

Mauro Sergio Goncalves Pavao

List of Publications by Year in descending order

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78
papers

3,456
citations

136950

32
h-index

144013

57
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80
all docs

80
docs citations

80
times ranked

3868
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycosaminoglycans: key players in cancer cell biology and treatment. <i>FEBS Journal</i> , 2012, 279, 1177-1197.	4.7	447
2	Structure and Anticoagulant Activity of a Fucosylated Chondroitin Sulfate from Echinoderm. <i>Journal of Biological Chemistry</i> , 1996, 271, 23973-23984.	3.4	278
3	Highly Sulfated Dermatan Sulfates from Ascidians. <i>Journal of Biological Chemistry</i> , 1998, 273, 27848-27857.	3.4	167
4	Selectin Blocking Activity of a Fucosylated Chondroitin Sulfate Glycosaminoglycan from Sea Cucumber. <i>Journal of Biological Chemistry</i> , 2007, 282, 14984-14991.	3.4	167
5	Extracellular Galectin-3 in Tumor Progression and Metastasis. <i>Frontiers in Oncology</i> , 2014, 4, 138.	2.8	149
6	Oversulfated Dermatan Sulfate Exhibits Neurite Outgrowth-promoting Activity toward Embryonic Mouse Hippocampal Neurons. <i>Journal of Biological Chemistry</i> , 2003, 278, 43744-43754.	3.4	120
7	A Unique Dermatan Sulfate-like Glycosaminoglycan from Ascidian. <i>Journal of Biological Chemistry</i> , 1995, 270, 31027-31036.	3.4	116
8	Selective cleavage and anticoagulant activity of a sulfated fucan: stereospecific removal of a 2-sulfate ester from the polysaccharide by mild acid hydrolysis, preparation of oligosaccharides, and heparin cofactor II-dependent anticoagulant activity. <i>Glycobiology</i> , 2005, 15, 369-381.	2.5	109
9	Emerging aspects of nanotoxicology in health and disease: From agriculture and food sector to cancer therapeutics. <i>Food and Chemical Toxicology</i> , 2016, 91, 42-57.	3.6	107
10	Syndecan-1 modulates integrin-dependent and interleukin-6-dependent functions in breast cancer cell adhesion, migration, and resistance to irradiation. <i>FEBS Journal</i> , 2013, 280, 2216-2227.	4.7	94
11	Interactions of Hepatocyte Growth Factor/Scatter Factor with Various Glycosaminoglycans Reveal an Important Interplay between the Presence of Iduronate and Sulfate Density. <i>Journal of Biological Chemistry</i> , 2008, 283, 5235-5248.	3.4	80
12	Ascidian dermatan sulfates attenuate metastasis, inflammation and thrombosis by inhibition of P-selectin. <i>Journal of Thrombosis and Haemostasis</i> , 2011, 9, 1807-1815.	3.8	73
13	Occurrence of Heparin in the Invertebrate <i>Styela plicata</i> (Tunicata) Is Restricted to Cell Layers Facing the Outside Environment. <i>Journal of Biological Chemistry</i> , 2000, 275, 36189-36196.	3.4	65
14	Unique Extracellular Matrix Heparan Sulfate from the Bivalve <i>Nodipecten nodosus</i> (Linnaeus, 1758) Safely Inhibits Arterial Thrombosis after Photochemically Induced Endothelial Lesion. <i>Journal of Biological Chemistry</i> , 2010, 285, 7312-7323.	3.4	60
15	Colocalization of heparin and histamine in the intracellular granules of test cells from the invertebrate <i>Styela plicata</i> (Chordata-Tunicata). <i>Journal of Structural Biology</i> , 2002, 137, 313-321.	2.8	59
16	Antithrombotic activity of dermatan sulfate in heparin cofactor II-deficient mice. <i>Blood</i> , 2004, 104, 3965-3970.	1.4	59
17	HS3ST2 modulates breast cancer cell invasiveness via MAP kinase and Tcf4 (Tcf7l2)-dependent regulation of protease and cadherin expression. <i>International Journal of Cancer</i> , 2014, 135, 2579-2592.	5.1	58
18	Glycosaminoglycans analogs from marine invertebrates: structure, biological effects, and potential as new therapeutics. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 123.	3.9	51

