

# Benjamin A Horwitz

## List of Publications by Year in descending order

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82  
papers

6,041  
citations

94433

37  
h-index

74163

75  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trichoderma: the genomics of opportunistic success. <i>Nature Reviews Microbiology</i> , 2011, 9, 749-759.	28.6	814
2	Diverse Lifestyles and Strategies of Plant Pathogenesis Encoded in the Genomes of Eighteen Dothideomycetes Fungi. <i>PLoS Pathogens</i> , 2012, 8, e1003037.	4.7	595
3	Comparative genome sequence analysis underscores mycoparasitism as the ancestral life style of Trichoderma. <i>Genome Biology</i> , 2011, 12, R40.	8.8	594
4	Trichoderma Research in the Genome Era. <i>Annual Review of Phytopathology</i> , 2013, 51, 105-129.	7.8	370
5	Secondary metabolism in Trichoderma – a genomic perspective. <i>Microbiology (United Kingdom)</i> , 2012, 158, 35-45.	1.8	288
6	Molecular dialogues between Trichoderma and roots: Role of the fungal secretome. <i>Fungal Biology Reviews</i> , 2018, 32, 62-85.	4.7	183
7	Trichoderma-Plant Pathogen Interactions: Advances in Genetics of Biological Control. <i>Indian Journal of Microbiology</i> , 2012, 52, 522-529.	2.7	173
8	Plant phenolic compounds and oxidative stress: integrated signals in fungal-plant interactions. <i>Current Genetics</i> , 2015, 61, 347-357.	1.7	152
9	A G Protein Alpha Subunit from <i>Cochliobolus heterostrophus</i> Involved in Mating and Appressorium Formation. <i>Fungal Genetics and Biology</i> , 1999, 26, 19-32.	2.1	146
10	Trichoderma atroviride G-Protein $\beta$ -Subunit Gene tga1 Is Involved in Mycoparasitic Coiling and Conidiation. <i>Eukaryotic Cell</i> , 2002, 1, 594-605.	3.4	139
11	TmkA, a Mitogen-Activated Protein Kinase of <i>Trichoderma virens</i> , Is Involved in Biocontrol Properties and Repression of Conidiation in the Dark. <i>Eukaryotic Cell</i> , 2003, 2, 446-455.	3.4	131
12	Melanin Biosynthesis in the Maize Pathogen <i>Cochliobolus heterostrophus</i> Depends on Two Mitogen-Activated Protein Kinases, Chk1 and Mps1, and the Transcription Factor Cmr1. <i>Eukaryotic Cell</i> , 2007, 6, 421-429.	3.4	130
13	Looking through the eyes of fungi: molecular genetics of photoreception. <i>Molecular Microbiology</i> , 2007, 64, 5-15.	2.5	123
14	Trichoderma Mitogen-Activated Protein Kinase Signaling Is Involved in Induction of Plant Systemic Resistance. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6241-6246.	3.1	107
15	Secretome of Trichoderma Interacting With Maize Roots: Role in Induced Systemic Resistance*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1054-1063.	3.8	95
16	Activation of an AP1-Like Transcription Factor of the Maize Pathogen <i>Cochliobolus heterostrophus</i> in Response to Oxidative Stress and Plant Signals. <i>Eukaryotic Cell</i> , 2005, 4, 443-454.	3.4	94
17	Rapid Blue Light Regulation of a <i>Trichoderma harzianum</i> Photolyase Gene. <i>Journal of Biological Chemistry</i> , 1999, 274, 14288-14294.	3.4	79
18	Trichoderma atroviride PHR1, a Fungal Photolyase Responsible for DNA Repair, Autoregulates Its Own Photoinduction. <i>Eukaryotic Cell</i> , 2007, 6, 1682-1692.	3.4	79

