Susan P Mccormick

List of Publications by Year in Descending Order

131 papers	5,265 citations	43 h-index	69 g-index
134 ext. papers	6,266 ext. citations	4 avg, IF	5.64 L-index

#	Paper	IF	Citations
131	Fusarium head blight resistance exacerbates nutritional loss of wheat grain at elevated CO.. *Scientific Reports*, **2022**, 12, 15	4.9	1
130	Chitin Triggers Tissue-Specific Immunity in Wheat Associated With Fusarium Head Blight.. *Frontiers in Plant Science*, **2022**, 13, 832502	6.2	1
129	Distribution, Function, and Evolution of a Gene Essential for Trichothecene Toxin Biosynthesis in .. *Frontiers in Microbiology*, **2021**, 12, 791641	5.7	0
128	Phylogenomic Analysis of a 55.1-kb 19-Gene Dataset Resolves a Monophyletic that Includes the Species Complex. *Phytopathology*, **2021**, 111, 1064-1079	3.8	39
127	Malformation Disease in (Rosy Trumpet) Caused by in Mexico. *Plant Disease*, **2021**, PDIS09201942RE	1.5	0
126	Effects of Double-Stranded RNAs Targeting on Fusarium Head Blight and Mycotoxins. *Phytopathology*, **2021**, PHYTO10200468R	3.8	0
125	Five-year survey uncovers extensive diversity and temporal fluctuations among fusarium head blight pathogens of wheat and barley in Brazil. *Plant Pathology*, **2021**, 70, 426-435	2.8	8
124	A Lipid Transfer Protein has Antifungal and Antioxidant Activity and Suppresses Fusarium Head Blight Disease and DON Accumulation in Transgenic Wheat. *Phytopathology*, **2021**, 111, 671-683	3.8	11
123	Use of the volatile trichodiene to reduce Fusarium head blight and trichothecene contamination in wheat. *Microbial Biotechnology*, **2021**,	6.3	4
122	Phylogenetic diversity, trichothecene potential, and pathogenicity within Fusarium sambucinum species complex. *PLoS ONE*, **2021**, 16, e0245037	3.7	12
121	DNA sequence-based identification of Fusarium: A work in progress.. *Plant Disease*, **2021**,	1.5	3
120	Changes in Wheat Nutritional Content at Elevated [CO] Alter Growth and Mycotoxin Production on Grain. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 6297-6307	5.7	1
119	Sarocladium zeae is a systemic endophyte of wheat and an effective biocontrol agent against Fusarium head blight. *Biological Control*, **2020**, 149, 104329	3.8	8
118	Intrapopulation Antagonism Can Reduce the Growth and Aggressiveness of the Wheat Head Blight Pathogen. *Phytopathology*, **2020**, 110, 916-926	3.8	3
117	Regional and field-specific differences in Fusarium species and mycotoxins associated with blighted North Carolina wheat. *International Journal of Food Microbiology*, **2020**, 323, 108594	5.8	4
116	Genetic bases for variation in structure and biological activity of trichothecene toxins produced by diverse fungi. *Applied Microbiology and Biotechnology*, **2020**, 104, 5185-5199	5.7	7
115	Determination of 42 mycotoxins in oats using a mechanically assisted QuEChERS sample preparation and UHPLC-MS/MS detection. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2020**, 1150, 122187	3.2	7

114	Gain and loss of a transcription factor that regulates late trichothecene biosynthetic pathway genes in Fusarium. *Fungal Genetics and Biology*, **2020**, 136, 103317	3.9	9
113	Pseudoflowers produced by Fusarium xyrophilum on yellow-eyed grass (Xyris spp.) in Guyana: A novel floral mimicry system?. *Fungal Genetics and Biology*, **2020**, 144, 103466	3.9	5
112	Trichoderma trichothecenes **2020**, 281-301		3
111	Characterization of Three Effectors and Their Roles During Fusarium Head Blight. *Frontiers in Plant Science*, **2020**, 11, 579553	6.2	3
110	Synergistic Phytotoxic Effects of Culmorin and Trichothecene Mycotoxins. *Toxins*, **2019**, 11,	4.9	16
