

Dolores SolÃ-s

List of Publications by Year in descending order

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63
papers

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citations

186265

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g-index

63
all docs

63
docs citations

63
times ranked

2474
citing authors

#	ARTICLE	IF	CITATIONS
1	From lectin structure to functional glycomics: principles of the sugar code. Trends in Biochemical Sciences, 2011, 36, 298-313.	7.5	436
2	Growth-regulatory Human Galectin-1: Crystallographic Characterisation of the Structural Changes Induced by Single-site Mutations and their Impact on the Thermodynamics of Ligand Binding. Journal of Molecular Biology, 2004, 343, 957-970.	4.2	277
3	A guide into glycosciences: How chemistry, biochemistry and biology cooperate to crack the sugar code. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 186-235.	2.4	188
4	Medicinal Chemistry Based on the Sugar Code: Fundamentals of Lectinology and Experimental Strategies with Lectins as Targets. Current Medicinal Chemistry, 2000, 7, 389-416.	2.4	122
5	Towards Defining the Role of Glycans as Hardware in Information Storage and Transfer: Basic Principles, Experimental Approaches and Recent Progress. Cells Tissues Organs, 2001, 168, 5-23.	2.3	95
6	Lactose Binding to Galectin-1 Modulates Structural Dynamics, Increases Conformational Entropy, and Occurs with Apparent Negative Cooperativity. Journal of Molecular Biology, 2010, 397, 1209-1230.	4.2	95
7	The Role of Collectins and Galectins in Lung Innate Immune Defense. Frontiers in Immunology, 2018, 9, 1998.	4.8	76
8	New structural insights into carbohydrate-protein interactions from NMR spectroscopy. Current Opinion in Structural Biology, 2003, 13, 646-653.	5.7	71
9	The 2.15 Å... crystal structure of CG-16, the developmentally regulated homodimeric chicken galectin. Journal of Molecular Biology, 1999, 294, 537-549.	4.2	70
10	Different Architecture of the Combining Site of the Two Chicken Galectins Revealed by Chemical Mapping Studies with Synthetic Ligand Derivatives. Journal of Biological Chemistry, 1996, 271, 12744-12748.	3.4	68
11	Characterization of two glycosylated boar spermadhesins. FEBS Journal, 1993, 218, 719-725.	0.2	59
12	Studies on the molecular recognition of synthetic methyl beta-lactoside analogs by ricin, a cytotoxic plant lectin. FEBS Journal, 1991, 197, 217-228.	0.2	51
13	Hydrogen-bonding pattern of methyl beta-lactoside binding to the Ricinus communis lectins. FEBS Journal, 1993, 214, 677-683.	0.2	51
14	N-domain of human adhesion/growth-regulatory galectin-9: Preference for distinct conformers and non-sialylated N-glycans and detection of ligand-induced structural changes in crystal and solution. International Journal of Biochemistry and Cell Biology, 2010, 42, 1019-1029.	2.8	47
15	Symmetric dithiodigalactoside: strategic combination of binding studies and detection of selectivity between a plant toxin and human lectins. Organic and Biomolecular Chemistry, 2011, 9, 5445.	2.8	47
16	Prototype chicken galectins revisited: characterization of a third protein with distinctive hydrodynamic behaviour and expression pattern in organs of adult animals. Biochemical Journal, 2008, 409, 591-599.	3.7	46
17	Lactose binding to human galectin-7 (p53-induced gene 1) induces long-range effects through the protein resulting in increased dimer stability and evidence for positive cooperativity. Glycobiology, 2013, 23, 508-523.	2.5	42
18	Natural single amino acid polymorphism (F19Y) in human galectin-8: detection of structural alterations and increased growth-regulatory activity on tumor cells. FEBS Journal, 2014, 281, 1446-1464.	4.7	40

