ecosystems of Australia. <i>Toxins</i> , 2015 , 7, 4577-94	4.9	13
34	Fumonisin B, A and C profile and masking in <i>Fusarium verticillioides</i> strains on fumonisin-inducing and maize-based media. <i>International Journal of Food Microbiology</i> , 2012 , 159, 93-100	5.8	13
33	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, 1017-31	5.7	12
32	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
31	Tricarballic ester formation during biosynthesis of fumonisin mycotoxins in. <i>Mycology</i> , 2013 , 4, 179-186	5.7	11
30	<i>Fusarium praegraminearum</i> sp. nov., a novel nivalenol mycotoxin-producing pathogen from New Zealand can induce head blight on wheat. <i>Mycologia</i> , 2016 , 108, 1229-1239	2.4	10
29	Identification and distribution of gene clusters required for synthesis of sphingolipid metabolism inhibitors in diverse species of the filamentous fungus <i>Fusarium</i> . <i>BMC Genomics</i> , 2020 , 21, 510	4.5	10
28	arabinanase (Arb93B) Enhances Wheat Head Blight Susceptibility by Suppressing Plant Immunity. <i>Molecular Plant-Microbe Interactions</i> , 2019 , 32, 888-898	3.6	10
27	Molecular systematics of two sister clades, the <i>Fusarium concolor</i> and <i>F. babinda</i> species complexes, and the discovery of a novel microcycle macroconidium-producing species from South Africa. <i>Mycologia</i> , 2018 , 110, 1189-1204	2.4	10
26	Mycotoxin Production in According to Contemporary Species Concepts. <i>Annual Review of Phytopathology</i> , 2021 , 59, 373-402	10.8	10
25	, sp. nov., a member of the species complex recovered from pseudoflowers on yellow-eyed grass (spp.) from Guyana. <i>Mycologia</i> , 2020 , 112, 39-51	2.4	9
24	Gain and loss of a transcription factor that regulates late trichothecene biosynthetic pathway genes in <i>Fusarium</i> . <i>Fungal Genetics and Biology</i> , 2020 , 136, 103317	3.9	9
23	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
22	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
21	<i>Fusarium subtropicale</i> , sp. nov., a novel nivalenol mycotoxin-producing species isolated from barley (<i>Hordeum vulgare</i>) in Brazil and sister to <i>F. praegraminearum</i> . <i>Mycologia</i> , 2018 , 110, 860-871	2.4	8
20	Heterothallic sexual reproduction in three canker-inducing tree pathogens within the <i>Fusarium torreyae</i> species complex. <i>Mycologia</i> , 2018 , 110, 710-725	2.4	8
19	Comparative Genomics and Transcriptomics During Sexual Development Gives Insight Into the Life History of the Cosmopolitan Fungus. <i>Frontiers in Microbiology</i> , 2019 , 10, 1247	5.7	7

18	Self-Protection against the Sphingolipid Biosynthesis Inhibitor Fumonisin B Is Conferred by a Cluster-Encoded Ceramide Synthase. <i>MBio</i> , 2020 , 11,	7.8	7
17	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
16	MycoKey Round Table Discussions of Future Directions in Research on Chemical Detection Methods, Genetics and Biodiversity of Mycotoxins. <i>Toxins</i> , 2018 , 10,	4.9	7
15	An endophyte of (esparto or needle grass) from Tunisia is a novel species in the species complex. <i>Mycologia</i> , 2020 , 112, 792-807	2.4	5
14	A Meiotic Drive Element in the Maize Pathogen <i>Fusarium verticillioides</i> Is Located Within a 102 kb Region of Chromosome V. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 2543-52	3.2	5
13	Pseudoflowers produced by <i>Fusarium xyrophilum</i> on yellow-eyed grass (<i>Xyris</i> spp.) in Guyana: A novel floral mimicry system?. <i>Fungal Genetics and Biology</i> , 2020 , 144, 103466	3.9	5
12	Design and validation of a robust multiplex polymerase chain reaction assay for idiomorph within the species complex. <i>Mycologia</i> , 2019 , 111, 772-781	2.4	4
11	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
10	Targeting Fumonisin Biosynthetic Genes. <i>Methods in Molecular Biology</i> , 2017 , 1542, 201-214	1.4	3
9	Intrapopulation Antagonism Can Reduce the Growth and Aggressiveness of the Wheat Head Blight Pathogen. <i>Phytopathology</i> , 2020 , 110, 916-926	3.8	3
8	<i>Trichoderma</i> trichothecenes 2020 , 281-301		3
7	DNA sequence-based identification of <i>Fusarium</i> : A work in progress.. <i>Plant Disease</i> , 2021 ,	1.5	3
6	Volatile Organic Compound Profile Fingerprints Using DART-MS Shows Species-Specific Patterns in Mycotoxin Producing Fungi.. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 8,	5.6	2
5	A-to-I mRNA editing controls spore death induced by a fungal meiotic drive gene in homologous and heterologous expression systems.. <i>Genetics</i> , 2022 ,	4	2
4	Maternal mitochondrial inheritance in two <i>Fusarium</i> pathogens of prickly ash (<i>Zanthoxylum bungeanum</i>) in northern China. <i>Mycologia</i> , 2019 , 111, 235-243	2.4	1
3	A PCR method to identify ochratoxin A-producing <i>Aspergillus westerdijkiae</i> strains on dried and aged foods. <i>International Journal of Food Microbiology</i> , 2021 , 344, 109113	5.8	1
2	, sp. nov, a novel type A trichothecene-producing species from native grasses in a wetland ecosystem in Argentina. <i>Mycologia</i> , 2021 , 1-17	2.4	0
1	Genus-wide analysis of <i>Fusarium</i> polyketide synthases reveals broad chemical potential.. <i>Fungal Genetics and Biology</i> , 2022 , 103696	3.9	0

