

Vishukumar Aimanianda

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

4,143
citations

39
h-index

63
g-index

90
ext. papers

4,852
ext. citations

6.8
avg, IF

5.11
L-index

#	Paper	IF	Citations
83	Surface hydrophobin prevents immune recognition of airborne fungal spores. <i>Nature</i> , 2009 , 460, 1117-21	50.4	568
82	Production of extracellular traps against <i>Aspergillus fumigatus</i> in vitro and in infected lung tissue is dependent on invading neutrophils and influenced by hydrophobin RodA. <i>PLoS Pathogens</i> , 2010 , 6, e1000873	7.6	300
81	Hydrophobins--unique fungal proteins. <i>PLoS Pathogens</i> , 2012 , 8, e1002700	7.6	196
80	Low molecular weight chitosans--preparation by depolymerization with <i>Aspergillus niger</i> pectinase, and characterization. <i>Carbohydrate Research</i> , 2003 , 338, 1283-90	2.9	126
79	The RodA hydrophobin on <i>Aspergillus fumigatus</i> spores masks dectin-1- and dectin-2-dependent responses and enhances fungal survival in vivo. <i>Journal of Immunology</i> , 2013 , 191, 2581-8	5.3	125
78	A role for the unfolded protein response (UPR) in virulence and antifungal susceptibility in <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , 2009 , 5, e1000258	7.6	125
77	<i>Aspergillus fumigatus</i> : cell wall polysaccharides, their biosynthesis and organization. <i>Future Microbiology</i> , 2009 , 4, 583-95	2.9	124
76	Recognition of DHN-melanin by a C-type lectin receptor is required for immunity to <i>Aspergillus</i> . <i>Nature</i> , 2018 , 555, 382-386	50.4	107
75	Establishing in vitro-in vivo correlations for <i>Aspergillus fumigatus</i> : the challenge of azoles versus echinocandins. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 3504-11	5.9	93
74	Cell wall beta-(1,6)-glucan of <i>Saccharomyces cerevisiae</i> : structural characterization and in situ synthesis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 13401-13412	5.4	92
73	<i>Aspergillus</i> cell wall and biofilm. <i>Mycopathologia</i> , 2014 , 178, 371-7	2.9	88
72	Novel cellular and molecular mechanisms of induction of immune responses by aluminum adjuvants. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 287-95	13.2	85
71	Low molecular weight chitosans: preparation with the aid of papain and characterization. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004 , 1670, 137-46	4	85
70	Human circulating basophils lack the features of professional antigen presenting cells. <i>Journal of Translational Medicine</i> , 2012 , 10, P4	8.5	78
69	Chitooligosaccharides--preparation with the aid of pectinase isozyme from <i>Aspergillus niger</i> and their antibacterial activity. <i>Carbohydrate Research</i> , 2005 , 340, 1239-45	2.9	77
68	Surface structure characterization of <i>Aspergillus fumigatus</i> conidia mutated in the melanin synthesis pathway and their human cellular immune response. <i>Infection and Immunity</i> , 2014 , 82, 3141-53	3.7	76
67	Proteome profiling and functional classification of intracellular proteins from conidia of the human-pathogenic mold <i>Aspergillus fumigatus</i> . <i>Journal of Proteome Research</i> , 2010 , 9, 3427-42	5.6	76