109	Trichothecene-Producing Species Isolated from Soybean Roots in Ethiopia and Ghana and their Pathogenicity on Soybean. *Plant Disease*, **2019**, 103, 2070-2075	1.5	12
108	Microbial Correlates of Load and Deoxynivalenol Content in Individual Wheat Kernels. *Phytopathology*, **2019**, 109, 993-1002	3.8	3
107	A cytochrome P450 monooxygenase gene required for biosynthesis of the trichothecene toxin harzianum A in Trichoderma. *Applied Microbiology and Biotechnology*, **2019**, 103, 8087-8103	5.7	8
106	Fluorescence Polarization Immunoassay for the Determination of T-2 and HT-2 Toxins and Their Glucosides in Wheat. *Toxins*, **2019**, 11,	4.9	8
105	arabinanase (Arb93B) Enhances Wheat Head Blight Susceptibility by Suppressing Plant Immunity. *Molecular Plant-Microbe Interactions*, **2019**, 32, 888-898	3.6	10
104	Requirement of Two Acyltransferases for 4- O-Acylation during Biosynthesis of Harzianum A, an Antifungal Trichothecene Produced by Trichoderma arundinaceum. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 723-734	5.7	8
103	Role of Trichoderma arundinaceum tri10 in regulation of terpene biosynthetic genes and in control of metabolic flux. *Fungal Genetics and Biology*, **2019**, 122, 31-46	3.9	12
102	Effects of Atmospheric CO Level on the Metabolic Response of Resistant and Susceptible Wheat to Fusarium graminearum Infection. *Molecular Plant-Microbe Interactions*, **2019**, 32, 379-391	3.6	13
101	Fusarium mycotoxins: a trans-disciplinary overview. *Canadian Journal of Plant Pathology*, **2018**, 40, 161-171	1.6	27
100	Regional differences in the composition of Fusarium Head Blight pathogens and mycotoxins associated with wheat in Mexico. *International Journal of Food Microbiology*, **2018**, 273, 11-19	5.8	16
99	Evolution of structural diversity of trichothecenes, a family of toxins produced by plant pathogenic and entomopathogenic fungi. *PLoS Pathogens*, **2018**, 14, e1006946	7.6	90
98	An Imaging Surface Plasmon Resonance Biosensor Assay for the Detection of T-2 Toxin and Masked T-2 Toxin-3-Glucoside in Wheat. *Toxins*, **2018**, 10,	4.9	18
97	Effect of deletion of a trichothecene toxin regulatory gene on the secondary metabolism transcriptome of the saprotrophic fungus Trichoderma arundinaceum. *Fungal Genetics and Biology*, **2018**, 119, 29-46	3.9	18

96	Characterization of a Salicylate Hydroxylase. *Frontiers in Microbiology*, **2018**, 9, 3219	5.7	9
95	Marasas et al. 1984 "Toxigenic Fusarium Species: Identity and Mycotoxicology" revisited. *Mycologia*, **2018**, 110, 1058-1080	2.4	48
94	Molecular systematics of two sister clades, the Fusarium concolor and F. babinda species complexes, and the discovery of a novel microcycle macroconidium-producing species from South Africa. *Mycologia*, **2018**, 110, 1189-1204	2.4	10
93	Fusarium subtropicale, sp. nov., a novel nivalenol mycotoxin-producing species isolated from barley (Hordeum vulgare) in Brazil and sister to F. praegraminearum. *Mycologia*, **2018**, 110, 860-871	2.4	8
92	Development of an LC-MS/MS Determination Method for T-2 Toxin and Its Glucoside and Acetyl Derivatives for Estimating the Contamination of Total T-2 Toxins in Staple Flours. *Journal of AOAC INTERNATIONAL*, **2018**, 101, 658-666	1.7	4
91	A barley UDP-glucosyltransferase inactivates nivalenol and provides Fusarium Head Blight resistance in transgenic wheat. *Journal of Experimental Botany*, **2017**, 68, 2187-2197	7	47
90	Population genetic structure and mycotoxin potential of the wheat crown rot and head blight pathogen Fusarium culmorum in Algeria. *Fungal Genetics and Biology*, **2017**, 103, 34-41	3.9	31
