

# Robert A Cramer

## List of Publications by Year in Descending Order

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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.

96  
papers

6,062  
citations

44  
h-index

77  
g-index

112  
ext. papers

7,538  
ext. citations

7.4  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
96	An Alanine Aminotransferase Is Required for Biofilm-Specific Resistance of <i>Aspergillus fumigatus</i> to Echinocandin Treatment.. <i>MBio</i> , <b>2022</b> , e0293321	7.8	1
95	Host Lung Environment Limits <i>Aspergillus fumigatus</i> Germination through an SskA-Dependent Signaling Response. <i>MSphere</i> , <b>2021</b> , e0092221	5	3
94	<i>Aspergillus fumigatus</i> Hsp90 interacts with the main components of the cell wall integrity pathway and cooperates in heat shock and cell wall stress adaptation. <i>Cellular Microbiology</i> , <b>2021</b> , 23, e13273	3.9	5
93	Detection of Low Oxygen Microenvironments in a Murine Model of Invasive Pulmonary Aspergillosis Using Pimonidazole. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2260, 197-205	1.4	0
92	<i>Aspergillus fumigatus</i> Strain-Specific Conidia Lung Persistence Causes an Allergic Broncho-Pulmonary Aspergillosis-Like Disease Phenotype. <i>MSphere</i> , <b>2021</b> , 6,	5	3
91	Is It Time To Kill the Survival Curve? A Case for Disease Progression Factors in Microbial Pathogenesis and Host Defense Research. <i>MBio</i> , <b>2021</b> , 12,	7.8	3
90	A Heterogeneously Expressed Gene Family Modulates the Biofilm Architecture and Hypoxic Growth of. <i>MBio</i> , <b>2021</b> , 12,	7.8	3
89	<i>Aspergillus fumigatus</i> In-Host HOG Pathway Mutation for Cystic Fibrosis Lung Microenvironment Persistence. <i>MBio</i> , <b>2021</b> , 12, e0215321	7.8	4
88	<i>Aspergillus fumigatus</i> biofilms: Toward understanding how growth as a multicellular network increases antifungal resistance and disease progression. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009794	7.6	1
87	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. <i>MBio</i> , <b>2021</b> , 12, e0176321	7.8	7
86	Reducing <i>Aspergillus fumigatus</i> Virulence through Targeted Dysregulation of the Conidiation Pathway. <i>MBio</i> , <b>2020</b> , 11,	7.8	9
85	Platelets are critical for survival and tissue integrity during murine pulmonary <i>Aspergillus fumigatus</i> infection. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008544	7.6	10
84	If looks could kill: Fungal macroscopic morphology and virulence. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008612	7.6	4
83	The negative cofactor 2 complex is a key regulator of drug resistance in <i>Aspergillus fumigatus</i> . <i>Nature Communications</i> , <b>2020</b> , 11, 427	17.4	41
82	MDA5 Is an Essential Sensor of a Pathogen-Associated Molecular Pattern Associated with Vitality That Is Necessary for Host Resistance against. <i>Journal of Immunology</i> , <b>2020</b> , 205, 3058-3070	5.3	5
81	Fungal biofilm architecture produces hypoxic microenvironments that drive antifungal resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 22473-22483	11.5	22
80	Fungal biofilm morphology impacts hypoxia fitness and disease progression. <i>Nature Microbiology</i> , <b>2019</b> , 4, 2430-2441	26.6	46

