

Helena Nader

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6017583/publications.pdf>

Version: 2024-02-01

301
papers

8,209
citations

38660

50
h-index

85405

71
g-index

307
all docs

307
docs citations

307
times ranked

8730
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Heparan sulfate and heparin interactions with proteins. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150589. | 1.5 | 229 |
| 2 | Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1700-1715. | 1.8 | 228 |
| 3 | Heparan sulfate proteoglycans: structure, protein interactions and cell signaling. <i>Anais Da Academia Brasileira De Ciencias</i> , 2009, 81, 409-429. | 0.3 | 201 |
| 4 | Cathepsin B Activity Regulation. <i>Journal of Biological Chemistry</i> , 2001, 276, 944-951. | 1.6 | 169 |
| 5 | Structural and Hemostatic Activities of a Sulfated Galactofucan from the Brown Alga <i>Spatoglossum schroederi</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 41278-41288. | 1.6 | 133 |
| 6 | Recovery of protein, chitin, carotenoids and glycosaminoglycans from Pacific white shrimp (<i>Litopenaeus vannamei</i>) processing waste. <i>Process Biochemistry</i> , 2012, 47, 570-577. | 1.8 | 133 |
| 7 | Distribution of sulfated glycosaminoglycans in the animal kingdom: widespread occurrence of heparin-like compounds in invertebrates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000, 1475, 287-294. | 1.1 | 124 |
| 8 | Brown spider dermonecrotic toxin directly induces nephrotoxicity. <i>Toxicology and Applied Pharmacology</i> , 2006, 211, 64-77. | 1.3 | 116 |
| 9 | Heparin stimulates the synthesis and modifies the sulfation pattern of heparan sulfate proteoglycan from endothelial cells. <i>Journal of Cellular Physiology</i> , 1989, 140, 305-310. | 2.0 | 107 |
| 10 | Structural differences of heparan sulfates according to the tissue and species of origin. <i>Biochemical and Biophysical Research Communications</i> , 1983, 111, 865-871. | 1.0 | 106 |
| 11 | Identification, cloning, expression and functional characterization of an astacin-like metalloprotease toxin from <i>Loxosceles intermedia</i> (brown spider) venom. <i>Biochemical Journal</i> , 2007, 406, 355-363. | 1.7 | 102 |
| 12 | A preponderantly 4-sulfated, 3-linked galactan from the green alga <i>Codium isthmocladum</i> . <i>Glycobiology</i> , 2007, 18, 250-259. | 1.3 | 98 |
| 13 | Crotamine Mediates Gene Delivery into Cells through the Binding to Heparan Sulfate Proteoglycans. <i>Journal of Biological Chemistry</i> , 2007, 282, 21349-21360. | 1.6 | 97 |
| 14 | A novel expression profile of the <i>Loxosceles intermedia</i> spider venomous gland revealed by transcriptome analysis. <i>Molecular BioSystems</i> , 2010, 6, 2403. | 2.9 | 95 |
| 15 | Transport of UDP-Galactose into the Golgi Lumen Regulates the Biosynthesis of Proteoglycans. <i>Journal of Biological Chemistry</i> , 1996, 271, 3897-3901. | 1.6 | 92 |
| 16 | Identification of proteases in the extract of venom glands from brown spiders. <i>Toxicon</i> , 2002, 40, 815-822. | 0.8 | 90 |
| 17 | Structure and pharmacological activities of a sulfated xylofucoglucuronan from the alga <i>Spatoglossum schroederi</i> . <i>Plant Science</i> , 1998, 132, 215-228. | 1.7 | 85 |
| 18 | Heparins and Heparinoids: Occurrence, Structure and Mechanism of Antithrombotic and Hemorrhagic Activities. <i>Current Pharmaceutical Design</i> , 2004, 10, 951-966. | 0.9 | 85 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Molecular cloning and functional characterization of two isoforms of dermonecrotic toxin from <i>Loxosceles intermedia</i> (Brown spider) venom gland. <i>Biochimie</i> , 2006, 88, 1241-1253. | 1.3 | 84 |
| 20 | Heparin fractionation by electrofocusing: Presence of 21 components of different molecular weights. <i>Biochemical and Biophysical Research Communications</i> , 1974, 57, 488-493. | 1.0 | 83 |
| 21 | Practical determination of hyaluronan by a new noncompetitive fluorescence-based assay on serum of normal and cirrhotic patients. <i>Analytical Biochemistry</i> , 2003, 319, 65-72. | 1.1 | 81 |
| 22 | Cytotoxic effects of crostamine are mediated through lysosomal membrane permeabilization. <i>Toxicon</i> , 2008, 52, 508-517. | 0.8 | 81 |
| 23 | Growth inhibition and pro-apoptotic activity of violacein in Ehrlich ascites tumor. <i>Chemico-Biological Interactions</i> , 2010, 186, 43-52. | 1.7 | 74 |
