Vishukumar Aimanianda

List of Publications by Year in Descending Order

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	Surfactant protein D inhibits growth, alters cell surface polysaccharide exposure and immune activation potential of .. *Cell Surface*, **2022**, 8, 100072	4.8	1
82	Genetics and immunity of Anopheles response to the entomopathogenic fungus Metarhizium anisopliae overlap with immunity to Plasmodium.. *Scientific Reports*, **2022**, 12, 6315	4.9	
81	Wnt-Catenin Signaling in Human Dendritic Cells Mediates Regulatory T-Cell Responses to Fungi via the PD-L1 Pathway. *MBio*, **2021**, e0282421	7.8	2
80	Complement-Mediated Differential Immune Response of Human Macrophages to Species Through Interaction With Their Cell Wall Peptidorhamnomannans. *Frontiers in Immunology*, **2021**, 12, 749074	8.4	2
79	Pleiotropic Effects of the P5-Type ATPase SpfA on Stress Response Networks Contribute to Virulence in the Pathogenic Mold Aspergillus fumigatus. *MBio*, **2021**, 12, e0273521	7.8	1
78	Proteomic Analysis of Humoral Immune Components in Bronchoalveolar Lavage of Patients Infected or Colonized by. *Frontiers in Immunology*, **2021**, 12, 677798	8.4	2
77	Aspergillus and Aspergillosis **2021**,		1
76	Species-Specific Immunological Reactivities Depend on the Cell-Wall Organization of the Two , and. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 643312	5.9	2
75	Aspergillus fumigatus Acetate Utilization Impacts Virulence Traits and Pathogenicity. *MBio*, **2021**, 12, e0168221	7.8	1
74	extracellular vesicles properties and their use as vaccine platforms. *Journal of Extracellular Vesicles*, **2021**, 10, e12129	16.4	10
73	Biochemically deleterious human NFKB1 variants underlie an autosomal dominant form of common variable immunodeficiency. *Journal of Experimental Medicine*, **2021**, 218,	16.6	6
72	Phagosomal removal of fungal melanin reprograms macrophage metabolism to promote antifungal immunity. *Nature Communications*, **2020**, 11, 2282	17.4	29
71	Differential Interactions of Serum and Bronchoalveolar Lavage Fluid Complement Proteins with Conidia of Airborne Fungal Pathogen Aspergillus fumigatus. *Infection and Immunity*, **2020**, 88,	3.7	4
70	Functional Coupling between the Unfolded Protein Response and Endoplasmic Reticulum/Golgi Ca-ATPases Promotes Stress Tolerance, Cell Wall Biosynthesis, and Virulence of Aspergillus fumigatus. *MBio*, **2020**, 11,	7.8	8
69	Aspergillus fumigatus Transcription Factors Involved in the Caspofungin Paradoxical Effect. *MBio*, **2020**, 11,	7.8	10
68	Soluble mediators in anti-fungal immunity. *Current Opinion in Microbiology*, **2020**, 58, 24-31	7.9	5
67	The Biosynthetic Pathway of 1,6-Branched (1,3)-Glucan, the Biopolymer That Constitutes the Core Structure of Fungal Cell Walls. *Trends in Glycoscience and Glycotechnology*, **2020**, 32, E119-E125	0.1	0

66	Infection in Humans With STAT3-Deficiency Is Associated With Defective Interferon-Gamma and Th17 Responses. *Frontiers in Immunology*, **2020**, 11, 38	8.4	12
65	The Biosynthetic Pathway of 1,6-Branched Β(1,3)-Glucan, the Biopolymer That Constitutes the Core Structure of Fungal Cell Walls. *Trends in Glycoscience and Glycotechnology*, **2020**, 32, J99-J104	0.1	
64	The Role of RodA-Conserved Cysteine Residues in the Conidial Surface Organization. *Journal of Fungi (Basel, Switzerland)*, **2020**, 6,	5.6	3
