

Donovan C Haines

List of Publications by Year in descending order

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29
papers

1,147
citations

706676

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685536

24
g-index

30
all docs

30
docs citations

30
times ranked

1495
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro metabolism of desomorphine. <i>Forensic Science International</i> , 2018, 289, 140-149.	1.3	9
2	Comparison of brain mitochondrial cytochrome c oxidase activity with cyanide LD ₅₀ yields insight into the efficacy of prophylactics. <i>Journal of Applied Toxicology</i> , 2013, 33, 50-55.	1.4	8
3	Aluminum-substituted heme domain of P450BM3 (<sc>BMP</sc>): Introducing a heme-derived fluorescent probe for studies of substrate binding and protein-protein interactions in cytochromes P450. <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 41-51.	1.4	6
4	Peroxidase-like activity of uncoupled cytochrome P450. <i>Biochemical Pharmacology</i> , 2012, 84, 374-382.	2.0	22
5	Creating a Drug Assay with Synthetic Biology using the Barbiturate-responsive Repressor BM3R1. <i>FASEB Journal</i> , 2012, 26, lb246.	0.2	0
6	A Single Residue With Dramatic Impact On Substrate-Induced Spin-State Change In P450BM3. <i>FASEB Journal</i> , 2012, 26, lb125.	0.2	0
7	A Single Active-Site Mutation of P450BM-3 Dramatically Enhances Substrate Binding and Rate of Product Formation. <i>Biochemistry</i> , 2011, 50, 8333-8341.	1.2	15
8	Dinoflagellate Bioluminescence: Cloning and Sequence Analysis of Luciferase from <i>Pyrocystis fusiformis</i> . <i>FASEB Journal</i> , 2011, 25, lb127.	0.2	0
9	Do acyl homoserine lactones (AHLs) compete with endogenous immunomodulators by acting as substrates for cyp450?. <i>FASEB Journal</i> , 2011, 25, lb116.	0.2	0
10	Paraoxonase 2 is down-regulated by the <i>Pseudomonas aeruginosa</i> quorum-sensing signal N-(3-oxododecanoyl)-L-homoserine lactone and attenuates oxidative stress induced by pyocyanin. <i>Biochemical Journal</i> , 2010, 426, 73-83.	1.7	54
11	Defending Against Infection: Quorum Quenching by Enzymes in Human Liver Microsomes. <i>FASEB Journal</i> , 2010, 24, lb209.	0.2	0
12	Dominant Role of Paraoxonases in Inactivation of the <i>Pseudomonas aeruginosa</i> Quorum-Sensing Signal N-(3-Oxododecanoyl)-L-Homoserine Lactone. <i>Infection and Immunity</i> , 2008, 76, 2512-2519.	1.0	151
13	A single mutation in P450BM-3 enhances acyl homoserine lactone: Acyl homoserine substrate binding selectivity nearly 250-fold. <i>Journal of Biotechnology</i> , 2008, 135, 374-376.	1.9	11
14	Crystal Structure of Inhibitor-Bound P450BM-3 Reveals Open Conformation of Substrate Access Channel. <i>Biochemistry</i> , 2008, 47, 3662-3670.	1.2	32
15	Cloning, expression and characterization of a fast self-sufficient P450: CYP102A5 from <i>Bacillus cereus</i> . <i>Archives of Biochemistry and Biophysics</i> , 2007, 468, 32-43.	1.4	46
16	Interactions of Substrates at the Surface of P450s Can Greatly Enhance Substrate Potency. <i>Biochemistry</i> , 2007, 46, 14010-14017.	1.2	30
17	<i>Bacillus megaterium</i> CYP102A1 Oxidation of Acyl Homoserine Lactones and Acyl Homoserines. <i>Biochemistry</i> , 2007, 46, 14429-14437.	1.2	134
18	Obligatory Intermolecular Electron-Transfer from FAD to FMN in Dimeric P450BM-3. <i>Biochemistry</i> , 2007, 46, 11892-11901.	1.2	54

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19	A Role for the Strained Phenylalanine Ring Rotation Induced by Substrate Binding to Cytochrome CYP102A1. <i>Protein and Peptide Letters</i> , 2006, 13, 977-980.	0.4	6
20	Modulation of zinc- and cobalt-binding affinities through changes in the stability of the zinc ribbon protein L36. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 167-180.	1.1	7
21	l-Canavanine Made by <i>Medicago sativa</i> Interferes with Quorum Sensing in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2005, 187, 8427-8436.	1.0	122
22	pH-Induced Alteration and Oxidative Destruction of Heme in Purified Chromaffin Granule Cytochrome b561: Implications for the Oxidative Stress in Catecholaminergic Neurons. <i>Biochemistry</i> , 2003, 42, 3617-3626.	1.2	11
23	Plausible molecular mechanism for activation by fumarate and electron transfer of the dopamine β -mono-oxygenase reaction. <i>Biochemical Journal</i> , 2002, 367, 77-85.	1.7	4
24	Pivotal Role of Water in the Mechanism of P450BM-3. <i>Biochemistry</i> , 2001, 40, 13456-13465.	1.2	319
25	Practical, enantiospecific syntheses of 14,15-EET and leukotoxin B (vernolic acid). <i>Tetrahedron Letters</i> , 2001, 42, 4131-4133.	0.7	38
26	The FMN-Binding Domain of Cytochrome P450BM-3: Resolution, Reconstitution, and Flavin Analogue Substitution. <i>Biochemistry</i> , 2000, 39, 9419-9429.	1.2	29
27	Chiral Multisubstrate Inhibitors of Dopamine β -Monooxygenase: Evidence for Dual Modes of Interaction. <i>Biochemistry</i> , 1997, 36, 7144-7153.	1.2	7
28	A General Progress Curve Method for the Kinetic Analysis of Suicide Enzyme Inhibitors. <i>Analytical Biochemistry</i> , 1996, 234, 175-182.	1.1	19
29	Nucleophilic Substitution Reactions of Phenacyl Bromide Oxime: Effect of the Solvent and the Basicity of the Nucleophile. <i>Journal of Organic Chemistry</i> , 1994, 59, 6472-6475.	1.7	13