

# Jose Osvaldo Previato

## List of Publications by Citations

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98  
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32  
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48  
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103  
ext. papers

3,204  
ext. citations

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L-index

#	Paper	IF	Citations
98	Expression of functional TLR4 confers proinflammatory responsiveness to <i>Trypanosoma cruzi</i> glycoinositolphospholipids and higher resistance to infection with <i>T. cruzi</i> . <i>Journal of Immunology</i> , <b>2004</b> , 173, 5688-96	5.3	182
97	Incorporation of sialic acid into <i>Trypanosoma cruzi</i> macromolecules. A proposal for a new metabolic route. <i>Molecular and Biochemical Parasitology</i> , <b>1985</b> , 16, 85-96	1.9	166
96	Structural characterization of the major glycosylphosphatidylinositol membrane-anchored glycoprotein from epimastigote forms of <i>Trypanosoma cruzi</i> Y-strain. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 7241-50	5.4	117
95	Capsular polysaccharides galactoxylomannan and glucuronoxylomannan from <i>Cryptococcus neoformans</i> induce macrophage apoptosis mediated by Fas ligand. <i>Cellular Microbiology</i> , <b>2008</b> , 10, 1274-83	3.9	85
94	Understanding the laminated layer of larval <i>Echinococcus</i> I: structure. <i>Trends in Parasitology</i> , <b>2011</b> , 27, 204-13	6.4	77
93	Capsular polysaccharides from <i>Cryptococcus neoformans</i> modulate production of neutrophil extracellular traps (NETs) by human neutrophils. <i>Scientific Reports</i> , <b>2015</b> , 5, 8008	4.9	72
92	Biosynthesis of O-N-acetylglucosamine-linked glycans in <i>Trypanosoma cruzi</i> . Characterization of the novel uridine diphospho-N-acetylglucosamine:polypeptide N-acetylglucosaminyltransferase-catalyzing formation of N-acetylglucosamine alpha 1->O-threonine. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 14982-8	5.4	63
91	Glycoinositolphospholipid from <i>Trypanosoma cruzi</i> : structure, biosynthesis and immunobiology. <i>Advances in Parasitology</i> , <b>2004</b> , 56, 1-41	3.2	62
90	Costimulation of host T lymphocytes by a trypanosomal trans-sialidase: involvement of CD43 signaling. <i>Journal of Immunology</i> , <b>2002</b> , 168, 5192-8	5.3	62
89	Chemical structure and antigenic aspects of complexes obtained from epimastigotes of <i>Trypanosoma cruzi</i> . <i>Biochemistry</i> , <b>1983</b> , 22, 4980-7	3.2	59
88	Protozoan parasite-specific carbohydrate structures. <i>Current Opinion in Structural Biology</i> , <b>2005</b> , 15, 499-505	5.05	58
87	Structural variation in the glycoinositolphospholipids of different strains of <i>Trypanosoma cruzi</i> . <i>Glycoconjugate Journal</i> , <b>1996</b> , 13, 955-66	3	57
86	The trans-sialidase, the major <i>Trypanosoma cruzi</i> virulence factor: Three decades of studies. <i>Glycobiology</i> , <b>2015</b> , 25, 1142-9	5.8	54
85	Effects of iron limitation on adherence and cell surface carbohydrates of <i>Corynebacterium diphtheriae</i> strains. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 5907-13	4.8	52
84	Toxic effects of natural piperine and its derivatives on epimastigotes and amastigotes of <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 3555-8	2.9	50
83	Heterogeneity in the biosynthesis of mucin O-glycans from <i>Trypanosoma cruzi</i> tulahuén strain with the expression of novel galactofuranosyl-containing oligosaccharides. <i>Biochemistry</i> , <b>2004</b> , 43, 11889-97	3.2	50
82	Endophytic colonization of rice ( <i>Oryza sativa</i> L.) by the diazotrophic bacterium <i>Burkholderia kururiensis</i> and its ability to enhance plant growth. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2008</b> , 80, 477-93	1.4	49

