

Michiro Muraki

List of Publications by Year in descending order

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45
papers

1,036
citations

393982

19
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414034

32
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45
all docs

45
docs citations

45
times ranked

953
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Importance of Carbohydrate-Aromatic Interactions for the Molecular Recognition of Oligosaccharides by Proteins: NMR Studies of the Structure and Binding Affinity of AcAMP2-like Peptides with Non-Natural Naphthyl and Fluoroaromatic Residues. <i>Chemistry - A European Journal</i> , 2005, 11, 7060-7074.	1.7	110
2	The Importance of Ch / π Interactions to the Function of Carbohydrate Binding Proteins. <i>Protein and Peptide Letters</i> , 2002, 9, 195-209.	0.4	87
3	Expression of synthetic human-lysozyme gene in <i>Saccharomyces cerevisiae</i> : use of a synthetic chicken-lysozyme signal sequence for secretion and processing. <i>Gene</i> , 1986, 43, 273-279.	1.0	81
4	Crystal structures of <i>Urtica dioica</i> agglutinin and its complex with tri-N-acetylchitotriose. <i>Journal of Molecular Biology</i> , 2000, 297, 673-681.	2.0	73
5	Human Lysozyme Secretion Increased by Alpha-factor Pro-sequence in <i>Pichia pastoris</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1999, 63, 1977-1983.	0.6	51
6	Interactions of wheat-germ agglutinin with GlcNAc ² 1,6Gal sequence. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1569, 10-20.	1.1	48
7	Engineering of human lysozyme as a polyelectrolyte by the alteration of molecular surface charge. <i>Protein Engineering, Design and Selection</i> , 1988, 2, 49-54.	1.0	44
8	Origin of Carbohydrate Recognition Specificity of Human Lysozyme Revealed by Affinity Labeling,. <i>Biochemistry</i> , 1996, 35, 13562-13567.	1.2	41
9	Crystallographic evaluation of internal motion of human $\hat{\pm}$ -lactalbumin refined by full-matrix least-squares method 1 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1999, 287, 347-358.	2.0	39
10	Protein $\hat{\sim}$ Carbohydrate Interactions in Human Lysozyme Probed by Combining Site-Directed Mutagenesis and Affinity Labeling. <i>Biochemistry</i> , 2000, 39, 292-299.	1.2	38
11	Full-matrix least-squares refinement of lysozymes and analysis of anisotropic thermal motion. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998, 30, 232-243.	1.5	34
12	Chemically prepared hevein domains: effect of C-terminal truncation and the mutagenesis of aromatic residues on the affinity for chitin. <i>Protein Engineering, Design and Selection</i> , 2000, 13, 385-389.	1.0	34
13	Dissection of the functional role of structural elements of tyrosine-63 in the catalytic action of human lysozyme. <i>Biochemistry</i> , 1992, 31, 9212-9219.	1.2	32
14	Role of Arg115 in the Catalytic Action of Human Lysozyme. <i>Journal of Molecular Biology</i> , 1993, 233, 524-535.	2.0	28
15	The roles of conserved aromatic amino-acid residues in the active site of human lysozyme: a site-specific mutagenesis study. <i>BBA - Proteins and Proteomics</i> , 1987, 916, 66-75.	2.1	22
16	Cytoagglutination and cytotoxicity of Wheat Germ Agglutinin isolectins against normal lymphocytes and cultured leukemic cell lines $\hat{\epsilon}$ relationship between structure and biological activity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1619, 144-150.	1.1	22
17	The importance of precise positioning of negatively charged car $\hat{\gamma}$ late in the catalytic action of human lysozyme. <i>BBA - Proteins and Proteomics</i> , 1991, 1079, 229-237.	2.1	20
18	Expression and secretion of wheat germ agglutinin by <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 1992, 210, 989-997.	0.2	20