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19	Antitumor properties of a new non-anticoagulant heparin analog from the mollusk <i>Nodipecten nodosus</i> : Effect on P-selectin, heparanase, metastasis and cellular recruitment. <i>Glycobiology</i> , 2015, 25, 386-393.	2.5	50
20	The medicinal plant <i>Porana volubilis</i> contains polysaccharides with anticoagulant activity mediated by heparin cofactor II. <i>Thrombosis Research</i> , 2002, 106, 51-58.	1.7	48
21	Unfractionated Heparin and New Heparin Analogues from Ascidians (Chordata-Tunicata) Ameliorate Colitis in Rats. <i>Journal of Biological Chemistry</i> , 2009, 284, 11267-11278.	3.4	47
22	A Functional Dermatan Sulfate Epitope Containing Iduronate(2-O-sulfate) and 3GalNAc(6-O-sulfate) Disaccharide in the Mouse Brain. <i>Journal of Biological Chemistry</i> , 2005, 280, 23184-23193.	3.4	45
23	Heparan Sulfate and Heparanase as Modulators of Breast Cancer Progression. <i>BioMed Research International</i> , 2013, 2013, 1-11.	1.9	45
24	The Hemolymph of the Ascidian <i>Styela plicata</i> (Chordata-Tunicata) Contains Heparin inside Basophil-like Cells and a Unique Sulfated Galactoglucan in the Plasma. <i>Journal of Biological Chemistry</i> , 2007, 282, 1615-1626.	3.4	42
25	Isolation and characterization of a heparin with low antithrombin activity from the body of <i>Styela plicata</i> (Chordata-Tunicata). Distinct effects on venous and arterial models of thrombosis. <i>Thrombosis Research</i> , 2007, 121, 213-223.	1.7	41
26	Structure of a unique sulfated β -l-galactofucan from the tunicate <i>Clavelina</i> . <i>Carbohydrate Research</i> , 1990, 208, 153-161.	2.3	37
27	Structural studies of a sulfated l-galactan from <i>Styela plicata</i> (Tunicata): analysis of the Smith-degraded polysaccharide. <i>Carbohydrate Research</i> , 1990, 208, 163-174.	2.3	37
28	Thyroid hormone treated astrocytes induce maturation of cerebral cortical neurons through modulation of proteoglycan levels. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 125.	3.7	37
29	Biochemical and immunohistochemical analysis of glycosaminoglycans in inflamed and non-inflamed intestinal mucosa of patients with Crohn's disease. <i>International Journal of Colorectal Disease</i> , 2005, 20, 295-304.	2.2	35
30	Heparan Sulfate Proteoglycans May Promote or Inhibit Cancer Progression by Interacting with Integrins and Affecting Cell Migration. <i>BioMed Research International</i> , 2015, 2015, 1-8.	1.9	34
31	Hepatocyte growth factor/scatter factor and its interaction with heparan sulphate and dermatan sulphate. <i>Biochemical Society Transactions</i> , 2003, 31, 352-353.	3.4	33
32	Effects of low molecular weight heparin in obstructed kidneys: decrease of collagen, fibronectin and TGF- β 2, and increase of chondroitin/dermatan sulfate proteoglycans and macrophage infiltration. <i>Nephrology Dialysis Transplantation</i> , 2006, 21, 1212-1222.	0.7	33
33	Fucosylated chondroitin sulfate attenuates renal fibrosis in animals submitted to unilateral ureteral obstruction: a P-selectin-mediated event?. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, F1299-F1307.	2.7	33
34	Metal ions and the extracellular matrix in tumor migration. <i>FEBS Journal</i> , 2019, 286, 2950-2964.	4.7	32
35	Anticoagulant sulfated glycosaminoglycans in the tissues of the primitive chordate <i>Styela plicata</i> (Tunicata). <i>Glycobiology</i> , 2000, 10, 1333-1340.	2.5	31
36	Acidic polysaccharides of the ascidian <i>Styela plicata</i> . Biosynthetic studies on the sulfated l-galactans of the tunic, and preliminary characterization of a dermatan sulfate-like polymer in body tissues. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1199, 229-237.	2.4	28

