Michiro Muraki

List of Publications by Year
in descending order

45 papers	1,036 citations	394421 19 h-index	414414 32 g-index
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. Chemistry - A European Journal, 2005, 11, 7060-7074.	3.3	110
2	The Importance of Ch / π Interactions to the Function of Carbohydrate Binding Proteins. Protein and Peptide Letters, 2002, 9, 195-209.	0.9	87
3	Expression of synthetic human-lysozyme gene in Saccharomyces cerevisiae: use of a synthetic chicken-lysozyme signal sequence for secretion and processing. Gene, 1986, 43, 273-279.	2.2	81
4	Crystal structures of Urtica dioica agglutinin and its complex with tri-N-acetylchitotriose. Journal of Molecular Biology, 2000, 297, 673-681.	4.2	73
5	Human Lysozyme Secretion Increased by Alpha-factor Pro-sequence inPichia pastoris. Bioscience, Biotechnology and Biochemistry, 1999, 63, 1977-1983.	1.3	51
6	Interactions of wheat-germ agglutinin with GlcNAcÎ²1,6Gal sequence. Biochimica Et Biophysica Acta - General Subjects, 2002, 1569, 10-20.	2.4	48
7	Engineering of human lysozyme as a polyelectrolyte by the alteration of molecular surface charge. Protein Engineering, Design and Selection, 1988, 2, 49-54.	2.1	44
8	Origin of Carbohydrate Recognition Specificity of Human Lysozyme Revealed by Affinity Labeling,. Biochemistry, 1996, 35, 13562-13567.	2.5	41
9	Crystallographic evaluation of internal motion of human Î±-lactalbumin refined by full-matrix least-squares method 1 1Edited by R. Huber. Journal of Molecular Biology, 1999, 287, 347-358.	4.2	39
10	Proteinâˆ’Carbohydrate Interactions in Human Lysozyme Probed by Combining Site-Directed Mutagenesis and Affinity Labeling. Biochemistry, 2000, 39, 292-299.	2.5	38
11	Full-matrix least-squares refinement of lysozymes and analysis of anisotropic thermal motion. Proteins: Structure, Function and Bioinformatics, 1998, 30, 232-243.	2.6	34
12	Chemically prepared hevein domains: effect of C-terminal truncation and the mutagenesis of aromatic residues on the affinity for chitin. Protein Engineering, Design and Selection, 2000, 13, 385-389.	2.1	34
13	Dissection of the functional role of structural elements of tyrosine-63 in the catalytic action of human lysozyme. Biochemistry, 1992, 31, 9212-9219.	2.5	32
14	Role of Arg115 in the Catalytic Action of Human Lysozyme. Journal of Molecular Biology, 1993, 233, 524-535.	4.2	28
15	The roles of conserved aromatic amino-acid residues in the active site of human lysozyme: a site-specific mutagenesis study. BBA - Proteins and Proteomics, 1987, 916, 66-75.	2.1	22
16	Cytoagglutination and cytotoxicity of Wheat Germ Agglutinin isolectins against normal lymphocytes and cultured leukemic cell linesâ€"relationship between structure and biological activity. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 144-150.	2.4	22
17	The importance of precise positioning of negatively charged carâ˜ylate in the catalytic action of human lysozyme. BBA - Proteins and Proteomics, 1991, 1079, 229-237.	2.1	20
18	Expression and secretion of wheat germ agglutinin by Saccharomyces cerevisiae. FEBS Journal, 1992, 210, 989-997.	0.2	20

