Paul Tudzynski

List of Publications by Year in Descending Order

129 papers	7,997 citations	50 h-index	87 g-index
131 ext. papers	9,437 ext. citations	4.3 avg, IF	5.9 L-index

#	Paper	IF	Citations
129	The putative H3K36 demethylase BcKDM1 affects virulence, stress responses and photomorphogenesis in Botrytis cinerea. *Fungal Genetics and Biology*, **2019**, 123, 14-24	3.9	12
128	Brachypodium distachyon as alternative model host system for the ergot fungus Claviceps purpurea. *Molecular Plant Pathology*, **2018**, 19, 1005-1011	5.7	8
127	Manipulation of cytokinin level in the ergot fungus Claviceps purpurea emphasizes its contribution to virulence. *Current Genetics*, **2018**, 64, 1303-1319	2.9	16
126	Molecular analysis of the early interaction between the grapevine flower and Botrytis cinerea reveals that prompt activation of specific host pathways leads to fungus quiescence. *Plant, Cell and Environment*, **2017**, 40, 1409-1428	8.4	24
125	Cross-talk of the biotrophic pathogen Claviceps purpurea and its host Secale cereale. *BMC Genomics*, **2017**, 18, 273	4.5	15
124	Localization of ergot alkaloids in sclerotia of Claviceps purpurea by matrix-assisted laser desorption/ionization mass spectrometry imaging. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 1221-1230	4.4	7
123	The Protein Disulfide Isomerase of : An ER Protein Involved in Protein Folding and Redox Homeostasis Influences NADPH Oxidase Signaling Processes. *Frontiers in Microbiology*, **2017**, 8, 960	5.7	13
122	Update on Nox function, site of action and regulation in. *Fungal Biology and Biotechnology*, **2016**, 3, 8	7.5	18
121	Identification and characterization of the ergochrome gene cluster in the plant pathogenic fungus. *Fungal Biology and Biotechnology*, **2016**, 3, 2	7.5	21
120	Chasing stress signals - Exposure to extracellular stimuli differentially affects the redox state of cell compartments in the wild type and signaling mutants of Botrytis cinerea. *Fungal Genetics and Biology*, **2016**, 90, 12-22	3.9	12
119	The Epipolythiodiketopiperazine Gene Cluster in Claviceps purpurea: Dysfunctional Cytochrome P450 Enzyme Prevents Formation of the Previously Unknown Clapurines. *PLoS ONE*, **2016**, 11, e0158945	3.7	5
118	BcIqg1, a fungal IQGAP homolog, interacts with NADPH oxidase, MAP kinase and calcium signaling proteins and regulates virulence and development in Botrytis cinerea. *Molecular Microbiology*, **2016** , 101, 281-98	4.1	26
117	Functional characterization of the first filamentous fungal tRNA-isopentenyltransferase and its role in the virulence of Claviceps purpurea. *New Phytologist*, **2016**, 211, 980-92	9.8	34
116	Reactive oxygen species in development and infection processes. *Seminars in Cell and Developmental Biology*, **2016**, 57, 138-146	7.5	47
115	Unraveling the Function of the Response Regulator BcSkn7 in the Stress Signaling Network of Botrytis cinerea. *Eukaryotic Cell*, **2015**, 14, 636-51		23
114	BcNoxD, a putative ER protein, is a new component of the NADPH oxidase complex in Botrytis cinerea. *Molecular Microbiology*, **2015**, 95, 988-1005	4.1	53
113	De novo biosynthesis of cytokinins in the biotrophic fungus Claviceps purpurea. *Environmental Microbiology*, **2015**, 17, 2935-51	5.2	59

112	A new and reliable method for live imaging and quantification of reactive oxygen species in Botrytis cinerea: technological advancement. *Fungal Genetics and Biology*, **2014**, 71, 68-75	3.9	17
