Donald C Sheppard

List of Publications by Year
in descending order

133 papers	9,164 citations	41344 49 h-index	45317 90 g-index
138 all docs	138 docs citations	138 times ranked	8271 citing authors

#	Article	IF	Citations
1	Spt20, a Structural Subunit of the SAGA Complex, Regulates Aspergillus fumigatus Biofilm Formation, Asexual Development, and Virulence. Applied and Environmental Microbiology, 2022, 88, AEM0153521.	3.1	6
2	An Alanine Aminotransferase Is Required for Biofilm-Specific Resistance of Aspergillus fumigatus to Echinocandin Treatment. MBio, 2022, 13, e0293321.	4.1	5
3	Tackling the emerging threat of antifungal resistance to human health. Nature Reviews Microbiology, 2022, 20, 557-571.	28.6	311
4	Co-Operative Biofilm Interactions between Aspergillus fumigatus and Pseudomonas aeruginosa through Secreted Galactosaminogalactan Exopolysaccharide. Journal of Fungi (Basel, Switzerland), 2022, 8, 336.	3.5	6
5	The Pel polysaccharide is predominantly composed of a dimeric repeat of Î±-1,4 linked galactosamine and N-acetylgalactosamine. Communications Biology, 2022, 5, .	4.4	20
6	Phosphatidylinositol 3-Kinase (PI3K) Orchestrates Aspergillus fumigatus-Induced Eosinophil Activation Independently of Canonical Toll-Like Receptor (TLR)/C-Type-Lectin Receptor (CLR) Signaling. MBio, 2022, 13, .	4.1	2
7	Preclinical Evaluation of Recombinant Microbial Glycoside Hydrolases as Antibiofilm Agents in Acute Pulmonary Pseudomonas aeruginosa Infection. Antimicrobial Agents and Chemotherapy, 2022, 66, .	3.2	5
8	Serum bridging molecules drive candidal invasion of human but not mouse endothelial cells. PLoS Pathogens, 2022, 18, e1010681.	4.7	3
9	The Canadian Fungal Research Network: current challenges and future opportunities. Canadian Journal of Microbiology, 2021, 67, 13-22.	1.7	4
10	A Murine Model for Chronic A. fumigatus Airway Infections. Methods in Molecular Biology, 2021, 2260, 215-224.	0.9	2
11	Neuraminidases 1 and 3 Trigger Atherosclerosis by Desialylating Lowâ€Ðensity Lipoproteins and Increasing Their Uptake by Macrophages. Journal of the American Heart Association, 2021, 10, e018756.	3.7	29
12	Comparative effectiveness of amphotericin B, azoles and echinocandins in the treatment of candidemia and invasive candidiasis: A systematic review and network metaâ€analysis. Mycoses, 2021, 64, 1098-1110.	4.0	11
13	The IL-1 Receptor Is Required to Maintain Neutrophil Viability and Function During Aspergillus fumigatus Airway Infection. Frontiers in Immunology, 2021, 12, 675294.	4.8	12
14	Marginating transitional B cells modulate neutrophils in the lung during inflammation and pneumonia. Journal of Experimental Medicine, 2021, 218, .	8.5	15
15	Preclinical Evaluation of Recombinant Microbial Glycoside Hydrolases in the Prevention of Experimental Invasive Aspergillosis. MBio, 2021, 12, e0244621.	4.1	8
16	Antifungal Prophylaxis. Hematologic Malignancies, 2021, , 23-36.	0.2	0
17	Preventing Pseudomonas aeruginosa Biofilms on Indwelling Catheters by Surface-Bound Enzymes. ACS Applied Bio Materials, 2021, 4, 8248-8258.	4.6	16
18	Circulating (1â†'3)-Î²-D-glucan Is Associated With Immune Activation During Human Immunodeficiency Virus Infection. Clinical Infectious Diseases, 2020, 70, 232-241.	5.8	66

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19	Efficacies and merits of the cotton swab technique for diagnosing tinea capitis in the pediatric population. Journal of the American Academy of Dermatology, 2020, 83, 920-922.	1.2	5
20	The Transcription Factor SomA Synchronously Regulates Biofilm Formation and Cell Wall Homeostasis in Aspergillus fumigatus. MBio, 2020, 11, .	4.1	20
