

# Julia C Costa

## List of Publications by Citations

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76  
papers

3,060  
citations

28  
h-index

54  
g-index

78  
ext. papers

3,340  
ext. citations

4.5  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
76	Interaction and uptake of exosomes by ovarian cancer cells. <i>BMC Cancer</i> , <b>2011</b> , 11, 108	4.8	411
75	Ligands for the beta-glucan receptor, Dectin-1, assigned using "designer" microarrays of oligosaccharide probes (neoglycolipids) generated from glucan polysaccharides. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 5771-9	5.4	285
74	Evidence for secretion of Cu,Zn superoxide dismutase via exosomes from a cell model of amyotrophic lateral sclerosis. <i>Neuroscience Letters</i> , <b>2007</b> , 428, 43-6	3.3	164
73	Role of the human ST6GalNAc-I and ST6GalNAc-II in the synthesis of the cancer-associated sialyl-Tn antigen. <i>Cancer Research</i> , <b>2004</b> , 64, 7050-7	10.1	159
72	Crystal structure of plant aspartic proteinase prophytepsin: inactivation and vacuolar targeting. <i>EMBO Journal</i> , <b>1999</b> , 18, 3947-55	13	143
71	Differential expression of alpha-2,3-sialyltransferases and alpha-1,3/4-fucosyltransferases regulates the levels of sialyl Lewis a and sialyl Lewis x in gastrointestinal carcinoma cells. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2010</b> , 42, 80-9	5.6	91
70	Translocation of beta-galactosidase mediated by the cell-penetrating peptide pep-1 into lipid vesicles and human HeLa cells is driven by membrane electrostatic potential. <i>Biochemistry</i> , <b>2005</b> , 44, 10189-98	3.2	88
69	Identification of the human Lewis(a) carbohydrate motif in a secretory peroxidase from a plant cell suspension culture ( <i>Vaccinium myrtillus</i> L.). <i>FEBS Letters</i> , <b>1997</b> , 415, 186-91	3.8	75
68	Crystal structure of cardosin A, a glycosylated and Arg-Gly-Asp-containing aspartic proteinase from the flowers of <i>Cynara cardunculus</i> L. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 27694-701	5.4	73
67	Sialoglycoproteins and N-glycans from secreted exosomes of ovarian carcinoma cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e78631	3.7	70
66	Roadmap and standard operating procedures for biobanking and discovery of neurochemical markers in ALS. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2012</b> , 13, 1-10		65
65	Multicenter validation of CSF neurofilaments as diagnostic biomarkers for ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , <b>2016</b> , 17, 404-13	3.6	65
64	The transmembrane domain region of nicastrin mediates direct interactions with APH-1 and the gamma-secretase complex. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 43284-91	5.4	63
63	In vivo specificity of human alpha1,3/4-fucosyltransferases III-VII in the biosynthesis of LewisX and Sialyl LewisX motifs on complex-type N-glycans. Coexpression studies from bhk-21 cells together with human beta-trace protein. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 30985-94	5.4	62
62	Functional role of N-glycosylation from ADAM10 in processing, localization and activity of the enzyme. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 905-13	4	58
61	Transport and activation of the vacuolar aspartic proteinase phytepsin in barley ( <i>Hordeum vulgare</i> L.). <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 31230-6	5.4	56
60	Multicentre quality control evaluation of different biomarker candidates for amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , <b>2014</b> , 15, 344-50	3.6	55