111	Redox systems in Botrytis cinerea: impact on development and virulence. *Molecular Plant-Microbe Interactions*, **2014**, 27, 858-74	3.6	41
110	Functional analysis of BcBem1 and its interaction partners in Botrytis cinerea: impact on differentiation and virulence. *PLoS ONE*, **2014**, 9, e95172	3.7	22
109	Biosynthetic pathways of ergot alkaloids. *Toxins*, **2014**, 6, 3281-95	4.9	66
108	Ergot Alkaloids. *Fungal Biology*, **2014**, 303-316	2.3	8
107	The transcription factor BcLTF1 regulates virulence and light responses in the necrotrophic plant pathogen Botrytis cinerea. *PLoS Genetics*, **2014**, 10, e1004040	6	95
106	Small-GTPase-associated signaling by the guanine nucleotide exchange factors CpDock180 and CpCdc24, the GTPase effector CpSte20, and the scaffold protein CpBem1 in Claviceps purpurea. *Eukaryotic Cell*, **2014**, 13, 470-82		14
105	Molecular characterization of the NADPH oxidase complex in the ergot fungus Claviceps purpurea: CpNox2 and CpPls1 are important for a balanced host-pathogen interaction. *Molecular Plant-Microbe Interactions*, **2013**, 26, 1151-64	3.6	21
104	Plant-symbiotic fungi as chemical engineers: multi-genome analysis of the clavicipitaceae reveals dynamics of alkaloid loci. *PLoS Genetics*, **2013**, 9, e1003323	6	295
103	Involvement of Botrytis cinerea small GTPases BcRAS1 and BcRAC in differentiation, virulence, and the cell cycle. *Eukaryotic Cell*, **2013**, 12, 1609-18		43
102	Assessing the effects of light on differentiation and virulence of the plant pathogen Botrytis cinerea: characterization of the White Collar Complex. *PLoS ONE*, **2013**, 8, e84223	3.7	99
101	The NADPH oxidase complexes in Botrytis cinerea: evidence for a close association with the ER and the tetraspanin Pls1. *PLoS ONE*, **2013**, 8, e55879	3.7	57
100	BcAtf1, a global regulator, controls various differentiation processes and phytotoxin production in Botrytis cinerea. *Molecular Plant Pathology*, **2012**, 13, 704-18	5.7	68
99	Redox-sensitive GFP2: use of the genetically encoded biosensor of the redox status in the filamentous fungus Botrytis cinerea. *Molecular Plant Pathology*, **2012**, 13, 935-47	5.7	30
98	Germling fusion via conidial anastomosis tubes in the grey mould Botrytis cinerea requires NADPH oxidase activity. *Fungal Biology*, **2012**, 116, 379-87	2.8	67
97	Morphogenesis and Infection in Botrytis cinerea. *Topics in Current Genetics*, **2012**, 225-241		22
96	Reactive oxygen species generation in fungal development and pathogenesis. *Current Opinion in Microbiology*, **2012**, 15, 653-9	7.9	87
95	The mitogen-activated protein kinase BcSak1 of Botrytis cinerea is required for pathogenic development and has broad regulatory functions beyond stress response. *Molecular Plant-Microbe Interactions*, **2012**, 25, 802-16	3.6	48

94	Genomic analysis of the necrotrophic fungal pathogens Sclerotinia sclerotiorum and Botrytis cinerea. *PLoS Genetics*, **2011**, 7, e1002230	6	659
93	The small GTPase BcCdc42 affects nuclear division, germination and virulence of the gray mold fungus Botrytis cinerea. *Fungal Genetics and Biology*, **2011**, 48, 1012-9	3.9	28
92	Reactive oxygen species in phytopathogenic fungi: signaling, development, and disease. *Annual Review of Phytopathology*, **2011**, 49, 369-90	10.8	331
91	The FRP1 F-box gene has different functions in sexuality, pathogenicity and metabolism in three fungal pathogens. *Molecular Plant Pathology*, **2011**, 12, 548-63	5.7	17