66	HacA-independent functions of the ER stress sensor IreA synergize with the canonical UPR to influence virulence traits in <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , 2011 , 7, e1002330	7.6	75
65	Members of protein O-mannosyltransferase family in <i>Aspergillus fumigatus</i> differentially affect growth, morphogenesis and viability. <i>Molecular Microbiology</i> , 2010 , 76, 1205-21	4.1	74
64	Deciphering the role of the chitin synthase families 1 and 2 in the in vivo and in vitro growth of <i>Aspergillus fumigatus</i> by multiple gene targeting deletion. <i>Cellular Microbiology</i> , 2014 , 16, 1784-805	3.9	67
63	<i>Aspergillus fumigatus</i> devoid of cell wall β 1,3-glucan is viable, massively sheds galactomannan and is killed by septum formation inhibitors. <i>Molecular Microbiology</i> , 2015 , 95, 458-71	4.1	65
62	A comparative study on depolymerization of chitosan by proteolytic enzymes. <i>Carbohydrate Polymers</i> , 2004 , 58, 275-283	10.3	65
61	Chitosan analysis by a pectinase isozyme of <i>Aspergillus niger</i> A non-specific activity. <i>Carbohydrate Polymers</i> , 2003 , 53, 191-196	10.3	60
60	The Dual Activity Responsible for the Elongation and Branching of β (1,3)-Glucan in the Fungal Cell Wall. <i>MBio</i> , 2017 , 8,	7.8	57
59	Low molecular weight chitosan--preparation with the aid of pepsin, characterization, and its bactericidal activity. <i>Biomacromolecules</i> , 2007 , 8, 566-72	6.9	55
58	Hypoxia enhances innate immune activation to <i>Aspergillus fumigatus</i> through cell wall modulation. <i>Microbes and Infection</i> , 2013 , 15, 259-69	9.3	54
57	<i>Aspergillus fumigatus</i> LaeA-mediated phagocytosis is associated with a decreased hydrophobin layer. <i>Infection and Immunity</i> , 2010 , 78, 823-9	3.7	54
56	Modification of guar galactomannan with the aid of pectinase. <i>Carbohydrate Polymers</i> , 2005 , 62, 267-273	10.3	52
55	Functional analysis of the fungal/plant class chitinase family in <i>Aspergillus fumigatus</i> . <i>Fungal Genetics and Biology</i> , 2011 , 48, 418-29	3.9	51
54	Synthesis of a pentasaccharide and neoglycoconjugates related to fungal β (1-3)-glucan and their use in the generation of antibodies to trace <i>Aspergillus fumigatus</i> cell wall. <i>Chemistry - A European Journal</i> , 2015 , 21, 1029-35	4.8	50
53	<i>Aspergillus</i> Cell Wall Chitin Induces Anti- and Proinflammatory Cytokines in Human PBMCs via the Fc γ Receptor/Syk/PI3K Pathway. <i>MBio</i> , 2016 , 7,	7.8	48
52	Chitin synthases with a myosin motor-like domain control the resistance of <i>Aspergillus fumigatus</i> to echinocandins. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 6121-31	5.9	48
51	The N-terminal domain of <i>Drosophila</i> Gram-negative binding protein 3 (GNBP3) defines a novel family of fungal pattern recognition receptors. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28687-97	5.4	46
50	<i>Aspergillus fumigatus</i> Cell Wall β (1,3)-Glucan Stimulates Regulatory T-Cell Polarization by Inducing PD-L1 Expression on Human Dendritic Cells. <i>Journal of Infectious Diseases</i> , 2017 , 216, 1281-1294	7	45
49	Low molecular weight chitosans--preparation with the aid of pronase, characterization and their bactericidal activity towards <i>Bacillus cereus</i> and <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 495-505	4	45