59	Therapeutic antibodies to human L1CAM: functional characterization and application in a mouse model for ovarian carcinoma. <i>Cancer Research</i> , <b>2010</b> , 70, 2504-15	10.1	55
58	N-Glycosylation of total cellular glycoproteins from the human ovarian carcinoma SKOV3 cell line and of recombinantly expressed human erythropoietin. <i>Glycobiology</i> , <b>2011</b> , 21, 376-86	5.8	54
57	Molecular and clinical dissection of CD24 antibody specificity by a comprehensive comparative analysis. <i>Laboratory Investigation</i> , <b>2010</b> , 90, 1102-16	5.9	52
56	The glycosylation of the aspartic proteinases from barley ( <i>Hordeum vulgare</i> L.) and cardoon ( <i>Cynara cardunculus</i> L.). <i>FEBS Journal</i> , <b>1997</b> , 243, 695-700		50
55	Extracellular Vesicles from Ovarian Carcinoma Cells Display Specific Glycosignatures. <i>Biomolecules</i> , <b>2015</b> , 5, 1741-61	5.9	49
54	Stable expression of the Golgi form and secretory variants of human fucosyltransferase III from BHK-21 cells. Purification and characterization of an engineered truncated form from the culture medium. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 11613-21	5.4	46
53	Mutant superoxide dismutase 1 overexpression in NSC-34 cells: effect of trehalose on aggregation, TDP-43 localization and levels of co-expressed glycoproteins. <i>Neuroscience Letters</i> , <b>2010</b> , 475, 145-9	3.3	42
52	Expression of mucins (MUC1, MUC2, MUC5AC, and MUC6) and type 1 Lewis antigens in cases with and without <i>Helicobacter pylori</i> colonization in metaplastic glands of the human stomach. <i>Journal of Pathology</i> , <b>2002</b> , 197, 37-43	9.4	41
51	Re-evaluating the role of strongly charged sequences in amphipathic cell-penetrating peptides: a fluorescence study using Pep-1. <i>FEBS Letters</i> , <b>2005</b> , 579, 4498-502	3.8	37
50	Glycoconjugates from extracellular vesicles: Structures, functions and emerging potential as cancer biomarkers. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , <b>2017</b> , 1868, 157-166	11.2	33
49	Kinetic analysis of L1 homophilic interaction: role of the first four immunoglobulin domains and implications on binding mechanism. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 28038-47	5.4	31
48	Expression and characterization of recombinant human $\beta$ 4-fucosyltransferase III from <i>Spodoptera frugiperda</i> (Sf9) and <i>Trichoplusia ni</i> (Tn) cells using the baculovirus expression system. <i>Biochemical Journal</i> , <b>2001</b> , 353, 719-725	3.8	27
47	Diagnosis, pathogenesis and therapeutic targets in amyotrophic lateral sclerosis. <i>CNS and Neurological Disorders - Drug Targets</i> , <b>2010</b> , 9, 764-78	2.6	27
46	N-Glycosylation of Extracellular Vesicles from HEK-293 and Glioma Cell Lines. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7871-7879	7.8	25
45	Emerging molecular biomarker targets for amyotrophic lateral sclerosis. <i>Clinica Chimica Acta</i> , <b>2016</b> , 455, 7-14	6.2	24
44	Importance of Cys, Gln, and Tyr from the transmembrane domain of human alpha 3/4 fucosyltransferase III for its localization and sorting in the Golgi of baby hamster kidney cells. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 7624-9	5.4	24
43	Novel culture strategy for human stem cell proliferation and neuronal differentiation. <i>Journal of Neuroscience Research</i> , <b>2007</b> , 85, 3557-66	4.4	23
42	Phosphoneurofilament heavy chain and N-glycomics from the cerebrospinal fluid in amyotrophic lateral sclerosis. <i>Clinica Chimica Acta</i> , <b>2015</b> , 438, 342-9	6.2	21

41	Expression of glycogenes in differentiating human NT2N neurons. Downregulation of fucosyltransferase 9 leads to decreased Lewis(x) levels and impaired neurite outgrowth. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2012</b> , 1820, 2007-19	4	21
40	N-glycosylation of recombinant human fucosyltransferase III is required for its in vivo folding in mammalian and insect cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2003</b> , 1619, 133-8	4	21
39	Increased levels of fucosyltransferase IX and carbohydrate Lewis(x) adhesion determinant in human NT2N neurons. <i>Journal of Neuroscience Research</i> , <b>2007</b> , 85, 1260-70	4.4	20
38	In vitro alpha1-3 or alpha1-4 fucosylation of type I and II oligosaccharides with secreted forms of recombinant human fucosyltransferases III and VI. <i>Glycoconjugate Journal</i> , <b>1998</b> , 15, 873-83	3	18
37	Human fucosyltransferase IX: specificity towards N-linked glycoproteins and relevance of the cytoplasmic domain in intra-Golgi localization. <i>Biochimie</i> , <b>2008</b> , 90, 1279-90	4.6	17
36	N-glycosylation of human nicastrin is required for interaction with the lectins from the secretory pathway calnexin and ERGIC-53. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2006</b> , 1762, 802-10	6.9	17
35	Expression and characterization of recombinant human alpha-3/4-fucosyltransferase III from <i>Spodoptera frugiperda</i> (Sf9) and <i>Trichoplusia ni</i> (Tn) cells using the baculovirus expression system. <i>Biochemical Journal</i> , <b>2001</b> , 353, 719-25	3.8	17
34	Establishment of a cell model of ALS disease: Golgi apparatus disruption occurs independently from apoptosis. <i>Biotechnology Letters</i> , <b>2008</b> , 30, 603-10	3	16
33	Stable expression of recombinant human alpha3/4 fucosyltransferase III in <i>Spodoptera frugiperda</i> Sf9 cells. <i>Journal of Biotechnology</i> , <b>2003</b> , 106, 69-75	3.7	16
32	Dibucaine interaction with phospholipid vesicles. A resonance energy-transfer study. <i>FEBS Journal</i> , <b>1990</b> , 189, 387-93		15
31	Production and N-glycosylation of recombinant human cell adhesion molecule L1 from insect cells using the stable expression system. Effect of dimethyl sulfoxide. <i>Journal of Biotechnology</i> , <b>2010</b> , 145, 130-8	3.7	13
30	Proteomic analysis of plasma from Portuguese patients with familial amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2008</b> , 9, 339-49		13
29	Production and purification of functional truncated soluble forms of human recombinant L1 cell adhesion glycoprotein from <i>Spodoptera frugiperda</i> Sf9 cells. <i>Protein Expression and Purification</i> , <b>2007</b> , 52, 182-93	2	13
28	A novel plant alpha4-fucosyltransferase ( <i>Vaccinium myrtillus</i> L.) synthesises the Lewis(a) adhesion determinant. <i>FEBS Letters</i> , <b>2001</b> , 499, 235-8	3.8	13
27	Deletion of the cytoplasmic domain of human alpha3/4 fucosyltransferase III causes the shift of the enzyme to early Golgi compartments. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2004</b> , 1675, 95-104		12
26	Structural and functional aspects of cardosins. <i>Advances in Experimental Medicine and Biology</i> , <b>1998</b> , 436, 423-33	3.6	12
25	Effect of the manganese ion on human alpha3/4 fucosyltransferase III activity. <i>BioMetals</i> , <b>2004</b> , 17, 35-43	3.4	11
24	Exploring Cerebrospinal Fluid IgG N-Glycosylation as Potential Biomarker for Amyotrophic Lateral Sclerosis. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 5729-5739	6.2	10

