Diane E Kelly

List of Publications by Year
in descending order

71	4,540	87888 38	106344 65
papers	citations	h-index	g-index

72	72	72	4076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cytochrome P450 168A1 from Pseudomonas aeruginosa is involved in the hydroxylation of biologically relevant fatty acids. PLoS ONE, 2022, 17, e0265227.	2.5	2
2	Widespread distribution of resistance to triazole fungicides in Brazilian populations of the wheat blast pathogen. Plant Pathology, 2021, 70, 436-448.	2.4	23
3	Smallâ€Molecule Inhibitors Targeting Sterol 14Î±â€Demethylase (CYP51): Synthesis, Molecular Modelling and Evaluation Against Candida albicans. ChemMedChem, 2020, 15, 1294-1309.	3.2	17
4	Abnormal Neural Responses During Reflexive Blinking in Blepharospasm: An Eventâ€Related Functional MRI Study. Movement Disorders, 2020, 35, 1173-1180.	3.9	7
5	Isavuconazole and voriconazole inhibition of sterol 14Î±-demethylases (CYP51) from Aspergillus fumigatus and Homo sapiens. International Journal of Antimicrobial Agents, 2019, 54, 449-455.	2.5	9
6	The Evolution of Azole Resistance in Candida albicans Sterol 14Î±-Demethylase (CYP51) through Incremental Amino Acid Substitutions. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	32
7	Additional pathways of sterol metabolism: Evidence from analysis of Cyp27a1â^'/â^' mouse brain and plasma. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 191-211.	2.4	29
8	In Vitro and In Vivo Efficacy of a Novel and Long-Acting Fungicidal Azole, PC1244, on Aspergillus fumigatus Infection. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	24
9	Functional importance for developmental regulation of sterol biosynthesis in Acanthamoeba castellanii. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1164-1178.	2.4	14
10	In Vitro and In Vivo Antifungal Profile of a Novel and Long-Acting Inhaled Azole, PC945, on Aspergillus fumigatus Infection. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	60
11	The Tetrazole VT-1161 Is a Potent Inhibitor of Trichophyton rubrum through Its Inhibition of T. rubrum CYP51. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	20
12	Azole sensitivity in Leptosphaeria pathogens of oilseed rape: the role of lanosterol 14Î±-demethylase. Scientific Reports, 2017, 7, 15849.	3.3	11
13	Co-production of 11Î±-hydroxyprogesterone and ethanol using recombinant yeast expressing fungal steroid hydroxylases. Biotechnology for Biofuels, 2017, 10, 226.	6.2	14
14	Azole Antifungal Sensitivity of Sterol 14Î±-Demethylase (CYP51) and CYP5218 from Malassezia globosa. Scientific Reports, 2016, 6, 27690.	3.3	14
15	The Investigational Drug VT-1129 Is a Highly Potent Inhibitor of Cryptococcus Species CYP51 but Only Weakly Inhibits the Human Enzyme. Antimicrobial Agents and Chemotherapy, 2016, 60, 4530-4538.	3.2	57
16	Azole Antifungal Agents To Treat the Human Pathogens Acanthamoeba castellanii and Acanthamoeba polyphaga through Inhibition of Sterol 14Î±-Demethylase (CYP51). Antimicrobial Agents and Chemotherapy, 2015, 59, 4707-4713.	3.2	33
17	Novel Substrate Specificity and Temperature-Sensitive Activity of Mycosphaerella graminicola CYP51 Supported by the Native NADPH Cytochrome P450 Reductase. Applied and Environmental Microbiology, 2015, 81, 3379-3386.	3.1	13
18	Azole fungicidesÂ-Âunderstanding resistance mechanisms in agricultural fungal pathogens. Pest Management Science, 2015, 71, 1054-1058.	3.4	214