81	Enzymatically inactive trans-sialidase from <i>Trypanosoma cruzi</i> binds sialyl and beta-galactopyranosyl residues in a sequential ordered mechanism. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 5323-8	5.4	49
80	trans-Sialidase from <i>Trypanosoma cruzi</i> binds host T-lymphocytes in a lectin manner. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 45962-8	5.4	44
79	Proinflammatory and cytotoxic effects of hexadecylphosphocholine (miltefosine) against drug-resistant strains of <i>Trypanosoma cruzi</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2002</b> , 46, 3472-7	5.9	43
78	Structure of O-glycosidically linked oligosaccharides from glycoproteins of <i>Trypanosoma cruzi</i> CL-Brener strain: evidence for the presence of O-linked sialyl-oligosaccharides. <i>Glycobiology</i> , <b>2001</b> , 11, 47-55	5.8	42
77	Structure of the N-linked oligosaccharide of the main diagnostic antigen of the pathogenic fungus <i>Paracoccidioides brasiliensis</i> . <i>Glycobiology</i> , <b>1996</b> , 6, 507-15	5.8	42
76	<i>Trypanosoma cruzi</i> subverts host cell sialylation and may compromise antigen-specific CD8+ T cell responses. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 13388-96	5.4	39
75	Involvement of fungal cell wall components in adhesion of <i>Sporothrix schenckii</i> to human fibronectin. <i>Infection and Immunity</i> , <b>2001</b> , 69, 6874-80	3.7	39
74	Molecular analysis of a novel family of complex glycoinositolphosphoryl ceramides from <i>Cryptococcus neoformans</i> : structural differences between encapsulated and acapsular yeast forms. <i>Glycobiology</i> , <b>2002</b> , 12, 409-20	5.8	38
73	High diversity in mucin genes and mucin molecules in <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 32078-83	5.4	38
72	Structure of the D-mannan and D-arabino-D-galactan in <i>Crithidia fasciculata</i> : changes in proportion with age of culture. <i>Journal of Protozoology</i> , <b>1979</b> , 26, 473-8		38
71	Soluble and insoluble glucans from different cell types of the human pathogen <i>Sporothrix schenckii</i> . <i>Experimental Mycology</i> , <b>1979</b> , 3, 92-105		36
70	Endothelial cell signalling induced by trans-sialidase from <i>Trypanosoma cruzi</i> . <i>Cellular Microbiology</i> , <b>2008</b> , 10, 88-99	3.9	35
69	Novel antigenic determinants from peptidorhamnomannans of <i>Sporothrix schenckii</i> . <i>Glycobiology</i> , <b>1994</b> , 4, 281-8	5.8	35
68	Design, synthesis and trypanocidal evaluation of novel 1,2,4-triazoles-3-thiones derived from natural piperine. <i>Molecules</i> , <b>2013</b> , 18, 6366-82	4.8	34
67	A novel sialylated and galactofuranose-containing O-linked glycan, Neu5Acalpha2-->3Galpbeta1-->6(Galfbeta1-->4)GlcNAc, is expressed on the sialoglycoprotein of <i>Trypanosoma cruzi</i> Dm28c. <i>Molecular and Biochemical Parasitology</i> , <b>2003</b> , 126, 93-6	1.9	33
66	Characterization of the inositol phosphorylceramide synthase activity from <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , <b>2005</b> , 387, 519-29	3.8	31
65	Addition of ED-GlcNAc to threonine residues define the post-translational modification of mucin-like molecules in <i>Trypanosoma cruzi</i> . <i>Glycoconjugate Journal</i> , <b>2013</b> , 30, 659-66	3	30
64	Overlooked post-translational modifications of proteins in <i>Plasmodium falciparum</i> : N- and O-glycosylation -- a review. <i>Memórias Do Instituto Oswaldo Cruz</i> , <b>2010</b> , 105, 949-56	2.6	28