23	A detection and quantification label-free tool to speed up downstream processing of model mucins. <i>PLoS ONE</i> , <b>2018</b> , 13, e0190974	3.7	10
22	Vascular endothelial growth factor and amyotrophic lateral sclerosis: the interplay with exercise and noninvasive ventilation. <i>Muscle and Nerve</i> , <b>2014</b> , 49, 545-50	3.4	9
21	Phosphoneurofilament heavy chain and vascular endothelial growth factor as cerebrospinal fluid biomarkers for ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , <b>2017</b> , 18, 134-136	3.6	9
20	Subcellular localization of the carbohydrate Lewis(x) adhesion structure in hippocampus cell cultures. <i>Brain Research</i> , <b>2009</b> , 1287, 39-46	3.7	8
19	Biochemical characterization of plasma in amyotrophic lateral sclerosis: amino acid and protein composition. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases</i> , <b>2005</b> , 6, 104-110		8
18	Localization, purification and specificity of the full-length membrane-bound form of human recombinant $\alpha$ 1,3/4-fucosyltransferase from BHK-21B cells. <i>Biochemical Journal</i> , <b>2001</b> , 357, 803-810	3.8	8
17	Production of high-quality SARS-CoV-2 antigens: Impact of bioprocess and storage on glycosylation, biophysical attributes, and ELISA serologic tests performance. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2202-2219	4.9	8
16	Investigating LGALS3BP/90 K glycoprotein in the cerebrospinal fluid of patients with neurological diseases. <i>Scientific Reports</i> , <b>2020</b> , 10, 5649	4.9	7
15	Antibody fragments directed against different portions of the human neural cell adhesion molecule L1 act as inhibitors or activators of L1 function. <i>PLoS ONE</i> , <b>2012</b> , 7, e52404	3.7	7
14	Erythropoietin and amyotrophic lateral sclerosis: Plasma level determination. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2011</b> , 12, 439-43		7
13	Localization, purification and specificity of the full-length membrane-bound form of human recombinant $\alpha$ 1,3/4-fucosyltransferase from BHK-21B cells. <i>Biochemical Journal</i> , <b>2001</b> , 357, 803-10	3.8	7
12	Photodecarboxylation of citrate through ion pair photochemistry: the Co(Sep)3+Citratate(n = 1,2,3) system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1989</b> , 49, 195-202	4.7	7
11	N-glycosylation analysis by HPAEC-PAD and mass spectrometry. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1049, 301-12	1.4	7
10	Cellular localization of Nicastrin affects amyloid beta species production. <i>FEBS Letters</i> , <b>2008</b> , 582, 427-33,8		6
9	Biochemical characterization of plasma in amyotrophic lateral sclerosis: Amino acid and protein composition. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2005</b> , 6, 104-110		6
8	Quantum yield determinations on the [Co(EDTA)] <sup>3+</sup> system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1989</b> , 48, 233-242	4.7	5
7	Assessment of the efficacy of solutes from extremophiles on protein aggregation in cell models of Huntington's and Parkinson's diseases. <i>Neurochemical Research</i> , <b>2011</b> , 36, 1005-11	4.6	4
6	Tunicamycin and swainsonine stimulate <i>Lupinus albus</i> L. root growth in vitro. <i>Plant Science</i> , <b>1994</b> , 101, 137-142	5.3	4

5	A Lupinus albus root glycoprotein homologous to the polygalacturonase inhibitor proteins. <i>Physiologia Plantarum</i> , <b>1997</b> , 99, 263-270	4.6	3
4	Stable expression of an active soluble recombinant form of human fucosyltransferase IX in <i>Spodoptera frugiperda</i> Sf9 cells. <i>Biotechnology Letters</i> , <b>2007</b> , 29, 1623-30	3	3
3	Human carboxylesterase 2: Studies on the role of glycosylation for enzymatic activity. <i>Biochemistry and Biophysics Reports</i> , <b>2016</b> , 5, 105-110	2.2	2
2	Characterisation of a developmentally related polypeptide with glutelin solubility characteristics from <i>Lupinus albus</i> L. <i>Planta</i> , <b>1996</b> , 198, 221-9	4.7	2
1	A <i>Lupinus albus</i> root glycoprotein homologous to the polygalacturonase inhibitor proteins. <i>Physiologia Plantarum</i> , <b>1997</b> , 99, 263-270	4.6	2