48	Non-specific depolymerization of chitosan by pronase and characterization of the resultant products. <i>FEBS Journal</i> , 2004 , 271, 713-23		45
47	Circulating human basophils lack the features of professional antigen presenting cells. <i>Scientific Reports</i> , 2013 , 3, 1188	4.9	44
46	Biosynthesis of cell wall mannan in the conidium and the mycelium of <i>Aspergillus fumigatus</i> . <i>Cellular Microbiology</i> , 2016 , 18, 1881-1891	3.9	39
45	The <i>Candida albicans</i> Sur7 protein is needed for proper synthesis of the fibrillar component of the cell wall that confers strength. <i>Eukaryotic Cell</i> , 2011 , 10, 72-80		39
44	Characterization of the GPI-anchored endo β 1,3-glucanase Eng2 of <i>Aspergillus fumigatus</i> . <i>Fungal Genetics and Biology</i> , 2011 , 48, 185-91	3.9	34
43	Undressing the fungal cell wall/cell membrane--the antifungal drug targets. <i>Current Pharmaceutical Design</i> , 2013 , 19, 3738-47	3.3	34
42	The virulence of the opportunistic fungal pathogen <i>Aspergillus fumigatus</i> requires cooperation between the endoplasmic reticulum-associated degradation pathway (ERAD) and the unfolded protein response (UPR). <i>Virulence</i> , 2011 , 2, 12-21	4.7	33
41	GH16 and GH81 family β (1,3)-glucanases in <i>Aspergillus fumigatus</i> are essential for conidial cell wall morphogenesis. <i>Cellular Microbiology</i> , 2016 , 18, 1285-93	3.9	32
40	Phagosomal removal of fungal melanin reprograms macrophage metabolism to promote antifungal immunity. <i>Nature Communications</i> , 2020 , 11, 2282	17.4	29
39	Fungal melanin stimulates surfactant protein D-mediated opsonization of and host immune response to spores. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4901-4912	5.4	28
38	Novel mouse monoclonal antibodies specifically recognizing β (1-3)-D-glucan antigen. <i>PLoS ONE</i> , 2019 , 14, e0215535	3.7	27
37	Fungal hydrophobins form a sheath preventing immune recognition of airborne conidia. <i>Virulence</i> , 2010 , 1, 185-7	4.7	25
36	SUN proteins belong to a novel family of β (1,3)-glucan-modifying enzymes involved in fungal morphogenesis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 13387-96	5.4	24
35	Surface chemical studies on SiC suspension in the presence of chitosan. <i>Ceramics International</i> , 2006 , 32, 637-646	5.1	23
34	Chemical Synthesis and Application of Biotinylated Oligo- β (1-3)-d-Glucosides To Study the Antibody and Cytokine Response against the Cell Wall β (1-3)-d-Glucan of <i>Aspergillus fumigatus</i> . <i>Journal of Organic Chemistry</i> , 2018 , 83, 12965-12976	4.2	23
33	conidial metalloprotease Mep1p cleaves host complement proteins. <i>Journal of Biological Chemistry</i> , 2018 , 293, 15538-15555	5.4	21
32	MybA, a transcription factor involved in conidiation and conidial viability of the human pathogen <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2017 , 105, 880-900	4.1	18
31	The puzzling construction of the conidial outer layer of <i>Aspergillus fumigatus</i> . <i>Cellular Microbiology</i> , 2019 , 21, e12994	3.9	18

30	Unraveling the nanoscale surface properties of chitin synthase mutants of <i>Aspergillus fumigatus</i> and their biological implications. <i>Biophysical Journal</i> , 2013 , 105, 320-7	2.9	17
29	Impaired phagocytosis directs human monocyte activation in response to fungal derived β glucan particles. <i>European Journal of Immunology</i> , 2018 , 48, 757-770	6.1	16
28	Assembly and disassembly of conidial rodlets. <i>Cell Surface</i> , 2019 , 5, 100023	4.8	12
27	Infection in Humans With STAT3-Deficiency Is Associated With Defective Interferon-Gamma and Th17 Responses. <i>Frontiers in Immunology</i> , 2020 , 11, 38	8.4	12
26	(1)H, (13)C and (15)N resonance assignments of the RodA hydrophobin from the opportunistic pathogen <i>Aspergillus fumigatus</i> . <i>Biomolecular NMR Assignments</i> , 2015 , 9, 113-8	0.7	11
25	<i>Aspergillus fumigatus</i> Transcription Factors Involved in the Caspofungin Paradoxical Effect. <i>MBio</i> , 2020 , 11,	7.8	10
24	extracellular vesicles properties and their use as vaccine platforms. <i>Journal of Extracellular Vesicles</i> , 2021 , 10, e12129	16.4	10
23	Host Soluble Mediators: Defying the Immunological Inertness of Conidia. <i>Journal of Fungi (Basel, Switzerland)</i> , 2017 , 4,	5.6	9
22	Functional Coupling between the Unfolded Protein Response and Endoplasmic Reticulum/Golgi Ca-ATPases Promotes Stress Tolerance, Cell Wall Biosynthesis, and Virulence of <i>Aspergillus fumigatus</i> . <i>MBio</i> , 2020 , 11,	7.8	8
21	Revisiting <i>Cryptococcus</i> extracellular vesicles properties and their use as vaccine platforms		8
20	Biochemically deleterious human NFKB1 variants underlie an autosomal dominant form of common variable immunodeficiency. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	6
19	Soluble mediators in anti-fungal immunity. <i>Current Opinion in Microbiology</i> , 2020 , 58, 24-31	7.9	5
18	Standardization of a colorimetric method for the determination of fructose using o-cresol: Sulphuric acid reagent. <i>Indian Journal of Clinical Biochemistry</i> , 1997 , 12, 95-9	2.2	5
17	Differential Interactions of Serum and Bronchoalveolar Lavage Fluid Complement Proteins with Conidia of Airborne Fungal Pathogen <i>Aspergillus fumigatus</i> . <i>Infection and Immunity</i> , 2020 , 88,	3.7	4
16	β Glucan Grafted Microcapsule, a Tool for Studying the Immunomodulatory Effect of Microbial Cell Wall Polysaccharides. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1788-1797	6.3	3
15	Organization of Fungal, Oomycete and Lichen (1,3)- β Glucans 2009 , 387-424		3
14	The Role of RodA-Conserved Cysteine Residues in the Conidial Surface Organization. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020 , 6,	5.6	3
13	Wnt- β Catenin Signaling in Human Dendritic Cells Mediates Regulatory T-Cell Responses to Fungi via the PD-L1 Pathway. <i>MBio</i> , 2021 , e0282421	7.8	2