63	Structural elucidation of the repeat unit in highly branched acidic exopolysaccharides produced by nitrogen fixing Burkholderia. <i>Glycobiology</i> , <b>2010</b> , 20, 338-47	5.8	28
62	The toxic effects of piperine against Trypanosoma cruzi: ultrastructural alterations and reversible blockage of cytokinesis in epimastigote forms. <i>Parasitology Research</i> , <b>2008</b> , 102, 1059-67	2.4	28
61	Toll-like receptor 4 (TLR4)-dependent proinflammatory and immunomodulatory properties of the glycoinositolphospholipid (GIPL) from Trypanosoma cruzi. <i>Journal of Leukocyte Biology</i> , <b>2007</b> , 82, 488-96	6.5	28
60	Glycosylation in Cancer: Interplay between Multidrug Resistance and Epithelial-to-Mesenchymal Transition?. <i>Frontiers in Oncology</i> , <b>2016</b> , 6, 158	5.3	28
59	Mannoprotein MP84 mediates the adhesion of Cryptococcus neoformans to epithelial lung cells. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2014</b> , 4, 106	5.9	27
58	A new class of mechanism-based inhibitors for Trypanosoma cruzi trans-sialidase and their influence on parasite virulence. <i>Glycobiology</i> , <b>2010</b> , 20, 1034-45	5.8	27
57	The major surface carbohydrates of the Echinococcus granulosus cyst: mucin-type O-glycans decorated by novel galactose-based structures. <i>Biochemistry</i> , <b>2009</b> , 48, 11678-91	3.2	26
56	Immunomodulatory Role of Capsular Polysaccharides Constituents of. <i>Frontiers in Medicine</i> , <b>2019</b> , 6, 129	4.9	25
55	Chemical Structure of Major Glycoconjugates from Parasites. <i>Current Organic Chemistry</i> , <b>2008</b> , 12, 926-939	3.9	25
54	Novel 1,3,4-thiadiazolium-2-phenylamine chlorides derived from natural piperine as trypanocidal agents: chemical and biological studies. <i>Bioorganic and Medicinal Chemistry</i> , <b>2008</b> , 16, 2984-91	3.4	25
53	Characterization of novel structures of mannosylinositolphosphorylceramides from the yeast forms of Sporothrix schenckii. <i>FEBS Journal</i> , <b>2001</b> , 268, 4243-50		24
52	Crithidia spp.: structural comparison of polysaccharides for taxonomic significance. <i>Experimental Parasitology</i> , <b>1982</b> , 53, 170-8	2.1	24
51	Nitrogen-fixing bacterium Burkholderia brasiliensis produces a novel yersiniose A-containing O-polysaccharide. <i>Glycobiology</i> , <b>2005</b> , 15, 313-21	5.8	23
50	Glycoinositol phospholipids from Trypanosoma cruzi transmit signals to the cells of the host immune system through both ceramide and glycan chains. <i>Microbes and Infection</i> , <b>2002</b> , 4, 1007-13	9.3	23
49	Structure of an acidic exopolysaccharide produced by the diazotrophic endophytic bacterium Burkholderia brasiliensis. <i>FEBS Journal</i> , <b>2001</b> , 268, 3174-9		23
48	Glycoinositolphospholipids from Trypanosomatids subvert nitric oxide production in Rhodnius prolixus salivary glands. <i>PLoS ONE</i> , <b>2012</b> , 7, e47285	3.7	22
47	Molecular analysis of a UDP-GlcNAc:polypeptide alpha-N-acetylglucosaminyltransferase implicated in the initiation of mucin-type O-glycosylation in Trypanosoma cruzi. <i>Glycobiology</i> , <b>2009</b> , 19, 918-33	5.8	21
46	Cell wall composition in different cell types of the dimorphic species Sporothrix schenckii. <i>Experimental Mycology</i> , <b>1979</b> , 3, 83-91		21

