

Jun Hiratake

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Involvement of $\hat{1}^3$ -Glutamyl Transpeptidase in Ischemia/Reperfusion-Induced Cardiac Dysfunction in Isolated Rat Hearts. <i>Biological and Pharmaceutical Bulletin</i> , 2019, 42, 1947-1952.	1.4	7
2	Synthesis and evaluation of the inhibitory activity of the four stereoisomers of the potent and selective human $\hat{1}^3$ -glutamyl transpeptidase inhibitor GGsTop. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 4920-4924.	2.2	4
3	An improved synthesis of the potent and selective $\hat{1}^3$ -glutamyl transpeptidase inhibitor GGsTop together with an inhibitory activity evaluation of its potential hydrolysis products. <i>Tetrahedron Letters</i> , 2017, 58, 3700-3703.	1.4	9
4	Phosphonate-based irreversible inhibitors of human $\hat{1}^3$ -glutamyl transpeptidase (GGT). GGsTop is a non-toxic and highly selective inhibitor with critical electrostatic interaction with an active-site residue Lys562 for enhanced inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5340-5352.	3.0	29
5	Sensitive $\hat{1}^2$ -galactosidase-targeting fluorescence probe for visualizing small peritoneal metastatic tumours in vivo. <i>Nature Communications</i> , 2015, 6, 6463.	12.8	334
6	Crystal Structures of $\hat{1}^2$ -Primeverosidase in Complex with Disaccharide Amidine Inhibitors. <i>Journal of Biological Chemistry</i> , 2014, 289, 16826-16834.	3.4	16
7	Glutathione-analogous peptidyl phosphorus esters as mechanism-based inhibitors of $\hat{1}^3$ -glutamyl transpeptidase for probing cysteinyl-glycine binding site. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 1176-1194.	3.0	20
8	$\hat{1}^3$ -Glutamyl Transpeptidase and its Precursor. , 2013, , 3712-3719.		1
9	A sulfoximine-based inhibitor of human asparagine synthetase kills l-asparaginase-resistant leukemia cells. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 5915-5927.	3.0	37
10	Inhibiting Glutathione Metabolism in Lung Lining Fluid as a Strategy to Augment Antioxidant Defense. <i>Current Enzyme Inhibition</i> , 2011, 7, 71-78.	0.4	19
11	Preventive Effect of GGsTop, a Novel and Selective $\hat{1}^3$ -Glutamyl Transpeptidase Inhibitor, on Ischemia/Reperfusion-Induced Renal Injury in Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 945-951.	2.5	42
12	Lactosylamidine-based affinity purification for cellulytic enzymes EG I and CBH I from <i>Hypocrea jecorina</i> and their properties. <i>Carbohydrate Research</i> , 2010, 345, 2623-2629.	2.3	14
13	A critical electrostatic interaction mediates inhibitor recognition by human asparagine synthetase. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6641-6650.	3.0	30
14	Crystal Structures of $\hat{1}^3$ -Glutamyltranspeptidase in Complex with Azaserine and Acivicin: Novel Mechanistic Implication for Inhibition by Glutamine Antagonists. <i>Journal of Molecular Biology</i> , 2008, 380, 361-372.	4.2	47
15	Expression and Biochemical Characterization of $\hat{1}^2$ -Primeverosidase and Application of $\hat{1}^2$ -Primeverosylamidine to Affinity Purification. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 376-383.	1.3	3
16	Design, Synthesis, and Evaluation of $\hat{1}^3$ -Phosphono Diester Analogues of Glutamate as Highly Potent Inhibitors and Active Site Probes of $\hat{1}^3$ -Glutamyl Transpeptidase. <i>Biochemistry</i> , 2007, 46, 1432-1447.	2.5	96
17	$\hat{1}^3$ -(Monophenyl)phosphono glutamate analogues as mechanism-based inhibitors of $\hat{1}^3$ -glutamyl transpeptidase. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6043-6054.	3.0	27
18	Purification, Characterization, and Cloning of a <i>Spodoptera frugiperda</i> Sf9 $\hat{1}^2$ -N-Acetylhexosaminidase That Hydrolyzes Terminal N-Acetylglucosamine on the N-Glycan Core. <i>Journal of Biological Chemistry</i> , 2006, 281, 19545-19560.	3.4	48