63	Βglucan Grafted Microcapsule, a Tool for Studying the Immunomodulatory Effect of Microbial Cell Wall Polysaccharides. *Bioconjugate Chemistry*, **2019**, 30, 1788-1797	6.3	3
62	Novel mouse monoclonal antibodies specifically recognizing Β(1-3)-D-glucan antigen. *PLoS ONE*, **2019**, 14, e0215535	3.7	27
61	Assembly and disassembly of conidial rodlets. *Cell Surface*, **2019**, 5, 100023	4.8	12
60	The puzzling construction of the conidial outer layer of Aspergillus fumigatus. *Cellular Microbiology*, **2019**, 21, e12994	3.9	18
59	Recognition of DHN-melanin by a C-type lectin receptor is required for immunity to Aspergillus. *Nature*, **2018**, 555, 382-386	50.4	107
58	Impaired phagocytosis directs human monocyte activation in response to fungal derived Βglucan particles. *European Journal of Immunology*, **2018**, 48, 757-770	6.1	16
57	Fungal melanin stimulates surfactant protein D-mediated opsonization of and host immune response to spores. *Journal of Biological Chemistry*, **2018**, 293, 4901-4912	5.4	28
56	conidial metalloprotease Mep1p cleaves host complement proteins. *Journal of Biological Chemistry*, **2018**, 293, 15538-15555	5.4	21
55	Chemical Synthesis and Application of Biotinylated Oligo-Β(1 -ϑ)-d-Glucosides To Study the Antibody and Cytokine Response against the Cell Wall Β(1 -ϑ)-d-Glucan of Aspergillus fumigatus. *Journal of Organic Chemistry*, **2018**, 83, 12965-12976	4.2	23
54	The Dual Activity Responsible for the Elongation and Branching of Β(1,3)-Glucan in the Fungal Cell Wall. *MBio*, **2017**, 8,	7.8	57
53	Aspergillus fumigatus Cell Wall Β(1,3)-Glucan Stimulates Regulatory T-Cell Polarization by Inducing PD-L1 Expression on Human Dendritic Cells. *Journal of Infectious Diseases*, **2017**, 216, 1281-1294	7	45
52	MybA, a transcription factor involved in conidiation and conidial viability of the human pathogen Aspergillus fumigatus. *Molecular Microbiology*, **2017**, 105, 880-900	4.1	18
51	Transglycosidases and Fungal Cell Wall Β(1,3)-Glucan Branching. *Molecular Biology (Los Angeles, Calif)*, **2017**, 06,	1	2
50	Host Soluble Mediators: Defying the Immunological Inertness of Conidia. *Journal of Fungi (Basel, Switzerland)*, **2017**, 4,	5.6	9
49	Biosynthesis of cell wall mannan in the conidium and the mycelium of Aspergillus fumigatus. *Cellular Microbiology*, **2016**, 18, 1881-1891	3.9	39

48	Aspergillus Cell Wall Chitin Induces Anti- and Proinflammatory Cytokines in Human PBMCs via the Fc-Receptor/Syk/PI3K Pathway. *MBio*, **2016**, 7,	7.8	48
47	GH16 and GH81 family (1,3)-glucanases in Aspergillus fumigatus are essential for conidial cell wall morphogenesis. *Cellular Microbiology*, **2016**, 18, 1285-93	3.9	32
46	Aspergillus fumigatus devoid of cell wall 1,3-glucan is viable, massively sheds galactomannan and is killed by septum formation inhibitors. *Molecular Microbiology*, **2015**, 95, 458-71	4.1	65
45	Synthesis of a Pentasaccharide and Neoglycoconjugates Related to Fungal (1-3)-Glucan and Their Use in the Generation of Antibodies to Trace Aspergillus fumigatus Cell Wall. *Chemistry - A European Journal*, **2015**, 21, 921-921	4.8	1
44	Synthesis of a pentasaccharide and neoglycoconjugates related to fungal (1-3)-glucan and their use in the generation of antibodies to trace Aspergillus fumigatus cell wall. *Chemistry - A European Journal*, **2015**, 21, 1029-35	4.8	50
43	(1)H, (13)C and (15)N resonance assignments of the RodA hydrophobin from the opportunistic pathogen Aspergillus fumigatus. *Biomolecular NMR Assignments*, **2015**, 9, 113-8	0.7	11