| 24 | Lumican expression, localization and antitumor activity in prostate cancer. <i>Experimental Cell Research</i> , 2013, 319, 967-981. | 1.2 | 70 |
| 25 | Two novel dermonecrotic toxins LiRecDT4 and LiRecDT5 from Brown spider (<i>Loxosceles intermedia</i>) venom: From cloning to functional characterization. <i>Biochimie</i> , 2007, 89, 289-300. | 1.3 | 69 |
| 26 | Identification, cloning and functional characterization of a novel dermonecrotic toxin (phospholipase D) from brown spider (<i>Loxosceles intermedia</i>) venom. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 167-178. | 1.1 | 66 |
| 27 | Electrofocusing of heparin: Fractionation of heparin into 21 components distinguishable from other acidic mucopolysaccharides. <i>Biopolymers</i> , 1975, 14, 1473-1486. | 1.2 | 65 |
| 28 | Immunofluorescence Confocal Microscopy of Porcine Corneas Following Collagen Cross-linking Treatment With Riboflavin and Ultraviolet A. <i>Journal of Refractive Surgery</i> , 2008, 24, S715-9. | 1.1 | 65 |
| 29 | Hyaluronidases in <i>Loxosceles intermedia</i> (Brown spider) venom are endo- ¹² -N-acetyl-d-hexosaminidases hydrolases. <i>Toxicon</i> , 2007, 49, 758-768. | 0.8 | 63 |
| 30 | Anti-inflammatory properties of a heparin-like glycosaminoglycan with reduced anti-coagulant activity isolated from a marine shrimp. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9588-9595. | 1.4 | 62 |
| 31 | The Natural Cell-Penetrating Peptide Crostamine Targets Tumor Tissue <i>in Vivo</i> and Triggers a Lethal Calcium-Dependent Pathway in Cultured Cells. <i>Molecular Pharmaceutics</i> , 2012, 9, 211-221. | 2.3 | 62 |
| 32 | Melanocyte Transformation Associated with Substrate Adhesion Impediment. <i>Neoplasia</i> , 2006, 8, 231-241. | 2.3 | 61 |
| 33 | Noninvasive serum markers in the diagnosis of structural liver damage in chronic hepatitis C virus infection. <i>Liver International</i> , 2006, 26, 1095-1099. | 1.9 | 61 |
| 34 | A Novel Hyaluronidase from Brown Spider (<i>Loxosceles intermedia</i>) Venom (Dietrich's Hyaluronidase): From Cloning to Functional Characterization. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2206. | 1.3 | 61 |
| 35 | Praziquantel and albendazole damaging action on <i>in vitro</i> developing <i>Mesocestoides corti</i> (Platyhelminthes: Cestoda). <i>Parasitology International</i> , 2006, 55, 51-61. | 0.6 | 60 |
| 36 | Fractionation and identification of heparin and other acidic mucopolysaccharides by a new discontinuous electrophoretic method. <i>Journal of Chromatography A</i> , 1980, 196, 455-462. | 1.8 | 57 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Identification of prolylcarboxypeptidase as the cell matrix-associated prekallikrein activator. <i>FEBS Letters</i> , 2002, 523, 167-170. | 1.3 | 57 |
| 38 | Influence of Protein Corona on the Transport of Molecules into Cells by Mesoporous Silica Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8387-8393. | 4.0 | 57 |
| 39 | In Vivo and In Vitro Cytotoxicity of Brown Spider Venom for Blood Vessel Endothelial Cells. <i>Thrombosis Research</i> , 2001, 102, 229-237. | 0.8 | 56 |
| 40 | Web-based learning in undergraduate medical education: development and assessment of an online course on experimental surgery. <i>International Journal of Medical Informatics</i> , 2004, 73, 731-742. | 1.6 | 55 |
| 41 | Colorectal cancer desmoplastic reaction up-regulates collagen synthesis and restricts cancer cell invasion. <i>Cell and Tissue Research</i> , 2011, 346, 223-236. | 1.5 | 55 |
| 42 | Biological and structural comparison of recombinant phospholipase D toxins from <i>Loxosceles intermedia</i> (brown spider) venom. <i>Toxicon</i> , 2007, 50, 1162-1174. | 0.8 | 54 |
| 43 | Effect of brown spider venom on basement membrane structures. <i>The Histochemical Journal</i> , 2000, 32, 397-408. | 0.6 | 53 |
| 44 | Human neutrophil migration in vitro induced by secretory phospholipases A2: a role for cell surface glycosaminoglycans ¹ Abbreviations: PLA2s, phospholipases A2; sPLA2, secretory PLA2; MEM, Eagle's Minimum Essential Medium; HPF, high-power field; LTB4, leukotriene B4; PAF, platelet-activating factor; and fMLP, N-formyl-methionyl-leucyl-phenylalanine.. <i>Biochemical Pharmacology</i> , 2002, 63, 65-72. | 2.0 | 53 |
| 45 | Fibroblast and prostate tumor cell cross-talk: Fibroblast differentiation, TGF- β ² , and extracellular matrix down-regulation. <i>Experimental Cell Research</i> , 2010, 316, 3207-3226. | 1.2 | 53 |
