JÃºlia C Costa

List of Publications by Year
in descending order

78 papers	3,673 citations	159585 30 h-index	133252 59 g-index
78 all docs	78 docs citations	78 times ranked	5922 citing authors

#	Article	IF	Citations
1	Interaction and uptake of exosomes by ovarian cancer cells. BMC Cancer, 2011, 11, 108.	2.6	513
2	Ligands for the Î²-Glucan Receptor, Dectin-1, Assigned Using â€œDesignerâ€•Microarrays of Oligosaccharide Probes (Neoglycolipids) Generated from Glucan Polysaccharides. Journal of Biological Chemistry, 2006, 281, 5771-5779.	3.4	329
3	Role of the Human ST6GalNAc-I and ST6GalNAc-II in the Synthesis of the Cancer-Associated Sialyl-Tn Antigen. Cancer Research, 2004, 64, 7050-7057.	0.9	203
4	Evidence for secretion of Cu,Zn superoxide dismutase via exosomes from a cell model of amyotrophic lateral sclerosis. Neuroscience Letters, 2007, 428, 43-46.	2.1	200
5	Crystal structure of plant aspartic proteinase prophytepsin: inactivation and vacuolar targeting. EMBO Journal, 1999, 18, 3947-3955.	7.8	150
6	Differential expression of Î±-2,3-sialyltransferases and Î±-1,3/4-fucosyltransferases regulates the levels of sialyl Lewis a and sialyl Lewis x in gastrointestinal carcinoma cells. International Journal of Biochemistry and Cell Biology, 2010, 42, 80-89.	2.8	109
7	Translocation of Î²-Galactosidase Mediated by the Cell-Penetrating Peptide Pep-1 into Lipid Vesicles and Human HeLa Cells Is Driven by Membrane Electrostatic Potential. Biochemistry, 2005, 44, 10189-10198.	2.5	95
8	Sialoglycoproteins and N-Glycans from Secreted Exosomes of Ovarian Carcinoma Cells. PLoS ONE, 2013, 8, e78631.	2.5	89
9	Identification of the human Lewisa carbohydrate motif in a secretory peroxidase from a plant cell suspension culture (Vaccinium myrtillus L.). FEBS Letters, 1997, 415, 186-191.	2.8	88
10	Multicenter validation of CSF neurofilaments as diagnostic biomarkers for ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2016, 17, 404-413.	1.7	84
11	Crystal Structure of Cardosin A, a Glycosylated and Arg-Gly-Asp-containing Aspartic Proteinase from the Flowers ofCynara cardunculus L.. Journal of Biological Chemistry, 1999, 274, 27694-27701.	3.4	82
12	Roadmap and standard operating procedures for biobanking and discovery of neurochemical markers in ALS. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2012, 13, 1-10.	2.1	81
13	In Vivo Specificity of Human Î±1,3/4-Fucosyltransferases III-VII in the Biosynthesis of LewisX and Sialyl LewisX Motifs on Complex-type N-Glycans. Journal of Biological Chemistry, 1998, 273, 30985-30994.	3.4	68
14	Functional role of N-glycosylation from ADAM10 in processing, localization and activity of the enzyme. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 905-913.	2.4	68
15	N-Glycosylation of total cellular glycoproteins from the human ovarian carcinoma SKOV3 cell line and of recombinantly expressed human erythropoietin. Glycobiology, 2011, 21, 376-386.	2.5	65
16	Extracellular Vesicles from Ovarian Carcinoma Cells Display Specific Glycosignatures. Biomolecules, 2015, 5, 1741-1761.	4.0	64
17	The Transmembrane Domain Region of Nicastrin Mediates Direct Interactions with APH-1 and the Î³-Secretase Complex. Journal of Biological Chemistry, 2003, 278, 43284-43291.	3.4	63
18	Molecular and clinical dissection of CD24 antibody specificity by a comprehensive comparative analysis. Laboratory Investigation, 2010, 90, 1102-1116.	3.7	62