79	An Ssd1 Homolog Impacts Trehalose and Chitin Biosynthesis and Contributes to Virulence in <i>Aspergillus fumigatus</i> . <i>MSphere</i> , <b>2019</b> , 4,	5	10
78	Natamycin and Voriconazole Exhibit Synergistic Interactions with Nonantifungal Ophthalmic Agents against Species Ocular Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2019</b> , 63,	5.9	7
77	Characterizing the Pathogenic, Genomic, and Chemical Traits of , a Close Relative of the Major Human Fungal Pathogen. <i>MSphere</i> , <b>2019</b> , 4,	5	22
76	Unique metabolic activation of adipose tissue macrophages in obesity promotes inflammatory responses. <i>Diabetologia</i> , <b>2018</b> , 61, 942-953	10.3	97
75	Response to Comment on "Sterilizing immunity in the lung relies on targeting fungal apoptosis-like programmed cell death". <i>Science</i> , <b>2018</b> , 360,	33.3	1
74	Hyperbaric Oxygen Reduces <i>Aspergillus fumigatus</i> Proliferation and Influences Disease Outcomes. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	6
73	Overview of carbon and nitrogen catabolite metabolism in the virulence of human pathogenic fungi. <i>Molecular Microbiology</i> , <b>2018</b> , 107, 277-297	4.1	28
72	Protein Kinase A and High-Osmolarity Glycerol Response Pathways Cooperatively Control Cell Wall Carbohydrate Mobilization in. <i>MBio</i> , <b>2018</b> , 9,	7.8	22
71	Beta-glucan-induced inflammatory monocytes mediate antitumor efficacy in the murine lung. <i>Cancer Immunology, Immunotherapy</i> , <b>2018</b> , 67, 1731-1742	7.4	14
70	The effect of reducing agents on challenge of rainbow trout with <i>Aeromonas salmonicida</i> . <i>Journal of Fish Diseases</i> , <b>2017</b> , 40, 437-441	2.6	
69	Central Role of the Trehalose Biosynthesis Pathway in the Pathogenesis of Human Fungal Infections: Opportunities and Challenges for Therapeutic Development. <i>Microbiology and Molecular Biology Reviews</i> , <b>2017</b> , 81,	13.2	51
68	Interleukin 1βs Critical for Resistance against Highly Virulent <i>Aspergillus fumigatus</i> Isolates. <i>Infection and Immunity</i> , <b>2017</b> , 85,	3.7	42
67	Filamentous fungal carbon catabolite repression supports metabolic plasticity and stress responses essential for disease progression. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006340	7.6	49
66	Host-Derived Leukotriene B Is Critical for Resistance against Invasive Pulmonary Aspergillosis. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1984	8.4	16
65	Trehalose-Regulatory Subunit Homolog Moonlights To Mediate Cell Wall Homeostasis through Modulation of Chitin Synthase Activity. <i>MBio</i> , <b>2017</b> , 8,	7.8	14
64	Sterilizing immunity in the lung relies on targeting fungal apoptosis-like programmed cell death. <i>Science</i> , <b>2017</b> , 357, 1037-1041	33.3	63
63	Modulation of Immune Signaling and Metabolism Highlights Host and Fungal Transcriptional Responses in Mouse Models of Invasive Pulmonary Aspergillosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 17096	4.9	16
62	<i>Aspergillus fumigatus</i> virulence through the lens of transcription factors. <i>Medical Mycology</i> , <b>2017</b> , 55, 24-38	3.9	20

61	Regulation of Sterol Biosynthesis in the Human Fungal Pathogen : Opportunities for Therapeutic Development. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 92	5.7	50
60	<i>Aspergillus fumigatus</i> Photobiology Illuminates the Marked Heterogeneity between Isolates. <i>MBio</i> , <b>2016</b> , 7,	7.8	34
59	Functional and Genomic Architecture of <i>Borrelia burgdorferi</i> -Induced Cytokine Responses in Humans. <i>Cell Host and Microbe</i> , <b>2016</b> , 20, 822-833	23.4	27
58	New advances in invasive aspergillosis immunobiology leading the way towards personalized therapeutic approaches. <i>Cytokine</i> , <b>2016</b> , 84, 63-73	4	7
57	Role of Granulocyte-Macrophage Colony-Stimulating Factor Signaling in Regulating Neutrophil Antifungal Activity and the Oxidative Burst During Respiratory Fungal Challenge. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 213, 1289-98	7	34
56	RbdB, a Rhomboid Protease Critical for SREBP Activation and Virulence in <i>Aspergillus fumigatus</i> . <i>MSphere</i> , <b>2016</b> , 1,	5	18
55	Diverse Regulation of the CreA Carbon Catabolite Repressor in <i>Aspergillus nidulans</i> . <i>Genetics</i> , <b>2016</b> , 203, 335-52	4	88
54	Heterogeneity among Isolates Reveals that Fitness in Low Oxygen Correlates with <i>Aspergillus fumigatus</i> Virulence. <i>MBio</i> , <b>2016</b> , 7,	7.8	75
53	Compartment-specific and sequential role of MyD88 and CARD9 in chemokine induction and innate defense during respiratory fungal infection. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004589	7.6	78
52	IL-1 $\beta$ signaling is critical for leukocyte recruitment after pulmonary <i>Aspergillus fumigatus</i> challenge. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004625	7.6	93
51	Characterization of the <i>Paracoccidioides</i> Hypoxia Response Reveals New Insights into Pathogenesis Mechanisms of This Important Human Pathogenic Fungus. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0004282	4.8	24
50	mTOR- and HIF-1 $\beta$ -mediated aerobic glycolysis as metabolic basis for trained immunity. <i>Science</i> , <b>2014</b> , 345, 1250684	33.3	1020
49	Large-scale transcriptional response to hypoxia in <i>Aspergillus fumigatus</i> observed using RNAseq identifies a novel hypoxia regulated ncRNA. <i>Mycopathologia</i> , <b>2014</b> , 178, 331-9	2.9	21
48	ChIP-seq and in vivo transcriptome analyses of the <i>Aspergillus fumigatus</i> SREBP SrbA reveals a new regulator of the fungal hypoxia response and virulence. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004487	7.6	110
47	Myeloid derived hypoxia inducible factor 1-alpha is required for protection against pulmonary <i>Aspergillus fumigatus</i> infection. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004378	7.6	53
46	Biofilms: five-star accommodations for the aerobically challenged. <i>Current Biology</i> , <b>2014</b> , 24, R1002-4	6.3	3
45	Endoplasmic reticulum localized PerA is required for cell wall integrity, azole drug resistance, and virulence in <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , <b>2014</b> , 92, 1279-98	4.1	13
44	The Janus transcription factor HapX controls fungal adaptation to both iron starvation and iron excess. <i>EMBO Journal</i> , <b>2014</b> , 33, 2261-76	13	83