42	Deciphering the role of the chitin synthase families 1 and 2 in the in vivo and in vitro growth of Aspergillus fumigatus by multiple gene targeting deletion. *Cellular Microbiology*, **2014**, 16, 1784-805	3.9	67
41	Surface structure characterization of Aspergillus fumigatus conidia mutated in the melanin synthesis pathway and their human cellular immune response. *Infection and Immunity*, **2014**, 82, 3141-53	3.7	76
40	Aspergillus cell wall and biofilm. *Mycopathologia*, **2014**, 178, 371-7	2.9	88
39	Unraveling the nanoscale surface properties of chitin synthase mutants of Aspergillus fumigatus and their biological implications. *Biophysical Journal*, **2013**, 105, 320-7	2.9	17
38	SUN proteins belong to a novel family of (1,3)-glucan-modifying enzymes involved in fungal morphogenesis. *Journal of Biological Chemistry*, **2013**, 288, 13387-96	5.4	24
37	Hypoxia enhances innate immune activation to Aspergillus fumigatus through cell wall modulation. *Microbes and Infection*, **2013**, 15, 259-69	9.3	54
36	Circulating human basophils lack the features of professional antigen presenting cells. *Scientific Reports*, **2013**, 3, 1188	4.9	44
35	The RodA hydrophobin on Aspergillus fumigatus spores masks dectin-1- and dectin-2-dependent responses and enhances fungal survival in vivo. *Journal of Immunology*, **2013**, 191, 2581-8	5.3	125
34	Undressing the fungal cell wall/cell membrane--the antifungal drug targets. *Current Pharmaceutical Design*, **2013**, 19, 3738-47	3.3	34
33	Human circulating basophils lack the features of professional antigen presenting cells. *Journal of Translational Medicine*, **2012**, 10, P4	8.5	78
32	Chitin synthases with a myosin motor-like domain control the resistance of Aspergillus fumigatus to echinocandins. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 6121-31	5.9	48
31	Hydrophobins--unique fungal proteins. *PLoS Pathogens*, **2012**, 8, e1002700	7.6	196

30	Characterization of the GPI-anchored endo β1,3-glucanase Eng2 of Aspergillus fumigatus. *Fungal Genetics and Biology*, **2011**, 48, 185-91	3.9	34
29	Functional analysis of the fungal/plant class chitinase family in Aspergillus fumigatus. *Fungal Genetics and Biology*, **2011**, 48, 418-29	3.9	51
28	The Candida albicans Sur7 protein is needed for proper synthesis of the fibrillar component of the cell wall that confers strength. *Eukaryotic Cell*, **2011**, 10, 72-80		39
27	The virulence of the opportunistic fungal pathogen Aspergillus fumigatus requires cooperation between the endoplasmic reticulum-associated degradation pathway (ERAD) and the unfolded protein response (UPR). *Virulence*, **2011**, 2, 12-21	4.7	33
26	HacA-independent functions of the ER stress sensor IreA synergize with the canonical UPR to influence virulence traits in Aspergillus fumigatus. *PLoS Pathogens*, **2011**, 7, e1002330	7.6	75
25	Members of protein O-mannosyltransferase family in Aspergillus fumigatus differentially affect growth, morphogenesis and viability. *Molecular Microbiology*, **2010**, 76, 1205-21	4.1	74
24	Fungal hydrophobins form a sheath preventing immune recognition of airborne conidia. *Virulence*, **2010**, 1, 185-7	4.7	25
23	Production of extracellular traps against Aspergillus fumigatus in vitro and in infected lung tissue is dependent on invading neutrophils and influenced by hydrophobin RodA. *PLoS Pathogens*, **2010**, 6, e1000873	7.6	300