89	Determinants and Expansion of Specificity in a Trichothecene UDP-Glucosyltransferase from Oryza sativa. *Biochemistry*, **2017**, 56, 6585-6596	3.2	14
88	Modification of the Mycotoxin Deoxynivalenol Using Microorganisms Isolated from Environmental Samples. *Toxins*, **2017**, 9,	4.9	10
87	Fusarium praegraminearum sp. nov., a novel nivalenol mycotoxin-producing pathogen from New Zealand can induce head blight on wheat. *Mycologia*, **2016**, 108, 1229-1239	2.4	10
86	Trichothecenes and aspinolides produced by Trichoderma arundinaceum regulate expression of Botrytis cinerea genes involved in virulence and growth. *Environmental Microbiology*, **2016**, 18, 3991-4004	5.2	16
85	Botrydial and botcinins produced by Botrytis cinerea regulate the expression of Trichoderma arundinaceum genes involved in trichothecene biosynthesis. *Molecular Plant Pathology*, **2016**, 17, 1017-31	5.7	12
84	Crystal Structure of Os79 (Os04g0206600) from Oryza sativa: A UDP-glucosyltransferase Involved in the Detoxification of Deoxynivalenol. *Biochemistry*, **2016**, 55, 6175-6186	3.2	32
83	Study of the natural occurrence of T-2 and HT-2 toxins and their glucosyl derivatives from field barley to malt by high-resolution Orbitrap mass spectrometry. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2015**, 32, 1647-55	3.2	21
82	Diversity of Fusarium head blight populations and trichothecene toxin types reveals regional differences in pathogen composition and temporal dynamics. *Fungal Genetics and Biology*, **2015**, 82, 22-31	3.9	72
81	Tracing the metabolism of HT-2 toxin and T-2 toxin in barley by isotope-assisted untargeted screening and quantitative LC-HRMS analysis. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 8019-33	4.4	46
80	Novel aspinolide production by Trichoderma arundinaceum with a potential role in Botrytis cinerea antagonistic activity and plant defence priming. *Environmental Microbiology*, **2015**, 17, 1103-18	5.2	39
79	Production of trichodiene by Trichoderma harzianum alters the perception of this biocontrol strain by plants and antagonized fungi. *Environmental Microbiology*, **2015**, 17, 2628-46	5.2	51

78	New tricks of an old enemy: isolates of Fusarium graminearum produce a type A trichothecene mycotoxin. *Environmental Microbiology*, **2015**, 17, 2588-600	5.2	111
77	Transgenic Wheat Expressing a Barley UDP-Glucosyltransferase Detoxifies Deoxynivalenol and Provides High Levels of Resistance to Fusarium graminearum. *Molecular Plant-Microbe Interactions*, **2015**, 28, 1237-46	3.6	84
76	Variation in type A trichothecene production and trichothecene biosynthetic genes in Fusarium goolgardi from natural ecosystems of Australia. *Toxins*, **2015**, 7, 4577-94	4.9	13
75	A Lipid Transfer Protein Increases the Glutathione Content and Enhances Arabidopsis Resistance to a Trichothecene Mycotoxin. *PLoS ONE*, **2015**, 10, e0130204	3.7	16
74	Fusarium dactylidis sp. nov., a novel nivalenol toxin-producing species sister to F. pseudograminearum isolated from orchard grass (Dactylis glomerata) in Oregon and New Zealand. *Mycologia*, **2015**, 107, 409-18	2.4	24
73	Anomericity of T-2 toxin-glucoside: masked mycotoxin in cereal crops. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 731-8	5.7	57
72	Elimination of damaged mitochondria through mitophagy reduces mitochondrial oxidative stress and increases tolerance to trichothecenes. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11798-803	11.5	74
71	Microbial detoxification of mycotoxins. *Journal of Chemical Ecology*, **2013**, 39, 907-18	2.7	108
