

Diane E Kelly

List of Publications by Year in descending order

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71
papers

4,540
citations

87888

38
h-index

106344

65
g-index

72
all docs

72
docs citations

72
times ranked

4076
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple Molecular Mechanisms Contribute to a Stepwise Development of Fluconazole Resistance in Clinical <i>Candida albicans</i> Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 3065-3072.	3.2	326
2	Azole fungicides—Understanding resistance mechanisms in agricultural fungal pathogens. <i>Pest Management Science</i> , 2015, 71, 1054-1058.	3.4	214
3	The Mutation T315A in <i>Candida albicans</i> Sterol 14 α -Demethylase Causes Reduced Enzyme Activity and Fluconazole Resistance through Reduced Affinity. <i>Journal of Biological Chemistry</i> , 1997, 272, 5682-5688.	3.4	183
4	Microbial cytochromes P450: biodiversity and biotechnology. Where do cytochromes P450 come from, what do they do and what can they do for us?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120476.	4.0	180
5	A Clinical Isolate of <i>Candida albicans</i> with Mutations in <i>ERG11</i> (Encoding Sterol 14 α -Demethylase) with Reduced Affinity to Amphotericin B. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3578-3583.	3.2	152
6	Identification and Characterization of Four Azole-Resistant <i>ERG3</i> Mutants of <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 4527-4533.	3.2	150
7	Resistance to antifungals that target CYP51. <i>Journal of Chemical Biology</i> , 2014, 7, 143-161.	2.2	146
8	The Mechanism of the Acyl-Carbon Bond Cleavage Reaction Catalyzed by Recombinant Sterol 14 α -Demethylase of <i>Candida albicans</i> (Other Names Are: Lanosterol 14 α -Demethylase, P-45014DM, and) Tj ETQq1 1 0.784314 rgBT /Overlock 100	3.0	146
9	Resistance to fluconazole and amphotericin in <i>Candida albicans</i> from AIDS patients. <i>Lancet</i> , The, 1996, 348, 1523-1524.	13.7	135
10	Characterization of <i>Saccharomyces cerevisiae</i> CYP61, Sterol 14 α -Desaturase, and Inhibition by Azole Antifungal Agents. <i>Journal of Biological Chemistry</i> , 1997, 272, 9986-9988.	3.4	126
11	Azole Affinity of Sterol 14 α -Demethylase (CYP51) Enzymes from <i>Candida albicans</i> and <i>Homo sapiens</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1352-1360.	3.2	120
12	The R467K Amino Acid Substitution in <i>Candida albicans</i> Sterol 14 α -Demethylase Causes Drug Resistance through Reduced Affinity. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 63-67.	3.2	117
13	The Cytochrome P450 Complement (CYPome) of <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Biological Chemistry</i> , 2002, 277, 24000-24005.	3.4	117
14	The G464S Amino Acid Substitution in <i>Candida albicans</i> Sterol 14 α -Demethylase Causes Fluconazole Resistance in the Clinic through Reduced Affinity. <i>Biochemical and Biophysical Research Communications</i> , 1999, 262, 174-179.	2.1	111
15	Impact of Recently Emerged Sterol 14 α -Demethylase (CYP51) Variants of <i>Mycosphaerella graminicola</i> on Azole Fungicide Sensitivity. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3830-3837.	3.1	107
16	Y132H substitution in <i>Candida albicans</i> sterol 14 α -demethylase confers fluconazole resistance by preventing binding to haem. <i>FEMS Microbiology Letters</i> , 1999, 180, 171-175.	1.8	98
17	Azole Binding Properties of <i>Candida albicans</i> Sterol 14 α -Demethylase (CaCYP51). <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 4235-4245.	3.2	97
18	Facultative Sterol Uptake in an Ergosterol-Deficient Clinical Isolate of <i>Candida glabrata</i> Harboring a Missense Mutation in <i>ERG11</i> and Exhibiting Cross-Resistance to Azoles and Amphotericin B. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4223-4232.	3.2	90

