

# Praveen R Juvvadi

## List of Publications by Year in descending order

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84  
papers

4,594  
citations

109321

35  
h-index

102487

66  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3986  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequencing and analysis of <i>Aspergillus oryzae</i> . <i>Nature</i> , 2005, 438, 1157-1161.	27.8	1,128
2	<i>Aspergillus fumigatus</i> and Related Species. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a019786-a019786.	6.2	180
3	Development of a novel quadruple auxotrophic host transformation system by argB gene disruption using adeA gene and exploiting adenine auxotrophy in <i>Aspergillus oryzae</i> . <i>FEMS Microbiology Letters</i> , 2004, 239, 79-85.	1.8	172
4	Genomics of <i>Aspergillus oryzae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 646-670.	1.3	163
5	Transcriptional Regulation of Chitin Synthases by Calcineurin Controls Paradoxical Growth of <i>Aspergillus fumigatus</i> in Response to Caspofungin. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 1555-1563.	3.2	146
6	Differential Effects of Inhibiting Chitin and 1,3-β-D-Glucan Synthesis in Ras and Calcineurin Mutants of <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 476-482.	3.2	132
7	Calcineurin in fungal virulence and drug resistance: Prospects for harnessing targeted inhibition of calcineurin for an antifungal therapeutic approach. <i>Virulence</i> , 2017, 8, 186-197.	4.4	130
8	Heat Shock Protein 90 Is Required for Conidiation and Cell Wall Integrity in <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , 2012, 11, 1324-1332.	3.4	122
9	Calcineurin as a multifunctional regulator: Unraveling novel functions in fungal stress responses, hyphal growth, drug resistance, and pathogenesis. <i>Fungal Biology Reviews</i> , 2014, 28, 56-69.	4.7	113
10	Discovery of a novel superfamily of type III polyketide synthases in <i>Aspergillus oryzae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 253-260.	2.1	104
11	Localization and activity of the calcineurin catalytic and regulatory subunit complex at the septum is essential for hyphal elongation and proper septation in <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2011, 82, 1235-1259.	2.5	82
12	Harnessing calcineurin-FK506-FKBP12 crystal structures from invasive fungal pathogens to develop antifungal agents. <i>Nature Communications</i> , 2019, 10, 4275.	12.8	80
13	In Vitro Activity of Calcineurin and Heat Shock Protein 90 Inhibitors against <i>Aspergillus fumigatus</i> Azole- and Echinocandin-Resistant Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1035-1039.	3.2	74
14	Analysis of Expressed Sequence Tags from the Fungus <i>Aspergillus oryzae</i> Cultured Under Different Conditions. <i>DNA Research</i> , 2007, 14, 47-57.	3.4	73
15	Adenine Auxotrophic Mutants of <i>Aspergillus oryzae</i> : Development of a Novel Transformation System with Triple Auxotrophic Hosts. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 656-662.	1.3	72
16	Identification of a Key Lysine Residue in Heat Shock Protein 90 Required for Azole and Echinocandin Resistance in <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1889-1896.	3.2	68
17	Three-dimensional image analysis of plugging at the septal pore by Woronin body during hypotonic shock inducing hyphal tip bursting in the filamentous fungus <i>Aspergillus oryzae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 1081-1088.	2.1	66
18	Double disruption of the proteinase genes, <i>tpaA</i> and <i>pepE</i> , increases the production level of human lysozyme by <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1059-1068.	3.6	65