| 46 | Isolation and characterization of a heparin with high anticoagulant activity from <i>Anomalocardia brasiliensis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1985, 843, 1-7. | 1.1 | 52 |
| 47 | Cathepsin X binds to cell surface heparan sulfate proteoglycans. <i>Archives of Biochemistry and Biophysics</i> , 2005, 436, 323-332. | 1.4 | 52 |
| 48 | Retinyl palmitate flexible polymeric nanocapsules: Characterization and permeation studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 81, 374-380. | 2.5 | 52 |
| 49 | Phospholipase-D activity and inflammatory response induced by brown spider dermonecrotic toxin: Endothelial cell membrane phospholipids as targets for toxicity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 84-96. | 1.2 | 52 |
| 50 | A new approach for the characterization of polysaccharides from algae: presence of four main acidic polysaccharides in three species of the class Phaeophyceae. <i>Plant Science</i> , 1995, 108, 143-153. | 1.7 | 51 |
| 51 | Cysteine Proteinase Activity Regulation. <i>Journal of Biological Chemistry</i> , 1999, 274, 30433-30438. | 1.6 | 51 |
| 52 | Syndecan-4 contributes to endothelial tubulogenesis through interactions with two motifs inside the pro-angiogenic N-terminal domain of thrombospondin-1. <i>Journal of Cellular Physiology</i> , 2008, 214, 828-837. | 2.0 | 51 |
| 53 | Effect of corneal epithelium on ultraviolet-A and riboflavin absorption. <i>Arquivos Brasileiros De Oftalmologia</i> , 2011, 74, 348-351. | 0.2 | 51 |
| 54 | Determination of sulfate after chromatography and toluidine blue complex formation. <i>Analytical Biochemistry</i> , 1977, 78, 112-118. | 1.1 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Evaluation of Anti-Nociceptive and Anti-Inflammatory Activities of a Heterofucan from <i>Dictyota menstrualis</i> . <i>Marine Drugs</i> , 2013, 11, 2722-2740. | 2.2 | 48 |
| 56 | Antiangiogenic activity and direct antitumor effect from a sulfated polysaccharide isolated from seaweed. <i>Microvascular Research</i> , 2013, 88, 12-18. | 1.1 | 46 |
| 57 | Mitogenic activity of acidic fibroblast growth factor is enhanced by highly sulfated oligosaccharides derived from heparin and heparan sulfate. <i>Molecular and Cellular Biochemistry</i> , 1993, 124, 121-129. | 1.4 | 45 |
| 58 | Structural features and anticoagulant activities of a novel natural low molecular weight heparin from the shrimp <i>Penaeus brasiliensis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1428, 273-283. | 1.1 | 43 |
| 59 | Heparanase-2, syndecan-1, and extracellular matrix remodeling in colorectal carcinoma. <i>European Journal of Gastroenterology and Hepatology</i> , 2008, 20, 756-765. | 0.8 | 42 |
| 60 | Phosphoproteome reveals an atlas of protein signaling networks during osteoblast adhesion. <i>Journal of Cellular Biochemistry</i> , 2010, 109, 957-966. | 1.2 | 42 |
| 61 | Heparanase Expression in Circulating Lymphocytes of Breast Cancer Patients Depends on the Presence of the Primary Tumor and/or Systemic Metastasis. <i>Neoplasia</i> , 2007, 9, 504-510. | 2.3 | 41 |
| 62 | Evaluation of Chitosan-Based Films Containing Gelatin, Chondroitin 4-Sulfate and ZnO for Wound Healing. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 765-777. | 1.4 | 41 |
| 63 | Acquisition of anoikis resistance promotes alterations in the Ras/ERK and PI3K/Akt signaling pathways and matrix remodeling in endothelial cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2017, 22, 1116-1137. | 2.2 | 41 |
| 64 | A Non-Anticoagulant Heterofucan has Antithrombotic Activity <i>in vivo</i> . <i>Planta Medica</i> , 2008, 74, 712-718. | 0.7 | 39 |
| 65 | Dual Role of Intravitreal Infliximab in Experimental Choroidal Neovascularization: Effect on the Expression of Sulfated Glycosaminoglycans. , 2009, 50, 5487. | | 39 |
| 66 | Role of heparan sulphate proteoglycans as potential receptors for non-piliated <i>Pseudomonas aeruginosa</i> adherence to non-polarised airway epithelial cells. <i>Journal of Medical Microbiology</i> , 2001, 50, 183-190. | 0.7 | 38 |
| 67 | Post-translational Modifications of $\alpha_5\beta_1$ Integrin by Glycosaminoglycan Chains. <i>Journal of Biological Chemistry</i> , 1997, 272, 12529-12535. | 1.6 | 37 |