90	The Botrytis cinerea Reg1 protein, a putative transcriptional regulator, is required for pathogenicity, conidiogenesis, and the production of secondary metabolites. *Molecular Plant-Microbe Interactions*, **2011**, 24, 1074-85	3.6	61
89	Regulation of pathogenic spore germination by CgRac1 in the fungal plant pathogen Colletotrichum gloeosporioides. *Eukaryotic Cell*, **2011**, 10, 1122-30		27
88	Alkaloid cluster gene ccsA of the ergot fungus Claviceps purpurea encodes chanoclavine I synthase, a flavin adenine dinucleotide-containing oxidoreductase mediating the transformation of N-methyl-dimethylallyltryptophan to chanoclavine I. *Applied and Environmental Microbiology*, **2010**, 76, 1822-30	4.8	45
87	Deletion of Mid1, a putative stretch-activated calcium channel in Claviceps purpurea, affects vegetative growth, cell wall synthesis and virulence. *Microbiology (United Kingdom)*, **2009**, 155, 3922-3933	2.9	30
86	Ergot: from witchcraft to biotechnology. *Molecular Plant Pathology*, **2009**, 10, 563-77	5.7	89
85	Expressed sequence tags from the flower pathogen Claviceps purpurea. *Molecular Plant Pathology*, **2009**, 10, 665-84	5.7	8
84	The ergot alkaloid gene cluster: functional analyses and evolutionary aspects. *Phytochemistry*, **2009**, 70, 1822-32	4	64
83	Does botrytis cinerea Ignore H(2)O(2)-induced oxidative stress during infection? Characterization of botrytis activator protein 1. *Molecular Plant-Microbe Interactions*, **2009**, 22, 987-98	3.6	121
82	Botrytis cinerea: Molecular Aspects of a Necrotrophic Life Style **2009**, 29-50		20
81	The NADPH oxidase Cpnox1 is required for full pathogenicity of the ergot fungus Claviceps purpurea. *Molecular Plant Pathology*, **2008**, 9, 317-27	5.7	77
80	The small GTPase Rac and the p21-activated kinase Cla4 in Claviceps purpurea: interaction and impact on polarity, development and pathogenicity. *Molecular Microbiology*, **2008**, 68, 405-23	4.1	74
79	Use of a nonhomologous end joining deficient strain (Deltaku70) of the ergot fungus Claviceps purpurea for identification of a nonribosomal peptide synthetase gene involved in ergotamine biosynthesis. *Fungal Genetics and Biology*, **2008**, 45, 35-44	3.9	65
78	NADPH oxidases are involved in differentiation and pathogenicity in Botrytis cinerea. *Molecular Plant-Microbe Interactions*, **2008**, 21, 808-19	3.6	190
77	The cAMP-dependent signaling pathway and its role in conidial germination, growth, and virulence of the gray mold Botrytis cinerea. *Molecular Plant-Microbe Interactions*, **2008**, 21, 1443-59	3.6	70

76	Approaches to Molecular Genetics and Genomics of Botrytis **2007**, 53-66		4
75	Botrytis cinerea: the cause of grey mould disease. *Molecular Plant Pathology*, **2007**, 8, 561-80	5.7	916
74	The histidine kinase CpHK2 has impact on spore germination, oxidative stress and fungicide resistance, and virulence of the ergot fungus Claviceps purpurea. *Molecular Plant Pathology*, **2007**, 8, 653-65	5.7	23
73	BcSAK1, a stress-activated mitogen-activated protein kinase, is involved in vegetative differentiation and pathogenicity in Botrytis cinerea. *Eukaryotic Cell*, **2007**, 6, 211-21		174
72	Comparison of ergot alkaloid biosynthesis gene clusters in Claviceps species indicates loss of late pathway steps in evolution of C. fusiformis. *Applied and Environmental Microbiology*, **2007**, 73, 7185-91	4.8	49
