Chaoyang Xue

List of Publications by Year
in descending order

53 papers	3,398 citations	186265 28 h-index	182427 51 g-index
54 all docs	54 docs citations	54 times ranked	3079 citing authors

#	Article	IF	Citations
1	A Mitogen-Activated Protein Kinase Gene (MGV1) in Fusarium graminearum Is Required for Female Fertility, Heterokaryon Formation, and Plant Infection. Molecular Plant-Microbe Interactions, 2002, 15, 1119-1127.	2.6	442
2	Sensing the environment: lessons from fungi. Nature Reviews Microbiology, 2007, 5, 57-69.	28.6	331
3	MST12 Regulates Infectious Growth But Not Appressorium Formation in the Rice Blast Fungus Magnaporthe grisea. Molecular Plant-Microbe Interactions, 2002, 15, 183-192.	2.6	194
4	The Human Fungal Pathogen Cryptococcus Can Complete Its Sexual Cycle during a Pathogenic Association with Plants. Cell Host and Microbe, 2007, 1, 263-273.	11.0	175
5	Magnificent seven: roles of G protein-coupled receptors in extracellular sensing in fungi. FEMS Microbiology Reviews, 2008, 32, 1010-1032.	8.6	165
6	Two Novel Fungal Virulence Genes Specifically Expressed in Appressoria of the Rice Blast Fungus. Plant Cell, 2002, 14, 2107-2119.	6.6	161
7	Multiple Upstream Signals Converge on the Adaptor Protein Mst50 in Magnaporthe grisea. Plant Cell, 2006, 18, 2822-2835.	6.6	147
8	G Protein-coupled Receptor Gpr4 Senses Amino Acids and Activates the cAMP-PKA Pathway inCryptococcus neoformans. Molecular Biology of the Cell, 2006, 17, 667-679.	2.1	144
9	Transcription Factors Mat2 and Znf2 Operate Cellular Circuits Orchestrating Opposite- and Same-Sex Mating in Cryptococcus neoformans. PLoS Genetics, 2010, 6, e1000953.	3.5	111
10	Cryptococcal Titan Cell Formation Is Regulated by G-Protein Signaling in Response to Multiple Stimuli. Eukaryotic Cell, 2011, 10, 1306-1316.	3.4	105
11	Molecular mechanisms of cryptococcal meningitis. Virulence, 2012, 3, 173-181.	4.4	105
12	Two PAK Kinase Genes, CHM1 and MST20, Have Distinct Functions in Magnaporthe grisea. Molecular Plant-Microbe Interactions, 2004, 17, 547-556.	2.6	89
13	DNA Mutations Mediate Microevolution between Host-Adapted Forms of the Pathogenic Fungus Cryptococcus neoformans. PLoS Pathogens, 2012, 8, e1002936.	4.7	76
14	Mismatch Repair of DNA Replication Errors Contributes to Microevolution in the Pathogenic Fungus <i>Cryptococcus neoformans</i>. MBio, 2017, 8, .	4.1	76
15	Brain Inositol Is a Novel Stimulator for Promoting Cryptococcus Penetration of the Blood-Brain Barrier. PLoS Pathogens, 2013, 9, e1003247.	4.7	69
16	G protein signaling governing cell fate decisions involves opposing GÎ± subunits inCryptococcus neoformans. Molecular Biology of the Cell, 2007, 18, 3237-3249.	2.1	64
17	A constitutively active GPCR governs morphogenic transitions in Cryptococcus neoformans. EMBO Journal, 2009, 28, 1220-1233.	7.8	63
18	Role of an Expanded Inositol Transporter Repertoire in Cryptococcus neoformans Sexual Reproduction and Virulence. MBio, 2010, 1, .	4.1	61