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19	Scanning Quadrupole Data-Independent Acquisition, Part A: Qualitative and Quantitative Characterization. <i>Journal of Proteome Research</i> , 2018, 17, 770-779.	3.7	62
20	Histone deacetylase inhibition as an alternative strategy against invasive aspergillosis. <i>Frontiers in Microbiology</i> , 2015, 6, 96.	3.5	61
21	Disruption of the <i>Ao pex11-1</i> Gene Involved in Peroxisome Proliferation Leads to Impaired Woronin Body Formation in <i>Aspergillus oryzae</i> . <i>Eukaryotic Cell</i> , 2009, 8, 296-305.	3.4	60
22	Phosphorylation of Calcineurin at a Novel Serine-Proline Rich Region Orchestrates Hyphal Growth and Virulence in <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003564.	4.7	60
23	Transcriptional Activation of Heat Shock Protein 90 Mediated Via a Proximal Promoter Region as Trigger of Caspofungin Resistance in <i>Aspergillus fumigatus</i> . <i>Journal of Infectious Diseases</i> , 2014, 209, 473-481.	4.0	57
24	Plasma Membrane Localization Is Required for RasA-Mediated Polarized Morphogenesis and Virulence of <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , 2012, 11, 966-977.	3.4	54
25	Identification of csypyrone B1 as the novel product of <i>Aspergillus oryzae</i> type III polyketide synthase CsyB. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4542-4546.	3.0	53
26	Potential Microbiological Effects of Higher Dosing of Echinocandins. <i>Clinical Infectious Diseases</i> , 2015, 61, S669-S677.	5.8	53
27	Heat shock protein 90 (Hsp90): A novel antifungal target against <i>Aspergillus fumigatus</i> . <i>Critical Reviews in Microbiology</i> , 2014, 42, 1-12.	6.1	52
28	Functional expression of the <i>Aspergillus flavus</i> PKS-NRPS hybrid CpaA involved in the biosynthesis of cyclopiazonic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3288-3292.	2.2	50
29	Caspofungin-Mediated Growth Inhibition and Paradoxical Growth in <i>Aspergillus fumigatus</i> Involve Fungicidal Hyphal Tip Lysis Coupled with Regenerative Intrahyphal Growth and Dynamic Changes in $\beta$ -1,3-Glucan Synthase Localization. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	49
30	Functional analysis of the calcineurin-encoding gene <i>cnaA</i> from <i>Aspergillus oryzae</i> : evidence for its putative role in stress adaptation. <i>Archives of Microbiology</i> , 2003, 179, 416-422.	2.2	41
31	<i>Aspergillus fumigatus</i> Calcipressin CbpA Is Involved in Hyphal Growth and Calcium Homeostasis. <i>Eukaryotic Cell</i> , 2009, 8, 511-519.	3.4	41
32	The <i>Aspergillus fumigatus</i> P-Type Golgi Apparatus $Ca^{2+}/Mn^{2+}$ ATPase PmrA Is Involved in Cation Homeostasis and Cell Wall Integrity but Is Not Essential for Pathogenesis. <i>Eukaryotic Cell</i> , 2010, 9, 472-476.	3.4	41
33	Regulation of expression, activity and localization of fungal chitin synthases. <i>Medical Mycology</i> , 2012, 50, 2-17.	0.7	41
34	<i>Aspergillus oryzae</i> type III polyketide synthase CsyA is involved in the biosynthesis of 3,5-dihydroxybenzoic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 4785-4788.	2.2	40
35	Calcineurin Localizes to the Hyphal Septum in <i>Aspergillus fumigatus</i> : Implications for Septum Formation and Conidiophore Development. <i>Eukaryotic Cell</i> , 2008, 7, 1606-1610.	3.4	39
36	Calcium-Mediated Induction of Paradoxical Growth following Caspofungin Treatment Is Associated with Calcineurin Activation and Phosphorylation in <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 4946-4955.	3.2	39