71	Phytohormones In Botrytis-Plant Interactions **2007**, 163-179		17
70	In vitro pathogenicity assay for the ergot fungus Claviceps purpurea. *Mycological Research*, **2006**, 110, 465-70		20
69	Identification of the cytochrome P450 monooxygenase that bridges the clavine and ergoline alkaloid pathways. *ChemBioChem*, **2006**, 7, 645-52	3.8	54
68	Identification of an abscisic acid gene cluster in the grey mold Botrytis cinerea. *Applied and Environmental Microbiology*, **2006**, 72, 4619-26	4.8	106
67	Ergot alkaloids--biology and molecular biology. *The Alkaloids Chemistry and Biology*, **2006**, 63, 45-86	4.8	161
66	Ethylene sensing and gene activation in Botrytis cinerea: a missing link in ethylene regulation of fungus-plant interactions?. *Molecular Plant-Microbe Interactions*, **2006**, 19, 33-42	3.6	84
65	The COT1 homologue CPCOT1 regulates polar growth and branching and is essential for pathogenicity in Claviceps purpurea. *Fungal Genetics and Biology*, **2005**, 42, 107-18	3.9	28
64	Functional analysis of the cytochrome P450 monooxygenase gene bcbot1 of Botrytis cinerea indicates that botrydial is a strain-specific virulence factor. *Molecular Plant-Microbe Interactions*, **2005**, 18, 602-12	3.6	151
63	The ergot alkaloid gene cluster in Claviceps purpurea: extension of the cluster sequence and intra species evolution. *Phytochemistry*, **2005**, 66, 1312-20	4	116
62	A CDC42 homologue in Claviceps purpurea is involved in vegetative differentiation and is essential for pathogenicity. *Eukaryotic Cell*, **2005**, 4, 1228-38		50
61	The P450 monooxygenase BcABA1 is essential for abscisic acid biosynthesis in Botrytis cinerea. *Applied and Environmental Microbiology*, **2004**, 70, 3868-76	4.8	112
60	Functional analysis of H(2)O(2)-generating systems in Botrytis cinerea: the major Cu-Zn-superoxide dismutase (BCSOD1) contributes to virulence on French bean, whereas a glucose oxidase (BCGOD1) is dispensable. *Molecular Plant Pathology*, **2004**, 5, 17-27	5.7	185
59	Claviceps purpurea: molecular aspects of a unique pathogenic lifestyle. *Molecular Plant Pathology*, **2004**, 5, 377-88	5.7	82

58	CPTF1, a CREB-like transcription factor, is involved in the oxidative stress response in the phytopathogen Claviceps purpurea and modulates ROS level in its host Secale cereale. *Molecular Plant-Microbe Interactions*, **2004**, 17, 383-93	3.6	68
57	Molecular cloning and analysis of the ergopeptine assembly system in the ergot fungus Claviceps purpurea. *Chemistry and Biology*, **2003**, 10, 1281-92		90
56	Structural and functional analysis of an oligomeric hydrophobin gene from Claviceps purpurea. *Molecular Plant Pathology*, **2003**, 4, 31-41	5.7	14
55	Fungal Pathogenicity Genes. *Applied Mycology and Biotechnology*, **2003**, 187-212		13
54	Molecular Aspects of Host-Pathogen Interactions and Ergot Alkaloid Biosynthesis in Claviceps **2003**,		4
53	CPMK2, an SLT2-homologous mitogen-activated protein (MAP) kinase, is essential for pathogenesis of Claviceps purpurea on rye: evidence for a second conserved pathogenesis-related MAP kinase cascade in phytopathogenic fungi. *Molecular Microbiology*, **2002**, 46, 305-18	4.1	88
52	The major Cu,Zn SOD of the phytopathogen Claviceps purpurea is not essential for pathogenicity. *Molecular Plant Pathology*, **2002**, 3, 9-22	5.7	50
51	Ethylene biosynthesis in Botrytis cinerea. *FEMS Microbiology Ecology*, **2002**, 40, 143-9	4.3	19