21	Galectin-3 enhances neutrophil motility and extravasation into the airways during Aspergillus fumigatusÂinfection. PLoS Pathogens, 2020, 16, e1008741.	4.7	33
22	Needles in a haystack: Extremely rare invasive fungal infections reported in FungiScopeâ“‡â€”Global Registry for Emerging Fungal Infections. Journal of Infection, 2020, 81, 802-815.	3.3	20
23	Aspergillus-Derived Galactosaminogalactan Triggers Complement Activation on Human Platelets. Frontiers in Immunology, 2020, 11, 550827.	4.8	6
24	Structural and biochemical characterization of the exopolysaccharide deacetylase Agd3 required for Aspergillus fumigatus biofilm formation. Nature Communications, 2020, 11, 2450.	12.8	38
25	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. MBio, 2020, 11, .	4.1	275
26	Reducing Aspergillus fumigatus Virulence through Targeted Dysregulation of the Conidiation Pathway. MBio, 2020, 11, .	4.1	18
27	Diagnostic accuracy of serum (1-3)-Î²-D-glucan for Pneumocystis jirovecii pneumonia: a systematic review and meta-analysis. Clinical Microbiology and Infection, 2020, 26, 1137-1143.	6.0	72
28	What Are the Functions of Chitin Deacetylases in Aspergillus fumigatus?. Frontiers in Cellular and Infection Microbiology, 2020, 10, 28.	3.9	23
29	Galactosaminogalactan secreted from Aspergillus fumigatus and Aspergillus flavus induces platelet activation. Microbes and Infection, 2020, 22, 331-339.	1.9	9
30	Reply to: â€œComment on â€˜Efficacies and merits of the cotton swab technique for diagnosing tinea capitis in the pediatric populationâ€™â€•. Journal of the American Academy of Dermatology, 2020, 83, e195-e196.	1.2	0
31	Matched-paired analysis of patients treated for invasive mucormycosis: standard treatment versus posaconazole new formulations (MoveOn). Journal of Antimicrobial Chemotherapy, 2019, 74, 3315-3327.	3.0	30
32	Ega3 from the fungal pathogen Aspergillus fumigatus is an endo-Î±-1,4-galactosaminidase that disrupts microbial biofilms. Journal of Biological Chemistry, 2019, 294, 13833-13849.	3.4	35
33	Global guideline for the diagnosis and management of mucormycosis: an initiative of the European Confederation of Medical Mycology in cooperation with the Mycoses Study Group Education and Research Consortium. Lancet Infectious Diseases, The, 2019, 19, e405-e421.	9.1	970
34	Galactosaminogalactan (GAG) and its multiple roles in Aspergillus pathogenesis. Virulence, 2019, 10, 976-983.	4.4	52
35	Clinical features and cause analysis of false positive results of Aspergillus galactomannan assay in pulmonary cryptococcosis patients. European Journal of Clinical Microbiology and Infectious Diseases, 2019, 38, 735-741.	2.9	9
36	The role of Aspergillus fumigatus polysaccharides in hostâ€“pathogen interactions. Current Opinion in Microbiology, 2019, 52, 20-26.	5.1	13

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37	Molecular mechanism of Aspergillus fumigatus biofilm disruption by fungal and bacterial glycoside hydrolases. Journal of Biological Chemistry, 2019, 294, 10760-10772.	3.4	50
38	The mitochondrial thiamine pyrophosphate transporter TptA promotes adaptation to low iron conditions and virulence in fungal pathogen Aspergillus fumigatus. Virulence, 2019, 10, 234-247.	4.4	7
39	Assembly and disassembly of Aspergillus fumigatus conidial rodlets. Cell Surface, 2019, 5, 100023.	3.0	30
40	Beyond tissue concentrations: antifungal penetration at the site of infection. Medical Mycology, 2019, 57, S161-S167.	0.7	9
41	Triazole Antifungal Susceptibility Patterns among Aspergillus Species in QuÃ©bec, Canada. Journal of Clinical Microbiology, 2019, 57, .	3.9	3