| 68 | Heparin in molluscs: chemical, enzymatic degradation and ^{13}C and ^1H n.m.r. spectroscopical evidence for the maintenance of the structure through evolution. <i>International Journal of Biological Macromolecules</i> , 1989, 11, 361-366. | 3.6 | 36 |
| 69 | Comparison of practical methods for urinary glycosaminoglycans and serum hyaluronan with clinical activity scores in patients with Graves' ophthalmopathy. <i>Clinical Endocrinology</i> , 2004, 60, 726-733. | 1.2 | 36 |
| 70 | Identification and partial characterisation of hyaluronidases in <i>Lonomia obliqua</i> venom. <i>Toxicon</i> , 2005, 45, 403-410. | 0.8 | 36 |
| 71 | <i>Enterolobium contortisiliquum</i> Trypsin Inhibitor (EcTI), a Plant Proteinase Inhibitor, Decreases <i>In Vitro</i> Cell Adhesion and Invasion by Inhibition of Src Protein-Focal Adhesion Kinase (FAK) Signaling Pathways*. <i>Journal of Biological Chemistry</i> , 2012, 287, 170-182. | 1.6 | 36 |
| 72 | Absence of heparin or heparine-like compounds in mast-cell-free tissues and animals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982, 717, 478-485. | 1.1 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Fucan Inhibits Chinese Hamster Ovary Cell (CHO) Adhesion to Fibronectin by Binding to the Extracellular Matrix. <i>Planta Medica</i> , 2005, 71, 628-633. | 0.7 | 35 |
| 74 | Growth inhibitory activity of a novel lectin from <i>Cliona varians</i> against K562 human erythroleukemia cells. <i>Cancer Chemotherapy and Pharmacology</i> , 2009, 63, 1023-1033. | 1.1 | 35 |
| 75 | Cell-Permeable Gomesin Peptide Promotes Cell Death by Intracellular Ca ²⁺ Overload. <i>Molecular Pharmaceutics</i> , 2012, 9, 2686-2697. | 2.3 | 35 |
| 76 | Hyaluronic acid concentration in postmenopausal facial skin after topical estradiol and genistein treatment. <i>Menopause</i> , 2013, 20, 336-341. | 0.8 | 35 |
| 77 | Selective distribution of the heparin in mammals conspicuous presence of heparin in lymphoid tissues. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1980, 627, 40-48. | 1.1 | 34 |
| 78 | Influence of sulfated polysaccharides from <i>Ulva lactuca</i> L. upon Xa and IIa coagulation factors and on venous blood clot formation. <i>Algal Research</i> , 2020, 45, 101750. | 2.4 | 34 |
| 79 | Excretion of chondroitin sulfate C with low sulfate content by patients with generalized platyspondyly (brachyolmia). <i>Biochemical Medicine</i> , 1973, 7, 415-423. | 0.5 | 33 |
| 80 | Heterogeneity of heparin: characterization of one hundred components with different anticoagulant activities by a combination of electrophoretic and affinity chromatography methods. <i>International Journal of Biological Macromolecules</i> , 1981, 3, 356-360. | 3.6 | 33 |
| 81 | Glycosaminoglycans affect the action of human plasma kallikrein on kininogen hydrolysis and inflammation. <i>International Immunopharmacology</i> , 2002, 2, 1861-1865. | 1.7 | 33 |
| 82 | Effect of Collagen Cross-linking in Stromal Fibril Organization in Edematous Human Corneas. <i>Cornea</i> , 2010, 29, 789-793. | 0.9 | 33 |
| 83 | Syndecan-2 is upregulated in colorectal cancer cells through interactions with extracellular matrix produced by stromal fibroblasts. <i>BMC Cell Biology</i> , 2013, 14, 25. | 3.0 | 33 |
| 84 | A non-hemorrhagic hybrid heparin/heparan sulfate with anticoagulant potential. <i>Carbohydrate Polymers</i> , 2014, 99, 372-378. | 5.1 | 33 |
| 85 | Oligosaccharide residues of <i>Loxosceles intermedia</i> (brown spider) venom proteins: dependence on glycosylation for dermonecrotic activity. <i>Toxicon</i> , 1999, 37, 587-607. | 0.8 | 31 |
| 86 | Glycosaminoglycan profile in bladder and urethra of castrated rats treated with estrogen, progesterone, and raloxifene. <i>American Journal of Obstetrics and Gynecology</i> , 2003, 189, 1654-1659. | 0.7 | 31 |
| 87 | The effect of brown spider venom on endothelial cell morphology and adhesive structures. <i>Toxicon</i> , 2006, 47, 844-853. | 0.8 | 31 |
| 88 | The Identification of Proteoglycans and Glycosaminoglycans in Archaeological Human Bones and Teeth. <i>PLoS ONE</i> , 2015, 10, e0131105. | 1.1 | 31 |
| 89 | A novel heparan sulphate with high degree of N-sulphation and high heparin cofactor-II activity from the brine shrimp <i>Artemia franciscana</i> . <i>International Journal of Biological Macromolecules</i> , 2000, 27, 49-57. | 3.6 | 30 |