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19	In VitroBiochemical Study of CYP51-Mediated Azole Resistance in Aspergillus fumigatus. Antimicrobial Agents and Chemotherapy, 2015, 59, 7771-7778.	3.2	32
20	Paralog Re-Emergence: A Novel, Historically Contingent Mechanism in the Evolution of Antimicrobial Resistance. Molecular Biology and Evolution, 2014, 31, 1793-1802.	8.9	89
21	Co-production of ethanol and squalene using a Saccharomyces cerevisiae ERG1 (squalene epoxidase) mutant and agro-industrial feedstock. Biotechnology for Biofuels, 2014, 7, 133.	6.2	21
22	Resistance to antifungals that target CYP51. Journal of Chemical Biology, 2014, 7, 143-161.	2.2	146
23	Clotrimazole as a Potent Agent for Treating the Oomycete Fish Pathogen Saprolegnia parasitica through Inhibition of Sterol 14Î±-Demethylase (CYP51). Applied and Environmental Microbiology, 2014, 80, 6154-6166.	3.1	41
24	Co-production of bioethanol and probiotic yeast biomass from agricultural feedstock: application of the rural biorefinery concept. AMB Express, 2014, 4, 64.	3.0	12
25	Azole Affinity of Sterol 14Î±-Demethylase (CYP51) Enzymes from Candida albicans and Homo sapiens. Antimicrobial Agents and Chemotherapy, 2013, 57, 1352-1360.	3.2	120
26	Prothioconazole and Prothioconazole-Desthio Activities against Candida albicans Sterol 14-Î±-Demethylase. Applied and Environmental Microbiology, 2013, 79, 1639-1645.	3.1	73
27	Microbial cytochromes P450: biodiversity and biotechnology. Where do cytochromes P450 come from, what do they do and what can they do for us?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120476.	4.0	180
28	Discovery of a Novel Dual Fungal CYP51/Human 5-Lipoxygenase Inhibitor: Implications for Anti-Fungal Therapy. PLoS ONE, 2013, 8, e65928.	2.5	17
29	Facultative Sterol Uptake in an Ergosterol-Deficient Clinical Isolate of Candida glabrata Harboring a Missense Mutation in ERG11 and Exhibiting Cross-Resistance to Azoles and Amphotericin B. Antimicrobial Agents and Chemotherapy, 2012, 56, 4223-4232.	3.2	90
30	Two Clinical Isolates of Candida glabrata Exhibiting Reduced Sensitivity to Amphotericin B Both Harbor Mutations in ERG2. Antimicrobial Agents and Chemotherapy, 2012, 56, 6417-6421.	3.2	62
31	S279 Point Mutations in Candida albicans Sterol 14-Î± Demethylase (CYP51) Reduce In Vitro Inhibition by Fluconazole. Antimicrobial Agents and Chemotherapy, 2012, 56, 2099-2107.	3.2	25
32	Mechanism of Binding of Prothioconazole to Mycosphaerella graminicola CYP51 Differs from That of Other Azole Antifungals. Applied and Environmental Microbiology, 2011, 77, 1460-1465.	3.1	62
33	Impact of Recently Emerged Sterol 14Î±-Demethylase (CYP51) Variants of Mycosphaerella graminicola on Azole Fungicide Sensitivity. Applied and Environmental Microbiology, 2011, 77, 3830-3837.	3.1	107
34	Molecular Modelling of the Emergence of Azole Resistance in Mycosphaerella graminicola. PLoS ONE, 2011, 6, e20973.	2.5	74
35	Expression, Purification, and Characterization of Aspergillus fumigatus Sterol 14-Î± Demethylase (CYP51) Isoenzymes A and B. Antimicrobial Agents and Chemotherapy, 2010, 54, 4225-4234.	3.2	73
36	Complementation of a Saccharomyces cerevisiae ERG11/CYP51 (Sterol 14Î±-Demethylase) Doxycycline-Regulated Mutant and Screening of the Azole Sensitivity of Aspergillus fumigatus Isoenzymes CYP51A and CYP51B. Antimicrobial Agents and Chemotherapy, 2010, 54, 4920-4923.	3.2	43

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37	A Clinical Isolate of Candida albicans with Mutations in ERG11 (Encoding Sterol) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Amphotericin B. Antimicrobial Agents and Chemotherapy, 2010, 54, 3578-3583.	3.2	152
38	Azole Binding Properties of Candida albicans Sterol 14-Î± Demethylase (CaCYP51). Antimicrobial Agents and Chemotherapy, 2010, 54, 4235-4245.	3.2	97
39	Identification and Characterization of Four Azole-Resistant erg3 Mutants of Candida albicans. Antimicrobial Agents and Chemotherapy, 2010, 54, 4527-4533.	3.2	150
40	Identification, Characterization, and Azole-Binding Properties of Mycobacterium smegmatis CYP164A2, a Homolog of ML2088, the Sole Cytochrome P450 Gene of Mycobacterium leprae. Antimicrobial Agents and Chemotherapy, 2009, 53, 1157-1164.	3.2	20
41	The CYPome (Cytochrome P450 complement) of Aspergillus nidulans. Fungal Genetics and Biology, 2009, 46, S53-S61.	2.1	78
42	Expression and Characterization of CYP51, the Ancient Sterol 14-demethylase Activity for Cytochromes P450 (CYP), in the White-Rot Fungus Phanerochaete chrysosporium. Lipids, 2008, 43, 1143-1153.	1.7	12
43	The Diversity and Importance of Microbial Cytochromes P450. , 2005, , 585-617.		20
44	Mutations in Saccharomyces cerevisiae sterol C5-desaturase conferring resistance to the CYP51 inhibitor fluconazole. Biochemical and Biophysical Research Communications, 2003, 309, 999-1004.	2.1	22
45	Conservation and cloning of CYP51: a sterol 14Î±-demethylase from Mycobacterium smegmatis. Biochemical and Biophysical Research Communications, 2003, 301, 558-563.	2.1	33
46	The biodiversity of microbial cytochromes P450. Advances in Microbial Physiology, 2003, 47, 131-186.	2.4	58
47	The Cytochrome P450 Complement (CYPome) of Streptomyces coelicolor A3(2). Journal of Biological Chemistry, 2002, 277, 24000-24005.	3.4	117
48	Phanerochaete chrysosporium NADPH-cytochrome P450 reductase kinetic mechanism. Biochemical and Biophysical Research Communications, 2002, 299, 189-195.	2.1	18
49	Metabolic control analysis and engineering of the yeast sterol biosynthetic pathway. Molecular Biology Reports, 2002, 29, 27-29.	2.3	10
50	Plant Sterol 14Î±-Demethylase Affinity for Azole Fungicides. Biochemical and Biophysical Research Communications, 2001, 284, 845-849.	2.1	37
51	Activities and Kinetic Mechanisms of Native and Soluble NADPHâ€“Cytochrome P450 Reductase. Biochemical and Biophysical Research Communications, 2001, 286, 48-54.	2.1	41
52	Bactericidal and inhibitory effects of azole antifungal compounds onMycobacterium smegmatis. FEMS Microbiology Letters, 2000, 192, 159-162.	1.8	55
53	Differential inhibition of human CYP3A4 and Candida albicans CYP51 with azole antifungal agents. Chemico-Biological Interactions, 2000, 125, 165-175.	4.0	52
54	The R467K Amino Acid Substitution in Candida albicans Sterol 14Î±-Demethylase Causes Drug Resistance through Reduced Affinity. Antimicrobial Agents and Chemotherapy, 2000, 44, 63-67.	3.2	117