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37	Functional heterogeneity of alveolar macrophage population based on expression of CXCL2. <i>Science Immunology</i> , 2020, 5, .	11.9	39
38	Antifungal activity of compounds targeting the Hsp90-calcineurin pathway against various mould species. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 1408-1411.	3.0	37
39	Calcineurin-Mediated Regulation of Hyphal Growth, Septation, and Virulence in <i>Aspergillus fumigatus</i> . <i>Mycopathologia</i> , 2014, 178, 341-348.	3.1	35
40	The <i>Aspergillus fumigatus</i> septins play pleiotropic roles in septation, conidiation, and cell wall stress, but are dispensable for virulence. <i>Fungal Genetics and Biology</i> , 2015, 81, 41-51.	2.1	35
41	Structures of Pathogenic Fungal FKBP12s Reveal Possible Self-Catalysis Function. <i>MBio</i> , 2016, 7, e00492-16.	4.1	29
42	Distinct Roles of Myosins in <i>Aspergillus fumigatus</i> Hyphal Growth and Pathogenesis. <i>Infection and Immunity</i> , 2016, 84, 1556-1564.	2.2	29
43	Newer combination antifungal therapies for invasive aspergillosis. <i>Medical Mycology</i> , 2011, 49, S77-S81.	0.7	27
44	Hsp70 and the Cochaperone StiA (Hop) Orchestrate Hsp90-Mediated Caspofungin Tolerance in <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 4727-4733.	3.2	25
45	Genomic evidences for the existence of a phenylpropanoid metabolic pathway in <i>Aspergillus oryzae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 747-751.	2.1	24
46	Calcineurin Orchestrates Hyphal Growth, Septation, Drug Resistance and Pathogenesis of <i>Aspergillus fumigatus</i> : Where Do We Go from Here?. <i>Pathogens</i> , 2015, 4, 883-893.	2.8	24
47	Phosphorylation of the <i>Aspergillus oryzae</i> Woronin body protein, AoHex1, by protein kinase C: evidence for its role in the multimerization and proper localization of the Woronin body protein. <i>Biochemical Journal</i> , 2007, 405, 533-540.	3.7	23
48	Calmodulin mediated activation of acetyl-CoA carboxylase during aflatoxin production by <i>Aspergillus parasiticus</i> . <i>Letters in Applied Microbiology</i> , 2000, 30, 277-281.	2.2	22
49	Filamentous fungal-specific septin AspE is phosphorylated in vivo and interacts with actin, tubulin and other septins in the human pathogen <i>Aspergillus fumigatus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 547-553.	2.1	22
50	Visualizing Nuclear Migration during Conidiophore Development in <i>Aspergillus nidulans</i> and <i>Aspergillus oryzae</i> : Multinucleation of Conidia Occurs through Direct Migration of Plural Nuclei from Phialides and Confers Greater Viability and Early Germination in <i>Aspergillus oryzae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 747-754.	1.3	21
51	The chitin synthase genes <i>chsA</i> and <i>chsC</i> are not required for cell wall stress responses in the human pathogen <i>Aspergillus fumigatus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 549-554.	2.1	21
52	Characterization of the FKBP12-Encoding Genes in <i>Aspergillus fumigatus</i> . <i>PLoS ONE</i> , 2015, 10, e0137869.	2.5	20
53	Differential localization patterns of septins during growth of the human fungal pathogen <i>Aspergillus fumigatus</i> reveal novel functions. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 238-243.	2.1	19
54	Regulatable Ras Activity Is Critical for Proper Establishment and Maintenance of Polarity in <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , 2011, 10, 611-615.	3.4	19

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55	Dephosphorylation of the Core Septin, AspB, in a Protein Phosphatase 2A-Dependent Manner Impacts Its Localization and Function in the Fungal Pathogen <i>Aspergillus fumigatus</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 997.	3.5	17
56	Scanning Quadrupole Data-Independent Acquisition, Part B: Application to the Analysis of the Calcineurin-Interacting Proteins during Treatment of <i>Aspergillus fumigatus</i> with Azole and Echinocandin Antifungal Drugs. <i>Journal of Proteome Research</i> , 2018, 17, 780-793.	3.7	17
57	Calcineurin-dependent dephosphorylation of the transcription factor CrzA at specific sites controls conidiation, stress tolerance, and virulence of <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2019, 112, 62-80.	2.5	17
58	Putative Calmodulin-Binding Domains in Aflatoxin Biosynthesis Regulatory Proteins. <i>Current Microbiology</i> , 2006, 52, 493-496.	2.2	15
59	Calmodulin-dependent protein phosphorylation during conidial germination and growth of <i>Neurospora crassa</i> . <i>Mycological Research</i> , 1997, 101, 1484-1488.	2.5	14
60	Requirement of Ca <sup>2+</sup> for aflatoxin production: inhibitory effect of Ca <sup>2+</sup> channel blockers on aflatoxin production by <i>Aspergillus parasiticus</i> NRRL 2999. <i>Letters in Applied Microbiology</i> , 1999, 28, 85-88.	2.2	14
61	Identification and mutational analyses of phosphorylation sites of the calcineurin-binding protein CbpA and the identification of domains required for calcineurin binding in <i>Aspergillus fumigatus</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 175.	3.5	14
62	<i>Aspergillus fumigatus</i> Cyp51A and Cyp51B Proteins Are Compensatory in Function and Localize Differentially in Response to Antifungals and Cell Wall Inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	14
63	Leveraging Fungal and Human Calcineurin-Inhibitor Structures, Biophysical Data, and Dynamics To Design Selective and Nonimmunosuppressive FK506 Analogs. <i>MBio</i> , 2021, 12, e0300021.	4.1	14
64	Cloning and sequence analysis of cnaA gene encoding the catalytic subunit of calcineurin from <i>Aspergillus oryzae</i> . <i>FEMS Microbiology Letters</i> , 2001, 204, 169-174.	1.8	12
65	Development of a Modified Positive Selection Medium That Allows to Isolate <i>Aspergillus oryzae</i> Strains Cured of the Integrated <i>niaD</i> -Based Plasmid. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 2463-2465.	1.3	11
66	Cloning and characterization of vmaA, the gene encoding a 69-kDa catalytic subunit of the vacuolar H <sup>+</sup> -ATPase during alkaline pH mediated growth of <i>Aspergillus oryzae</i> . <i>FEMS Microbiology Letters</i> , 2002, 209, 277-282.	1.8	10
67	Novel motif in calcineurin catalytic subunit is required for septal localization of calcineurin in <i>Aspergillus fumigatus</i> . <i>FEBS Letters</i> , 2016, 590, 501-508.	2.8	9
68	A Novel Phosphoregulatory Switch Controls the Activity and Function of the Major Catalytic Subunit of Protein Kinase A in <i>Aspergillus fumigatus</i> . <i>MBio</i> , 2017, 8, .	4.1	9
69	Heat Shock Protein 90 (Hsp90) in Fungal Growth and Pathogenesis. <i>Current Fungal Infection Reports</i> , 2014, 8, 296-301.	2.6	8
70	Structure-Guided Synthesis of FK506 and FK520 Analogs with Increased Selectivity Exhibit In Vivo Therapeutic Efficacy against <i>Cryptococcus</i> . <i>MBio</i> , 2022, 13, .	4.1	8
71	Kin1 kinase localizes at the hyphal septum and is dephosphorylated by calcineurin but is dispensable for septation and virulence in the human pathogen <i>Aspergillus fumigatus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 740-746.	2.1	6
72	Identification and characterization of mutation in the RNase T1 expression-sensitive strain of : Evidence for altered ambient response resulting in transportation of the secretory protein to vacuoles. <i>FEMS Yeast Research</i> , 2005, 5, 801-812.	2.3	5