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19	Sm2, a paralog of the <i>Trichoderma cerato-platanin</i> elicitor Sm1, is also highly important for plant protection conferred by the fungal-root interaction of <i>Trichoderma</i> with maize. <i>BMC Microbiology</i> , 2015, 15, 2.	3.3	79
20	Role of Two G-Protein Alpha Subunits, TgaA and TgaB, in the Antagonism of Plant Pathogens by <i>Trichoderma virens</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 542-549.	3.1	78
21	Host-specific transcriptomic pattern of <i>Trichoderma virens</i> during interaction with maize or tomato roots. <i>BMC Genomics</i> , 2015, 16, 8.	2.8	76
22	Overlapping and distinct functions of two <i>Trichoderma virens</i> MAP kinases in cell-wall integrity, antagonistic properties and repression of conidiation. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 765-770.	2.1	75
23	A Mitogen-Activated Protein Kinase Pathway Modulates the Expression of Two Cellulase Genes in <i>Cochliobolus heterostrophus</i> during Plant Infection. <i>Plant Cell</i> , 2003, 15, 835-844.	6.6	72
24	Infection stages of the dermatophyte pathogen <i>Trichophyton</i> : microscopic characterization and proteolytic enzymes. <i>Medical Mycology</i> , 2007, 45, 149-155.	0.7	71
25	Mycoparasitism as a mechanism of <i>Trichoderma</i> -mediated suppression of plant diseases. <i>Fungal Biology Reviews</i> , 2022, 39, 15-33.	4.7	68
26	A secondary metabolite biosynthesis cluster in <i>Trichoderma virens</i> : evidence from analysis of genes underexpressed in a mutant defective in morphogenesis and antibiotic production. <i>Current Genetics</i> , 2006, 50, 193-202.	1.7	65
27	Distinct and Combined Roles of the MAP Kinases of <i>Cochliobolus heterostrophus</i> in Virulence and Stress Responses. <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 769-780.	2.6	64
28	PacC and pH-dependent transcriptome of the mycotrophic fungus <i>Trichoderma virens</i> . <i>BMC Genomics</i> , 2013, 14, 138.	2.8	63
29	Light Effects on Several Chloroplast Components in Norflurazon-Treated Pea Seedlings. <i>Plant Physiology</i> , 1988, 88, 340-347.	4.8	53
30	Phytochrome Regulation of Greening in <i>Pisum</i> . <i>Plant Physiology</i> , 1988, 86, 299-305.	4.8	52
31	Markers for Host-Induced Gene Expression in <i>Trichophyton</i> Dermatophytosis. <i>Infection and Immunity</i> , 2005, 73, 6584-6590.	2.2	45
32	G-Protein $\beta^2$ Subunit of <i>Cochliobolus heterostrophus</i> Involved in Virulence, Asexual and Sexual Reproductive Ability, and Morphogenesis. <i>Eukaryotic Cell</i> , 2004, 3, 1653-1663.	3.4	44
33	Histidine Kinase Two-Component Response Regulator Proteins Regulate Reproductive Development, Virulence, and Stress Responses of the Fungal Cereal Pathogens <i>Cochliobolus heterostrophus</i> and <i>Gibberella zeae</i> . <i>Eukaryotic Cell</i> , 2010, 9, 1867-1880.	3.4	44
34	G protein activators and cAMP promote mycoparasitic behaviour in <i>Trichoderma harzianum</i> . <i>Mycological Research</i> , 1999, 103, 1637-1642.	2.5	43
35	Characterization of Blue-light and Developmental Regulation of the Photolyase gene <i>phr1</i> in <i>Trichoderma harzianum</i> . <i>Photochemistry and Photobiology</i> , 2000, 71, 662.	2.5	41
36	A paralog of the proteinaceous elicitor SM1 is involved in colonization of maize roots by <i>Trichoderma virens</i> . <i>Fungal Biology</i> , 2015, 119, 476-486.	2.5	41

