Marcelo D Baruffi

List of Publications by Year
in descending order

95 papers	2,761 citations	236925 25 h-index	197818 49 g-index
101 all docs	101 docs citations	101 times ranked	3642 citing authors

#	Article	IF	Citations
1	Innate immune lectins kill bacteria expressing blood group antigen. Nature Medicine, 2010, 16, 295-301.	30.7	267
2	Differential Roles of Galectin-1 and Galectin-3 in Regulating Leukocyte Viability and Cytokine Secretion. Journal of Immunology, 2008, 180, 3091-3102.	0.8	232
3	Dimeric Galectin-1 Induces Surface Exposure of Phosphatidylserine and Phagocytic Recognition of Leukocytes without Inducing Apoptosis. Journal of Biological Chemistry, 2003, 278, 41282-41293.	3.4	160
4	Human galectin-1, -2, and -4 induce surface exposure of phosphatidylserine in activated human neutrophils but not in activated T cells. Blood, 2007, 109, 219-227.	1.4	148
5	Evolving Mechanistic Insights into Galectin Functions. Methods in Molecular Biology, 2015, 1207, 1-35.	0.9	115
6	Human galectin-1 recognition of poly-N-acetyllactosamine and chimeric polysaccharides. Glycobiology, 2003, 14, 157-167.	2.5	106
7	Galectin-1 Induces Reversible Phosphatidylserine Exposure at the Plasma Membrane. Molecular Biology of the Cell, 2009, 20, 1408-1418.	2.1	93
8	Evidence of caspase-mediated apoptosis induced by l-amino acid oxidase isolated from Bothrops atrox snake venom. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 151, 542-550.	1.8	92
9	Ligand Reduces Galectin-1 Sensitivity to Oxidative Inactivation by Enhancing Dimer Formation. Journal of Biological Chemistry, 2009, 284, 4989-4999.	3.4	89
10	The citrus flavonoid naringenin impairs the in vitro infection of human cells by Zika virus. Scientific Reports, 2019, 9, 16348.	3.3	76
11	Key regulators of galectinâ€“glycan interactions. Proteomics, 2016, 16, 3111-3125.	2.2	65
12	In vitro photodynamic inactivation of Candida species and mouse fibroblasts with phenothiazinium photosensitisers and red light. Photodiagnosis and Photodynamic Therapy, 2013, 10, 141-149.	2.6	60
13	Differential expression of immunomodulatory galectin-1 in peripheral leukocytes and adult tissues and its cytosolic organization in striated muscle. Glycobiology, 2010, 20, 507-520.	2.5	45
14	The Sweet-Side of Leukocytes: Galectins as Master Regulators of Neutrophil Function. Frontiers in Immunology, 2019, 10, 1762.	4.8	44
15	5-Lipoxygenase Deficiency Impairs Innate and Adaptive Immune Responses during Fungal Infection. PLoS ONE, 2012, 7, e31701.	2.5	42
16	Galectin-1 Exerts Inhibitory Effects during DENV-1 Infection. PLoS ONE, 2014, 9, e112474.	2.5	39
17	O-glycan sialylation alters galectin-3 subcellular localization and decreases chemotherapy sensitivity in gastric cancer. Oncotarget, 2016, 7, 83570-83587.	1.8	38
18	Biomimetic inÂvitro oxidation of lapachol: A model to predict and analyse the inÂvivo phase I metabolism of bioactive compounds. European Journal of Medicinal Chemistry, 2012, 54, 804-812.	5.5	35