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19	Expression of synthetic human lysozyme gene in Escherichia coli.. Agricultural and Biological Chemistry, 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 SubsiteA. Acta Crystallographica Section D: Biological Crystallography, 1997, 53, 650-657.	2.5	18
21	Structure ofUrtica dioicaagglutinin isolectin I: dimer formation mediated by two zinc ions bound at the sugar-binding site. Acta Crystallographica Section D: Biological Crystallography, 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. BBA - Proteins and Proteomics, 1987, 911, 376-380.	2.1	17
23	Secretory expression of synthetic human Fas ligand extracellular domain gene in Pichia pastoris: Influences of tag addition and N-glycosylation site deletion, and development of a purification method. Protein Expression and Purification, 2006, 50, 137-146.	1.3	16
24	Expression of synthetic human lysozyme gene in Escherichia coli.. Agricultural and Biological Chemistry, 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. FEBS Journal, 1989, 179, 573-579.	0.2	11
26	Efficient production of human Fas receptor extracellular domainâ€“human IgG1 heavy chain Fc domain fusion protein using baculovirus/silkworm expression system. Protein Expression and Purification, 2010, 73, 209-216.	1.3	11
27	Site-Directed Mutagenesis and Sugar-Binding Properties of the Wheat Germ Agglutinin Mutants Tyr73Phe and Phe116Tyr. FEBS Journal, 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. Protein Science, 1997, 6, 473-476.	7.6	9
29	Improved secretion of human Fas ligand extracellular domain by N-terminal part truncation in Pichia pastoris and preparation of the N-linked carbohydrate chain trimmed derivative. Protein Expression and Purification, 2008, 60, 205-213.	1.3	9
30	Xâ€ray structure of glu 53 human lysozyme. Protein Science, 1992, 1, 1447-1453.	7.6	6
31	Dual Affinity Labeling of the Active Site of Human Lysozyme with an N-Acetyllactosamine Derivative: First Ligand Assisted Recognition of the Second Ligand,. Biochemistry, 1999, 38, 540-548.	2.5	6
32	Expression of Synthetic Human Lysozyme Gene in <i>Escherichia coli</i>. Agricultural and Biological Chemistry, 1985, 49, 2829-2831.	0.3	5
33	Expression of Synthetic Human Lysozyme Gene inEscherichia coli. Agricultural and Biological Chemistry, 1986, 50, 713-723.	0.3	5
34	Improved isolation and purification of functional human Fas receptor extracellular domain using baculovirus â€“ silkworm expression system. Protein Expression and Purification, 2011, 80, 102-109.	1.3	5
35	Improved production of recombinant human Fas ligand extracellular domain in Pichia pastoris: yield enhancement using disposable culture-bag and its application to site-specific chemical modifications. BMC Biotechnology, 2014, 14, 19.	3.3	5
36	X-ray structure of turkey egg lysozyme complex with di-N-acetyl-chitobiose. Recognition and binding of Î±-anomeric form. Acta Crystallographica Section D: Biological Crystallography, 1995, 51, 718-724.	2.5	4

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37	X-ray Structure of Human Lysozyme Labelled with 2',3'-Epoxypropyl Î²-Glycoside of Man-Î² 1,4-GlcNAc. Structural Change and Recognition Specificity at Subsite B. Acta Crystallographica Section D: Biological Crystallography, 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 ?-glycoside ofN-acetyllactosamine. Journal of Molecular Recognition, 2003, 16, 72-82.	2.1	4
39	Site-specific chemical conjugation of human Fas ligand extracellular domain using trans-cyclooctene â€“ methyltetrazine reactions. BMC Biotechnology, 2017, 17, 56.	3.3	4
40	Alteration of the substrate specificity of human lysozyme by site-specific intermolecular cross-linking. FEBS Letters, 1994, 355, 271-274.	2.8	3
41	Preparation of a functional fluorescent human Fas ligand extracellular domain derivative using a three-dimensional structure guided site-specific fluorochrome conjugation. SpringerPlus, 2016, 5, 997.	1.2	3
42	Heterologous Production of Death Ligandsâ€™ and Death Receptorsâ€™ Extracellular Domains: Structural Features and Efficient Systems. Protein and Peptide Letters, 2012, 19, 867-879.	0.9	2
43	Development of expression systems for the production of recombinant human Fas ligand extracellular domain derivatives using Pichia pastoris and preparation of the conjugates by site-specific chemical modifications: A review. AIMS Bioengineering, 2018, 5, 39-62.	1.1	2
44	Sensitization to cell death induced by soluble Fas ligand and agonistic antibodies with exogenous agents: A review. AIMS Medical Science, 2020, 7, 122-203.	0.4	2
45	Confirmation of covalently-linked structure and cell-death inducing activity in site-specific chemical conjugates of human Fas ligand extracellular domain. BMC Research Notes, 2018, 11, 395.	1.4	1