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19	Enzyme inhibitors as chemical tools to study enzyme catalysis: rational design, synthesis, and applications. <i>Chemical Record</i> , 2005, 5, 209-228.	5.8	26
20	Directed evolution of <i>Pseudomonas aeruginosa</i> lipase for improved amide-hydrolyzing activity. <i>Protein Engineering, Design and Selection</i> , 2005, 18, 93-101.	2.1	67
21	Crystal structure of γ -glutamylcysteine synthetase: Insights into the mechanism of catalysis by a key enzyme for glutathione homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15052-15057.	7.1	69
22	Emission of 2-phenylethanol from its β -D-glucopyranoside and the biogenesis of these compounds from [2H8] l-phenylalanine in rose flowers. <i>Tetrahedron</i> , 2004, 60, 7005-7013.	1.9	30
23	β -Glycosylamidine as a ligand for affinity chromatography tailored to the glycon substrate specificity of β -glycosidases. <i>Carbohydrate Research</i> , 2003, 338, 1477-1490.	2.3	21
24	Highly sensitive active-site titration of lipase in microscale culture media using fluorescent organophosphorus ester. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1631, 197-205.	2.4	21
25	Glycosylamidines as Potent Selective and Easily Accessible Glycosidase Inhibitors and Their Application to Affinity Chromatography. <i>Methods in Enzymology</i> , 2003, 363, 421-444.	1.0	6
26	β -Glutamyltranspeptidase and β -Glutamyl Peptide Ligases: Fluorophosphonate and Phosphonodifluoromethyl Ketone Analogs as Probes of Tetrahedral Transition State and β -Glutamyl-Phosphate Intermediate. <i>Methods in Enzymology</i> , 2002, 354, 272-295.	1.0	4
27	Recognition of a Cysteine Substrate by <i>E. coli</i> β -Glutamylcysteine Synthetase Probed by Sulfoximine-based Transition-state Analogue Inhibitors. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 1500-1514.	1.3	15
28	Characterization of Inhibitors Acting at the Synthetase Site of <i>Escherichia coli</i> Asparagine Synthetase B. <i>Biochemistry</i> , 2001, 40, 11168-11175.	2.5	19
29	β -D-Glycosylamidines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 467-470.	2.2	45
30	Identification of Catalytic Nucleophile of <i>Escherichia coli</i> β -Glutamyltranspeptidase by β -Monofluorophosphono Derivative of Glutamic Acid: An N-Terminal Thr-391 in Small Subunit Is the Nucleophile. <i>Biochemistry</i> , 2000, 39, 7764-7771.	2.5	94
31	Synthesis and Characterization of Intermediate and Transition-State Analogue Inhibitors of β -Glutamyl Peptide Ligases. <i>Bioscience, Biotechnology and Biochemistry</i> , 1999, 63, 2248-2251.	1.3	13
32	A Potent Transition-State Analogue Inhibitor of <i>Escherichia coli</i> Asparagine Synthetase A. <i>Journal of the American Chemical Society</i> , 1999, 121, 5799-5800.	13.7	33
33	Design, synthesis and evaluation of transition-state analogue inhibitors of <i>Escherichia coli</i> β -glutamylcysteine synthetase. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 1935-1953.	3.0	38
34	ATP-Dependent Inactivation of <i>Escherichia coli</i> β -Glutamylcysteine Synthetase by L-Glutamic Acid β -Monohydroxamate. <i>Bioscience, Biotechnology and Biochemistry</i> , 1998, 62, 1455-1457.	1.3	7
35	Aminophosphonic and Aminoboronic Acids as Key Elements of a Transition State Analogue Inhibitor of Enzymes. <i>Bioscience, Biotechnology and Biochemistry</i> , 1997, 61, 211-218.	1.3	152
36	Mechanism-based inactivation of <i>E. coli</i> β -glutamylcysteine synthetase by phosphinic acid- and sulfoximine-based transition-state analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 1437-1442.	2.2	21

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37	Mechanism-Based Inactivation of Glutathione Synthetase by Phosphinic Acid Transition-State Analog. Journal of the American Chemical Society, 1994, 116, 12059-12060.	13.7	49