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19	Leishmanicidal Evaluation of Tetrahydroprotoberberine and Spirocyclic Erythrina-Alkaloids. Molecules, 2014, 19, 5692-5703.	3.8	35
20	Poly-epsilon-caprolactone nanoparticles enhance ursolic acid in vivo efficacy against Trypanosoma cruzi infection. Materials Science and Engineering C, 2017, 77, 1196-1203.	7.3	34
21	Anti-asthmatic potential of a d-galactose-binding lectin from Synadenium carinatum latex. Glycobiology, 2007, 17, 795-804.	2.5	32
22	Degeneration of dystrophic or injured skeletal muscles induces high expression of Galectin-1. Glycobiology, 2008, 18, 842-850.	2.5	31
23	Lâ€Amino Acid Oxidase Isolated from <scp>B</scp>othrops pirajai Induces Apoptosis in <scp>BCR</scp>â€<scp>ABL</scp>â€Positive Cells and Potentiates Imatinib Mesylate Effect. Basic and Clinical Pharmacology and Toxicology, 2013, 113, 103-112.	2.5	30
24	sTREM-1 Predicts Disease Severity and Mortality in COVID-19 Patients: Involvement of Peripheral Blood Leukocytes and MMP-8 Activity. Viruses, 2021, 13, 2521.	3.3	28
25	Matrix Metalloproteinases on Severe COVID-19 Lung Disease Pathogenesis: Cooperative Actions of MMP-8/MMP-2 Axis on Immune Response through HLA-G Shedding and Oxidative Stress. Biomolecules, 2022, 12, 604.	4.0	28
26	Evaluation of immunomodulatory and anti-inflammatory effects and phytochemical screening of Alternanthera tenella Colla (Amaranthaceae) aqueous extracts. Memorias Do Instituto Oswaldo Cruz, 2008, 103, 569-577.	1.6	27
27	Examining Galectin Binding Specificity Using Glycan Microarrays. Methods in Molecular Biology, 2015, 1207, 115-131.	0.9	27
28	Synthetic 1,2,3-triazole-linked glycoconjugates bind with high affinity to human galectin-3. Bioorganic and Medicinal Chemistry, 2015, 23, 3414-3425.	3.0	26
29	Enhanced Antitumor Activity against Melanoma Cancer Cells by Nitric Oxide Release and Photosensitized Generation of Singlet Oxygen from Ruthenium Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 3592-3597.	2.0	26
30	Synthetic glycoconjugates inhibitors of tumor-related galectin-3: an update. Glycoconjugate Journal, 2016, 33, 853-876.	2.7	26
31	In vitro and in vivo activities of leukotriene B4-loaded biodegradable microspheres. Prostaglandins and Other Lipid Mediators, 2007, 83, 121-129.	1.9	25
32	Fumarate hydratase isoforms of Leishmania major: Subcellular localization, structural and kinetic properties. International Journal of Biological Macromolecules, 2012, 51, 25-31.	7.5	25
33	Adaptive Immune Response Impairs the Efficacy of Autologous Transplantation of Engineered Stem Cells in Dystrophic Dogs. Molecular Therapy, 2016, 24, 1949-1964.	8.2	24
34	Neutrophil migration induced in vivo and in vitro by marine algal lectins. Inflammation Research, 2001, 50, 486-490.	4.0	22
35	Lack of galectin-3 increases Jagged1/Notch activation in bone marrow-derived dendritic cells and promotes dysregulation of T helper cell polarization. Molecular Immunology, 2016, 76, 22-34.	2.2	22
36	Recombinant <scp>DNA</scp> immunotherapy ameliorate established airway allergy in a <scp>IL</scp>â€10 dependent pathway. Clinical and Experimental Allergy, 2012, 42, 131-143.	2.9	21

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37	Galectins: An Ancient Family of Carbohydrate Binding Proteins with Modern Functions. Methods in Molecular Biology, 2022, 2442, 1-40.	0.9	21
38	Heparin potentiates in vivo neutrophil migration induced by IL-8. Glycoconjugate Journal, 1998, 15, 523-526.	2.7	20
39	Galatrox is a C-type lectin in Bothrops atrox snake venom that selectively binds LacNAc-terminated glycans and can induce acute inflammation. Glycobiology, 2014, 24, 1010-1021.	2.5	20
40	Macrophage-released neutrophil chemotactic factor (MNCF) induces PMN-neutrophil migration through lectin-like activity. Agents and Actions, 1993, 38, C54-C56.	0.7	19
41	Proteomic and functional analysis identifies galectin-1 as a novel regulatory component of the cytotoxic granule machinery. Cell Death and Disease, 2017, 8, e3176-e3176.	6.3	19
42	Isolation, functional, and partial biochemical characterization of galatrox, an acidic lectin from Bothrops atrox snake venom. Acta Biochimica Et Biophysica Sinica, 2011, 43, 181-192.	2.0	17
43	Requirement of <scp>M</scp>y<scp>D</scp>88 and <scp>F</scp>as pathways for the efficacy of allergenâ€free immunotherapy. Allergy: European Journal of Allergy and Clinical Immunology, 2015, 70, 275-284.	5.7	17
44	Acetylcholine, Fatty Acids, and Lipid Mediators Are Linked to COVID-19 Severity. Journal of Immunology, 2022, 209, 250-261.	0.8	17
45	Neutrophil migration and aggregation induced by euphorbin, a lectin from the latex of Euphorbia milii, var. milii. Inflammation Research, 2000, 49, 732-736.	4.0	16
46	IFNâ€Î³â€mediated efficacy of allergenâ€free immunotherapy using mycobacterial antigens and CpGâ€ODN. Immunology and Cell Biology, 2011, 89, 777-785.	2.3	16
47	Antibodies against Mucinâ€Based Glycopeptides Affect Trypanosoma cruzi Cell Invasion and Tumor Cell Viability. ChemBioChem, 2014, 15, 1495-1507.	2.6	16
48	Binding of triazole-linked galactosyl arylsulfonamides to galectin-3 affects Trypanosoma cruzi cell invasion. Bioorganic and Medicinal Chemistry, 2017, 25, 6049-6059.	3.0	16
49	Galectin-1 modulation of neutrophil reactive oxygen species production depends on the cell activation state. Molecular Immunology, 2019, 116, 80-89.	2.2	16
50	COVID-19: Integrating the Complexity of Systemic and Pulmonary Immunopathology to Identify Biomarkers for Different Outcomes. Frontiers in Immunology, 2020, 11, 599736.	4.8	16
51	Full-length model of the human galectin-4 and insights into dynamics of inter-domain communication. Scientific Reports, 2016, 6, 33633.	3.3	15
52	Biological characterization of purified macrophage-derived neutrophil chemotactic factor. Mediators of Inflammation, 1995, 4, 263-269.	3.0	14
53	The binding of CCL2 to the surface of Trypanosoma cruzi induces chemo-attraction and morphogenesis. Microbes and Infection, 2007, 9, 111-118.	1.9	13
54	Antithrombotic activity of Batroxase, a metalloprotease from Bothrops atrox venom, in a model of venous thrombosis. International Journal of Biological Macromolecules, 2017, 95, 263-267.	7.5	13