70	The arbuscular mycorrhizal fungus, Glomus irregulare, controls the mycotoxin production of Fusarium sambucinum in the pathogenesis of potato. *FEMS Microbiology Letters*, **2013**, 348, 46-51	2.9	29
69	Trichothecene Triangle: Toxins, Genes, and Plant Disease **2013**, 1-17		2
68	Phylogenetic analyses of RPB1 and RPB2 support a middle Cretaceous origin for a clade comprising all agriculturally and medically important fusaria. *Fungal Genetics and Biology*, **2013**, 52, 20-31	3.9	254
67	One fungus, one name: defining the genus Fusarium in a scientifically robust way that preserves longstanding use. *Phytopathology*, **2013**, 103, 400-8	3.8	155
66	Relevance of trichothecenes in fungal physiology: disruption of tri5 in Trichoderma arundinaceum. *Fungal Genetics and Biology*, **2013**, 53, 22-33	3.9	72
65	Development and evaluation of monoclonal antibodies for the glucoside of T-2 toxin (t2-glc). *Toxins* , **2013**, 5, 1299-313	4.9	15
64	Functional roles of FgLaeA in controlling secondary metabolism, sexual development, and virulence in Fusarium graminearum. *PLoS ONE*, **2013**, 8, e68441	3.7	39
63	Transgenic Arabidopsis thaliana expressing a barley UDP-glucosyltransferase exhibit resistance to the mycotoxin deoxynivalenol. *Journal of Experimental Botany*, **2012**, 63, 4731-40	7	70
62	Glucosylation and other biotransformations of T-2 toxin by yeasts of the trichomonascus clade. *Applied and Environmental Microbiology*, **2012**, 78, 8694-702	4.8	52
61	The genetic basis for 3-ADON and 15-ADON trichothecene chemotypes in Fusarium. *Fungal Genetics and Biology*, **2011**, 48, 485-95	3.9	135

60	Trichothecene mycotoxins inhibit mitochondrial translation--implication for the mechanism of toxicity. *Toxins*, **2011**, 3, 1484-501	4.9	43
59	Fusarium sibiricum sp. nov, a novel type A trichothecene-producing Fusarium from northern Asia closely related to F. sporotrichioides and F. langsethiae. *International Journal of Food Microbiology*, **2011**, 147, 58-68	5.8	48
58	Trichothecenes: from simple to complex mycotoxins. *Toxins*, **2011**, 3, 802-14	4.9	285
57	Bioprospecting for trichothecene 3-O-acetyltransferases in the fungal genus Fusarium yields functional enzymes with different abilities to modify the mycotoxin deoxynivalenol. *Applied and Environmental Microbiology*, **2011**, 77, 1162-70	4.8	29
56	A fungal symbiont of plant-roots modulates mycotoxin gene expression in the pathogen Fusarium sambucinum. *PLoS ONE*, **2011**, 6, e17990	3.7	31
55	CLM1 of Fusarium graminearum encodes a longiborneol synthase required for culmorin production. *Applied and Environmental Microbiology*, **2010**, 76, 136-41	4.8	62
54	A genome-wide screen in Saccharomyces cerevisiae reveals a critical role for the mitochondria in the toxicity of a trichothecene mycotoxin. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 21883-8	11.5	52
53	Structural and functional characterization of TRI3 trichothecene 15-O-acetyltransferase from Fusarium sporotrichioides. *Protein Science*, **2009**, 18, 747-61	6.3	27
52	Global gene regulation by Fusarium transcription factors Tri6 and Tri10 reveals adaptations for toxin biosynthesis. *Molecular Microbiology*, **2009**, 72, 354-67	4.1	191
51	Evidence that a secondary metabolic biosynthetic gene cluster has grown by gene relocation during evolution of the filamentous fungus Fusarium. *Molecular Microbiology*, **2009**, 74, 1128-42	4.1	145
50	Genes, gene clusters, and biosynthesis of trichothecenes and fumonisins in Fusarium. *Toxin Reviews* , **2009**, 28, 198-215	2.3	181
