Steven L Kelly

List of Publications by Year
in descending order

43 papers	5,985 citations	279798 23 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	7714 citing authors

#	Article	IF	Citations
1	Functional profiling of the Saccharomyces cerevisiae genome. Nature, 2002, 418, 387-391.	27.8	3,938
2	Azole fungicidesÂ-Âunderstanding resistance mechanisms in agricultural fungal pathogens. Pest Management Science, 2015, 71, 1054-1058.	3.4	214
3	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
4	A Clinical Isolate of <i>Candida albicans</i> with Mutations in <i>ERG11</i> (Encoding Sterol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Amphotericin B. Antimicrobial Agents and Chemotherapy, 2010, 54, 3578-3583.	3.2	152
5	Characterization of the sterol 14Î±â€demethylases of <i>Fusarium graminearum</i> identifies a novel genusâ€specific <scp>CYP</scp>51 function. New Phytologist, 2013, 198, 821-835.	7.3	146
6	Resistance to antifungals that target CYP51. Journal of Chemical Biology, 2014, 7, 143-161.	2.2	146
7	The negative cofactor 2 complex is a key regulator of drug resistance in Aspergillus fumigatus. Nature Communications, 2020, 11, 427.	12.8	100
8	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
9	Mutations in <i>hmg1</i> , Challenging the Paradigm of Clinical Triazole Resistance in Aspergillus fumigatus. MBio, 2019, 10, .	4.1	85
10	Crystal Structure of Albaflavenone Monooxygenase Containing a Moonlighting Terpene Synthase Active Site. Journal of Biological Chemistry, 2009, 284, 36711-36719.	3.4	73
11	Prothioconazole and Prothioconazole-Desthio Activities against Candida albicans Sterol 14-Î±-Demethylase. Applied and Environmental Microbiology, 2013, 79, 1639-1645.	3.1	73
12	<i>In Vitro</i> and <i>In Vivo</i> Antifungal Profile of a Novel and Long-Acting Inhaled Azole, PC945, on Aspergillus fumigatus Infection. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	60
13	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
14	Microbial transformations of steroidsâ€"VIII. Transformation of progesterone by whole cells and microsomes of Aspergillus fumigatus. Journal of Steroid Biochemistry and Molecular Biology, 1994, 49, 93-100.	2.5	48
15	On the occurrence of cytochrome P450 in viruses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12343-12352.	7.1	45
16	<i>ERG6</i> and <i>ERG2</i> Are Major Targets Conferring Reduced Susceptibility to Amphotericin B in Clinical <i>Candida glabrata</i> Isolates in Kuwait. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	44
17	Loss of C-5 Sterol Desaturase Activity Results in Increased Resistance to Azole and Echinocandin Antifungals in a Clinical Isolate of Candida parapsilosis. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	42
18	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

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19	Comparative Genomics for the Elucidation of Multidrug Resistance in Candida lusitaniae. MBio, 2019, 10, .	4.1	37
20	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
21	In VitroBiochemical Study of CYP51-Mediated Azole Resistance in Aspergillus fumigatus. Antimicrobial Agents and Chemotherapy, 2015, 59, 7771-7778.	3.2	32
22	The Evolution of Azole Resistance in <i>Candida albicans</i> Sterol 14Î±-Demethylase (CYP51) through Incremental Amino Acid Substitutions. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	32
23	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
24	Biotransformation of steroids by the fission yeastSchizosaccharomyces pombe. , 1999, 15, 639-645.		26
25	<i>In Vitro</i> and <i>In Vivo</i> Efficacy of a Novel and Long-Acting Fungicidal Azole, PC1244, on Aspergillus fumigatus Infection. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	24
26	Widespread distribution of resistance to triazole fungicides in Brazilian populations of the wheat blast pathogen. Plant Pathology, 2021, 70, 436-448.	2.4	23
27	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
28	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
29	Concerning P450 Evolution: Structural Analyses Support Bacterial Origin of Sterol 14Î±-Demethylases. Molecular Biology and Evolution, 2021, 38, 952-967.	8.9	19
30	Loss of Upc2p-Inducible <i>ERG3</i> Transcription Is Sufficient To Confer Niche-Specific Azole Resistance without Compromising Candida albicans Pathogenicity. MBio, 2018, 9, .	4.1	15
31	Azole Antifungal Sensitivity of Sterol 14Î±-Demethylase (CYP51) and CYP5218 from Malassezia globosa. Scientific Reports, 2016, 6, 27690.	3.3	14
32	Co-production of 11Î±-hydroxyprogesterone and ethanol using recombinant yeast expressing fungal steroid hydroxylases. Biotechnology for Biofuels, 2017, 10, 226.	6.2	14
33	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
34	Controlled in vitro delivery of voriconazole and diclofenac to the cornea using contact lenses for the treatment of Acanthamoeba keratitis. International Journal of Pharmaceutics, 2020, 579, 119102.	5.2	14
35	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
36	Metabolism of the herbicide chlortoluron by human cytochrome P450 3A4. Chemosphere, 1995, 31, 4515-4529.	8.2	12

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37	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
38	Metabolic arsenal of giant viruses: Host hijack or self-use?. ELife, 0, 11, .	6.0	12
39	Azole sensitivity in Leptosphaeria pathogens of oilseed rape: the role of lanosterol 14Î±-demethylase. Scientific Reports, 2017, 7, 15849.	3.3	11
40	Proper Sterol Distribution Is Required for Candida albicans Hyphal Formation and Virulence. G3: Genes, Genomes, Genetics, 2016, 6, 3455-3465.	1.8	9
41	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
42	Loss-of-Function <i>ROX1</i> Mutations Suppress the Fluconazole Susceptibility of <i>upc2A</i> Î” Mutation in Candida glabrata, Implicating Additional Positive Regulators of Ergosterol Biosynthesis. MSphere, 2021, 6, e0083021.	2.9	3
43	Cytochrome P450 168A1 from Pseudomonas aeruginosa is involved in the hydroxylation of biologically relevant fatty acids. PLoS ONE, 2022, 17, e0265227.	2.5	2