#	ARTICLE	IF	CITATIONS
19	Therapeutic Antibodies to Human L1CAM: Functional Characterization and Application in a Mouse Model for Ovarian Carcinoma. Cancer Research, 2010, 70, 2504-2515.	0.9	62
20	Multicentre quality control evaluation of different biomarker candidates for amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2014, 15, 344-350.	1.7	62
21	Transport and Activation of the Vacuolar Aspartic Proteinase Phytepsin in Barley (Hordeum vulgare) Tj ETQq1 1 0.784314 rgBT /Overl	3.4	61
22	The Glycosylation of the Aspartic Proteinases from Barley (Hordeum Vulgare L.) and Cardoon (Cynara) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	56
23	Stable Expression of the Golgi Form and Secretory Variants of Human Fucosyltransferase III from BHK-21 Cells. Journal of Biological Chemistry, 1997, 272, 11613-11621.	3.4	53
24	Mutant superoxide dismutase 1 overexpression in NSC-34 cells: Effect of trehalose on aggregation, TDP-43 localization and levels of co-expressed glycoproteins. Neuroscience Letters, 2010, 475, 145-149.	2.1	49
25	Glycoconjugates from extracellular vesicles: Structures, functions and emerging potential as cancer biomarkers. Biochimica Et Biophysica Acta: Reviews on Cancer, 2017, 1868, 157-166.	7.4	49
26	Expression of mucins (MUC1, MUC2, MUC5AC, and MUC6) and type 1 Lewis antigens in cases with and withoutHelicobacter pyloricolonization in metaplastic glands of the human stomach. Journal of Pathology, 2002, 197, 37-43.	4.5	46
27	N-Glycosylation of Extracellular Vesicles from HEK-293 and Glioma Cell Lines. Analytical Chemistry, 2018, 90, 7871-7879.	6.5	42
28	Re-evaluating the role of strongly charged sequences in amphipathic cell-penetrating peptides. FEBS Letters, 2005, 579, 4498-4502.	2.8	40
29	Diagnosis, Pathogenesis and Therapeutic Targets in Amyotrophic Lateral Sclerosis. CNS and Neurological Disorders - Drug Targets, 2010, 9, 764-778.	1.4	34
30	Kinetic Analysis of L1 Homophilic Interaction. Journal of Biological Chemistry, 2008, 283, 28038-28047.	3.4	33
31	Expression and characterization of recombinant human Î±-3/4-fucosyltransferase III from Spodoptera frugiperda (Sf9) and Trichoplusia ni (Tn) cells using the baculovirus expression system. Biochemical Journal, 2001, 353, 719-725.	3.7	30
32	Emerging molecular biomarker targets for amyotrophic lateral sclerosis. Clinica Chimica Acta, 2016, 455, 7-14.	1.1	29
33	Expression of glycogenes in differentiating human NT2N neurons. Downregulation of fucosyltransferase 9 leads to decreased Lewisx levels and impaired neurite outgrowth. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 2007-2019.	2.4	28
34	Production of highâ€quality SARSâ€CoVâ€2 antigens: Impact of bioprocess and storage on glycosylation, biophysical attributes, and ELISA serologic tests performance. Biotechnology and Bioengineering, 2021, 118, 2202-2219.	3.3	27
35	Importance of Cys, Gln, and Tyr from the Transmembrane Domain of Human Î±3/4 Fucosyltransferase III for Its Localization and Sorting in the Golgi of Baby Hamster Kidney Cells. Journal of Biological Chemistry, 2003, 278, 7624-7629.	3.4	25
36	Novel culture strategy for human stem cell proliferation and neuronal differentiation. Journal of Neuroscience Research, 2007, 85, 3557-3566.	2.9	25