22	Proteome profiling and functional classification of intracellular proteins from conidia of the human-pathogenic mold Aspergillus fumigatus. *Journal of Proteome Research*, **2010**, 9, 3427-42	5.6	76
21	Aspergillus fumigatus LaeA-mediated phagocytosis is associated with a decreased hydrophobin layer. *Infection and Immunity*, **2010**, 78, 823-9	3.7	54
20	Organization of Fungal, Oomycete and Lichen (1,3)-β-Glucans **2009**, 387-424		3
19	Cell wall beta-(1,6)-glucan of Saccharomyces cerevisiae: structural characterization and in situ synthesis. *Journal of Biological Chemistry*, **2009**, 284, 13401-13412	5.4	92
18	The N-terminal domain of Drosophila Gram-negative binding protein 3 (GNBP3) defines a novel family of fungal pattern recognition receptors. *Journal of Biological Chemistry*, **2009**, 284, 28687-97	5.4	46
17	A role for the unfolded protein response (UPR) in virulence and antifungal susceptibility in Aspergillus fumigatus. *PLoS Pathogens*, **2009**, 5, e1000258	7.6	125
16	Surface hydrophobin prevents immune recognition of airborne fungal spores. *Nature*, **2009**, 460, 1117-21	30.4	568
15	Novel cellular and molecular mechanisms of induction of immune responses by aluminum adjuvants. *Trends in Pharmacological Sciences*, **2009**, 30, 287-95	13.2	85
14	Aspergillus fumigatus: cell wall polysaccharides, their biosynthesis and organization. *Future Microbiology*, **2009**, 4, 583-95	2.9	124
13	Establishing in vitro-in vivo correlations for Aspergillus fumigatus: the challenge of azoles versus echinocandins. *Antimicrobial Agents and Chemotherapy*, **2008**, 52, 3504-11	5.9	93

12	Low molecular weight chitosan--preparation with the aid of pepsin, characterization, and its bactericidal activity. *Biomacromolecules*, **2007**, 8, 566-72	6.9	55
11	Low molecular weight chitosans--preparation with the aid of pronase, characterization and their bactericidal activity towards Bacillus cereus and Escherichia coli. *Biochimica Et Biophysica Acta - General Subjects*, **2007**, 1770, 495-505	4	45
10	Surface chemical studies on SiC suspension in the presence of chitosan. *Ceramics International*, **2006**, 32, 637-646	5.1	23
9	Modification of guar galactomannan with the aid of pectinase. *Carbohydrate Polymers*, **2005**, 62, 267-273	10.3	52
8	Chitooligosaccharides--preparation with the aid of pectinase isozyme from Aspergillus niger and their antibacterial activity. *Carbohydrate Research*, **2005**, 340, 1239-45	2.9	77
7	Non-specific depolymerization of chitosan by pronase and characterization of the resultant products. *FEBS Journal*, **2004**, 271, 713-23		45
6	A comparative study on depolymerization of chitosan by proteolytic enzymes. *Carbohydrate Polymers*, **2004**, 58, 275-283	10.3	65
5	Low molecular weight chitosans: preparation with the aid of papain and characterization. *Biochimica Et Biophysica Acta - General Subjects*, **2004**, 1670, 137-46	4	85
4	Low molecular weight chitosans--preparation by depolymerization with Aspergillus niger pectinase, and characterization. *Carbohydrate Research*, **2003**, 338, 1283-90	2.9	126
3	Chitosanolysis by a pectinase isozyme of Aspergillus niger A non-specific activity. *Carbohydrate Polymers*, **2003**, 53, 191-196	10.3	60
2	Standardization of a colorimetric method for the determination of fructose using o-cresol: Sulphuric acid reagent. *Indian Journal of Clinical Biochemistry*, **1997**, 12, 95-9	2.2	5
1	Revisiting Cryptococcus extracellular vesicles properties and their use as vaccine platforms		8