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19	Paralog Re-Emergence: A Novel, Historically Contingent Mechanism in the Evolution of Antimicrobial Resistance. <i>Molecular Biology and Evolution</i> , 2014, 31, 1793-1802.	8.9	89
20	Molecular aspects of azole antifungal action and resistance. <i>Drug Resistance Updates</i> , 1999, 2, 390-402.	14.4	86
21	The CYPome (Cytochrome P450 complement) of <i>Aspergillus nidulans</i> . <i>Fungal Genetics and Biology</i> , 2009, 46, S53-S61.	2.1	78
22	Molecular Modelling of the Emergence of Azole Resistance in <i>Mycosphaerella graminicola</i> . <i>PLoS ONE</i> , 2011, 6, e20973.	2.5	74
23	Expression, Purification, and Characterization of <i>Aspergillus fumigatus</i> Sterol 14 α -Demethylase (CYP51) Isoenzymes A and B. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 4225-4234.	3.2	73
24	Prothioconazole and Prothioconazole-Desthio Activities against <i>Candida albicans</i> Sterol 14 α -Demethylase. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1639-1645.	3.1	73
25	Characteristics of the heterologously expressed human lanosterol 14 α -demethylase (other names: Tj ETQq1 1 0.784314 rgBT /Overl... antifungal agents. , 1999, 15, 755-763.		72
26	Purification and reconstitution of activity of <i>Saccharomyces cerevisiae</i> P450 61, a sterol Δ^22 -desaturase. <i>FEBS Letters</i> , 1995, 377, 217-220.	2.8	68
27	Mechanism of Binding of Prothioconazole to <i>Mycosphaerella graminicola</i> CYP51 Differs from That of Other Azole Antifungals. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1460-1465.	3.1	62
28	Two Clinical Isolates of <i>Candida glabrata</i> Exhibiting Reduced Sensitivity to Amphotericin B Both Harbor Mutations in <i>ERG2</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 6417-6421.	3.2	62
29	Molecular diversity of sterol 14 α -demethylase substrates in plants, fungi and humans. <i>FEBS Letters</i> , 1998, 425, 263-265.	2.8	60
30	<i>In Vitro</i> and <i>In Vivo</i> Antifungal Profile of a Novel and Long-Acting Inhaled Azole, PC945, on <i>Aspergillus fumigatus</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	60
31	The biodiversity of microbial cytochromes P450. <i>Advances in Microbial Physiology</i> , 2003, 47, 131-186.	2.4	58
32	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. <i>Journal of Biological Chemistry</i> , 1998, 273, 4492-4496.	3.4	57
33	The Investigational Drug VT-1129 Is a Highly Potent Inhibitor of <i>Cryptococcus</i> Species CYP51 but Only Weakly Inhibits the Human Enzyme. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 4530-4538.	3.2	57
34	Bactericidal and inhibitory effects of azole antifungal compounds on <i>Mycobacterium smegmatis</i> . <i>FEMS Microbiology Letters</i> , 2000, 192, 159-162.	1.8	55
35	Generation of a Complete, Soluble, and Catalytically Active Sterol 14 α -Demethylase Δ^22 -Reductase Complex. <i>Biochemistry</i> , 1999, 38, 8733-8738.	2.5	54
36	Differential inhibition of human CYP3A4 and <i>Candida albicans</i> CYP51 with azole antifungal agents. <i>Chemico-Biological Interactions</i> , 2000, 125, 165-175.	4.0	52

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37	Complementation of a <i>Saccharomyces cerevisiae</i> ERG11/CYP51 (Sterol 14 α -Demethylase) Doxycycline-Regulated Mutant and Screening of the Azole Sensitivity of <i>Aspergillus fumigatus</i> Isoenzymes CYP51A and CYP51B. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 4920-4923.	3.2	43
38	Activities and Kinetic Mechanisms of Native and Soluble NADPH-Cytochrome P450 Reductase. <i>Biochemical and Biophysical Research Communications</i> , 2001, 286, 48-54.	2.1	41
39	Clotrimazole as a Potent Agent for Treating the Oomycete Fish Pathogen <i>Saprolegnia parasitica</i> through Inhibition of Sterol 14 α -Demethylase (CYP51). <i>Applied and Environmental Microbiology</i> , 2014, 80, 6154-6166.	3.1	41
40	Plant Sterol 14 α -Demethylase Affinity for Azole Fungicides. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 845-849.	2.1	37
41	Sterol 22-desaturase, cytochrome P45061, possesses activity in xenobiotic metabolism. <i>FEBS Letters</i> , 1997, 412, 233-235.	2.8	36
42	Purification, Reconstitution, and Inhibition of Cytochrome P-450 Sterol 22-Desaturase from the Pathogenic Fungus <i>Candida glabrata</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1725-1728.	3.2	35
43	Conservation and cloning of CYP51: a sterol 14 α -demethylase from <i>Mycobacterium smegmatis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2003, 301, 558-563.	2.1	33
44	Azole Antifungal Agents To Treat the Human Pathogens <i>Acanthamoeba castellanii</i> and <i>Acanthamoeba polyphaga</i> through Inhibition of Sterol 14 α -Demethylase (CYP51). <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 4707-4713.	3.2	33
45	In Vitro Biochemical Study of CYP51-Mediated Azole Resistance in <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 7771-7778.	3.2	32
46	The Evolution of Azole Resistance in <i>Candida albicans</i> Sterol 14 α -Demethylase (CYP51) through Incremental Amino Acid Substitutions. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	32
47	Additional pathways of sterol metabolism: Evidence from analysis of Cyp27a1 Δ/Δ mouse brain and plasma. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 191-211.	2.4	29
48	S279 Point Mutations in <i>Candida albicans</i> Sterol 14 α -Demethylase (CYP51) Reduce In Vitro Inhibition by Fluconazole. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2099-2107.	3.2	25
49	In Vitro and In Vivo Efficacy of a Novel and Long-Acting Fungicidal Azole, PC1244, on <i>Aspergillus fumigatus</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	24
50	Widespread distribution of resistance to triazole fungicides in Brazilian populations of the wheat blast pathogen. <i>Plant Pathology</i> , 2021, 70, 436-448.	2.4	23
51	Mutations in <i>Saccharomyces cerevisiae</i> sterol C5-desaturase conferring resistance to the CYP51 inhibitor fluconazole. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 999-1004.	2.1	22
52	Co-production of ethanol and squalene using a <i>Saccharomyces cerevisiae</i> ERG1 (squalene epoxidase) mutant and agro-industrial feedstock. <i>Biotechnology for Biofuels</i> , 2014, 7, 133.	6.2	21
53	The Diversity and Importance of Microbial Cytochromes P450. , 2005, , 585-617.		20
54	Identification, Characterization, and Azole-Binding Properties of <i>Mycobacterium smegmatis</i> CYP164A2, a Homolog of ML2088, the Sole Cytochrome P450 Gene of <i>Mycobacterium leprae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 1157-1164.	3.2	20