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55	Virulence attributes and genetic variability of oral Candida albicans and Candida tropicalis isolates. Mycoses, 2012, 55, e97-e105.	4.0	12
56	Leishmanicidal Effects of Piperlongumine (Piplartine) and Its Putative Metabolites. Planta Medica, 2018, 84, 1141-1148.	1.3	12
57	Galectin-3 aggravates experimental polymicrobial sepsis by impairing neutrophil recruitment to the infectious focus. Journal of Infection, 2018, 77, 391-397.	3.3	12
58	Early dystrophin loss is coincident with the transition of compensated cardiac hypertrophy to heart failure. PLoS ONE, 2017, 12, e0189469.	2.5	11
59	Isolation and partial chemical characterization of macrophage-derived neutrophil chemotactic factor. Mediators of Inflammation, 1995, 4, 257-262.	3.0	10
60	Disodium cromoglycate prevents ileum hyperreactivity to histamine in Toxocara canis-infected guinea pigs. Pharmacological Research, 2003, 48, 451-455.	7.1	10
61	A Synthetic MUC1 Glycopeptide Bearing Î²GalNAcâ€Thr as a Tn Antigen Isomer Induces the Production of Antibodies against Tumor Cells. ChemBioChem, 2017, 18, 527-538.	2.6	10
62	An intravascular chemoattractant lectin inhibits neutrophil migration. Glycoconjugate Journal, 1998, 15, 527-529.	2.7	8
63	Neutrophil haptotaxis induced by mouse MNCF: interactions with extracellular matrix glycoproteins probably contribute to overcoming the anti-inflammatory action of dexamethasone. Inflammation Research, 2007, 56, 368-376.	4.0	8
64	Expression of human protein S100A7 (psoriasin), preparation of antibody and application to human larynx squamous cell carcinoma. BMC Research Notes, 2011, 4, 494.	1.4	8
65	Discovering Selected Antibodies From Deep-Sequenced Phage-Display Antibody Library Using ATTILA. Bioinformatics and Biology Insights, 2020, 14, 117793222091524.	2.0	8
66	Detection of Phosphatidylserine Exposure on Leukocytes Following Treatment with Human Galectins. Methods in Molecular Biology, 2015, 1207, 185-200.	0.9	8
67	Innate immune Galectin-7 specifically targets microbes that decorate themselves in blood group-like antigens. IScience, 2022, 25, 104482.	4.1	8
68	Sm60, a mannose-binding protein from Schistosoma mansoni with inflammatory property. International Journal for Parasitology, 2002, 32, 1747-1754.	3.1	7
69	Protective Effect of Galectin-1 duringHistoplasma capsulatumInfection Is Associated with Prostaglandin E₂and Nitric Oxide Modulation. Mediators of Inflammation, 2016, 2016, 1-13.	3.0	7
70	Impaired emotional response to stress in mice lacking galectin-1 or galectin-3. Physiology and Behavior, 2020, 220, 112862.	2.1	7
71	Isolation and partial characterization of 3 nontoxic <scp>d</scp>â€galactoseâ€“specific isolectins from seeds of <scp>Momordica balsamina</scp>. Journal of Molecular Recognition, 2017, 30, e2582.	2.1	6
72	Endogenous galectin-3 is required for skeletal muscle repair. Glycobiology, 2021, 31, 1295-1307.	2.5	6

