Dolores SolÃ-s

List of Publications by Year
in descending order

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63 papers	2,649 citations	186265 28 h-index	182427 51 g-index
63 all docs	63 docs citations	63 times ranked	2474 citing authors

#	Article	IF	Citations
1	Lipopolysaccharide O-antigen molecular and supramolecular modifications of plant root microbiota are pivotal for host recognition. Carbohydrate Polymers, 2022, 277, 118839.	10.2	9
2	Bacterial Microarrays for Examining Bacterial Glycosignatures and Recognition by Host Lectins. Methods in Molecular Biology, 2022, 2460, 147-160.	0.9	3
3	Exploration of Galectin Ligands Displayed on Gram-Negative Respiratory Bacterial Pathogens with Different Cell Surface Architectures. Biomolecules, 2021, 11, 595.	4.0	4
4	Development and Evaluation of a Microarray Platform for Detection of Serum Antibodies Against Streptococcus pneumoniae Capsular Polysaccharides. Analytical Chemistry, 2020, 92, 7437-7443.	6.5	6
5	Microarray Strategies for Exploring Bacterial Surface Glycans and Their Interactions With Glycan-Binding Proteins. Frontiers in Microbiology, 2019, 10, 2909.	3.5	28
6	Differential recognition of Haemophilus influenzae whole bacterial cells and isolated lipooligosaccharides by galactose-specific lectins. Scientific Reports, 2018, 8, 16292.	3.3	10
7	Direct Evaluation of Live Uropathogenic Escherichia coli Adhesion and Efficiency of Antiadhesive Compounds Using a Simple Microarray Approach. Analytical Chemistry, 2018, 90, 12314-12321.	6.5	14
8	The Role of Collectins and Galectins in Lung Innate Immune Defense. Frontiers in Immunology, 2018, 9, 1998.	4.8	76
9	Bacterial Surface Glycans: Microarray and QCM Strategies for Glycophenotyping and Exploration of Recognition by Host Receptors. Methods in Enzymology, 2018, 598, 37-70.	1.0	8
10	Apoptosis, Toll-like, RIG-I-like and NOD-like Receptors Are Pathways Jointly Induced by Diverse Respiratory Bacterial and Viral Pathogens. Frontiers in Microbiology, 2017, 8, 276.	3.5	22
11	Combined Bacteria Microarray and Quartz Crystal Microbalance Approach for Exploring Glycosignatures of NontypeableHaemophilus influenzaeand Recognition by Host Lectins. Analytical Chemistry, 2016, 88, 5950-5957.	6.5	29
12	Catalyst-Free Cycloaddition Reaction for the Synthesis of Glyconanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 28136-28142.	8.0	7
13	Characterization of Phospho-(Tyrosine)-Mimetic Calmodulin Mutants. PLoS ONE, 2015, 10, e0120798.	2.5	23
14	Bacteria microarrays as sensitive tools for exploring pathogen surface epitopes and recognition by host receptors. RSC Advances, 2015, 5, 7173-7181.	3.6	12
15	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
16	Natural single amino acid polymorphism (F19Y) in human galectinâ€8: detection of structural alterations and increased growthâ€regulatory activity on tumor cells. FEBS Journal, 2014, 281, 1446-1464.	4.7	40
17	Differential Recognition of Mannoseâ€Based Polysaccharides by Tripodal Receptors Based on a Triethylbenzene Scaffold Substituted with Trihydroxybenzoyl Moieties. European Journal of Organic Chemistry, 2013, 2013, 65-76.	2.4	11
18	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

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19	Fine-tuning of prototype chicken galectins: structure of CG-2 and structureâ€“activity correlations. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1665-1676.	2.5	11
20	Fluorinated Carbohydrates as Lectin Ligands: Biorelevant Sensors with Capacity to Monitor Anomer Affinity in ¹⁹Fâ€NMRâ€Based Inhibitor Screening. European Journal of Organic Chemistry, 2012, 2012, 4354-4364.	2.4	20
21	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
22	From lectin structure to functional glycomics: principles of the sugar code. Trends in Biochemical Sciences, 2011, 36, 298-313.	7.5	436
23	Toward Comprehensive Analysis of the Galectin Network in Chicken: Unique Diversity of Galectinâ€3 and Comparison of its Localization Profile in Organs of Adult Animals to the Other Four Members of this Lectin Family. Anatomical Record, 2011, 294, 427-444.	1.4	38
24	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
25	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
26	Modulating glycosidase degradation and lectin recognition of gold glyconanoparticles. Carbohydrate Research, 2009, 344, 1474-1478.	2.3	36
27	Unique Chicken Tandem-Repeat-Type Galectin: Implications of Alternative Splicing and a Distinct Expression Profile Compared to Those of the Three Proto-Type Proteins. Biochemistry, 2009, 48, 4403-4416.	2.5	39
28	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. Journal of Molecular Biology, 2009, 386, 366-378.	4.2	34
29	Domain versatility in plant ABâ€toxins: Evidence for a local, pHâ€dependent rearrangement in the 2Î³ lectin site of the mistletoe lectin by applying ligand derivatives and modelling. FEBS Letters, 2008, 582, 2309-2312.	2.8	24
30	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
31	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. Biochemistry, 2006, 45, 8227-8235.	2.5	16
32	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. Glycobiology, 2006, 16, 926-937.	2.5	39
33	Analysis of the stability of the spermadhesin PSP-I/PSP-II heterodimer. Effects of Zn2+ and acidic pH. FEBS Journal, 2005, 272, 5663-5670.	4.7	7
34	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. Glycobiology, 2005, 15, 1386-1395.	2.5	37
35	Computational and Experimental NMR Definition of Differences in the Conformational Behavior of Free and Lectin-Bound Glycomimetic Aza/Carba-Lactosides. European Journal of Organic Chemistry, 2004, 2004, 1604-1613.	2.4	17
36	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

