Richard D Cannon

List of Publications by Year
in descending order

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127	5,515	87888	88630
papers	citations	38 h-index	70 g-index

128	128	128	5262
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efflux-Mediated Antifungal Drug Resistance. Clinical Microbiology Reviews, 2009, 22, 291-321.	13.6	483
2	Oral Candida: Clearance, Colonization, or Candidiasis?. Journal of Dental Research, 1995, 74, 1152-1161.	5.2	289
3	Oral Colonization By Candida Albicans. Critical Reviews in Oral Biology and Medicine, 1999, 10, 359-383.	4.4	242
4	Architecture of a single membrane spanning cytochrome P450 suggests constraints that orient the catalytic domain relative to a bilayer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3865-3870.	7.1	231
5	Candida albicans drug resistance â€“ another way to cope with stress. Microbiology (United Kingdom), 2007, 153, 3211-3217.	1.8	183
6	Functional Expression of Candida albicans Drug Efflux Pump Cdr1p in a Saccharomyces cerevisiae Strain Deficient in Membrane Transporters. Antimicrobial Agents and Chemotherapy, 2001, 45, 3366-3374.	3.2	174
7	Characterization of Three Classes of Membrane Proteins Involved in Fungal Azole Resistance by Functional Hyperexpression in Saccharomyces cerevisiae. Eukaryotic Cell, 2007, 6, 1150-1165.	3.4	173
8	ABC Transporter Cdr1p Contributes More than Cdr2p Does to Fluconazole Efflux in Fluconazole-Resistant Candida albicans Clinical Isolates. Antimicrobial Agents and Chemotherapy, 2008, 52, 3851-3862.	3.2	144
9	Fungal PDR transporters: Phylogeny, topology, motifs and function. Fungal Genetics and Biology, 2010, 47, 127-142.	2.1	141
10	The metabolic basis of Candida albicans morphogenesis and quorum sensing. Fungal Genetics and Biology, 2011, 48, 747-763.	2.1	141
11	Antifungal drug resistance of oral fungi. Odontology / the Society of the Nippon Dental University, 2010, 98, 15-25.	1.9	131
12	Specific Chromosome Alterations in Fluconazole-Resistant Mutants of Candida albicans. Journal of Bacteriology, 1999, 181, 4041-4049.	2.2	129
13	Overexpression of Candida albicans CDR1 , CDR2 , or MDR1 Does Not Produce Significant Changes in Echinocandin Susceptibility. Antimicrobial Agents and Chemotherapy, 2006, 50, 1148-1155.	3.2	123
14	Revisiting the association between candidal infection and carcinoma, particularly oral squamous cell carcinoma. Journal of Oral Microbiology, 2010, 2, 5780.	2.7	114
15	Identification of Nile red as a fluorescent substrate of the Candida albicans ATP-binding cassette transporters Cdr1p and Cdr2p and the major facilitator superfamily transporter Mdr1p. Analytical Biochemistry, 2009, 394, 87-91.	2.4	103
16	Abc1p Is a Multidrug Efflux Transporter That Tips the Balance in Favor of Innate Azole Resistance in Candida krusei. Antimicrobial Agents and Chemotherapy, 2009, 53, 354-369.	3.2	93
17	Targeting efflux pumps to overcome antifungal drug resistance. Future Medicinal Chemistry, 2016, 8, 1485-1501.	2.3	89
18	The Monoamine Oxidase A Inhibitor Clorgyline Is a Broad-Spectrum Inhibitor of Fungal ABC and MFS Transporter Efflux Pump Activities Which Reverses the Azole Resistance of Candida albicans and Candida glabrata Clinical Isolates. Antimicrobial Agents and Chemotherapy, 2012, 56, 1508-1515.	3.2	85

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19	Adhesion of Candida albicans to oral streptococci is promoted by selective adsorption of salivary proteins to the streptococcal cell surface. Microbiology (United Kingdom), 2000, 146, 41-48.	1.8	84