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19	AB-type lectin (toxin/agglutinin) from mistletoe: differences in affinity of the two galactoside-binding Trp/Tyr-sites and regulation of their functionality by monomer/dimer equilibrium. <i>Glycobiology</i> , 2006, 16, 926-937.	2.5	39
20	Unique Chicken Tandem-Repeat-Type Galectin: Implications of Alternative Splicing and a Distinct Expression Profile Compared to Those of the Three Proto-Type Proteins. <i>Biochemistry</i> , 2009, 48, 4403-4416.	2.5	39
21	Toward Comprehensive Analysis of the Galectin Network in Chicken: Unique Diversity of Galectin-3 and Comparison of its Localization Profile in Organs of Adult Animals to the Other Four Members of this Lectin Family. <i>Anatomical Record</i> , 2011, 294, 427-444.	1.4	38
22	Monomer/dimer equilibrium of the AB-type lectin from mistletoe enables combination of toxin/agglutinin activities in one protein: analysis of native and citraconylated proteins by ultracentrifugation/gel filtration and cell biological consequences of dimer destabilization. <i>Glycobiology</i> , 2005, 15, 1386-1395.	2.5	37
23	Modulating glycosidase degradation and lectin recognition of gold glyconanoparticles. <i>Carbohydrate Research</i> , 2009, 344, 1474-1478.	2.3	36
24	Homodimeric Chicken Galectin CG-1B (C-14): Crystal Structure and Detection of Unique Redox-Dependent Shape Changes Involving Inter- and Intrasubunit Disulfide Bridges by Gel Filtration, Ultracentrifugation, Site-Directed Mutagenesis, and Peptide Mass Fingerprinting. <i>Journal of Molecular Biology</i> , 2009, 386, 366-378.	4.2	34
25	Probing hydrogen-bonding interactions of bovine heart galectin-1 and methyl beta-lactoside by use of engineered ligands. <i>FEBS Journal</i> , 1994, 223, 107-114.	0.2	32
26	Glycosylated Boar Spermadhesin AWN-1 Isoforms. Biological Origin, Structural Characterization by Lectin Mapping, Localization of O-Glycosylation Sites, and Effect of Glycosylation on Ligand Binding. <i>Biological Chemistry Hoppe-Seyler</i> , 1994, 375, 667-674.	1.4	32
27	NMR investigations of protein-carbohydrate interactions: insights into the topology of the bound conformation of a lactose isomer and β -galactosyl xyloses to mistletoe lectin and galectin-1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1568, 225-236.	2.4	31
28	Binding of mannose-6-phosphate and heparin by boar seminal plasma PSP-II, a member of the spermadhesin protein family. <i>FEBS Letters</i> , 1998, 431, 273-278.	2.8	30
29	Combined Bacteria Microarray and Quartz Crystal Microbalance Approach for Exploring Glycosignatures of Nontypeable Haemophilus influenzae and Recognition by Host Lectins. <i>Analytical Chemistry</i> , 2016, 88, 5950-5957.	6.5	29
30	Conformational Studies of the Man ₈ Oligosaccharide on Native Ribonuclease B and on the Reduced and Denatured Protein. <i>Archives of Biochemistry and Biophysics</i> , 2000, 383, 17-27.	3.0	28
31	Microarray Strategies for Exploring Bacterial Surface Glycans and Their Interactions With Glycan-Binding Proteins. <i>Frontiers in Microbiology</i> , 2019, 10, 2909.	3.5	28
32	Studies of the molecular recognition of synthetic methyl β -lactoside analogues by Ricinus communis agglutinin. <i>Carbohydrate Research</i> , 1992, 232, 207-226.	2.3	27
33	Domain versatility in plant AB-toxins: Evidence for a local, pH-dependent rearrangement in the β lectin site of the mistletoe lectin by applying ligand derivatives and modelling. <i>FEBS Letters</i> , 2008, 582, 2309-2312.	2.8	24
34	Characterization of Phospho-(Tyrosine)-Mimetic Calmodulin Mutants. <i>PLoS ONE</i> , 2015, 10, e0120798.	2.5	23
35	Apoptosis, Toll-like, RIG-I-like and NOD-like Receptors Are Pathways Jointly Induced by Diverse Respiratory Bacterial and Viral Pathogens. <i>Frontiers in Microbiology</i> , 2017, 8, 276.	3.5	22
36	Fluorinated Carbohydrates as Lectin Ligands: Biorelevant Sensors with Capacity to Monitor Anomer Affinity in ^{19}F -NMR-Based Inhibitor Screening. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4354-4364.	2.4	20