50	Polygalacturonase is a pathogenicity factor in the Claviceps purpurea/rye interaction. *Fungal Genetics and Biology*, **2002**, 36, 176-86	3.9	155
49	Pathogenic Development of Claviceps purpurea **2002**,		2
48	Genetics of Phytopathology: Pathogenicity Factors and Signal Transduction in Plant-pathogenic Fungi. *Progress in Botany Fortschritte Der Botanik*, **2002**, 163-188	0.6	5
47	The Contribution of Cell Wall Degrading Enzymes to Pathogenesis of Fungal Plant Pathogens **2002**, 341-358		53
46	The role of G protein alpha subunits in the infection process of the gray mold fungus Botrytis cinerea. *Molecular Plant-Microbe Interactions*, **2001**, 14, 1293-302	3.6	163
45	Infection Strategies of Botrytis cinerea and Related Necrotrophic Pathogens **2000**, 33-64		87
44	Genetics of Phytopathology: Phytopathogenic Fungi: Genetic Aspects of Host-Pathogen Interaction. *Progress in Botany Fortschritte Der Botanik*, **2000**, 118-147	0.6	3
43	Evidence for Three Different Specific Saponin-detoxifying Activities in Botrytis cinerea and Cloning and Functional Analysis of a Gene Coding for a Putative Avenacinase. *European Journal of Plant Pathology*, **1999**, 105, 273-283	2.1	73
42	Claviceps sp. PRL 1980 (ATCC 26245), 59 and Pepty 695/ch-I: their true story. *Mycological Research*, **1999**, 103, 1044-1048		18
41	Immunogold localization of an extracellular β-1,3-glucanase of the ergot fungus Claviceps purpurea during infection of rye. *Mycological Research*, **1999**, 103, 1103-1118		15

40	Identification and characterization of a tri-partite hydrophobin from Claviceps fusiformis. A novel type of class II hydrophobin. *FEBS Journal*, **1999**, 262, 377-85		31
39	Cloning, characterization, and targeted disruption of cpcat1, coding for an in planta secreted catalase of Claviceps purpurea. *Molecular Plant-Microbe Interactions*, **1998**, 11, 772-83	3.6	53
38	The Xylanolytic System of Claviceps purpurea: Cytological Evidence for Secretion of Xylanases in Infected Rye Tissue and Molecular Characterization of Two Xylanase Genes. *Phytopathology*, **1998**, 88, 1020-30	3.8	65
37	Genetics of Plant Pathogenic Fungi. *Progress in Botany Fortschritte Der Botanik*, **1998**, 169-193	0.6	6
36	Cel1, probably encoding a cellobiohydrolase lacking the substrate binding domain, is expressed in the initial infection phase of Claviceps purpurea on Secale cereale. *Molecular Plant-Microbe Interactions*, **1997**, 10, 268-79	3.6	31
35	Analysis of genetic diversity in Claviceps purpurea by RAPD markers. *Mycological Research*, **1997**, 101, 1-6		42
34	Genetics of Phytopathogenic Fungi **1996**, 235-252		1
33	The Claviceps purpurea glyceraldehyde-3-phosphate dehydrogenase gene: cloning, characterization, and use for the improvement of a dominant selection system. *Current Genetics*, **1994**, 25, 101-6	2.9	43
32	Variations in ploidy among isolates of Botrytis cinerea: implications for genetic and molecular analyses. *Current Genetics*, **1994**, 25, 445-50	2.9	147
31	A DNA-polymerase-related reading frame (pol-r) in the mtDNA of Secale cereale. *Current Genetics*, **1994**, 25, 59-65	2.9	13
30	Molecular genetics of pathogenic fungi: new horizons. *Trends in Microbiology*, **1994**, 2, 429-30	12.4	1
29	Studies on function and mobility of mitochondrial plasmids from Claviceps purpurea. *Mycological Research*, **1994**, 98, 511-515		6
28	Interaction between mitochondrial DNA and mitochondrial plasmids in Claviceps purpurea: analysis of plasmid-homologous sequences upstream of the lrRNA-gene. *Current Genetics*, **1993**, 23, 315-22	2.9	18