43	Two C4-sterol methyl oxidases (Erg25) catalyse ergosterol intermediate demethylation and impact environmental stress adaptation in <i>Aspergillus fumigatus</i> . <i>Microbiology (United Kingdom)</i> , <b>2014</b> , 160, 2492-2506	2.9	22
42	Fungal cell wall dynamics and infection site microenvironments: signal integration and infection outcome. <i>Current Opinion in Microbiology</i> , <b>2013</b> , 16, 385-90	7.9	7
41	Hypoxia enhances innate immune activation to <i>Aspergillus fumigatus</i> through cell wall modulation. <i>Microbes and Infection</i> , <b>2013</b> , 15, 259-69	9.3	54
40	<i>Candida albicans</i> induces arginine biosynthetic genes in response to host-derived reactive oxygen species. <i>Eukaryotic Cell</i> , <b>2013</b> , 12, 91-100		49
39	Differential adaptation of <i>Candida albicans</i> in vivo modulates immune recognition by dectin-1. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003315	7.6	145
38	Transcriptomic and proteomic analyses of the <i>Aspergillus fumigatus</i> hypoxia response using an oxygen-controlled fermenter. <i>BMC Genomics</i> , <b>2012</b> , 13, 62	4.5	89
37	<i>Aspergillus fumigatus</i> mitochondrial electron transport chain mediates oxidative stress homeostasis, hypoxia responses and fungal pathogenesis. <i>Molecular Microbiology</i> , <b>2012</b> , 84, 383-99	4.1	61
36	Coordination of hypoxia adaptation and iron homeostasis in human pathogenic fungi. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 381	5.7	24
35	Hypoxia and fungal pathogenesis: to air or not to air?. <i>Eukaryotic Cell</i> , <b>2012</b> , 11, 560-70		136
34	SREBP-dependent triazole susceptibility in <i>Aspergillus fumigatus</i> is mediated through direct transcriptional regulation of <i>erg11A</i> ( <i>cyp51A</i> ). <i>Antimicrobial Agents and Chemotherapy</i> , <b>2012</b> , 56, 248-57	5.9	52
33	Dsc orthologs are required for hypoxia adaptation, triazole drug responses, and fungal virulence in <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , <b>2012</b> , 11, 1557-67		44
32	Immune responses against <i>Aspergillus fumigatus</i> : what have we learned?. <i>Current Opinion in Infectious Diseases</i> , <b>2011</b> , 24, 315-22	5.4	64
31	Implications of hypoxic microenvironments during invasive aspergillosis. <i>Medical Mycology</i> , <b>2011</b> , 49 Suppl 1, S120-4	3.9	26
30	The small GTPase RacA mediates intracellular reactive oxygen species production, polarized growth, and virulence in the human fungal pathogen <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , <b>2011</b> , 10, 174-86		35
29	SREBP coordinates iron and ergosterol homeostasis to mediate triazole drug and hypoxia responses in the human fungal pathogen <i>Aspergillus fumigatus</i> . <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002374	6	130
28	In vivo hypoxia and a fungal alcohol dehydrogenase influence the pathogenesis of invasive pulmonary aspergillosis. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002145	7.6	164
27	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> , <b>2011</b> , 7, e1002330	7.6	75
26	Trehalose 6-phosphate phosphatase is required for cell wall integrity and fungal virulence but not trehalose biosynthesis in the human fungal pathogen <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , <b>2010</b> , 77, 891-911	4.1	85