20	A Logicâ€Based Diagnostic and Therapeutic Hydrogel with Multistimuli Responsiveness to Orchestrate Diabetic Bone Regeneration. Advanced Materials, 2022, 34, e2108430.	21.0	84
21	Cloning and expression of Candida albicans ADE2 and proteinase genes on a replicative plasmid in C. albicans and in Saccharomyces cerevisiae. Molecular Genetics and Genomics, 1992, 235, 453-457.	2.4	73
22	Evidence for a general-purpose genotype in Candida albicans , highly prevalent in multiple geographical regions, patient types and types of infection. Microbiology (United Kingdom), 1999, 145, 2405-2413.	1.8	73
23	Isolation and nucleotide sequence of an autonomously replicating sequence (ARS) element functional in Candida albicans and Saccharomyces cerevisiae. Molecular Genetics and Genomics, 1990, 221, 210-218.	2.4	71
24	Sixty Alleles of the ALS7 Open Reading Frame in Candida albicans: ALS7 Is a Hypermutable Contingency Locus. Genome Research, 2003, 13, 2005-2017.	5.5	68
25	Interactions ofCandida albicans with bacteria and salivary molecules in oral biofilms. Journal of Industrial Microbiology, 1995, 15, 208-213.	0.9	63
26	Surface-Active Fungicidal d -Peptide Inhibitors of the Plasma Membrane Proton Pump That Block Azole Resistance. Antimicrobial Agents and Chemotherapy, 2005, 49, 57-70.	3.2	62
27	Regulated overexpression of CDR1 in Candida albicans confers multidrug resistance. Journal of Antimicrobial Chemotherapy, 2004, 54, 999-1006.	3.0	61
28	Heterozygosity and functional allelic variation in the Candida albicans efflux pump genes CDR1 and CDR2. Molecular Microbiology, 2006, 62, 170-186.	2.5	61
29	Antifungal Saponins fromParis polyphyllaSmith. Planta Medica, 2008, 74, 1397-1402.	1.3	60
30	Candida glabrata ATP-binding Cassette Transporters Cdr1p and Pdh1p Expressed in aSaccharomyces cerevisiae Strain Deficient in Membrane Transporters Show Phosphorylation-dependent Pumping Properties. Journal of Biological Chemistry, 2002, 277, 46809-46821.	3.4	58
31	Inhibitors of the Candida albicans Major Facilitator Superfamily Transporter Mdr1p Responsible for Fluconazole Resistance. PLoS ONE, 2015, 10, e0126350.	2.5	51
32	Esthetic comparison of white-spot lesion treatment modalities using spectrometry and fluorescence. Angle Orthodontist, 2014, 84, 343-349.	2.4	46
33	Effect of calcium ion uptake onCandida albicansmorphology. FEMS Microbiology Letters, 1991, 77, 187-194.	1.8	45
34	Candida albicans pathogenicity: A proteomic perspective. Electrophoresis, 1999, 20, 2299-2308.	2.4	45
35	Halitosis: prevalence, risk factors, sources, measurement and treatment â€“ a review of the literature. Australian Dental Journal, 2020, 65, 4-11.	1.5	45
36	Candida albicans binds to saliva proteins selectively adsorbed to silicone. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2006, 102, 488-494.	1.4	42

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37	Insight into Pleiotropic Drug Resistance ATP-binding Cassette Pump Drug Transport through Mutagenesis of Cdr1p Transmembrane Domains*. Journal of Biological Chemistry, 2013, 288, 24480-24493.	3.4	42
38	Specific interactions between the Candida albicans ABC transporter Cdr1p ectodomain and a <scp>d</scp>â€octapeptide derivative inhibitor. Molecular Microbiology, 2012, 85, 747-767.	2.5	41
39	Oral probiotics reduce halitosis in patients wearing orthodontic braces: a randomized, triple-blind, placebo-controlled trial. Journal of Breath Research, 2019, 13, 036010.	3.0	40
40	Identification of salivary basic proline-rich proteins as receptors for Candida albicans adhesion. Microbiology (United Kingdom), 1997, 143, 341-348.	1.8	40