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37	New structural insights into carbohydrateâ€“protein interactions from NMR spectroscopy. Current Opinion in Structural Biology, 2003, 13, 646-653.	5.7	71
38	NMR investigations of proteinâ€“carbohydrate interactions: insights into the topology of the bound conformation of a lactose isomer and Î²-galactosyl xyloses to mistletoe lectin and galectin-1. Biochimica Et Biophysica Acta - General Subjects, 2001, 1568, 225-236.	2.4	31
39	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
40	Carrier protein-modulated presentation and recognition of an N-glycan: observations on the interactions of Man8 glycoform of ribonuclease B with conglutinin. Glycobiology, 2001, 11, 31-36.	2.5	15
41	Calibration of Colorimetric Protein Assays for Quantitation of Plant AB Toxins. Analytical Biochemistry, 2000, 284, 418-420.	2.4	7
42	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
43	Description of a monomeric prototype galectin from the lizard Podarcis hispanica. Glycobiology, 2000, 10, 1325-1331.	2.5	4
44	Conformational Studies of the Man8 Oligosaccharide on Native Ribonuclease B and on the Reduced and Denatured Protein. Archives of Biochemistry and Biophysics, 2000, 383, 17-27.	3.0	28
45	Rat liver contains age-regulated cytosolic 3-deoxy-D-glycero-D-galacto-non-2ulopyranosonic acid (Kdn). Glycobiology, 1999, 9, 527-532.	2.5	12
46	The 2.15 Ã... crystal structure of CG-16, the developmentally regulated homodimeric chicken galectin. Journal of Molecular Biology, 1999, 294, 537-549.	4.2	70
47	Binding of mannose-6-phosphate and heparin by boar seminal plasma PSP-II, a member of the spermadhesin protein family. FEBS Letters, 1998, 431, 273-278.	2.8	30
48	Fractionation and characterization of boar seminal plasma spermadhesion PSP-II glycoforms reveal the presence of uncommon N-acetylgalactosamine-containing N-linked oligosaccharides. Glycoconjugate Journal, 1997, 14, 275-280.	2.7	10
49	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
50	Involvement of the glucose moiety in the molecular recognition of methyl Î²-lactoside by ricin: synthesis, conformational analysis, and binding studies of different derivatives at the C-3 region.. Carbohydrate Research, 1994, 256, 223-244.	2.3	13
51	Probing hydrogen-bonding interactions of bovine heart galectin-1 and methyl beta-lactoside by use of engineered ligands. FEBS Journal, 1994, 223, 107-114.	0.2	32
52	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. Biological Chemistry Hoppe-Seyler, 1994, 375, 667-674.	1.4	32
53	Reduction of Ricin Toxicity without Impairing the Saccharide-Binding Properties by Chemical Modification of the Carboxyl Groups. Analytical Biochemistry, 1993, 209, 117-122.	2.4	4
54	Hydrogen-bonding pattern of methyl beta-lactoside binding to the Ricinus communis lectins. FEBS Journal, 1993, 214, 677-683.	0.2	51

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55	Characterization of two glycosylated boar spermadhesins. FEBS Journal, 1993, 218, 719-725.	0.2	59
56	Does fibrinogen contain populations with different degree of sialylation ?. Thrombosis Research, 1992, 67, 631-641.	1.7	1
57	Studies of the molecular recognition of synthetic methyl Î²-lactoside analogues by Ricinus communis agglutinin. Carbohydrate Research, 1992, 232, 207-226.	2.3	27
58	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
59	Involvement of the lysine-binding sites of plasminogen on its interaction with concanavalin A. Thrombosis Research, 1989, 56, 709-718.	1.7	1
60	Fractionation of plasmic fibrin(ogen) digests by lectin affinity chromatography. Thrombosis Research, 1989, 55, 221-232.	1.7	4
61	Effect of lectin-binding to fibrinogen D and E domains in coagulation and fibrinolysis. Biochimica Et Biophysica Acta - General Subjects, 1987, 926, 61-69.	2.4	1
62	Differential binding of mannose-specific lectins to the carbohydrate chains of fibrinogen domains D and E. FEBS Journal, 1987, 165, 131-138.	0.2	9
63	AMP interaction sites in glycogen phosphorylase b A thermodynamic analysis. Biophysical Chemistry, 1985, 21, 249-260.	2.8	3