49	Structural and functional characterization of the TRI101 trichothecene 3-O-acetyltransferase from Fusarium sporotrichioides and Fusarium graminearum: kinetic insights to combating Fusarium head blight. *Journal of Biological Chemistry*, **2008**, 283, 1660-1669	5.4	71
48	Effects of xanthotoxin treatment on trichothecene production in Fusarium sporotrichioides. *Canadian Journal of Microbiology*, **2008**, 54, 1023-31	3.2	8
47	Structure-activity relationships of trichothecene toxins in an Arabidopsis thaliana leaf assay. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 6487-92	5.7	69
46	Myrothecium roridum Tri4 encodes a multifunctional oxygenase required for three oxygenation steps. *Canadian Journal of Microbiology*, **2007**, 53, 572-9	3.2	13
45	Heterologous expression of two trichothecene P450 genes in Fusarium verticillioides. *Canadian Journal of Microbiology*, **2006**, 52, 220-6	3.2	35
44	Fusarium Tri4 encodes a multifunctional oxygenase required for trichothecene biosynthesis. *Canadian Journal of Microbiology*, **2006**, 52, 636-42	3.2	59
43	Expression of 3-OH trichothecene acetyltransferase in barley (Hordeum vulgare L.) and effects on deoxynivalenol. *Plant Science*, **2006**, 171, 699-706	5.3	39

42	Identification and heritability of fumonisin insensitivity in Zea mays. *Phytochemistry*, **2005**, 66, 2474-80	4	14
41	Expression of Tri15 in Fusarium sporotrichioides. *Current Genetics*, **2004**, 45, 157-62	2.9	30
40	Functional demarcation of the Fusarium core trichothecene gene cluster. *Fungal Genetics and Biology*, **2004**, 41, 454-62	3.9	130
39	The identification of the Saccharomyces cerevisiae gene AYT1(ORF-YLL063c) encoding an acetyltransferase. *Yeast*, **2002**, 19, 1425-30	3.4	25
38	Fusarium Tri8 encodes a trichothecene C-3 esterase. *Applied and Environmental Microbiology*, **2002**, 68, 2959-64	4.8	68
37	Inactivation of a cytochrome P-450 is a determinant of trichothecene diversity in Fusarium species. *Fungal Genetics and Biology*, **2002**, 36, 224-33	3.9	136
36	A genetic and biochemical approach to study trichothecene diversity in Fusarium sporotrichioides and Fusarium graminearum. *Fungal Genetics and Biology*, **2001**, 32, 121-33	3.9	154
35	Trichothecene toxin effects on barley callus and seedling growth. *Cereal Research Communications*, **2001**, 29, 115-120	1.1	4
34	Monoclonal Antibodies for the Mycotoxins Deoxynivalenol and 3-Acetyl-Deoxynivalenol. *Food and Agricultural Immunology*, **2000**, 12, 181-192	2.9	66
33	Altered regulation of 15-acetyldeoxynivalenol production in Fusarium graminearum. *Applied and Environmental Microbiology*, **2000**, 66, 2062-5	4.8	12
32	Transgenic expression of the TRI101 or PDR5 gene increases resistance of tobacco to the phytotoxic effects of the trichothecene 4,15-diacetoxyscirpenol. *Plant Science*, **2000**, 157, 201-207	5.3	62
31	Occurrence of Fusarium species and mycotoxins in nepalese maize and wheat and the effect of traditional processing methods on mycotoxin levels. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 1377-83	5.7	108
30	Phytotoxicity of selected trichothecenes using Chlamydomonas reinhardtii as a model systemt. *Natural Toxins*, **1999**, 7, 265-9		44
29	Disruption of TRI101, the gene encoding trichothecene 3-O-acetyltransferase, from Fusarium sporotrichioides. *Applied and Environmental Microbiology*, **1999**, 65, 5252-6	4.8	93
28	The TRI11 gene of Fusarium sporotrichioides encodes a cytochrome P-450 monooxygenase required for C-15 hydroxylation in trichothecene biosynthesis. *Applied and Environmental Microbiology*, **1998**, 64, 221-5	4.8	113