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73	Editorial: Advances in <i>Aspergillus fumigatus</i> Pathobiology. <i>Frontiers in Microbiology</i> , 2016, 7, 43.	3.5	5
74	Caspofungin exposure alters the core septin AspB interactome of <i>Aspergillus fumigatus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2017, 485, 221-226.	2.1	5
75	Phosphorylation of <i>Aspergillus fumigatus</i> PkaR impacts growth and cell wall integrity through novel mechanisms. <i>FEBS Letters</i> , 2017, 591, 3730-3744.	2.8	5
76	Tail domain of the <i>Aspergillus fumigatus</i> class V myosin orchestrates septal localization and hyphal growth. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	5
77	FKBP12 dimerization mutations effect FK506 binding and differentially alter calcineurin inhibition in the human pathogen <i>Aspergillus fumigatus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 48-54.	2.1	5
78	<i>In Vitro</i> Activity of APX2041, a New Gwt1 Inhibitor, and <i>In Vivo</i> Efficacy of the Prodrug APX2104 against <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0068221.	3.2	5
79	The class V myosin interactome of the human pathogen <i>Aspergillus fumigatus</i> reveals novel interactions with COPII vesicle transport proteins. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 232-237.	2.1	5
80	Forging the ring: from fungal septins' divergent roles in morphology, septation and virulence to factors contributing to their assembly into higher order structures. <i>Microbiology (United Kingdom)</i> , 2016, 162, 1527-1534.	1.8	5
81	The Protein Kinase A-Dependent Phosphoproteome of the Human Pathogen <i>Aspergillus fumigatus</i> Reveals Diverse Virulence-Associated Kinase Targets. <i>MBio</i> , 2020, 11, .	4.1	3
82	Balancing iron and calcium: Flavin carrier family proteins in <i>Aspergillus fumigatus</i> virulence. <i>Virulence</i> , 2017, 8, 621-624.	4.4	1
83	Protein Kinase A Regulates Autophagy-Associated Proteins Impacting Growth and Virulence of <i>Aspergillus fumigatus</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 354.	3.5	1
84	1614. Gwt1 Inhibitor, APX2104, Protects Against Invasive Aspergillosis in Neutropenic Mouse Model. <i>Open Forum Infectious Diseases</i> , 2020, 7, S800-S801.	0.9	0