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19	Expression of synthetic human lysozyme gene in <i>Escherichia coli</i> . <i>Agricultural and Biological Chemistry</i> , 1986, 50, 713-723.	0.3	19
20	X-ray Structure of Turkey-Egg Lysozyme Complex with Tri-N-acetylchitotriose. Lack of Binding Ability at Subsite A. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1997, 53, 650-657.	2.5	18
21	Structure of <i>Urtica dioica</i> agglutinin isolectin I: dimer formation mediated by two zinc ions bound at the sugar-binding site. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1513-1517.	2.5	18
22	Engineering of the active site of human lysozyme: conversion of aspartic acid 53 to glutamic acid and tyrosine 63 to tryptophan or phenylalanine. <i>BBA - Proteins and Proteomics</i> , 1987, 911, 376-380.	2.1	17
23	Secretory expression of synthetic human Fas ligand extracellular domain gene in <i>Pichia pastoris</i> : Influences of tag addition and N-glycosylation site deletion, and development of a purification method. <i>Protein Expression and Purification</i> , 2006, 50, 137-146.	0.6	16
24	Expression of synthetic human lysozyme gene in <i>Escherichia coli</i> . <i>Agricultural and Biological Chemistry</i> , 1985, 49, 2829-2831.	0.3	13
25	A structural requirement in the subsite F of lysozyme. The role of arginine 115 in human lysozyme revealed by site-directed mutagenesis. <i>FEBS Journal</i> , 1989, 179, 573-579.	0.2	11
26	Efficient production of human Fas receptor extracellular domain/human IgG1 heavy chain Fc domain fusion protein using baculovirus/silkworm expression system. <i>Protein Expression and Purification</i> , 2010, 73, 209-216.	0.6	11
27	Site-Directed Mutagenesis and Sugar-Binding Properties of the Wheat Germ Agglutinin Mutants Tyr73Phe and Phe116Tyr. <i>FEBS Journal</i> , 1995, 233, 27-34.	0.2	10
28	Importance of van der Waals contact between Glu 35 and Trp 109 to the catalytic action of human lysozyme. <i>Protein Science</i> , 1997, 6, 473-476.	3.1	9
29	Improved secretion of human Fas ligand extracellular domain by N-terminal part truncation in <i>Pichia pastoris</i> and preparation of the N-linked carbohydrate chain trimmed derivative. <i>Protein Expression and Purification</i> , 2008, 60, 205-213.	0.6	9
30	X-ray structure of glu 53 human lysozyme. <i>Protein Science</i> , 1992, 1, 1447-1453.	3.1	6
31	Dual Affinity Labeling of the Active Site of Human Lysozyme with an N-Acetylglucosamine Derivative: First Ligand Assisted Recognition of the Second Ligand. <i>Biochemistry</i> , 1999, 38, 540-548.	1.2	6
32	Expression of Synthetic Human Lysozyme Gene in <i>Escherichia coli</i> . <i>Agricultural and Biological Chemistry</i> , 1985, 49, 2829-2831.	0.3	5
33	Expression of Synthetic Human Lysozyme Gene in <i>Escherichia coli</i> . <i>Agricultural and Biological Chemistry</i> , 1986, 50, 713-723.	0.3	5
34	Improved isolation and purification of functional human Fas receptor extracellular domain using baculovirus/silkworm expression system. <i>Protein Expression and Purification</i> , 2011, 80, 102-109.	0.6	5
35	Improved production of recombinant human Fas ligand extracellular domain in <i>Pichia pastoris</i> : yield enhancement using disposable culture-bag and its application to site-specific chemical modifications. <i>BMC Biotechnology</i> , 2014, 14, 19.	1.7	5
36	X-ray structure of turkey egg lysozyme complex with di-N-acetyl-chitobiose. Recognition and binding of α -anomeric form. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1995, 51, 718-724.	2.5	4

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37	X-ray Structure of Human Lysozyme Labelled with 2',3'-Epoxypropyl β -Glycoside of Man- β 1,4-GlcNAc. Structural Change and Recognition Specificity at Subsite B. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 834-843.	2.5	4
38	X-ray structural analysis of the ligand-recognition mechanism in the dual-affinity labeling of c-type lysozyme with 2',3'-epoxypropyl β -glycoside of N-acetyllactosamine. <i>Journal of Molecular Recognition</i> , 2003, 16, 72-82.	1.1	4
39	Site-specific chemical conjugation of human Fas ligand extracellular domain using trans-cyclooctene β -methyltetrazine reactions. <i>BMC Biotechnology</i> , 2017, 17, 56.	1.7	4
40	Alteration of the substrate specificity of human lysozyme by site-specific intermolecular cross-linking. <i>FEBS Letters</i> , 1994, 355, 271-274.	1.3	3
41	Preparation of a functional fluorescent human Fas ligand extracellular domain derivative using a three-dimensional structure guided site-specific fluorochrome conjugation. <i>SpringerPlus</i> , 2016, 5, 997.	1.2	3
42	Heterologous Production of Death Ligands [™] and Death Receptors [™] Extracellular Domains: Structural Features and Efficient Systems. <i>Protein and Peptide Letters</i> , 2012, 19, 867-879.	0.4	2
43	Development of expression systems for the production of recombinant human Fas ligand extracellular domain derivatives using <i>Pichia pastoris</i> and preparation of the conjugates by site-specific chemical modifications: A review. <i>AIMS Bioengineering</i> , 2018, 5, 39-62.	0.6	2
44	Sensitization to cell death induced by soluble Fas ligand and agonistic antibodies with exogenous agents: A review. <i>AIMS Medical Science</i> , 2020, 7, 122-203.	0.2	2
45	Confirmation of covalently-linked structure and cell-death inducing activity in site-specific chemical conjugates of human Fas ligand extracellular domain. <i>BMC Research Notes</i> , 2018, 11, 395.	0.6	1