#	ARTICLE	IF	CITATIONS
37	Phosphoneurofilament heavy chain and N-glycomics from the cerebrospinal fluid in amyotrophic lateral sclerosis. Clinica Chimica Acta, 2015, 438, 342-349.	1.1	25
38	Human fucosyltransferase IX: Specificity towards N-linked glycoproteins and relevance of the cytoplasmic domain in intra-Golgi localization. Biochimie, 2008, 90, 1279-1290.	2.6	24
39	N-glycosylation of recombinant human fucosyltransferase III is required for its in vivo folding in mammalian and insect cells. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 133-138.	2.4	23
40	Exploring Cerebrospinal Fluid IgG N-Glycosylation as Potential Biomarker for Amyotrophic Lateral Sclerosis. Molecular Neurobiology, 2019, 56, 5729-5739.	4.0	22
41	Expression and characterization of recombinant human Î±-3/4-fucosyltransferase III from Spodoptera frugiperda (Sf9) and Trichoplusia ni (Tn) cells using the baculovirus expression system. Biochemical Journal, 2001, 353, 719.	3.7	20
42	Increased levels of fucosyltransferase IX and carbohydrate Lewisx adhesion determinant in human NT2N neurons. Journal of Neuroscience Research, 2007, 85, 1260-1270.	2.9	20
43	Establishment of a cell model of ALS disease: Golgi apparatus disruption occurs independently from apoptosis. Biotechnology Letters, 2008, 30, 603-610.	2.2	20
44	N-glycosylation of human nicastrin is required for interaction with the lectins from the secretory pathway calnexin and ERGIC-53. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 802-810.	3.8	19
45	In vitro alpha1-3 or alpha1-4 fucosylation of type I and II oligosaccharides with secreted forms of recombinant human fucosyltransferases III and VI. Glycoconjugate Journal, 1998, 15, 873-883.	2.7	18
46	Dibucaine interaction with phospholipid vesicles. A resonance energy-transfer study. FEBS Journal, 1990, 189, 387-393.	0.2	17
47	Stable expression of recombinant human Î±3/4 fucosyltransferase III in Spodoptera frugiperda Sf9 cells. Journal of Biotechnology, 2003, 106, 69-75.	3.8	16
48	Production and purification of functional truncated soluble forms of human recombinant L1 cell adhesion glycoprotein from Spodoptera frugiperda Sf9 cells. Protein Expression and Purification, 2007, 52, 182-193.	1.3	15
49	Proteomic analysis of plasma from Portuguese patients with familial amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2008, 9, 339-349.	2.1	15
50	Phosphoneurofilament heavy chain and vascular endothelial growth factor as cerebrospinal fluid biomarkers for ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2017, 18, 134-136.	1.7	15
51	Investigating LGALS3BP/90â€‰K glycoprotein in the cerebrospinal fluid of patients with neurological diseases. Scientific Reports, 2020, 10, 5649.	3.3	15
52	A detection and quantification label-free tool to speed up downstream processing of model mucins. PLoS ONE, 2018, 13, e0190974.	2.5	15
53	A novel plant Î±4-fucosyltransferase (Vaccinium myrtillus L.) synthesises the Lewisa adhesion determinant. FEBS Letters, 2001, 499, 235-238.	2.8	14
54	Production and N-glycosylation of recombinant human cell adhesion molecule L1 from insect cells using the stable expression system. Effect of dimethyl sulfoxide. Journal of Biotechnology, 2010, 145, 130-138.	3.8	14