27	Role of Toxins in Plant Microbial Interactions **1998**, 17-30		3
26	Restoration of wild-type virulence to Tri5 disruption mutants of Gibberella zeae via gene reversion and mutant complementation. *Microbiology (United Kingdom)*, **1997**, 143 (Pt 8), 2583-2591	2.9	89
25	Association between Solavetivone Production and Resistance to Globodera rostochiensis in Potato. *Journal of Agricultural and Food Chemistry*, **1997**, 45, 2322-2326	5.7	6

24	Diversity of Sesquiterpenes in 46 Potato Cultivars and Breeding Selections. *Journal of Agricultural and Food Chemistry*, **1995**, 43, 2267-2272	5.7	28
23	The Tri4 gene of Fusarium sporotrichioides encodes a cytochrome P450 monooxygenase involved in trichothecene biosynthesis. *Molecular Genetics and Genomics*, **1995**, 248, 95-102		95
22	Detoxification of the potato phytoalexin rishitin by Gibberella pulicaris. *Phytochemistry*, **1994**, 37, 1001-1005	4	18
21	Evidence for a gene cluster involving trichothecene-pathway biosynthetic genes in Fusarium sporotrichioides. *Current Genetics*, **1993**, 24, 291-5	2.9	128
20	Reactivity of Deoxynivalenol (Vomitoxin) Monoclonal Antibody Towards Putative Trichothecene Precursors and Shunt Metabolites. *Journal of Food Protection*, **1991**, 54, 288-290	2.5	4
19	Aflatoxin production in cultures of Aspergillus flavus incubated in atmospheres containing selected cotton leaf-derived volatiles. *Toxicon*, **1990**, 28, 445-8	2.8	46
18	High-performance liquid chromatographic procedure for determining the profiles of aflatoxin precursors in wildtype and mutant strains of Aspergillus parasiticus. *Journal of Chromatography A*, **1988**, 441, 400-5	4.5	12
17	The inhibitory effect of neem (Azadirachta indica) leaf extracts on aflatoxin synthesis inAspergillus parasiticus. *JAOCS, Journal of the American Oil Chemistsl Society*, **1988**, 65, 1166-1168	1.8	46
16	6-Methoxyflavonoids from Balsamorhiza sectionArtorhiza. *Biochemical Systematics and Ecology*, **1988**, 16, 411-412	1.4	4
15	Flavonoids of Wyethia section Agnorhiza. *Phytochemistry*, **1987**, 26, 2421-2422	4	9
14	Flavonoids of Wyethia angustifolia and W. helenioides. *Phytochemistry*, **1986**, 25, 1723-1726	4	50
13	flavones from Calycadenia ciliosa (Compositae): Inter- and intrapopulational variation. *Biochemical Systematics and Ecology*, **1986**, 14, 29-32	1.4	8
12	Flavonoids from Wyethia glabra. *Phytochemistry*, **1985**, 24, 1614-1616	4	22
11	Methylated flavonols from Wyethia bolanderi and Balsamorhiza macrophylla. *Phytochemistry*, **1985**, 24, 2133	4	8
10	Methylated Chalcones from Bidens torta. *Phytochemistry*, **1984**, 23, 2400-2401	4	10
9	o-and c-glycosylflavones from passiflora biflora. *Phytochemistry*, **1983**, 22, 798-799	4	11
8	The Flavonoids of Passiflora sexflora. *Journal of Natural Products*, **1982**, 45, 782-782	4.9	7
7	Flavonoids of Passiflora pavonis. *Journal of Natural Products*, **1981**, 44, 623-624	4.9	9

6	Accent typology and sound change. *Lingua*, **1981**, 53, 295-315	0.7	10
5	The flavonoids of Trichophorum cespitosum. *Phytochemistry*, **1980**, 21, 2991	4	2
4	Transition metal ion complexes of the conjugate base of 3-phenyl-5-methyl-1-hydroxypyrazole 2-oxide. *Journal of Inorganic and Nuclear Chemistry*, **1977**, 39, 1231-1233		8
3	Some lanthanide complexes of the conjugate base of 3-phenyl-5-methyl-1-hydroxypyrazole-2-oxide. *Journal of Inorganic and Nuclear Chemistry*, **1977**, 39, 2083-2084		4
2	Chromium(III) complexes of the conjugate bases of substituted 1-hydroxypyrazole 2-oxides. *Journal of Inorganic and Nuclear Chemistry*, **1977**, 39, 2086-2087		2
1	Morphophonology		1