| 90 | The Low Level Laser Therapy Effect on the Remodeling of Bone Extracellular Matrix. <i>Photochemistry and Photobiology</i> , 2012, 88, 1293-1301. | 1.3 | 30 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | A heparin-like glycosaminoglycan from shrimp containing high levels of 3-O-sulfated d-glucosamine groups in an unusual trisaccharide sequence. <i>Carbohydrate Research</i> , 2014, 390, 59-66. | 1.1 | 30 |
| 92 | Lumican Peptides: Rational Design Targeting ALK5/TGFBRI. <i>Scientific Reports</i> , 2017, 7, 42057. | 1.6 | 30 |
| 93 | Turnover, change of composition with rate of cell growth and effect of phenylxyloside on synthesis and structure of cell surface sulfated glycosaminoglycans of normal and transformed cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982, 717, 387-397. | 1.1 | 29 |
| 94 | New insights on the specificity of heparin and heparan sulfate lyases from <i>Flavobacterium heparinum</i> revealed by the use of synthetic derivatives of K5 polysaccharide from <i>E. coli</i> and 2-O-desulfated heparin. <i>Glycoconjugate Journal</i> , 1999, 16, 265-270. | 1.4 | 29 |
| 95 | Structural and inhibitory properties of a plant proteinase inhibitor containing the RGD motif. <i>International Journal of Biological Macromolecules</i> , 2006, 40, 22-29. | 3.6 | 29 |
| 96 | Urinary Hyaluronan as a Marker for the Presence of Residual Transitional Cell Carcinoma of the Urinary Bladder. <i>European Urology</i> , 2006, 49, 71-75. | 0.9 | 29 |
| 97 | Concentration and distribution of hyaluronic acid in mouse uterus throughout the estrous cycle. <i>Fertility and Sterility</i> , 2009, 92, 785-792. | 0.5 | 29 |
| 98 | Concentration of hyaluronic acid in primary open-angle glaucoma aqueous humor. <i>Experimental Eye Research</i> , 2005, 80, 853-857. | 1.2 | 27 |
| 99 | Adult bone marrow-derived mononuclear cells expressing chondroitinase AC transplanted into CNS injury sites promote local brain chondroitin sulphate degradation. <i>Journal of Neuroscience Methods</i> , 2008, 171, 19-29. | 1.3 | 27 |
| 100 | Inhibitory Peptides of the Sulfotransferase Domain of the Heparan Sulfate Enzyme, N-Deacetylase-N-sulfotransferase-1. <i>Journal of Biological Chemistry</i> , 2011, 286, 5338-5346. | 1.6 | 27 |
| 101 | A heparin-like compound isolated from a marine crab rich in glucuronic acid 2-O-sulfate presents low anticoagulant activity. <i>Carbohydrate Polymers</i> , 2013, 94, 647-654. | 5.1 | 27 |
| 102 | SULF2 overexpression positively regulates tumorigenicity of human prostate cancer cells. <i>Journal of Experimental and Clinical Cancer Research</i> , 2015, 34, 25. | 3.5 | 27 |
| 103 | Heparan Sulfate Proteoglycans in Human Colorectal Cancer. <i>Analytical Cellular Pathology</i> , 2018, 2018, 1-10. | 0.7 | 27 |
| 104 | Stimulation of heparan sulfate proteoglycan synthesis and secretion during G1 phase induced by growth factors and PMA. , 1998, 70, 563-572. | | 26 |
| 105 | Concentration and Distribution of Hyaluronic Acid in Human Vocal Folds. <i>Laryngoscope</i> , 2007, 117, 595-599. | 1.1 | 26 |
| 106 | Urinary Glycosaminoglycans as Biomarker for Urothelial Injury: Is It Possible to Discriminate Damage From Recovery?. <i>Urology</i> , 2008, 72, 937-942. | 0.5 | 26 |
| 107 | Participation of heparin binding proteins from the surface of <i>Leishmania (Viannia) braziliensis</i> promastigotes in the adhesion of parasites to <i>Lutzomyia longipalpis</i> cells (Lulo) in vitro. <i>Parasites and Vectors</i> , 2012, 5, 142. | 1.0 | 26 |
| 108 | The binding of heparin to the extracellular matrix of endothelial cells up-regulates the synthesis of an antithrombotic heparan sulfate proteoglycan. <i>Journal of Cellular Physiology</i> , 2008, 217, 328-337. | 2.0 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Heparin Induces Rat Aorta Relaxation via Integrin-Dependent Activation of Muscarinic M ₃ Receptors. <i>Hypertension</i> , 2010, 56, 713-721. | 1.3 | 25 |
| 110 | A New Approach for Heparin Standardization: Combination of Scanning UV Spectroscopy, Nuclear Magnetic Resonance and Principal Component Analysis. <i>PLoS ONE</i> , 2011, 6, e15970. | 1.1 | 25 |
| 111 | Appearance and fate of a β -galactanase, β -galactosidases, heparan sulfate and chondroitin sulfate degrading enzymes during embryonic development of the mollusc <i>Pomacea</i> sp. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1200, 241-248. | 1.1 | 24 |
| 112 | Antithrombin stabilisation by sulfated carbohydrates correlates with anticoagulant activity. <i>MedChemComm</i> , 2013, 4, 870. | 3.5 | 24 |