42	Hoisted by their own petard: do microbial enzymes hold the solution to treating and preventing biofilm infections?. Future Microbiology, 2018, 13, 395-398.	2.0	1
43	PtaB, a lim-domain binding protein inAspergillus fumigatusregulates biofilm formation and conidiation through distinct pathways. Cellular Microbiology, 2018, 20, e12799.	2.1	18
44	Deacetylated microbial biofilm exopolysaccharides: It pays to be positive. PLoS Pathogens, 2018, 14, e1007411.	4.7	32
45	PgaB orthologues contain a glycoside hydrolase domain that cleaves deacetylated poly-Î²(1,6)-N-acetylglucosamine and can disrupt bacterial biofilms. PLoS Pathogens, 2018, 14, e1006998.	4.7	59
46	Posaconazole-Loaded Leukocytes as a Novel Treatment Strategy Targeting Invasive Pulmonary Aspergillosis. Journal of Infectious Diseases, 2017, 215, jiw513.	4.0	32
47	Serious fungal infections in Canada. European Journal of Clinical Microbiology and Infectious Diseases, 2017, 36, 987-992.	2.9	35
48	Microbial glycoside hydrolases as antibiofilm agents with cross-kingdom activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7124-7129.	7.1	88
49	7th Advances Against Aspergillosis: Basic, diagnostic, clinical and therapeutic studies. Medical Mycology, 2017, 55, 1-3.	0.7	4
50	FungiScope^{â„¢}â€”Global Emerging Fungal Infection Registry. Mycoses, 2017, 60, 508-516.	4.0	47
51	Cross-Reacting Ustilago maydis Causing False-Positive Cryptococcal Antigen Test Results. Journal of Clinical Microbiology, 2017, 55, 3135-3137.	3.9	5
52	Aspergillusin chronic lung disease: Modeling what goes on in the airways. Medical Mycology, 2017, 55, 39-47.	0.7	30
53	Aspergillus fumigatus CalA binds to integrin Î±5Î²1 and mediates host cell invasion. Nature Microbiology, 2017, 2, 16211.	13.3	75
54	Immune Recognition of Fungal Polysaccharides. Journal of Fungi (Basel, Switzerland), 2017, 3, 47.	3.5	72

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55	The Interface between Fungal Biofilms and Innate Immunity. Frontiers in Immunology, 2017, 8, 1968.	4.8	98
56	Contribution of IL-1RI Signaling to Protection against Cryptococcus neoformans 52D in a Mouse Model of Infection. Frontiers in Immunology, 2017, 8, 1987.	4.8	18
57	Decreased Cell Wall Galactosaminogalactan inAspergillus nidulansMediates Dysregulated Inflammation in the Chronic Granulomatous Disease Host. Journal of Interferon and Cytokine Research, 2016, 36, 488-498.	1.2	18
58	8 The Cell Wall Polysaccharides of Aspergillus fumigatus. , 2016, , 147-165.		1
59	Biofilm Exopolysaccharides of Pathogenic Fungi: Lessons from Bacteria. Journal of Biological Chemistry, 2016, 291, 12529-12537.	3.4	105
60	Aspergillosis and stem cell transplantation: An overview of experimental pathogenesis studies. Virulence, 2016, 7, 950-966.	4.4	16
61	Exopolysaccharide biosynthetic glycoside hydrolases can be utilized to disrupt and prevent Pseudomonas aeruginosa biofilms. Science Advances, 2016, 2, e1501632.	10.3	201
62	Deacetylation of Fungal Exopolysaccharide Mediates Adhesion and Biofilm Formation. MBio, 2016, 7, e00252-16.	4.1	91
63	Impaired RASGRF1/ERKâ€“mediated GM-CSF response characterizes CARD9 deficiency in French-Canadians. Journal of Allergy and Clinical Immunology, 2016, 137, 1178-1188.e7.	2.9	92
64	Recent advances in the understanding of the Aspergillus fumigatus cell wall. Journal of Microbiology, 2016, 54, 232-242.	2.8	68
65	Visual Hallucinations Associated with High Posaconazole Concentrations in Serum. Antimicrobial Agents and Chemotherapy, 2016, 60, 1170-1171.	3.2	28