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37	Fucosylated Chondroitin Sulfate Inhibits Plasmodium falciparum Cytoadhesion and Merozoite Invasion. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 1862-1871.	3.2	28
38	Chondroitin sulfate and keratan sulfate are the major glycosaminoglycans present in the adult zebrafish <i>Danio rerio</i> (Chordata-Cyprinidae). <i>Glycoconjugate Journal</i> , 2007, 24, 521-530.	2.7	25
39	l-Galactose in sulfated polysaccharides from tunicates. <i>Carbohydrate Research</i> , 1989, 189, 374-379.	2.3	24
40	Selection and characterization of a unique phage display-derived antibody against dermatan sulfate. <i>Matrix Biology</i> , 2006, 25, 457-461.	3.6	24
41	Mammary Branching Morphogenesis Requires Reciprocal Signaling by Heparanase and MMP-14. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 1668-1679.	2.6	24
42	Nitric oxide production by hemocytes of the ascidian <i>Styela plicata</i> . <i>Cell and Tissue Research</i> , 2009, 338, 117-128.	2.9	23
43	Structure and anticoagulant properties of sulfated glycosaminoglycans from primitive Chordates. <i>Anais Da Academia Brasileira De Ciencias</i> , 2002, 74, 105-112.	0.8	22
44	Biosynthesis of Chondroitin Sulfate: From the Early, Precursor Discoveries to Nowadays, Genetics Approaches. <i>Advances in Pharmacology</i> , 2006, 53, 117-140.	2.0	22
45	Effect of sulfated glycosaminoglycans on tumor invasion and metastasis. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 1541.	2.1	20
46	Biochemical and toxicological evaluation of nano-heparins in cell functional properties, proteasome activation and expression of key matrix molecules. <i>Toxicology Letters</i> , 2016, 240, 32-42.	0.8	20
47	The Heparan Sulfate Sulfotransferases HS2ST1 and HS3ST2 Are Novel Regulators of Breast Cancer Stem-Cell Properties. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 559554.	3.7	20
48	HS2ST1-dependent signaling pathways determine breast cancer cell viability, matrix interactions, and invasive behavior. <i>Cancer Science</i> , 2020, 111, 2907-2922.	3.9	19
49	Chondroitin ABC lyase digestion of an ascidian dermatan sulfate. Occurrence of unusual 6-O-sulfo-2-acetamido-2-deoxy-3-O-(2-O-sulfo- β -l-idopyranosyluronic acid)- β -d-galactose units. <i>Carbohydrate Research</i> , 1997, 300, 315-321.	2.3	17
50	Biosynthesis and metabolism of sulfated glycosaminoglycans during <i>Drosophila melanogaster</i> development. <i>Glycobiology</i> , 2004, 14, 529-536.	2.5	17
51	Isolation and characterization of a highly sulfated heparan sulfate from ascidian test cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1428, 77-87.	2.4	15
52	In vivo antithrombotic properties of a heparin from the oocyte test cells of the sea squirt <i>Styela plicata</i> (Chordata-Tunicata). <i>Brazilian Journal of Medical and Biological Research</i> , 2006, 39, 1409-1415.	1.5	15
53	Heparanase expression and localization in different types of human lung cancer. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2599-2608.	2.4	14
54	Prognostic significance of hedgehog signaling network-related gene expression in breast cancer patients. <i>Journal of Cellular Biochemistry</i> , 2021, 122, 577-597.	2.6	14