| 113 | Differentiation of Hunter's and Hurler's syndromes by the analysis of the excreted mucopolysaccharides. <i>Biochemical Medicine</i> , 1973, 8, 371-379. | 0.5 | 23 |
| 114 | Development of an enzyme-linked immunosorbent assay (ELISA)-like fluorescence assay to investigate the interactions of glycosaminoglycans to cells. <i>Analytica Chimica Acta</i> , 2008, 618, 218-226. | 2.6 | 23 |
| 115 | Urinary glycosaminoglycans excretion and the effect of dimethyl sulfoxide in an experimental model of non-bacterial cystitis. <i>International Braz J Urol: Official Journal of the Brazilian Society of Urology</i> , 2008, 34, 503-511. | 0.7 | 23 |
| 116 | High-sensitivity visualisation of contaminants in heparin samples by spectral filtering of ¹ H NMR spectra. <i>Analyst</i> , 2011, 136, 1390. | 1.7 | 23 |
| 117 | Heparan sulfate mediates trastuzumab effect in breast cancer cells. <i>BMC Cancer</i> , 2013, 13, 444. | 1.1 | 23 |
| 118 | Acquisition of Anoikis Resistance Up-Regulates Syndecan-4 Expression in Endothelial Cells. <i>PLoS ONE</i> , 2014, 9, e116001. | 1.1 | 23 |
| 119 | Pharmacological prospection and structural characterization of two purified sulfated and pyruvylated homogalactans from green algae <i>Codium isthmocladum</i> . <i>Carbohydrate Polymers</i> , 2019, 222, 115010. | 5.1 | 23 |
| 120 | Antithrombotic agents stimulate the synthesis and modify the sulfation pattern of a heparan sulfate proteoglycan from endothelial cells. <i>Thrombosis Research</i> , 1994, 74, 143-153. | 0.8 | 22 |
| 121 | A Xylogalactofucan from the Brown Seaweed <i>Spatoglossum schröderi</i> Stimulates the Synthesis of an Antithrombotic Heparan Sulfate from Endothelial Cells. <i>Planta Medica</i> , 2005, 71, 379-381. | 0.7 | 22 |
| 122 | Enhanced Tumorigenic Potential of Colorectal Cancer Cells by Extracellular Sulfatases. <i>Molecular Cancer Research</i> , 2015, 13, 510-523. | 1.5 | 22 |
| 123 | Clinical and laboratorial study of 19 cases of mucopolysaccharidoses. <i>Revista Do Hospital Das Clinicas</i> , 2000, 55, 213-218. | 0.5 | 21 |
| 124 | Chondroitin Sulfate Proteoglycans Are Structural Renewable Constituents of the Rabbit Vitreous Body. <i>Current Eye Research</i> , 2005, 30, 405-413. | 0.7 | 21 |
| 125 | Heparin modulation of human plasma kallikrein on different substrates and inhibitors. <i>Biological Chemistry</i> , 2006, 387, 1129-38. | 1.2 | 21 |
| 126 | A further unique chondroitin sulfate from the shrimp <i>Litopenaeus vannamei</i> with antithrombin activity that modulates acute inflammation. <i>Carbohydrate Polymers</i> , 2019, 222, 115031. | 5.1 | 21 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | The Profile of Heparanase Expression Distinguishes Differentiated Thyroid Carcinoma from Benign Neoplasms. <i>PLoS ONE</i> , 2015, 10, e0141139. | 1.1 | 21 |
| 128 | Maintenance of heparan sulfate structure throughout evolution: Chemical and enzymic degradation, and ¹³ C-n.m.r.-spectral evidence. <i>Carbohydrate Research</i> , 1988, 184, 292-300. | 1.1 | 20 |
| 129 | Heparin and a Cyclic Octaphenol-Octasulfonic Acid (GL-522-Y-1) Bind With High Affinity to a 47-kDa Protein From Vascular Endothelial Cell Surface and Stimulate the Synthesis and Structural Changes of Heparan Sulfate Proteoglycan. <i>Thrombosis Research</i> , 2001, 103, 35-45. | 0.8 | 20 |
| 130 | Heparin and Heparan Sulfate Disaccharides Bind to the Exchanger Inhibitor Peptide Region of Na ⁺ /Ca ²⁺ Exchanger and Reduce the Cytosolic Calcium of Smooth Muscle Cell Lines. <i>Journal of Biological Chemistry</i> , 2002, 277, 48227-48233. | 1.6 | 20 |
| 131 | Insights into the N-Sulfation Mechanism: Molecular Dynamics Simulations of the N-Sulfotransferase Domain of Ndst1 and Mutants. <i>PLoS ONE</i> , 2013, 8, e70880. | 1.1 | 19 |
| 132 | Expression and inactivation of osteopontin-degrading PHEX enzyme in squamous cell carcinoma. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 77, 155-164. | 1.2 | 19 |
| 133 | 2,3-Di-O-sulfo glucuronic acid: An unmodified and unusual residue in a highly sulfated chondroitin sulfate from <i>Litopenaeus vannamei</i> . <i>Carbohydrate Polymers</i> , 2018, 183, 192-200. | 5.1 | 19 |
| 134 | Role of chondroitin 4-sulphate as a receptor for polycation induced human platelet aggregation. <i>British Journal of Pharmacology</i> , 1996, 119, 1447-1453. | 2.7 | 18 |