41	A metabolomic study of the effect of Candida albicans glutamate dehydrogenase deletion on growth and morphogenesis. Npj Biofilms and Microbiomes, 2019, 5, 13.	6.4	39
42	Phosphorylation of Candida glabrata ATP-binding Cassette Transporter Cdr1p Regulates Drug Efflux Activity and ATPase Stability. Journal of Biological Chemistry, 2005, 280, 94-103.	3.4	35
43	Colonization is a Crucial Factor in Oral Candidiasis. Journal of Dental Education, 2001, 65, 785-787.	1.2	34
44	Saliva Promotes Candida albicans Adherence to Human Epithelial Cells. Journal of Dental Research, 2002, 81, 28-32.	5.2	34
45	Identification of two proteins induced by exposure of the pathogenic fungus Candida glabrata to fluconazole. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 782, 245-252.	2.3	34
46	Functional analysis of fungal drug efflux transporters by heterologous expression in Saccharomyces cerevisiae. Japanese Journal of Infectious Diseases, 2005, 58, 1-7.	1.2	34
47	A d-octapeptide drug efflux pump inhibitor acts synergistically with azoles in a murine oral candidiasis infection model. FEMS Microbiology Letters, 2012, 328, 130-137.	1.8	31
48	Beauvericin counteracted multi-drug resistant Candida albicans by blocking ABC transporters. Synthetic and Systems Biotechnology, 2016, 1, 158-168.	3.7	31
49	Nano-hydroxyapatite mineralized silk fibroin porous scaffold for tooth extraction site preservation. Dental Materials, 2019, 35, 1397-1407.	3.5	30
50	Effect of non-fluoride agents on the prevention of dental caries in primary dentition: A systematic review. PLoS ONE, 2017, 12, e0182221.	2.5	29
51	The metabolic response ofCandida albicansto farnesol under hyphae-inducing conditions. FEMS Yeast Research, 2012, 12, 879-889.	2.3	28
52	Molecular cloning of a Rho family,CDC42Cagene fromCandida albicansand its mRNA expression changes during morphogenesis. Medical Mycology, 1997, 35, 173-179.	0.7	25
53	Characterization of twoCandida albicanssurface mannoprotein adhesins that bind immobilized saliva components. Medical Mycology, 2005, 43, 209-217.	0.7	25
54	Metabolome analysis during the morphological transition of Candida albicans. Metabolomics, 2012, 8, 1204-1217.	3.0	24

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55	The diagnostic accuracy of saliva testing for SARSâ€CoVâ€2: AÂsystematic review and metaâ€analysis. Oral Diseases, 2022, 28, 2347-2361.	3.0	24
56	Selective Advantages of a Parasexual Cycle for the YeastCandida albicans. Genetics, 2015, 200, 1117-1132.	2.9	23
57	Chimeras of Candida albicans Cdr1p and Cdr2p reveal features of pleiotropic drug resistance transporter structure and function. Molecular Microbiology, 2011, 82, 416-433.	2.5	22
58	Genetic Polymorphisms inFGFR2Underlie Skeletal Malocclusion. Journal of Dental Research, 2019, 98, 1340-1347.	5.2	22
59	Metabolic Response of Candida albicans to Phenylethyl Alcohol under Hyphae-Inducing Conditions. PLoS ONE, 2013, 8, e71364.	2.5	21
60	Small, synthetic, GC-rich mRNA stem-loop modules 5â€² proximal to the AUG start-codon predictably tune gene expression in yeast. Microbial Cell Factories, 2013, 12, 74.	4.0	20
61	FK506 Resistance of Saccharomyces cerevisiae Pdr5 and Candida albicans Cdr1 Involves Mutations in the Transmembrane Domains and Extracellular Loops. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	20
62	Efficacy of removing Candida albicans from orthodontic acrylic bases: an in vitro study. BMC Oral Health, 2019, 19, 71.	2.3	19
63	Correlation between the sterol composition of membranes and morphology inCandida albicans. Medical Mycology, 1988, 26, 57-65.	0.7	18