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55	Ascidian (chordate-tunicate) and mammalian heparin enemas attenuate experimental diversion colitis. <i>Surgery</i> , 2014, 155, 217-227.	1.9	13
56	Structural analysis of a sulfated galactan from the tunic of the ascidian <i>Microcosmus exasperatus</i> and its inhibitory effect of the intrinsic coagulation pathway. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1391-1400.	7.5	13
57	Dermatan sulfate in tunicate phylogeny: Order-specific sulfation pattern and the effect of [â†’4IdoA(2-Sulfate)] ²⁻¹ â†’3GalNAc(4-Sulfate)] ²⁻¹ motifs in dermatan sulfate on heparin cofactor II activity. <i>BMC Biochemistry</i> , 2011, 12, 29.	4.4	12
58	Elemental biochemical analysis of the polysaccharides in the extracellular matrix of the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Basic Microbiology</i> , 2015, 55, 685-694.	3.3	12
59	Methodologies to generate, extract, purify and fractionate yeast ECM for analytical use in proteomics and glycomics. <i>BMC Microbiology</i> , 2014, 14, 244.	3.3	11
60	Biological function of unique sulfated glycosaminoglycans in primitive chordates. <i>Glycoconjugate Journal</i> , 2017, 34, 277-283.	2.7	11
61	Comparison between the sulfated polysaccharides from larval and adult ascidians. <i>The Journal of Experimental Zoology</i> , 1994, 269, 89-94.	1.4	10
62	Cellular Microenvironment in Human Pathologies. <i>BioMed Research International</i> , 2013, 2013, 1-2.	1.9	9
63	Sulfated fucans and a sulfated galactan from sea urchins as potent inhibitors of selectin-dependent hematogenous metastasis. <i>Glycobiology</i> , 2018, 28, 427-434.	2.5	9
64	Non-Anticoagulant Heparan Sulfate from the Ascidian <i>Phallusia nigra</i> Prevents Colon Carcinoma Metastasis in Mice by Disrupting Platelet-Tumor Cell Interaction. <i>Cancers</i> , 2020, 12, 1353.	3.7	8
65	A new heparan sulfate from the mollusk <i>Nodipecten nodosus</i> inhibits merozoite invasion and disrupts rosetting and cytoadherence of <i>Plasmodium falciparum</i> . <i>Memorias Do Instituto Oswaldo Cruz</i> , 2019, 114, e190088.	1.6	6
66	Methods for Isolation and Characterization of Sulfated Glycosaminoglycans from Marine Invertebrates. <i>Methods in Molecular Biology</i> , 2019, 1952, 55-70.	0.9	6
67	Structure and Biological Activities of Glycosaminoglycan Analogs from Marine Invertebrates: New Therapeutic Agents?. , 2011, , 159-184.		5
68	Collagen colocalizes with a protein containing a decorin-specific peptide in the tissues of the ascidian <i>Styela plicata</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2006, 144, 215-222.	1.6	4
69	Tunicate Heparan Sulfate Enriched in 2-Sulfated β -Glucuronic Acid: Structure, Anticoagulant Activity, and Inhibitory Effect on the Binding of Human Colon Adenocarcinoma Cells to Immobilized P-Selectin. <i>Marine Drugs</i> , 2019, 17, 351.	4.6	4
70	<i>Vatairea guianensis</i> lectin stimulates changes in gene expression and release of TNF α from rat peritoneal macrophages via glycoconjugate binding. <i>Journal of Molecular Recognition</i> , 2021, 34, e2922.	2.1	3
71	Ascidian (Chordata-Tunicata) Glycosaminoglycans: Extraction, Purification, Biochemical, and Spectroscopic Analysis. <i>Methods in Molecular Biology</i> , 2015, 1229, 79-94.	0.9	3
72	Manganese systemic distribution is modulated in vivo during tumor progression and affects tumor cell migration and invasion in vitro. <i>Scientific Reports</i> , 2021, 11, 15833.	3.3	2

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73	Bioactive Compounds from Pale Ale Beer Powder Attenuate Experimental Colitis in BALB/c Mice. <i>Molecules</i> , 2022, 27, 1194.	3.8	2
74	Correction: Dermatan sulfate in tunicate phylogeny: Order-specific sulfation pattern and the effect of [4-IdoA(2-Sulfate)-1,3-GalNAc(4-Sulfate)] motifs in dermatan sulfate on heparin cofactor II activity. <i>BMC Biochemistry</i> , 2011, 12, 37.	4.4	1
75	Molecular recognition and modulation of hepatocyte growth factor activity by heparan and dermatan sulfates. <i>International Journal of Experimental Pathology</i> , 2004, 85, A58-A58.	1.3	0
76	Effect of sulfated glycosaminoglycans on tumor invasion and metastasis. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 1541-1551.	2.1	0
77	8.4 Targeting protein-glycan interactions at cell surface during EMT and hematogenous metastasis: consequences on tumor invasion and metastasis. , 2012, , 763-784.		0
78	Ascidian (Chordata-Tunicata) Glycosaminoglycans: Extraction, Purification, Biochemical, and Spectroscopic Analysis. <i>Methods in Molecular Biology</i> , 2022, 2303, 93-109.	0.9	0