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37	Expression and purification of biologically active <i>Trichoderma virens</i> proteinaceous elicitor Sm1 in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2010, 72, 131-138.	1.3	40
38	Mycoparasitism. , 0, , 676-693.		38
39	Genomics-Driven Discovery of the Gliovirin Biosynthesis Gene Cluster in the Plant Beneficial Fungus <i>Trichoderma Virens</i> . <i>ChemistrySelect</i> , 2017, 2, 3347-3352.	1.5	32
40	INDUCTION OF <i>Trichoderma</i> SPORULATION BY NANOSECOND LASER PULSES: EVIDENCE AGAINST CRYPTOCHROME CYCLING. <i>Photochemistry and Photobiology</i> , 1990, 51, 99-104.	2.5	31
41	The fungal pathogen <i>Cochliobolus heterostrophus</i> responds to maize phenolics: novel small molecule signals in a plant-fungal interaction. <i>Cellular Microbiology</i> , 2010, 12, 1421-1434.	2.1	31
42	Green fluorescent protein (GFP) as a vital marker for pathogenic development of the dermatophyte <i>Trichophyton mentagrophytes</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 2785-2790.	1.8	28
43	Frequency-dependent photoacoustic signals from leaves and their relation to photosynthesis. <i>FEBS Letters</i> , 1981, 129, 44-46.	2.8	27
44	Host Physiology and Pathogenic Variation of <i>Cochliobolus heterostrophus</i> Strains with Mutations in the G Protein Alpha Subunit, CGA1. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5005-5009.	3.1	26
45	Phytochrome regulation of greening in wild type and long-hypocotyl mutants of <i>Arabidopsis thaliana</i> . <i>Planta</i> , 1990, 181, 234-238.	3.2	23
46	Synthetic cells with self-activating optogenetic proteins communicate with natural cells. <i>Nature Communications</i> , 2022, 13, 2328.	12.8	23
47	Structure-Activity Relationships Delineate How the Maize Pathogen <i>Cochliobolus heterostrophus</i> Uses Aromatic Compounds as Signals and Metabolites. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 931-940.	2.6	22
48	Targeting the Calcineurin Pathway Enhances Ergosterol Biosynthesis Inhibitors against <i>Trichophyton mentagrophytes</i> In Vitro and in a Human Skin Infection Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3743-3746.	3.2	21
49	Iron, Oxidative Stress, and Virulence: Roles of Iron-Sensitive Transcription Factor Sre1 and the Redox Sensor ChAp1 in the Maize Pathogen <i>Cochliobolus heterostrophus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 1473-1485.	2.6	21
50	Altered Phytochrome Regulation of Greening in an aurea Mutant of Tomato. <i>Plant Physiology</i> , 1990, 92, 1004-1008.	4.8	19
51	Photoreactivation of UV-Inactivated Spores of <i>Trichoderma harzianum</i> . <i>Photochemistry and Photobiology</i> , 1997, 65, 849-854.	2.5	18
52	Developmental Regulation of <i>cmp1</i> , a Gene Encoding a Multidomain Conidiospore Surface Protein of <i>Trichoderma</i> . <i>Fungal Genetics and Biology</i> , 1999, 27, 88-99.	2.1	17
53	Elevated Riboflavin Requirement for Postphotoinductive Events in Sporulation of a <i>Trichoderma</i> Auxotroph. <i>Plant Physiology</i> , 1983, 71, 200-204.	4.8	16
54	Oxidant-Sensing Pathways in the Responses of Fungal Pathogens to Chemical Stress Signals. <i>Frontiers in Microbiology</i> , 2019, 10, 567.	3.5	16