#	Article	IF	Citations
19	The F-Box Protein Fbp1 Regulates Sexual Reproduction and Virulence in Cryptococcus neoformans. Eukaryotic Cell, 2011, 10, 791-802.	3.4	61
20	Lipid Flippase Subunit Cdc50 Mediates Drug Resistance and Virulence in Cryptococcus neoformans. MBio, 2016, 7, .	4.1	60
21	The Ubiquitin-Proteasome System and F-box Proteins in Pathogenic Fungi. Mycobiology, 2011, 39, 243-248.	1.7	56
22	Fbp1-Mediated Ubiquitin-Proteasome Pathway Controls Cryptococcus neoformans Virulence by Regulating Fungal Intracellular Growth in Macrophages. Infection and Immunity, 2014, 82, 557-568.	2.2	56
23	The RGS protein Crg2 regulates both pheromone and cAMP signalling in <i>Cryptococcus neoformans</i>. Molecular Microbiology, 2008, 70, 379-395.	2.5	53
24	Bypassing Both Surface Attachment and Surface Recognition Requirements for Appressorium Formation by Overactive Ras Signaling in <i>Magnaporthe oryzae</i>. Molecular Plant-Microbe Interactions, 2014, 27, 996-1004.	2.6	41
25	Nutrient and Stress Sensing in Pathogenic Yeasts. Frontiers in Microbiology, 2019, 10, 442.	3.5	41
26	Identification of Pathogen Genomic Differences That Impact Human Immune Response and Disease during Cryptococcus neoformans Infection. MBio, 2019, 10, .	4.1	39
27	A Heat-Killed <i>Cryptococcus</i> Mutant Strain Induces Host Protection against Multiple Invasive Mycoses in a Murine Vaccine Model. MBio, 2019, 10, .	4.1	36
28	A Pmk1-Interacting Gene Is Involved in Appressorium Differentiation and Plant Infection in <i>Magnaporthe oryzae</i>. Eukaryotic Cell, 2011, 10, 1062-1070.	3.4	31
29	Two Major Inositol Transporters and Their Role in Cryptococcal Virulence. Eukaryotic Cell, 2011, 10, 618-628.	3.4	31
30	Cryptococcus and Beyondâ€"Inositol Utilization and Its Implications for the Emergence of Fungal Virulence. PLoS Pathogens, 2012, 8, e1002869.	4.7	29
31	The F-Box Protein Fbp1 Shapes the Immunogenic Potential of Cryptococcus neoformans. MBio, 2018, 9, .	4.1	28
32	A Mechanosensitive Channel Governs Lipid Flippase-Mediated Echinocandin Resistance in Cryptococcus neoformans. MBio, 2019, 10, .	4.1	28
33	Activation of Meiotic Genes Mediates Ploidy Reduction during Cryptococcal Infection. Current Biology, 2020, 30, 1387-1396.e5.	3.9	27
34	Nutrient Sensing at the Plasma Membrane of Fungal Cells. Microbiology Spectrum, 2017, 5, .	3.0	24
35	Cryptococcus inositol utilization modulates the host protective immune response during brain infection. Cell Communication and Signaling, 2014, 12, 51.	6.5	23
36	The Casein Kinase I Protein Cck1 Regulates Multiple Signaling Pathways and Is Essential for Cell Integrity and Fungal Virulence in Cryptococcus neoformans. Eukaryotic Cell, 2011, 10, 1455-1464.	3.4	19

#	Article	IF	Citations
37	The Glucose Sensor-Like Protein Hxs1 Is a High-Affinity Glucose Transporter and Required for Virulence in Cryptococcus neoformans. PLoS ONE, 2013, 8, e64239.	2.5	18
38	More Than Just Cleaning: Ubiquitin-Mediated Proteolysis in Fungal Pathogenesis. Frontiers in Cellular and Infection Microbiology, 2021, 11, 774613.	3.9	15
39	Phosphatidylserine synthesis is essential for viability of the human fungal pathogen Cryptococcus neoformans. Journal of Biological Chemistry, 2019, 294, 2329-2339.	3.4	14
40	Time for a blast: genomics ofMagnaporthe grisea. Molecular Plant Pathology, 2002, 3, 173-176.	4.2	11
41	Crystal structure of Gib2, a signal-transducing protein scaffold associated with ribosomes in Cryptococcus neoformans. Scientific Reports, 2015, 5, 8688.	3.3	11
42	A spontaneous mutation in DNA polymerase POL3 during in vitro passaging causes a hypermutator phenotype in Cryptococcus species. DNA Repair, 2020, 86, 102751.	2.8	10
43	Inositol Metabolism Regulates Capsule Structure and Virulence in the Human Pathogen Cryptococcus neoformans. MBio, 2021, 12, e0279021.	4.1	10
44	Macrophage Mediated Immunomodulation During Cryptococcus Pulmonary Infection. Frontiers in Cellular and Infection Microbiology, 2022, 12, 859049.	3.9	10
45	Cryptococcus flips its lid - membrane phospholipid asymmetry modulates antifungal drug resistance and virulence. Microbial Cell, 2016, 3, 358-360.	3.2	7
46	More than flipping the lid: Cdc50 contributes to echinocandin resistance by regulating calcium homeostasis in Cryptococcus neoformans. Microbial Cell, 2020, 7, 115-118.	3.2	6
47	Finding the Sweet Spot: How Human Fungal Pathogens Acquire and Turn the Sugar Inositol against Their Hosts. MBio, 2015, 6, e00109.	4.1	5
48	Role of the inositol pyrophosphate multikinase Kcs1 in Cryptococcus inositol metabolism. Fungal Genetics and Biology, 2018, 113, 42-51.	2.1	5
49	Development of Antifungal Peptides against Cryptococcus neoformans; Leveraging Knowledge about the <i>cdc50Î”</i> Mutant Susceptibility for Lead Compound Development. Microbiology Spectrum, 2022, 10, e0043922.	3.0	5
50	Characterization and Complete Nucleotide Sequence of Two Isolates of <i>Tomato mosaic virus</i>. Journal of Phytopathology, 2012, 160, 115-119.	1.0	4
51	Nutrient Sensing at the Plasma Membrane of Fungal Cells. , 2017, , 417-439.		4
52	Assessment of Constitutive Activity of a G Protein-Coupled Receptor, Cpr2, in Cryptococcus neoformans by Heterologous and Homologous Methods. Methods in Enzymology, 2010, 484, 397-412.	1.0	2
53	How Fungi Sense Sugars, Alcohols, and Amino Acids. , 2014, , 467-479.		0