66	An Antifungal Combination Matrix Identifies a Rich Pool of Adjuvant Molecules that Enhance Drug Activity against Diverse Fungal Pathogens. Cell Reports, 2015, 13, 1481-1492.	6.4	68
67	Invasive Saccharomyces cerevisiae in a liver transplant patient: case report and review of infection in transplant recipients. Transplant Infectious Disease, 2015, 17, 435-441.	1.7	21
68	Sph3 Is a Glycoside Hydrolase Required for the Biosynthesis of Galactosaminogalactan in Aspergillus fumigatus. Journal of Biological Chemistry, 2015, 290, 27438-27450.	3.4	77
69	Evolution of the Immune Response to Chronic Airway Colonization with Aspergillus fumigatus Hyphae. Infection and Immunity, 2015, 83, 3590-3600.	2.2	31
70	Divergent Targets of Aspergillus fumigatus AcuK and AcuM Transcription Factors during Growth In Vitro versus Invasive Disease. Infection and Immunity, 2015, 83, 923-933.	2.2	29
71	International expert opinion on the management of infection caused by azole-resistant Aspergillus fumigatus. Drug Resistance Updates, 2015, 21-22, 30-40.	14.4	262
72	Host Cell Invasion by Medically Important Fungi. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a019687-a019687.	6.2	56

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73	The Fungal Exopolysaccharide Galactosaminogalactan Mediates Virulence by Enhancing Resistance to Neutrophil Extracellular Traps. PLoS Pathogens, 2015, 11, e1005187.	4.7	167
74	Accumulation of Ergot Alkaloids During Conidiophore Development in Aspergillus fumigatus. Current Microbiology, 2014, 68, 1-5.	2.2	17
75	Improvement in the outcome of invasive fusariosis in the last decade. Clinical Microbiology and Infection, 2014, 20, 580-585.	6.0	151
76	Overlapping and Distinct Roles of Aspergillus fumigatus UDP-glucose 4-Epimerases in Galactose Metabolism and the Synthesis of Galactose-containing Cell Wall Polysaccharides. Journal of Biological Chemistry, 2014, 289, 1243-1256.	3.4	102
77	CARD9 Deficiency and Spontaneous Central Nervous System Candidiasis: Complete Clinical Remission With GM-CSF Therapy. Clinical Infectious Diseases, 2014, 59, 81-84.	5.8	153
78	Understanding antifungal prophylaxis with posaconazole in hematology patients: an evolving bedside to bench story. Haematologica, 2014, 99, 603-604.	3.5	10
79	Combined antifungal approach for the treatment of invasive mucormycosis in patients with hematologic diseases: a report from the SEIFEM and FUNGISCOPE registries. Haematologica, 2013, 98, e127-e130.	3.5	99
80	Pharmacokinetics of Posaconazole Within Epithelial Cells and Fungi: Insights Into Potential Mechanisms of Action During Treatment and Prophylaxis. Journal of Infectious Diseases, 2013, 208, 1717-1728.	4.0	45
81	Aspergillus Galactosaminogalactan Mediates Adherence to Host Constituents and Conceals Hyphal Î²-Glucan from the Immune System. PLoS Pathogens, 2013, 9, e1003575.	4.7	256
82	Endemic human blastomycosis in Quebec, Canada, 1988â€“2011. Epidemiology and Infection, 2013, 141, 1143-1147.	2.1	25
83	Both Group 4 Capsule and Lipopolysaccharide O-Antigen Contribute to Enteropathogenic Escherichia coli Resistance to Human Î±-Defensin 5. PLoS ONE, 2013, 8, e82475.	2.5	22
84	Acquired Omenn-Like Syndrome, a Novel Posttransplant Autoaggression Syndrome Reversed by Rapamycin. Vaccine Journal, 2012, 19, 109-112.	3.1	1
85	Role of Aspergillus niger acrA in Arsenic Resistance and Its Use as the Basis for an Arsenic Biosensor. Applied and Environmental Microbiology, 2012, 78, 3855-3863.	3.1	31
86	Positive Cultures of Organ Preservation Fluid Predict Postoperative Infections in Solid Organ Transplantation Recipients. Infection Control and Hospital Epidemiology, 2012, 33, 672-680.	1.8	28