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37	Computational and Experimental NMR Definition of Differences in the Conformational Behavior of Free and Lectin-Bound Glycomimetic Aza/Carba-Lactosides. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 1604-1613.	2.4	17
38	Zinc Ions Induce the Unfolding and Self-Association of Boar Spermadhesin PSP-I, a Protein with a Single CUB Domain Architecture, and Promote Its Binding to Heparin. <i>Biochemistry</i> , 2006, 45, 8227-8235.	2.5	16
39	Carrier protein-modulated presentation and recognition of an N-glycan: observations on the interactions of Man8 glycoform of ribonuclease B with conglutinin. <i>Glycobiology</i> , 2001, 11, 31-36.	2.5	15
40	Direct Evaluation of Live Uropathogenic <i>Escherichia coli</i> Adhesion and Efficiency of Antiadhesive Compounds Using a Simple Microarray Approach. <i>Analytical Chemistry</i> , 2018, 90, 12314-12321.	6.5	14
41	Involvement of the glucose moiety in the molecular recognition of methyl β -lactoside by ricin: synthesis, conformational analysis, and binding studies of different derivatives at the C-3 region.. <i>Carbohydrate Research</i> , 1994, 256, 223-244.	2.3	13
42	Rat liver contains age-regulated cytosolic 3-deoxy-D-glycero-D-galacto-non-2ulopyranosonic acid (Kdn). <i>Glycobiology</i> , 1999, 9, 527-532.	2.5	12
43	Bacteria microarrays as sensitive tools for exploring pathogen surface epitopes and recognition by host receptors. <i>RSC Advances</i> , 2015, 5, 7173-7181.	3.6	12
44	Differential Recognition of Mannose-Based Polysaccharides by Tripodal Receptors Based on a Triethylbenzene Scaffold Substituted with Trihydroxybenzoyl Moieties. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 65-76.	2.4	11
45	Fine-tuning of prototype chicken galectins: structure of CG-2 and structure-activity correlations. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1665-1676.	2.5	11
46	Fractionation and characterization of boar seminal plasma spermadhesion PSP-II glycoforms reveal the presence of uncommon N-acetylgalactosamine-containing N-linked oligosaccharides. <i>Glycoconjugate Journal</i> , 1997, 14, 275-280.	2.7	10
47	Differential recognition of <i>Haemophilus influenzae</i> whole bacterial cells and isolated lipooligosaccharides by galactose-specific lectins. <i>Scientific Reports</i> , 2018, 8, 16292.	3.3	10
48	Differential binding of mannose-specific lectins to the carbohydrate chains of fibrinogen domains D and E. <i>FEBS Journal</i> , 1987, 165, 131-138.	0.2	9
49	Lipopolysaccharide O-antigen molecular and supramolecular modifications of plant root microbiota are pivotal for host recognition. <i>Carbohydrate Polymers</i> , 2022, 277, 118839.	10.2	9
50	Bacterial Surface Glycans: Microarray and QCM Strategies for Glycophenotyping and Exploration of Recognition by Host Receptors. <i>Methods in Enzymology</i> , 2018, 598, 37-70.	1.0	8
51	Calibration of Colorimetric Protein Assays for Quantitation of Plant AB Toxins. <i>Analytical Biochemistry</i> , 2000, 284, 418-420.	2.4	7
52	Analysis of the stability of the spermadhesin PSP-I/PSP-II heterodimer. Effects of Zn ²⁺ and acidic pH. <i>FEBS Journal</i> , 2005, 272, 5663-5670.	4.7	7
53	Catalyst-Free Cycloaddition Reaction for the Synthesis of Glyconanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28136-28142.	8.0	7
54	Development and Evaluation of a Microarray Platform for Detection of Serum Antibodies Against <i>Streptococcus pneumoniae</i> Capsular Polysaccharides. <i>Analytical Chemistry</i> , 2020, 92, 7437-7443.	6.5	6

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55	Fractionation of plasmic fibrin(ogen) digests by lectin affinity chromatography. <i>Thrombosis Research</i> , 1989, 55, 221-232.	1.7	4
56	Reduction of Ricin Toxicity without Impairing the Saccharide-Binding Properties by Chemical Modification of the Carboxyl Groups. <i>Analytical Biochemistry</i> , 1993, 209, 117-122.	2.4	4
57	Description of a monomeric prototype galectin from the lizard <i>Podarcis hispanica</i> . <i>Glycobiology</i> , 2000, 10, 1325-1331.	2.5	4
58	Exploration of Galectin Ligands Displayed on Gram-Negative Respiratory Bacterial Pathogens with Different Cell Surface Architectures. <i>Biomolecules</i> , 2021, 11, 595.	4.0	4
59	AMP interaction sites in glycogen phosphorylase b A thermodynamic analysis. <i>Biophysical Chemistry</i> , 1985, 21, 249-260.	2.8	3
60	Bacterial Microarrays for Examining Bacterial Glycosignatures and Recognition by Host Lectins. <i>Methods in Molecular Biology</i> , 2022, 2460, 147-160.	0.9	3
61	Effect of lectin-binding to fibrinogen D and E domains in coagulation and fibrinolysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987, 926, 61-69.	2.4	1
62	Involvement of the lysine-binding sites of plasminogen on its interaction with concanavalin A. <i>Thrombosis Research</i> , 1989, 56, 709-718.	1.7	1
63	Does fibrinogen contain populations with different degree of sialylation ?. <i>Thrombosis Research</i> , 1992, 67, 631-641.	1.7	1