45	Characterization of glycoinositolphosphoryl ceramide structure mutant strains of <i>Cryptococcus neoformans</i> . <i>Glycobiology</i> , <b>2007</b> , 17, 1-11C	5.8	20
44	Chemical characterisation of glycosylinositolphospholipids of <i>Herpetomonas samuelpessoai</i> . <i>Molecular and Biochemical Parasitology</i> , <b>1995</b> , 69, 81-92	1.9	20
43	<i>Leishmania adleri</i> , a lizard parasite, expresses structurally similar glycoinositolphospholipids to mammalian <i>Leishmania</i> . <i>Glycobiology</i> , <b>1997</b> , 7, 687-95	5.8	19
42	Isolation and characterization of the Golgi complex of the protozoan <i>Trypanosoma cruzi</i> . <i>Parasitology</i> , <b>2001</b> , 123, 33-43	2.7	19
41	Further structural characterization of the <i>Echinococcus granulosus</i> laminated layer carbohydrates: the blood-antigen P1-motif gives rise to branches at different points of the O-glycan chains. <i>Glycobiology</i> , <b>2013</b> , 23, 438-52	5.8	18
40	Characterization of dolichol monophosphate- and dolichol diphosphate-linked saccharides in trypanosomatid flagellates. <i>Molecular and Biochemical Parasitology</i> , <b>1986</b> , 18, 343-53	1.9	18
39	Identification and functional analysis of <i>Trypanosoma cruzi</i> genes that encode proteins of the glycosylphosphatidylinositol biosynthetic pathway. <i>PLoS Neglected Tropical Diseases</i> , <b>2013</b> , 7, e2369	4.8	17
38	<i>Trypanosoma cruzi</i> adjuvants potentiate T cell-mediated immunity induced by a NY-ESO-1 based antitumor vaccine. <i>PLoS ONE</i> , <b>2012</b> , 7, e36245	3.7	16
37	Alpha-N-acetylglucosamine-linked O-glycans of sialoglycoproteins (Tc-mucins) from <i>Trypanosoma cruzi</i> Colombian strain. <i>Memorias Do Instituto Oswaldo Cruz</i> , <b>2009</b> , 104 Suppl 1, 270-4	2.6	16
36	Piperine Inhibits TGF- $\beta$ Signaling Pathways and Disrupts EMT-Related Events in Human Lung Adenocarcinoma Cells. <i>Medicines (Basel, Switzerland)</i> , <b>2020</b> , 7,	4.1	14
35	Overexpression of the aldose reductase GRE3 suppresses lithium-induced galactose toxicity in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , <b>2008</b> , 8, 1245-53	3.1	14
34	Costimulatory action of glycoinositolphospholipids from <i>Trypanosoma cruzi</i> : increased interleukin 2 secretion and induction of nuclear translocation of the nuclear factor of activated T cells 1. <i>FASEB Journal</i> , <b>1999</b> , 13, 1627-36	0.9	14
33	Functional Characterization of ABCC Proteins from and Their Involvement with Thiol Transport. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 205	5.7	12
32	Sorting of phosphoglucomutase to glycosomes in <i>Trypanosoma cruzi</i> is mediated by an internal domain. <i>Glycobiology</i> , <b>2009</b> , 19, 1462-72	5.8	12
31	A novel $\beta$ -(1 $\rightarrow$ 2)-linked D-mannopyranose from <i>Crithidia deanei</i> . <i>Carbohydrate Research</i> , <b>1979</b> , 70, 172-174.	4.9	12
30	Theft and Reception of Host Cell Sialic Acid: Dynamics of $\alpha$ -sialidases and Mucin-Like Molecules on Chagas Disease Immunomodulation. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 164	8.4	11
29	Structural analysis of novel rhamnose-branched oligosaccharides from the glycosylphosphatidylinositol lipids of <i>Leptomonas samueli</i> . <i>Glycoconjugate Journal</i> , <b>1994</b> , 11, 23-33	3	10
28	Modulation of Cell Sialoglycophenotype: A Stylish Mechanism Adopted by <i>Trypanosoma cruzi</i> to Ensure Its Persistence in the Infected Host. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 698	5.7	10