25	Iridovirus and microsporidian linked to honey bee colony decline. <i>PLoS ONE</i> , <b>2010</b> , 5, e13181	3.7	158
24	Regulation of hypoxia adaptation: an overlooked virulence attribute of pathogenic fungi?. <i>Medical Mycology</i> , <b>2010</b> , 48, 1-15	3.9	53
23	<i>Aspergillus fumigatus</i> calcipressin CbpA is involved in hyphal growth and calcium homeostasis. <i>Eukaryotic Cell</i> , <b>2009</b> , 8, 511-9		31
22	Tmpl, a transmembrane protein required for intracellular redox homeostasis and virulence in a plant and an animal fungal pathogen. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000653	7.6	56
21	<i>Aspergillus fumigatus</i> metabolism: clues to mechanisms of in vivo fungal growth and virulence. <i>Medical Mycology</i> , <b>2009</b> , 47 Suppl 1, S72-9	3.9	47
20	A sterol-regulatory element binding protein is required for cell polarity, hypoxia adaptation, azole drug resistance, and virulence in <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , <b>2008</b> , 4, e1000200	7.6	243
19	Calcineurin target CrzA regulates conidial germination, hyphal growth, and pathogenesis of <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , <b>2008</b> , 7, 1085-97		130
18	At Death's Door: <i>Alternaria</i> Pathogenicity Mechanisms. <i>Plant Pathology Journal</i> , <b>2008</b> , 24, 101-111	2.5	51
17	Harnessing calcineurin as a novel anti-infective agent against invasive fungal infections. <i>Nature Reviews Microbiology</i> , <b>2007</b> , 5, 418-30	22.2	247
16	Functional analysis of the <i>Alternaria brassicicola</i> non-ribosomal peptide synthetase gene AbNPS2 reveals a role in conidial cell wall construction. <i>Molecular Plant Pathology</i> , <b>2007</b> , 8, 23-39	5.7	41
15	Transcriptional regulation of chemical diversity in <i>Aspergillus fumigatus</i> by LaeA. <i>PLoS Pathogens</i> , <b>2007</b> , 3, e50	7.6	275
14	Calcineurin inhibition or mutation enhances cell wall inhibitors against <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 2979-81	5.9	81
13	The Fus3/Kss1 MAP kinase homolog Amk1 regulates the expression of genes encoding hydrolytic enzymes in <i>Alternaria brassicicola</i> . <i>Fungal Genetics and Biology</i> , <b>2007</b> , 44, 543-53	3.9	48
12	Calcineurin controls growth, morphology, and pathogenicity in <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , <b>2006</b> , 5, 1091-103		230
11	Disruption of a nonribosomal peptide synthetase in <i>Aspergillus fumigatus</i> eliminates gliotoxin production. <i>Eukaryotic Cell</i> , <b>2006</b> , 5, 972-80		184
10	Phylogenomic analysis of non-ribosomal peptide synthetases in the genus <i>Aspergillus</i> . <i>Gene</i> , <b>2006</b> , 383, 24-32	3.8	60
9	A high throughput targeted gene disruption method for <i>Alternaria brassicicola</i> functional genomics using linear minimal element (LME) constructs. <i>Molecular Plant-Microbe Interactions</i> , <b>2006</b> , 19, 7-15	3.6	52
8	Bioinformatic analysis of expressed sequence tags derived from a compatible <i>Alternaria brassicicola</i> - <i>Brassica oleracea</i> interaction. <i>Molecular Plant Pathology</i> , <b>2006</b> , 7, 113-24	5.7	25

7	Alt a 1 allergen homologs from <i>Alternaria</i> and related taxa: analysis of phylogenetic content and secondary structure. <i>Fungal Genetics and Biology</i> , <b>2005</b> , 42, 119-29	3.9	162
6	Identification of <i>Alternaria brassicicola</i> genes expressed in planta during pathogenesis of <i>Arabidopsis thaliana</i> . <i>Fungal Genetics and Biology</i> , <b>2004</b> , 41, 115-28	3.9	57
5	Polyphasic characterization of xanthomonas strains from onion. <i>Phytopathology</i> , <b>2004</b> , 94, 184-95	3.8	24
4	Cloning of a gene encoding an Alt a 1 isoallergen differentially expressed by the necrotrophic fungus <i>Alternaria brassicicola</i> during <i>Arabidopsis</i> infection. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 2361-4	4.8	37
3	Combined Pan-, Population-, and Phylo-Genomic Analysis of <i>Aspergillus fumigatus</i> Reveals Population Structure and Lineage-Specific Diversity		2
2	Genetic Regulation of <i>Aspergillus</i> Secondary Metabolites and Their Role in Fungal Pathogenesis	185-199	1
1	Characterizing the pathogenic, genomic, and chemical traits of <i>Aspergillus fischeri</i> , a close relative of the major human fungal pathogen <i>Aspergillus fumigatus</i>		3