| 135 | Ras gene mutation is not related to tumour invasion during rat tongue carcinogenesis induced by 4-nitroquinoline 1-oxide. <i>Journal of Oral Pathology and Medicine</i> , 2011, 40, 325-333. | 1.4 | 18 |
| 136 | Trisulfate Disaccharide Decreases Calcium Overload and Protects Liver Injury Secondary to Liver Ischemia/Reperfusion. <i>PLoS ONE</i> , 2016, 11, e0149630. | 1.1 | 18 |
| 137 | Ultrastructural cytochemical characterization of collagen-associated proteoglycans in the endometrium of mice. <i>The Anatomical Record</i> , 2000, 259, 413-423. | 2.3 | 17 |
| 138 | Patients with head and neck tumors excrete a chondroitin sulfate with a low degree of sulfation: A new tool for diagnosis and follow-up of cancer therapy. <i>Otolaryngology - Head and Neck Surgery</i> , 2000, 122, 115-118. | 1.1 | 17 |
| 139 | Differences in the expression of glycosaminoglycans in human fibroblasts derived from gingival overgrowths is related to TGF-beta up-regulation. <i>Growth Factors</i> , 2010, 28, 24-33. | 0.5 | 17 |
| 140 | <i>Lepstospira interrogans</i> shotgun phage display identified LigB as a heparin-binding protein. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 774-779. | 1.0 | 17 |
| 141 | The evaluation of endometrial sulfate glycosaminoglycans in women with polycystic ovary syndrome. <i>Gynecological Endocrinology</i> , 2015, 31, 278-281. | 0.7 | 17 |
| 142 | Heparan sulfate proteoglycans as targets for cancer therapy: a review. <i>Cancer Biology and Therapy</i> , 2020, 21, 1087-1094. | 1.5 | 17 |
| 143 | The lipid composition affects Trastuzumab adsorption at monolayers at the air-water interface. <i>Chemistry and Physics of Lipids</i> , 2020, 227, 104875. | 1.5 | 17 |
| 144 | Inhibition of synthesis of heparan sulfate by selenate: possible dependence on sulfation for chain polymerization. <i>FASEB Journal</i> , 1988, 2, 56-59. | 0.2 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | A robust method to quantify low molecular weight contaminants in heparin: detection of tris(2-n-butoxyethyl) phosphate. <i>Analyst</i> , The, 2011, 136, 2330. | 1.7 | 16 |
| 146 | Low molecular weight heparins: Structural differentiation by spectroscopic and multivariate approaches. <i>Carbohydrate Polymers</i> , 2011, 85, 903-909. | 5.1 | 16 |
| 147 | Development of new methods for determining the heparanase enzymatic activity. <i>Carbohydrate Research</i> , 2015, 412, 66-70. | 1.1 | 16 |
| 148 | DNA and bone structure preservation in medieval human skeletons. <i>Forensic Science International</i> , 2015, 251, 186-194. | 1.3 | 16 |
| 149 | Changes in human intervertebral disc biochemical composition and bony end plates between middle and old age. <i>PLoS ONE</i> , 2018, 13, e0203932. | 1.1 | 16 |
| 150 | MicroRNA-1252-5p Associated with Extracellular Vesicles Enhances Bortezomib Sensitivity in Multiple Myeloma Cells by Targeting Heparanase. <i>OncoTargets and Therapy</i> , 2021, Volume 14, 455-467. | 1.0 | 16 |
| 151 | A relationship between the inhibition of heparan sulfate and chondroitin sulfate synthesis and the inhibition of molting by selenate in the hemipteran <i>Rhodnius prolixus</i> . <i>Biochemical and Biophysical Research Communications</i> , 1987, 146, 652-658. | 1.0 | 15 |
| 152 | A novel approach for the characterisation of proteoglycans and biosynthetic enzymes in a snail model. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1862-1869. | 1.1 | 15 |
| 153 | Hyperprolactinemia changes the sulfated glycosaminoglycan amount on the murine uterus during the estrous cycle. <i>Fertility and Sterility</i> , 2013, 100, 1419-1427.e1. | 0.5 | 15 |
| 154 | Fucan effect on CHO cell proliferation and migration. <i>Carbohydrate Polymers</i> , 2013, 98, 224-232. | 5.1 | 15 |
| 155 | Heparan sulfate proteoglycans as trastuzumab targets in anoikis-resistant endothelial cells. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 13826-13840. | 1.2 | 15 |
| 156 | Genetic polymorphism in the sulfotransferase <i>SULT1A1</i> gene in cancer. <i>Cancer Genetics and Cytogenetics</i> , 2005, 160, 55-60. | 1.0 | 14 |
| 157 | Effects of shock wave therapy on glycosaminoglycan expression during bone healing. <i>International Journal of Surgery</i> , 2015, 24, 120-123. | 1.1 | 14 |
| 158 | Insights into the role of 3-O-sulfotransferase in heparan sulfate biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6792-6799. | 1.5 | 14 |