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55	The Tetrazole VT-1161 Is a Potent Inhibitor of <i>Trichophyton rubrum</i> through Its Inhibition of T. rubrum CYP51. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	20
56	<i>Phanerochaete chrysosporium</i> NADPH-cytochrome P450 reductase kinetic mechanism. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 189-195.	2.1	18
57	Small Molecule Inhibitors Targeting Sterol 14 α -Demethylase (CYP51): Synthesis, Molecular Modelling and Evaluation Against <i>Candida albicans</i> . <i>ChemMedChem</i> , 2020, 15, 1294-1309.	3.2	17
58	Discovery of a Novel Dual Fungal CYP51/Human 5-Lipoxygenase Inhibitor: Implications for Anti-Fungal Therapy. <i>PLoS ONE</i> , 2013, 8, e65928.	2.5	17
59	Azole Antifungal Sensitivity of Sterol 14 α -Demethylase (CYP51) and CYP5218 from <i>Malassezia globosa</i> . <i>Scientific Reports</i> , 2016, 6, 27690.	3.3	14
60	Co-production of 11 β -hydroxyprogesterone and ethanol using recombinant yeast expressing fungal steroid hydroxylases. <i>Biotechnology for Biofuels</i> , 2017, 10, 226.	6.2	14
61	Functional importance for developmental regulation of sterol biosynthesis in <i>Acanthamoeba castellanii</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 1164-1178.	2.4	14
62	Novel Substrate Specificity and Temperature-Sensitive Activity of <i>Mycosphaerella graminicola</i> CYP51 Supported by the Native NADPH Cytochrome P450 Reductase. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3379-3386.	3.1	13
63	Expression and Characterization of CYP51, the Ancient Sterol 14-demethylase Activity for Cytochromes P450 (CYP), in the White-Rot Fungus <i>Phanerochaete chrysosporium</i> . <i>Lipids</i> , 2008, 43, 1143-1153.	1.7	12
64	Co-production of bioethanol and probiotic yeast biomass from agricultural feedstock: application of the rural biorefinery concept. <i>AMB Express</i> , 2014, 4, 64.	3.0	12
65	Azole sensitivity in <i>Leptosphaeria</i> pathogens of oilseed rape: the role of lanosterol 14 α -demethylase. <i>Scientific Reports</i> , 2017, 7, 15849.	3.3	11
66	Metabolic control analysis and engineering of the yeast sterol biosynthetic pathway. <i>Molecular Biology Reports</i> , 2002, 29, 27-29.	2.3	10
67	Isavuconazole and voriconazole inhibition of sterol 14 α -demethylases (CYP51) from <i>Aspergillus fumigatus</i> and <i>Homo sapiens</i> . <i>International Journal of Antimicrobial Agents</i> , 2019, 54, 449-455.	2.5	9
68	Abnormal Neural Responses During Reflexive Blinking in Blepharospasm: An Event-Related Functional MRI Study. <i>Movement Disorders</i> , 2020, 35, 1173-1180.	3.9	7
69	Involvement of Human Cytochrome P450 3A4 in the metabolism of Vamidothion. <i>Pest Management Science</i> , 1996, 46, 287-290.	0.4	6
70	Role of Sterol 5(6)Desaturase in Azole Antifungal Mode of Action and Resistance. <i>Pest Management Science</i> , 1996, 46, 294-298.	0.4	2
71	Cytochrome P450 168A1 from <i>Pseudomonas aeruginosa</i> is involved in the hydroxylation of biologically relevant fatty acids. <i>PLoS ONE</i> , 2022, 17, e0265227.	2.5	2