87	A Case of Indolent Endocarditis. Canadian Journal of Infectious Diseases and Medical Microbiology, 2012, 23, e51-e52.	1.9	1
88	Targeted Gene Deletion in Aspergillus fumigatus Using the Hygromycin-Resistance Split-Marker Approach. Methods in Molecular Biology, 2012, 845, 119-130.	0.9	31
89	A Conserved C-Terminal Domain of the Aspergillus fumigatus Developmental Regulator MedA Is Required for Nuclear Localization, Adhesion and Virulence. PLoS ONE, 2012, 7, e49959.	2.5	24
90	The Role of Mast Cells in the Defence against Pathogens. PLoS Pathogens, 2012, 8, e1002619.	4.7	156

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91	Molecular mechanism of Aspergillus fumigatus adherence to host constituents. Current Opinion in Microbiology, 2011, 14, 375-379.	5.1	88
92	Concentration of Antifungal Agents within Host Cell Membranes: a New Paradigm Governing the Efficacy of Prophylaxis. Antimicrobial Agents and Chemotherapy, 2011, 55, 5732-5739.	3.2	69
93	Aspergillus fumigatus AcuM regulates both iron acquisition and gluconeogenesis. Molecular Microbiology, 2010, 78, 1038-1054.	2.5	53
94	Aspergillus fumigatusMedA governs adherence, host cell interactions and virulence. Cellular Microbiology, 2010, 12, 473-488.	2.1	124
95	Role of Aspergillus fumigatus DvrA in Host Cell Interactions and Virulence. Eukaryotic Cell, 2010, 9, 1432-1440.	3.4	31
96	Role of Trehalose Biosynthesis in Aspergillus fumigatus Development, Stress Response, and Virulence. Infection and Immunity, 2010, 78, 3007-3018.	2.2	136
97	Clinical utility and prognostic value of bronchoalveolar lavage galactomannan in patients with hematologic malignancies. Diagnostic Microbiology and Infectious Disease, 2010, 68, 132-139.	1.8	38
98	Articular aspergillosis: case report and review of the literature. International Journal of Infectious Diseases, 2010, 14, e433-e435.	3.3	18
99	Transcriptional Profiling Identifies a Role for BrlA in the Response to Nitrogen Depletion and for StuA in the Regulation of Secondary Metabolite Clusters in Aspergillus fumigatus. Eukaryotic Cell, 2009, 8, 104-115.	3.4	104
100	Aspergillus fumigatusInduces Immunoglobulin Eâ€“Independent Mast Cell Degranulation. Journal of Infectious Diseases, 2009, 200, 464-472.	4.0	51
101	The Aspergillus fumigatus transcription factor Ace2 governs pigment production, conidiation and virulence. Molecular Microbiology, 2009, 72, 155-169.	2.5	45
102	Polarized response of endothelial cells to invasion byAspergillus fumigatus. Cellular Microbiology, 2009, 11, 170-182.	2.1	29
103	Complementary Adhesin Function in C. albicans Biofilm Formation. Current Biology, 2008, 18, 1017-1024.	3.9	293
104	Utility of the Germ Tube Test for Direct Identification of Candida albicans from Positive Blood Culture Bottles. Journal of Clinical Microbiology, 2008, 46, 3508-3509.	3.9	40
105	In Vivo Analysis of Aspergillus fumigatus Developmental Gene Expression Determined by Real-Time Reverse Transcription-PCR. Infection and Immunity, 2008, 76, 3632-3639.	2.2	48
106	Aspergillus fumigatus Stimulates Leukocyte Adhesion Molecules and Cytokine Production by Endothelial Cells In Vitro and during Invasive Pulmonary Disease. Infection and Immunity, 2008, 76, 3429-3438.	2.2	56
107	Als3 Is a Candida albicans Invasin That Binds to Cadherins and Induces Endocytosis by Host Cells. PLoS Biology, 2007, 5, e64.	5.6	492
108	Candida albicansAls proteins mediate aggregation with bacteria and yeasts. Medical Mycology, 2007, 45, 363-370.	0.7	106

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109	Candida albicans protein kinase CK2 governs virulence during oropharyngeal candidiasis. Cellular Microbiology, 2007, 9, 233-245.	2.1	50