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73	Macrophage-derived neutrophil chemotactic factor is involved in the neutrophil recruitment inhibitory activity present in the supernatants of LPS-stimulated macrophages. Mediators of Inflammation, 1996, 5, 116-120.	3.0	5
74	Recombinant expression, purification and preliminary biophysical and structural studies of C-terminal carbohydrate recognition domain from human galectin-4. Protein Expression and Purification, 2016, 118, 39-48.	1.3	5
75	Examination of Galectin Localization Using Confocal Microscopy. Methods in Molecular Biology, 2015, 1207, 343-354.	0.9	5
76	Examining Galectin Binding Specificity Using Glycan Microarrays. Methods in Molecular Biology, 2022, 2442, 151-168.	0.9	5
77	Application of the Negishi Reaction in the Synthesis of Thiophene-Based Lignans Analogues with Leishmanicidal Effects. Journal of the Brazilian Chemical Society, 2014, , .	0.6	4
78	Synthesis of novel triazole-derived glycopeptides as analogs of Î±-dystroglycan mucins. Carbohydrate Research, 2019, 472, 23-32.	2.3	4
79	Multifaceted antibodies development against synthetic Î±-dystroglycan mucin glycopeptide as promising tools for dystroglycanopathies diagnostic. Glycoconjugate Journal, 2020, 37, 77-93.	2.7	4
80	Evaluation of the Bactericidal Activity of Galectins. Methods in Molecular Biology, 2022, 2442, 517-531.	0.9	4
81	Ultrasonically nebulized distilled water prevents exogenous histamine hyperreactivity in Toxocara canis-infected mice. Inflammation Research, 2005, 54, 243-248.	4.0	3
82	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of the N-terminal carbohydrate-recognition domain of human galectin-4. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 542-545.	0.7	3
83	A soluble recombinant form of human leucocyte antigen-G 6 (srHLA-G6). Biochemical and Biophysical Research Communications, 2017, 487, 28-33.	2.1	3
84	Galactosyl and sialyl clusters: synthesis and evaluation against T. cruzi parasite. Pure and Applied Chemistry, 2019, 91, 1191-1207.	1.9	3
85	Engineering of galectin-3 for glycan-binding optical imaging. Biochemical and Biophysical Research Communications, 2020, 521, 674-680.	2.1	3
86	Different expression patterns ofLGALS1andLGALS3in polycythemia vera, essential thrombocythemia and primary myelofibrosis. Journal of Clinical Pathology, 2016, 69, 926-929.	2.0	2
87	rBaltMIP, a recombinant alpha-type myotoxin inhibitor from Bothrops alternatus (Rhinocerophis) Tj ETQq1 1 0.784314 rgBT /Overlock 1 53-62.	1.6	2
88	MG-Pe: A Novel Galectin-3 Ligand with Antimelanoma Properties and Adjuvant Effects to Dacarbazine. International Journal of Molecular Sciences, 2022, 23, 7635.	4.1	2
89	Characterization of the mechanisms underlying the crosstalk between galectins and notch in gastric cancer. BMC Proceedings, 2013, 7, .	1.6	0
90	AVALIAÃ‡ÃƒO DO POLIMORFISMO DO GENE +874A/T DA CITOCINA INTERFERON GAMA (IFN-?) EM PESSOAS QUE VIVEM COM HIV. , 2020, , .		0

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91	Functional evaluation of immunoregulatory molecules HLA-G, galectin-1, and IL-10 in people living with HIV. Medicine (United States), 2022, 101, e28489.	1.0	0
92	Investigation of in Frozen Tissue and Mammalian Cell Culture Using Confocal Miccroscopy. Methods in Molecular Biology, 2022, 2442, 289-306.	0.9	0
93	Detection of Reactive Oxygen Species in Human Neutrophils Under Various Conditions of Exposure to Galectin. Methods in Molecular Biology, 2022, 2442, 549-564.	0.9	0
94	Detection of Phosphatidylserine Exposure on Leukocytes Following Treatment with Human Galectins. Methods in Molecular Biology, 2022, 2442, 533-548.	0.9	0
95	Molecular Imaging for In Vivo Tracking and Detection of Galectin Binding Partners. Methods in Molecular Biology, 2022, 2442, 339-352.	0.9	0