64	Drug Pumping Mechanisms in Canadida albicans.. Medical Mycology Journal, 1998, 39, 73-78.	0.7	18
65	Mechanisms of aggregation accompanying morphogenesis in Candida albicans. Oral Microbiology and Immunology, 1992, 7, 32-37.	2.8	17
66	Production from dairy cows of semi-industrial quantities of milk-protein concentrate (MPC) containing efficacious anti-Candida albicansIgA antibodies. Journal of Dairy Research, 2007, 74, 269-275.	1.4	17
67	Use of denaturing gradient gel electrophoresis for the identification of mixed oral yeasts in human saliva. Journal of Medical Microbiology, 2013, 62, 319-330.	1.8	16
68	Multilocus sequence typing (MLST) analysis ofCandida albicansisolates colonizing acrylic dentures before and after denture replacement. Medical Mycology, 2016, 55, myw128.	0.7	16
69	Atomic force microscopy analysis of enamel nanotopography after interproximal reduction. American Journal of Orthodontics and Dentofacial Orthopedics, 2017, 151, 750-757.	1.7	16
70	Reconstitution of high-level micafungin resistance detected in a clinical isolate of Candida glabrata identifies functional homozygosity in glucan synthase gene expression. Journal of Antimicrobial Chemotherapy, 2012, 67, 1666-1676.	3.0	15
71	Adherence of Candida albicans to silicone is promoted by the human salivary protein <scp>SPLUNC</scp>2/<scp>PSP</scp>/<scp>BPIFA</scp>2. Molecular Oral Microbiology, 2014, 29, 90-98.	2.7	15
72	Learning the <scp>ABC</scp> of oral fungal drug resistance. Molecular Oral Microbiology, 2015, 30, 425-437.	2.7	15

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73	Identification and characterization ofCandida utilismultidrug efflux transporterCuCdr1p. FEMS Yeast Research, 2016, 16, fow042.	2.3	15
74	Yeast Species in the Oral Cavities of Older People: A Comparison between People Living in Their Own Homes and Those in Rest Homes. Journal of Fungi (Basel, Switzerland), 2019, 5, 30.	3.5	15
75	Molecular biological and biochemical aspects of fungal dimorphism. Medical Mycology, 1994, 32, 53-64.	0.7	14
76	Characterization of the Saccharomyces cerevisiae sec6-41 mutation and tools to create S. cerevisiae strains containing the sec6-4 allele. Gene, 2005, 361, 57-66.	2.2	14
77	Drug Resistance Is Conferred on the Model Yeast Saccharomyces cerevisiae by Expression of Full-Length Melanoma-Associated Human ATP-Binding Cassette Transporter ABCB5. Molecular Pharmaceutics, 2014, 11, 3452-3462.	4.6	14
78	Effect of Air-Polishing on Titanium Surfaces, Biofilm Removal, and Biocompatibility: A Pilot Study. BioMed Research International, 2015, 2015, 1-8.	1.9	14
79	Complex patterns of circulating fatty acid levels in gestational diabetes mellitus subclasses across pregnancy. Clinical Nutrition, 2021, 40, 4140-4148.	5.0	14
80	Molecular cloning of a gene encoding translation initiation factor (TIF) fromCandida albicans. Medical Mycology, 1996, 34, 393-400.	0.7	13
81	Saliva Promotes Candida albicans Adherence to Human Epithelial Cells. Journal of Dental Research, 2002, 81, 28-32.	5.2	12
82	In vitro expression of Candida albicans alcohol dehydrogenase genes involved in acetaldehyde metabolism. Molecular Oral Microbiology, 2015, 30, 27-38.	2.7	12
83	Secretory component mediates Candida albicans binding to epithelial cells. Oral Diseases, 2016, 22, 69-74.	3.0	12
84	Role of Ectopic Gene Conversion in the Evolution of a Candida krusei Pleiotropic Drug Resistance Transporter Family. Genetics, 2017, 205, 1619-1639.	2.9	12