27	Distribution of the O-acetyl groups and galactofuranose units in galactoxylomannans of the opportunistic fungus <i>Cryptococcus neoformans</i> . <i>Glycobiology</i> , <b>2017</b> , 27, 582-592	5.8	10
26	Draft Genome Sequence of the Rice Endophyte <i>Burkholderia kururiensis</i> M130. <i>Genome Announcements</i> , <b>2013</b> , 1, e0022512		9
25	Lithium-mediated suppression of morphogenesis and growth in <i>Candida albicans</i> . <i>FEMS Yeast Research</i> , <b>2008</b> , 8, 615-21	3.1	9
24	Molecular and functional characterization of the ceramide synthase from <i>Trypanosoma cruzi</i> . <i>Molecular and Biochemical Parasitology</i> , <b>2012</b> , 182, 62-74	1.9	8
23	Role of Inactive and Active $\alpha$ -sialidases on T Cell Homing and Secretion of Inflammatory Cytokines. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1307	5.7	8
22	Cloning and characterization of the phosphoglucomutase of <i>Trypanosoma cruzi</i> and functional complementation of a <i>Saccharomyces cerevisiae</i> PGM null mutant. <i>Glycobiology</i> , <b>2005</b> , 15, 1359-67	5.8	8
21	Involvement of the capsular GalXM-induced IL-17 cytokine in the control of <i>Cryptococcus neoformans</i> infection. <i>Scientific Reports</i> , <b>2018</b> , 8, 16378	4.9	8
20	Structure of the repeating oligosaccharide from the lipopolysaccharide of the nitrogen-fixing bacterium <i>Acetobacter diazotrophicus</i> strain PAL 5. <i>Carbohydrate Research</i> , <b>1997</b> , 298, 311-8	2.9	7
19	Characterization of two heparan sulphate-binding sites in the mycobacterial adhesin Hlp. <i>BMC Microbiology</i> , <b>2008</b> , 8, 75	4.5	7
18	NMR assignments for glucosylated and galactosylated N-acetylhexosaminidols: oligosaccharide alditols related to O-linked glycans from the protozoan parasite <i>Trypanosoma cruzi</i> . <i>Carbohydrate Research</i> , <b>2000</b> , 328, 321-30	2.9	7
17	Formation of (1 $\rightarrow$ 2)-Linked $\beta$ -D-Mannopyranan by <i>Leishmania mexicana amazonensis</i> : Relationship with Certain <i>Crithidia</i> and <i>Herpetomonas</i> Species. <i>Journal of Parasitology</i> , <b>1984</b> , 70, 449	0.9	7
16	Modulation of sodium pumps by steroidal saponins. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2004</b> , 59, 432-6	1.7	6
15	Differentiation of capsular polysaccharides from <i>Acetobacter diazotrophicus</i> strains isolated from sugarcane. <i>Microbiology and Immunology</i> , <b>1995</b> , 39, 237-42	2.7	6
14	Structure determination of phosphoinositol oligosaccharides from parasitic protozoa using fast atom bombardment mass spectrometry. <i>Organic Mass Spectrometry</i> , <b>1994</b> , 29, 767-781		6
13	Glycoinositolphospholipids from <i>Trypanosoma cruzi</i> induce B cell hyper-responsiveness in vivo. <i>Glycoconjugate Journal</i> , <b>2000</b> , 17, 727-34	3	5
12	The structure of a complex glycosylphosphatidyl inositol-anchored glucoxytan from the kinetoplastid protozoan <i>Leptomonas samueli</i> . <i>FEBS Journal</i> , <b>2000</b> , 267, 5387-96		4
11	Some structural features of polysaccharide components of the protozoan <i>Leishmania tarentolae</i> . <i>Carbohydrate Research</i> , <b>1981</b> , 97, 156-60	2.9	4
10	The role of Toll-like receptor 9 in a murine model of <i>Cryptococcus gattii</i> infection. <i>Scientific Reports</i> , <b>2021</b> , 11, 1407	4.9	4

9	Expanding the knowledge of the chemical structure of glycoconjugates from <i>Trypanosoma cruzi</i> TcI genotype. Contribution to taxonomic studies. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2016</b> , 88, 1519-29	1.4	3
8	Resistance to paclitaxel induces glycophenotype changes and mesenchymal-to-epithelial transition activation in the human prostate cancer cell line PC-3. <i>Tumor Biology</i> , <b>2020</b> , 42, 1010428320957506	2.9	3
7	Resistance to cisplatin in human lung adenocarcinoma cells: effects on the glycophenotype and epithelial to mesenchymal transition markers.. <i>Glycoconjugate Journal</i> , <b>2022</b> , 39, 247	3	2
6	Characterization of the 6-O-acetylated lipoglucuronomannogalactan a novel <i>Cryptococcus neoformans</i> cell wall polysaccharide. <i>Carbohydrate Research</i> , <b>2019</b> , 475, 1-10	2.9	1
5	B cell response during infection with the MAT a and MAT alpha mating types of <i>Cryptococcus neoformans</i> . <i>Microbes and Infection</i> , <b>2005</b> , 7, 118-25	9.3	1
4	Structural features and antigenic properties of carbohydrate-containing components of <i>Trypanosoma conorhini</i> . <i>Molecular and Biochemical Parasitology</i> , <b>1987</b> , 26, 193-202	1.9	1
3	Thiol efflux mediated by an ABCC-like transporter participates for <i>Trypanosoma cruzi</i> adaptation to environmental and chemotherapeutic stresses		1
2	X-linked immunodeficient (XID) mice exhibit high susceptibility to <i>Cryptococcus gattii</i> infection. <i>Scientific Reports</i> , <b>2021</b> , 11, 18397	4.9	1
1	-Sialidase as a Potential Vaccine Target Against Chagas Disease. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2021</b> , 11, 768450	5.9	0