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55	Role of the transcription factor <i>ChAP1</i> in cytoplasmic redox homeostasis: imaging with a genetically encoded sensor in the maize pathogen <i>Cochliobolus heterostrophus</i> . <i>Molecular Plant Pathology</i> , 2013, 14, 786-790.	4.2	15
56	Regulation of conidiation and antagonistic properties of the soil-borne plant beneficial fungus <i>Trichoderma virens</i> by a novel proline-, glycine-, tyrosine-rich protein and a GPI-anchored cell wall protein. <i>Current Genetics</i> , 2019, 65, 953-964.	1.7	15
57	ROSEOFILAVIN INHIBITION OF PHOTOCONIDIATION IN A <i>Trichoderma</i> RIBOFLAVIN AUXOTROPH: INDIRECT EVIDENCE FOR FLAVIN REQUIREMENT for PHOTOREACTIONS. <i>Photochemistry and Photobiology</i> , 1984, 40, 763-770.	2.5	14
58	Plant phenolic acids induce programmed cell death of a fungal pathogen: MAPK signaling and survival of <i>Cochliobolus heterostrophus</i> . <i>Environmental Microbiology</i> , 2016, 18, 4188-4199.	3.8	12
59	Secretome Analysis of <i>Arabidopsis</i> – <i>Trichoderma atroviride</i> Interaction Unveils New Roles for the Plant Glutamate:Glyoxylate Aminotransferase GGAT1 in Plant Growth Induced by the Fungus and Resistance against <i>Botrytis cinerea</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6804.	4.1	12
60	DIFFERENTIAL SPECTROPHOTOMETRY OF <i>Phycomyces</i> MUTANTS WITH ABNORMAL PHOTORESPONSES. <i>Photochemistry and Photobiology</i> , 1986, 44, 207-214.	2.5	11
61	RHYTHMS IN BLUE-LIGHT-INDUCED CONIDIATION OF WILD TYPE AND A MUTANT STRAIN OF <i>Trichoderma harzianum</i> . <i>Photochemistry and Photobiology</i> , 1988, 47, 425-431.	2.5	10
62	Light-induced absorbance changes in extracts of <i>Phycomyces</i> sporangiophores: Modifications in night-blind mutants. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1988, 1, 305-313.	3.8	10
63	Preliminary study of activity of the thioredoxin inhibitor pleurotin against <i>Trichophyton mentagrophytes</i> : a novel anti-dermatophyte possibility. <i>Mycoses</i> , 2009, 52, 313-317.	4.0	10
64	Genetic interaction of the stress response factors <i>ChAP1</i> and <i>Skn7</i> in the maize pathogen <i>Cochliobolus heterostrophus</i> . <i>FEMS Microbiology Letters</i> , 2014, 350, 83-89.	1.8	10
65	Modified Light-Induced Absorbance Changes in $\Delta Y$ Photoresponse Mutants of <i>Trichoderma</i> . <i>Plant Physiology</i> , 1986, 81, 726-730.	4.8	9
66	MRSP1, encoding a novel <i>Trichoderma</i> secreted protein, is negatively regulated by MAPK. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 716-722.	2.1	8
67	Properties and working mechanisms of the photoreceptors. , 1986, , 159-183.		8
68	Signaling by the Pathogenicity-Related MAP Kinase of <i>Cochliobolus heterostrophus</i> Correlates With Its Local Accumulation Rather Than Phosphorylation. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 1093-1103.	2.6	7
69	Deletion of the <i>Trichoderma virens</i> NRPS, <i>Tex7</i> , induces accumulation of the anti-cancer compound heptelidic acid. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 672-677.	2.1	7
70	Developmental Roles of the Hog1 Protein Phosphatases of the Maize Pathogen <i>Cochliobolus heterostrophus</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 83.	3.5	7
71	Changes in synthesis and abundance of specific polypeptides at early and late stages of blue-light-induced sporulation of <i>Trichoderma</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991, 11, 117-127.	3.8	6
72	Photocontrol of the Accumulation of Plastid Polypeptides during Greening of Tomato Cotyledons. <i>Plant Physiology</i> , 1992, 100, 1934-1939.	4.8	6

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73	Adhesion as a Focus in Trichoderma-Plant Root Interactions. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 372.	3.5	6
74	The AP-1-like transcription factor ChAP1 balances tolerance and cell death in the response of the maize pathogen <i>Cochliobolus heterostrophus</i> to a plant phenolic. <i>Current Genetics</i> , 2020, 66, 187-203.	1.7	5
75	Ferulic acid, an abundant maize phenolic, regulates ABC and MFS transporter gene expression in the maize pathogen <i>Cochliobolus heterostrophus</i> . <i>Journal of Plant Diseases and Protection</i> , 2021, 128, 1383-1391.	2.9	3
76	<i>Cochliobolus heterostrophus</i> : A Dothideomycete Pathogen of Maize. <i>Soil Biology</i> , 2013, , 213-228.	0.8	3
77	In vivo absorption spectra of <i>Neurospora crassa</i> white collar photomutants. <i>Experimental Mycology</i> , 1987, 11, 74-76.	1.6	2
78	Identification of Differentially Expressed Fungal Genes In Planta by Suppression Subtraction Hybridization. <i>Methods in Molecular Biology</i> , 2010, 638, 115-123.	0.9	2
79	Editorial: Molecular Intricacies of Trichoderma-Plant-Pathogen Interactions. <i>Frontiers in Fungal Biology</i> , 2022, 3, .	2.0	2
80	Characterization of Blue-light and Developmental Regulation of the Photolyase gene <i>phr1</i> in <i>Trichoderma harzianum</i> . <i>Photochemistry and Photobiology</i> , 2007, 71, 662-668.	2.5	1
81	A FIBER-OPTIC RATIO FLUOROMETER FOR MUTANT ISOLATION. <i>Photochemistry and Photobiology</i> , 1992, 56, 417-420.	2.5	0
82	Can We Define an Experimental Framework to Approach the Genetic Basis of Root Colonization?. <i>Rhizosphere Biology</i> , 2020, , 1-17.	0.6	0