85	Distribution of mutations distinguishing the most prevalent disease-causing Candida albicans genotype from other genotypesâ˜†. Infection, Genetics and Evolution, 2009, 9, 493-500.	2.3	11
86	N-acetylglucosamine increases symptoms and fungal burden in a murine model of oral candidiasis. Medical Mycology, 2012, 50, 252-258.	0.7	11
87	Detection of <scp>C</scp>andida albicans ADH1 and ADH2 m<scp>RNA</scp>s in human archival oral biopsy samples. Journal of Oral Pathology and Medicine, 2014, 43, 704-710.	2.7	11
88	Simultaneous wireless assessment of intra-oral pH and temperature. Journal of Dentistry, 2016, 51, 49-55.	4.1	11
89	Identification and functional characterization ofPenicillium marneffeipleiotropic drug resistance transportersABC1andABC2. Medical Mycology, 2016, 54, 478-491.	0.7	11
90	A 23 bp cyp51A Promoter Deletion Associated With Voriconazole Resistance in Clinical and Environmental Isolates of Neocosmospora keratoplastica. Frontiers in Microbiology, 2020, 11, 272.	3.5	11

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91	Oral Fungal Infections: Past, Present, and Future. Frontiers in Oral Health, 2022, 3, 838639.	3.0	11
92	Interactions of Actinomyces naeslundii strains T14V and ATCC 12104 with saliva, collagen and fibrinogen. Archives of Oral Biology, 1993, 38, 533-535.	1.8	10
93	Genomic Pathways to Antifungal Discovery. Current Drug Targets Infectious Disorders, 2002, 2, 309-329.	2.1	10
94	Temperature-related expression of the vacuolar aspartic proteinase (APR1) gene and ÃŽÂ²-N-acetylglucosaminidase (HEX1) gene during Candida albicans morphogenesis. FEMS Microbiology Letters, 1997, 148, 247-254.	1.8	9
95	Detection of Candida albicans mRNA in Archival Histopathology Samples by Reverse Transcription-PCR. Journal of Clinical Microbiology, 2004, 42, 2275-2278.	3.9	9
96	Impact of Genetic Background on Allele Selection in a Highly Mutable Candida albicans Gene, PNG2. PLoS ONE, 2010, 5, e9614.	2.5	9
97	Adhesion of Yeast and Bacteria to Oral Surfaces. Methods in Molecular Biology, 2010, 666, 103-124.	0.9	8
98	The Role of Biofilms and Material Surface Characteristics in Microbial Adhesion to Maxillary Obturator Materials: A Literature Review. Cleft Palate-Craniofacial Journal, 2020, 57, 487-498.	0.9	8
99	Distinguishing Candida Species by Î²- N -Acetylhexosaminidase Activity. Journal of Clinical Microbiology, 2001, 39, 2089-2097.	3.9	7
100	Yeast Colonization of Voice Prostheses: Pilot Study Investigating Effect of a Bovine Milk Product Containing Antiâ€”Candida Albicans Immunoglobulin A Antibodies on Yeast Colonization and Valve Leakage. Annals of Otology, Rhinology and Laryngology, 2012, 121, 61-66.	1.1	7
101	Heterologous expression ofCandida albicansPma1p inSaccharomyces cerevisiae. FEMS Yeast Research, 2013, 13, 302-311.	2.3	7
102	Last hope for the doomed? Thoughts on the importance of a parasexual cycle for the yeast Candida albicans. Current Genetics, 2016, 62, 81-85.	1.7	7
103	PDR Transporter ABC1 Is Involved in the Innate Azole Resistance of the Human Fungal Pathogen Fusarium keratoplasticum. Frontiers in Microbiology, 2021, 12, 673206.	3.5	7
104	Temperature-related expression of the vacuolar aspartic proteinase (APR1) gene and Î²-N-acetylglucosaminidase (HEX1) gene during Candida albicans morphogenesis. FEMS Microbiology Letters, 2006, 148, 247-254.	1.8	6
105	Candida albicans Bgl2p, Ecm33p, and Als1p proteins are involved in adhesion to saliva-coated hydroxyapatite. Journal of Oral Microbiology, 2021, 13, 1879497.	2.7	6
