

Marcy Hernick

List of Publications by Year in descending order

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papers

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623734

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times ranked

1066
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Arabidopsis thaliana</i> Myo-Inositol 1-Phosphate Synthase1 Gene Is Required for Myo-inositol Synthesis and Suppression of Cell Death. <i>Plant Cell</i> , 2010, 22, 888-903.	6.6	179
2	Zinc hydrolases: the mechanisms of zinc-dependent deacetylases. <i>Archives of Biochemistry and Biophysics</i> , 2005, 433, 71-84.	3.0	169
3	UDP-3-O-((R)-3-hydroxymyristoyl)-N-acetylglucosamine Deacetylase Functions through a General Acid-Base Catalyst Pair Mechanism. <i>Journal of Biological Chemistry</i> , 2005, 280, 16969-16978.	3.4	62
4	Design, Synthesis, and Biological Evaluation of Indolequinone Phosphoramidate Prodrugs Targeted to DT-diaphorase. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 3540-3548.	6.4	42
5	Active Site Metal Ion in UDP-3-O-((R)-3-Hydroxymyristoyl)-N-acetylglucosamine Deacetylase (LpxC) Switches between Fe(II) and Zn(II) Depending on Cellular Conditions*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33788-33796.	3.4	37
6	Catalytic Mechanism and Molecular Recognition of <i>E. coli</i> UDP-3-O-((R)-3-Hydroxymyristoyl)-N-acetylglucosamine Deacetylase Probed by Mutagenesis. <i>Biochemistry</i> , 2006, 45, 15240-15248.	2.5	33
7	Activation of <i>Escherichia coli</i> UDP-3-O-((R)-3-hydroxymyristoyl)-N-acetylglucosamine Deacetylase by Fe ²⁺ Yields a More Efficient Enzyme with Altered Ligand Affinity. <i>Biochemistry</i> , 2010, 49, 2246-2255.	2.5	32
8	Mycothiols: a target for potentiation of rifampin and other antibiotics against <i>Mycobacterium tuberculosis</i> . <i>Expert Review of Anti-Infective Therapy</i> , 2013, 11, 49-67.	4.4	28
9	The Activity and Cofactor Preferences of N-Acetyl-1-d-myo-inositol-2-amino-2-deoxy- β -d-glucopyranoside Deacetylase (MshB) Change Depending on Environmental Conditions. <i>Journal of Biological Chemistry</i> , 2011, 286, 20275-20282.	3.4	24
10	Studies on the Mechanisms of Activation of Indolequinone Phosphoramidate Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 148-154.	6.4	22
11	Residue Ionization in LpxC Directly Observed by ⁶⁷ Zn NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 12671-12679.	13.7	20
12	A fluorescence-based assay for measuring N-acetyl-1-d-myo-inositol-2-amino-2-deoxy- β -d-glucopyranoside deacetylase activity. <i>Analytical Biochemistry</i> , 2011, 414, 278-281.	2.4	20
13	Test-Enhanced Learning in an Immunology and Infectious Disease Medicinal Chemistry/Pharmacology Course. <i>American Journal of Pharmaceutical Education</i> , 2015, 79, 97.	2.1	19
14	Mechanisms of Metal-Dependent Hydrolases in Metabolism. , 2010, , 547-581.		14
15	Examination of Mechanism of N-Acetyl-1-d-myo-inositol-2-amino-2-deoxy- β -d-glucopyranoside Deacetylase (MshB) Reveals Unexpected Role for Dynamic Tyrosine. <i>Journal of Biological Chemistry</i> , 2012, 287, 10424-10434.	3.4	14
16	Molecular Recognition by <i>Escherichia coli</i> UDP-3-O-((R)-3-hydroxymyristoyl)-N-acetylglucosamine Deacetylase Is Modulated by Bound Metal Ions. <i>Biochemistry</i> , 2006, 45, 14573-14581.	2.5	12
17	Structure and Function of the LmbE-like Superfamily. <i>Biomolecules</i> , 2014, 4, 527-545.	4.0	11
18	Improving student understanding of lipids concepts in a biochemistry course using test-enhanced learning. <i>Chemistry Education Research and Practice</i> , 2015, 16, 918-928.	2.5	7

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19	A Process for Curricular Improvement Based on Evaluation of Student Performance on Milestone Examinations. American Journal of Pharmaceutical Education, 2016, 80, 159.	2.1	7
20	Automated docking studies provide insights into molecular determinants of ligand recognition by <i>N</i> -Acetyl-1- <i>myo</i> -inositol-2-amino-2-deoxy- β -D-glucopyranoside deacetylase (MshB). Biopolymers, 2014, 101, 406-417.		
21	Recombinant Expression of a Functional Myo-Inositol-1-Phosphate Synthase (MIPS) in Mycobacterium smegmatis. Protein Journal, 2015, 34, 380-390.	1.6	5
22	Molecular Determinants of <i>N</i> -Acetylglucosamine Recognition and Turnover by <i>N</i> -Acetyl-1- <i>myo</i> -inositol-2-amino-2-deoxy- β -D-glucopyranoside Deacetylase (MshB). Biochemistry, 2015, 54, 3784-3790.	2.5	3
23	Metalloenzymes: Native Co-factor or Experimental Artifact?. Biochemistry and Analytical Biochemistry: Current Research, 2012, 01, .	0.4	3
24	A limitation of the continuous spectrophotometric assay for the measurement of myo-inositol-1-phosphate synthase activity. Analytical Biochemistry, 2011, 417, 228-232.	2.4	2
25	Fluorescence-Based Methods to Assay Inhibitors of Lipopolysaccharide Synthesis. Methods in Molecular Biology, 2011, 739, 123-133.	0.9	2
26	Identity of cofactor bound to mycothiol conjugate amidase (Mca) influenced by expression and purification conditions. BioMetals, 2015, 28, 755-763.	4.1	1
27	A Method to Assay Inhibitors of Lipopolysaccharide Synthesis. Methods in Molecular Medicine, 2008, 142, 143-154.	0.8	1
28	Catalytic metal ion switching in zinc-dependent deacetylases. FASEB Journal, 2008, 22, 611.14.	0.5	0