#	ARTICLE	IF	CITATIONS
55	Effect of the manganese ion on human alpha3/4 fucosyltransferase III activity. BioMetals, 2004, 17, 35-43.	4.1	13
56	Deletion of the cytoplasmic domain of human Î±3/4 fucosyltransferase III causes the shift of the enzyme to early Golgi compartments. Biochimica Et Biophysica Acta - General Subjects, 2004, 1675, 95-104.	2.4	13
57	Vascular endothelial growth factor and amyotrophic lateral sclerosis: The interplay with exercise and noninvasive ventilation. Muscle and Nerve, 2014, 49, 545-550.	2.2	12
58	Structural and Functional Aspects of Cardosins. Advances in Experimental Medicine and Biology, 1998, 436, 423-433.	1.6	12
59	Sequential designs for clinical trials in amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases, 2004, 5, 202-207.	1.2	11
60	Localization, purification and specificity of the full-length membrane-bound form of human recombinant Î±1,3/4-fucosyltransferase from BHK-21B cells. Biochemical Journal, 2001, 357, 803.	3.7	10
61	Localization, purification and specificity of the full-length membrane-bound form of human recombinant Î±1,3/4-fucosyltransferase from BHK-21B cells. Biochemical Journal, 2001, 357, 803-810.	3.7	10
62	N-Glycosylation Analysis by HPAEC-PAD and Mass Spectrometry. Methods in Molecular Biology, 2013, 1049, 301-312.	0.9	10
63	Cerebrospinal Fluid Chitinases as Biomarkers for Amyotrophic Lateral Sclerosis. Diagnostics, 2021, 11, 1210.	2.6	9
64	Photodecarboxylation of citrate through ion pair photochemistry: the Co(Sep)3+Â·citratenâ^' (n = 1,2,3) system. Journal of Photochemistry and Photobiology A: Chemistry, 1989, 49, 195-202.	3.9	8
65	Cellular localization of Nicastrin affects amyloid Î² species production. FEBS Letters, 2008, 582, 427-433.	2.8	8
66	Subcellular localization of the carbohydrate Lewisx adhesion structure in hippocampus cell cultures. Brain Research, 2009, 1287, 39-46.	2.2	8
67	Insect Cells for High-Yield Production of SARS-CoV-2 Spike Protein: Building a Virosome-Based COVID-19 Vaccine Candidate. Pharmaceutics, 2022, 14, 854.	4.5	8
68	Erythropoietin and amyotrophic lateral sclerosis: Plasma level determination. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2011, 12, 439-443.	2.1	7
69	Antibody Fragments Directed against Different Portions of the Human Neural Cell Adhesion Molecule L1 Act as Inhibitors or Activators of L1 Function. PLoS ONE, 2012, 7, e52404.	2.5	7
70	Quantum yield determinations on the [Co(EDTA)]â^'Â·Iâ^' system. Journal of Photochemistry and Photobiology A: Chemistry, 1989, 48, 233-242.	3.9	6
71	Tunicamycin and swainsonine stimulate Lupinus albus L. root growth in vitro. Plant Science, 1994, 101, 137-142.	3.6	6
72	Biochemical characterization of plasma in amyotrophic lateral sclerosis: Amino acid and protein composition. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2005, 6, 104-110.	2.1	6

#	ARTICLE	IF	CITATIONS
73	Assessment of the Efficacy of Solutes from Extremophiles on Protein Aggregation in Cell Models of Huntingtonâ€™s and Parkinsonâ€™s Diseases. Neurochemical Research, 2011, 36, 1005-1011.	3.3	5
74	Characterisation of a developmentally related polypeptide with glutelin solubility characteristics from Lupinus albus L.. Planta, 1996, 198, 221-9.	3.2	3
75	A Lupinus albus root glycoprotein homologous to the polygalacturonase inhibitor proteins. Physiologia Plantarum, 1997, 99, 263-270.	5.2	3
76	Stable expression of an active soluble recombinant form of human fucosyltransferase IX in Spodoptera frugiperda Sf9 cells. Biotechnology Letters, 2007, 29, 1623-1630.	2.2	3
77	Human carboxylesterase 2: Studies on the role of glycosylation for enzymatic activity. Biochemistry and Biophysics Reports, 2016, 5, 105-110.	1.3	2
78	A Lupinus albus root glycoprotein homologous to the polygalacturonase inhibitor proteins. Physiologia Plantarum, 1997, 99, 263-270.	5.2	2