12	Complement-Mediated Differential Immune Response of Human Macrophages to Species Through Interaction With Their Cell Wall Peptidorhamnomannans. <i>Frontiers in Immunology</i> , 2021 , 12, 749074	8.4	2
11	Transglycosidases and Fungal Cell Wall $\beta(1,3)$ -Glucan Branching. <i>Molecular Biology (Los Angeles, Calif)</i> , 2017 , 06,	1	2
10	Proteomic Analysis of Humoral Immune Components in Bronchoalveolar Lavage of Patients Infected or Colonized by. <i>Frontiers in Immunology</i> , 2021 , 12, 677798	8.4	2
9	Species-Specific Immunological Reactivities Depend on the Cell-Wall Organization of the Two , and. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 643312	5.9	2
8	Synthesis of a Pentasaccharide and Neoglycoconjugates Related to Fungal $\beta(1,3)$ -Glucan and Their Use in the Generation of Antibodies to Trace <i>Aspergillus fumigatus</i> Cell Wall. <i>Chemistry - A European Journal</i> , 2015 , 21, 921-921	4.8	1
7	Surfactant protein D inhibits growth, alters cell surface polysaccharide exposure and immune activation potential of .. <i>Cell Surface</i> , 2022 , 8, 100072	4.8	1
6	Pleiotropic Effects of the P5-Type ATPase SpfA on Stress Response Networks Contribute to Virulence in the Pathogenic Mold <i>Aspergillus fumigatus</i> . <i>MBio</i> , 2021 , 12, e0273521	7.8	1
5	<i>Aspergillus</i> and <i>Aspergillosis</i> 2021 ,		1
4	<i>Aspergillus fumigatus</i> Acetate Utilization Impacts Virulence Traits and Pathogenicity. <i>MBio</i> , 2021 , 12, e0168221	7.8	1
3	The Biosynthetic Pathway of 1,6-Branched $\beta(1,3)$ -Glucan, the Biopolymer That Constitutes the Core Structure of Fungal Cell Walls. <i>Trends in Glycoscience and Glycotechnology</i> , 2020 , 32, E119-E125	0.1	0
2	The Biosynthetic Pathway of 1,6-Branched $\beta(1,3)$ -Glucan, the Biopolymer That Constitutes the Core Structure of Fungal Cell Walls. <i>Trends in Glycoscience and Glycotechnology</i> , 2020 , 32, J99-J104	0.1	
1	Genetics and immunity of <i>Anopheles</i> response to the entomopathogenic fungus <i>Metarhizium anisopliae</i> overlap with immunity to <i>Plasmodium</i> .. <i>Scientific Reports</i> , 2022 , 12, 6315	4.9	