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55	Purification, Reconstitution, and Inhibition of Cytochrome P-450 Sterol Î” ²² -Desaturase from the Pathogenic Fungus Candida glabrata. Antimicrobial Agents and Chemotherapy, 1999, 43, 1725-1728.	3.2	35
56	Y132H substitution inCandida albicanssterol 14ÃŽÂ±-demethylase confers fluconazole resistance by preventing binding to haem. FEMS Microbiology Letters, 1999, 180, 171-175.	1.8	98
57	Characteristics of the heterologously expressed human lanosterol 14Î±-demethylase (other names:) Tj ETQq1 1 0.784314 rgBT /Overl antifungal agents. , 1999, 15, 755-763.		72
58	Molecular aspects of azole antifungal action and resistance. Drug Resistance Updates, 1999, 2, 390-402.	14.4	86
59	Generation of a Complete, Soluble, and Catalytically Active Sterol 14Î±-Demethylaseâ^'Reductase Complex. Biochemistry, 1999, 38, 8733-8738.	2.5	54
60	The G464S Amino Acid Substitution in Candida albicans Sterol 14Î±-Demethylase Causes Fluconazole Resistance in the Clinic through Reduced Affinity. Biochemical and Biophysical Research Communications, 1999, 262, 174-179.	2.1	111
61	Molecular diversity of sterol 14Î±-demethylase substrates in plants, fungi and humans. FEBS Letters, 1998, 425, 263-265.	2.8	60
62	The N-Terminal Membrane Domain of Yeast NADPH-Cytochrome P450 (CYP) Oxidoreductase Is Not Required for Catalytic Activity in Sterol Biosynthesis or in Reconstitution of CYP Activity. Journal of Biological Chemistry, 1998, 273, 4492-4496.	3.4	57
63	Multiple Molecular Mechanisms Contribute to a Stepwise Development of Fluconazole Resistance in Clinical Candida albicans Strains. Antimicrobial Agents and Chemotherapy, 1998, 42, 3065-3072.	3.2	326
64	Characterization of Saccharomyces cerevisiae CYP61, Sterol Î”22-Desaturase, and Inhibition by Azole Antifungal Agents. Journal of Biological Chemistry, 1997, 272, 9986-9988.	3.4	126
65	The Mutation T315A in Candida albicans Sterol 14Î±-Demethylase Causes Reduced Enzyme Activity and Fluconazole Resistance through Reduced Affinity. Journal of Biological Chemistry, 1997, 272, 5682-5688.	3.4	183
66	Sterol 22-desaturase, cytochrome P45061, possesses activity in xenobiotic metabolism. FEBS Letters, 1997, 412, 233-235.	2.8	36
67	Resistance to fluconazole and amphotericin in Candida albicans from AIDS patients. Lancet, The, 1996, 348, 1523-1524.	13.7	135
68	Involvement of Human Cytochrome P450 3A4 in the metabolism of Vamidothion. Pest Management Science, 1996, 46, 287-290.	0.4	6
69	Role of Sterol Î”5(6)Desaturase in Azole Antifungal Mode of Action and Resistance. Pest Management Science, 1996, 46, 294-298.	0.4	2
70	The Mechanism of the Acyl-Carbon Bond Cleavage Reaction Catalyzed by Recombinant Sterol 14Î±-Demethylase of Candida albicans (Other Names Are: Lanosterol 14Î±-Demethylase, P-45014DM, and) Tj ETQq0 0 0 rgBT /Overlock	3.4	180
71	Purification and reconstitution of activity ofSaccharomyces cerevisiaeP450 61, a sterolÎ”22-desaturase. FEBS Letters, 1995, 377, 217-220.	2.8	68