110	Comparison of three methodologies for the determination of pulmonary fungal burden in experimental murine aspergillosis. Clinical Microbiology and Infection, 2006, 12, 376-380.	6.0	66
111	Antifungal Prophylaxis Is Effective against Murine Invasive Pulmonary Aspergillosis. Antimicrobial Agents and Chemotherapy, 2006, 50, 2895-2896.	3.2	7
112	Standardization of an Experimental Murine Model of Invasive Pulmonary Aspergillosis. Antimicrobial Agents and Chemotherapy, 2006, 50, 3501-3503.	3.2	51
113	Progressive loss of echinocandin activity following prolonged use for treatment of Candida albicans oesophagitis. Journal of Antimicrobial Chemotherapy, 2006, 57, 705-708.	3.0	189
114	Fungal Invasion of Normally Non-Phagocytic Host Cells. PLoS Pathogens, 2006, 2, e129.	4.7	237
115	Interactions of Fungi with Endothelial Cells. , 2005, , 403-419.		0
116	TheAspergillus fumigatusStuA Protein Governs the Up-Regulation of a Discrete Transcriptional Program during the Acquisition of Developmental Competence. Molecular Biology of the Cell, 2005, 16, 5866-5879.	2.1	114
117	Effects of Ploidy and Mating Type on Virulence of Candida albicans. Infection and Immunity, 2005, 73, 7366-7374.	2.2	46
118	Tumor Necrosis Factor Inhibition and Invasive Fungal Infections. Clinical Infectious Diseases, 2005, 41, S208-S212.	5.8	99
119	Taf1: A class II transposon of Aspergillus fumigatus. Fungal Genetics and Biology, 2005, 42, 638-645.	2.1	22
120	Editorial Commentary: Development of a Vaccine for Invasive Aspergillosis. Clinical Infectious Diseases, 2004, 38, 1137-1138.	5.8	10
121	Functional and Structural Diversity in the Als Protein Family of Candida albicans. Journal of Biological Chemistry, 2004, 279, 30480-30489.	3.4	254
122	Novel Inhalational Murine Model of Invasive Pulmonary Aspergillosis. Antimicrobial Agents and Chemotherapy, 2004, 48, 1908-1911.	3.2	135
123	Role of the fungal Ras-protein kinase A pathway in governing epithelial cell interactions during oropharyngeal candidiasis. Cellular Microbiology, 2004, 7, 499-510.	2.1	182
124	Functional analysis of theCandida albicans ALS1 gene product. Yeast, 2004, 21, 473-482.	1.7	77
125	Human Mycoses: The Role of Molecular Biology. , 2004, , 361-384.		3
126	Candida albicans Als1p: an adhesin that is a downstream effector of the EFG1 filamentation pathway. Molecular Microbiology, 2002, 44, 61-72.	2.5	203

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127	Entamoeba histolytica and Entamoeba dispar: Epidemiology and Comparison of Diagnostic Methods in a Setting of Nonendemicity. Clinical Infectious Diseases, 1999, 29, 1315-1318.	5.8	101
128	Risk Factors for Nosocomial Candiduria Due toCandida glabrataandCandida albicans. Clinical Infectious Diseases, 1999, 29, 926-928.	5.8	86
129	Simple Strategy for Direct Identification of Medically Important Yeast Species from Positive Blood Culture Vials. Journal of Clinical Microbiology, 1999, 37, 2040-2041.	3.9	11
130	Streptococcus pneumoniae Transmission in Chronic-Care Facilities: Description of an Outbreak and Review of Management Strategies. Infection Control and Hospital Epidemiology, 1998, 19, 851-853.	1.8	11
131	Evaluation of the Auxacolor System for Biochemical Identification of Medically Important Yeasts. Journal of Clinical Microbiology, 1998, 36, 3726-3727.	3.9	13
132	Primary Septic Arthritis and Osteomyelitis Due toMycobacterium aviumComplex in a Patient with AIDS. Clinical Infectious Diseases, 1997, 25, 925-926.	5.8	24
133	Molecular Basis of Fungal Adherence to Endothelial and Epithelial Cells. , 0, , 187-196.		3