27	Molecular Genetics of Phytopathogenic Fungi **1993**, 358-372		
26	Characterization of an extracellular β-1,3-glucanase of Claviceps purpurea. *Physiological and Molecular Plant Pathology*, **1992**, 40, 191-201	2.6	14
25	Efficient transformation of Claviceps purpurea using pyrimidine auxotrophic mutants: cloning of the OMP decarboxylase gene. *Molecular Genetics and Genomics*, **1992**, 234, 297-305		45
24	Transcripts and translation products of a mitochondrial plasmid of Claviceps purpurea. *Current Genetics*, **1992**, 21, 249-54	2.9	19
23	Extranuclear Inheritance: Mitochondrial Genetics **1991**, 244-263		4

22	Transformation of Claviceps purpurea using a bleomycin resistance gene. *Applied Microbiology and Biotechnology*, **1989**, 30, 364-370	5.7	29
21	The linear mitochondrial plasmid pClK1 of the phytopathogenic fungus Claviceps purpurea may code for a DNA polymerase and an RNA polymerase. *Molecular Genetics and Genomics*, **1989**, 217, 132-40		74
20	Structural and functional analysis of mitochondrial plasmids in Claviceps purpurea. *Molecular Genetics and Genomics*, **1988**, 214, 128-34		45
19	Extrachromosomal genetics of Cephalosporium acremonium. *Applied Microbiology and Biotechnology*, **1986**, 23, 280	5.7	2
18	Extrachromosomal genetics of Claviceps purpurea. *Current Genetics*, **1986**, 10, 463-467	2.9	40
17	Plasmids of Eukaryotes. *Heidelberg Science Library*, **1986**,		70
16	Extrakaryotic Inheritance: Mitochondrial Genetics **1986**, 249-259		7
15	Linear Plasmids in the Phytopathogenic Fungus Claviceps Purpurea **1986**, 119-127		3
14	Mitochondrial DNA for Gene Cloning in Eukaryotes **1985**, 403-416		9
13	Extrachromosomal genetics of Claviceps purpurea : I. Mitochondrial DNA and mitochondrial plasmids. *Current Genetics*, **1983**, 7, 145-50	2.9	55
12	Nuclear association in yeast of a hybrid vector containing mitochondrial DNA. *Current Genetics*, **1983**, 7, 165-6	2.9	11
11	NUCLEAR-MITOCHONDRIAL INTERACTIONS CAUSE SENESCENCE IN THE FILAMENTOUS FUNGUS PODOSPORA ANSERINA **1983**, 251-258		
10	A BACTERIAL-MITOCHONDRIAL SHUTTLE VECTOR FOR CLONING IN PRO- AND EUKARYOTES **1983**, 566		
9	Development of a eukaryotic cloning system in Podospora anserina : I. Long-lived mutants as potential recipients. *Current Genetics*, **1982**, 6, 219-22	2.9	30
8	Extrachromosomal genetics of Cephalosporium acremonium : II. Development of a mitochondrial DNA hybrid vector replicating in Saccharomyces cerevisiae. *Current Genetics*, **1982**, 6, 153-8	2.9	32
7	Extranuclear Inheritance **1982**, 286-307		
6	Mitochondrial DNA and senescence in Podospora anserina. *Current Genetics*, **1981**, 4, 83	2.9	7
5	A model to explain senescence in the filamentous fungus Podospora anserina by the action of plasmid like DNA. *Molecular Genetics and Genomics*, **1980**, 178, 213-216		29

4	Extrakaryotic Inheritance **1980**, 214-233	
3	Chromosomal and extrachromosomal control of senescence in the ascomycete Podospora anserina. *Molecular Genetics and Genomics*, **1979**, 173, 71-84	78
2	Evidence for plasmid like DNA in a filamentous fungus, the ascomycete Podospora anserina. *Molecular Genetics and Genomics*, **1978**, 162, 341-3	159
1	Inhibitors of mitochondrial function prevent senescence in the ascomycete Podosprora anserina. *Molecular Genetics and Genomics*, **1977**, 153, 111-3	46