106	Engineering a Cysteine-Deficient Functional Candida albicans Cdr1 Molecule Reveals a Conserved Region at the Cytosolic Apex of ABCG Transporters Important for Correct Folding and Trafficking of Cdr1. MSphere, 2021, 6, .	2.9	6
107	The effect of ligation methods on biofilm formation in patients undergoing multiâ€bracketed fixed orthodontic therapy â€“ A systematic review. Orthodontics and Craniofacial Research, 2022, 25, 14-30.	2.8	6
108	Newly identified motifs in Candida albicans Cdr1 protein nucleotide binding domains are pleiotropic drug resistance subfamily-specific and functionally asymmetric. Scientific Reports, 2016, 6, 27132.	3.3	6

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109	Inhibitor Resistant Mutants Give Important Insights into Candida albicans ABC Transporter Cdr1 Substrate Specificity and Help Elucidate Efflux Pump Inhibition. Antimicrobial Agents and Chemotherapy, 2021, , AAC0174821.	3.2	6
110	A futile act? Thoughts on the reproductive biology of Candida albicans. The Mycologist, 2004, 18, 158-163.	0.4	5
111	Small-Scale Plasma Membrane Preparation for the Analysis of Candida albicans Cdr1-mGFPHis. Journal of Visualized Experiments, 2021, , .	0.3	5
112	Adhesion of Yeast and Bacteria to Oral Surfaces. Methods in Molecular Biology, 2017, 1537, 165-190.	0.9	4
113	Use of a Yeast-Based Membrane Protein Expression Technology to Overexpress Drug Resistance Efflux Pumps. Methods in Molecular Biology, 2010, 666, 219-250.	0.9	4
114	CD39/CD73 Dysregulation of Adenosine Metabolism Increases Decidual Natural Killer Cell Cytotoxicity: Implications in Unexplained Recurrent Spontaneous Abortion. Frontiers in Immunology, 2022, 13, 813218.	4.8	4
115	Amino Acid Residues Affecting Drug Pump Function in Candida albicans-C. albicans Drug Pump Function-. Medical Mycology Journal, 2006, 47, 275-281.	0.7	3
116	Structureâ€“Function Analyses of Multidrug Transporters. , 2017, , 379-406.		3
117	Denaturing gradient gel electrophoresis profiles of bacteria from the saliva of twenty four different individuals form clusters that showed no relationship to the yeasts present. Archives of Oral Biology, 2017, 82, 6-10.	1.8	3
118	Candida albicans HEX1 gene, a reporter of gene expression in Saccharomyces cerevisiae. Archives of Microbiology, 1998, 170, 113-119.	2.2	2
119	An inâ€vitro device for the assessment of biofilm mediated voice prosthesis damage: how we do it. Clinical Otolaryngology, 2009, 34, 481-484.	1.2	2
120	Dental research in New Zealand, past, present, and future. Journal of the Royal Society of New Zealand, 2020, 50, 1-3.	1.9	2
121	Interproximal reduction in orthodontics: why, where, how much to remove?. Australasian Orthodontic Journal, 2017, 33, 150-157.	0.3	2
122	Efficacy of air/water syringe tip sterilization. Australian Dental Journal, 2014, 59, 87-92.	1.5	1
123	Microbial Analysis of Obturators During Maxillofacial Prosthodontic Treatment Over an 8-Year Period. Cleft Palate-Craniofacial Journal, 2023, 60, 1426-1441.	0.9	1
124	Postnatal expression of chondrogenic and osteogenic regulatory factor mRNA in the rat condylar cartilage. Archives of Oral Biology, 2018, 93, 126-132.	1.8	0
125	Differential behaviour and gene expression in 3D cultures of femoralâ€and calvarialâ€derived human osteoblasts under a cyclic compressive mechanical load. European Journal of Oral Sciences, 2021, , .	1.5	0
126	Sugar in your diet: kino te pai! an evaluation of oral health science outreach and community impact. International Journal of Health Promotion and Education, 0, , 1-13.	0.9	0

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127	Candida albicans pathogenicity: A proteomic perspective. , 0, , 28-37.		0