| 159 | New index for the diagnosis of liver fibrosis in <i>Schistosomiasis mansoni</i> . <i>Arquivos De Gastroenterologia</i> , 2017, 54, 51-56. | 0.3 | 14 |
| 160 | The heterogeneity of heparan sulfate from beef-lung tissue; p.m.r.-spectral evidence. <i>Carbohydrate Research</i> , 1975, 41, 334-338. | 1.1 | 13 |
| 161 | A method for rapid quantitation and preparation of antithrombin III-high-affinity heparin fractions. <i>Analytical Biochemistry</i> , 1981, 116, 456-461. | 1.1 | 13 |
| 162 | Selective appearance of heparin in mammalian tissues during development. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982, 714, 292-297. | 1.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Interaction of heparin with myosin ATPase: Possible involvement with the hemorrhagic activity and a correlation with antithrombin III high affinity-heparin molecules. <i>Thrombosis Research</i> , 1992, 68, 247-258. | 0.8 | 13 |
| 164 | Structure of heparan sulfate from the fresh water mollusc <i>Anomantidae</i> sp: Sequencing of its disaccharide units. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 1219-1225. | 0.8 | 13 |
| 165 | Modulation of hyaluronan in the migratory pathway of mouse primordial germ cells. <i>Histochemistry and Cell Biology</i> , 2002, 117, 265-273. | 0.8 | 13 |
| 166 | Heparan sulfate and control of endothelial cell proliferation: increased synthesis during the S phase of the cell cycle and inhibition of thymidine incorporation induced by ortho-nitrophenyl- β -D-xylose. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004, 1673, 178-185. | 1.1 | 13 |
| 167 | Internalization and degradation of heparin is not required for stimulus of heparan sulfate proteoglycan synthesis. <i>Journal of Cellular Physiology</i> , 2008, 217, 360-366. | 2.0 | 13 |
| 168 | Long-term effects for acute phase myocardial infarct VEGF165gene transfer cardiac extracellular matrix remodeling. <i>Growth Factors</i> , 2009, 27, 22-31. | 0.5 | 13 |
| 169 | Glycosaminoglycan chains from α 5 β 1 integrin are involved in fibronectin-dependent cell migrationDedicated to the memory of Professor Carl P. Dietrich.. <i>Biochemistry and Cell Biology</i> , 2009, 87, 677-686. | 0.9 | 13 |
| 170 | Brown spider venom toxins interact with cell surface and are endocytosed by rabbit endothelial cells. <i>Toxicon</i> , 2010, 56, 535-543. | 0.8 | 13 |
| 171 | Concentration of Hyaluronic Acid in Human Vocal Folds in Young and Old Subjects. <i>Otolaryngology - Head and Neck Surgery</i> , 2011, 145, 981-986. | 1.1 | 13 |
| 172 | Probing the interaction between heparan sulfate proteoglycan with biologically relevant molecules in mimetic models for cell membranes: A Langmuir film study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1211-1217. | 1.4 | 13 |
| 173 | Heparin α 5 β 1 integrin interaction in endothelial cells: Downstream signaling and heparan sulfate expression. <i>Journal of Cellular Physiology</i> , 2012, 227, 2740-2749. | 2.0 | 13 |
| 174 | Crosstalk between tumor cells and lymphocytes modulates heparanase expression. <i>Journal of Translational Medicine</i> , 2019, 17, 103. | 1.8 | 13 |
| 175 | Mechanism of Heparin Acceleration of Tissue Inhibitor of Metalloproteases-1 (TIMP-1) Degradation by the Human Neutrophil Elastase. <i>PLoS ONE</i> , 2011, 6, e21525. | 1.1 | 12 |
| 176 | Brown spider (<i>Loxosceles intermedia</i>) venom triggers endothelial cells death by anoikis. <i>Toxicon</i> , 2012, 60, 396-405. | 0.8 | 12 |
| 177 | Heparanase expression and glycosaminoglycans profile in renal cell carcinoma. <i>International Journal of Urology</i> , 2012, 19, 1036-1040. | 0.5 | 12 |
| 178 | Extracellular matrix alterations in the Peyronie's disease. <i>Journal of Advanced Research</i> , 2017, 8, 455-461. | 4.4 | 12 |
| 179 | Effects of syndecan-4 gene silencing by micro RNA interference in anoikis resistant endothelial cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2020, 128, 105848. | 1.2 | 12 |
| 180 | Minimum Fragments of the Heparin Molecule Able to Produce the Accumulation and Change of the Sulfation Pattern of an Antithrombotic Heparan Sulfate from Endothelial Cells. <i>Thrombosis and Haemostasis</i> , 1995, 74, 1169-1174. | 1.8 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Biosynthesis of sulfated glycosaminoglycans in the hemipteran <i>Rhodnius prolixus</i> . <i>Insect Biochemistry</i> , 1986, 16, 347-352. | 1.8 | 11 |
| 182 | Structural requirements of heparin disaccharides responsible for hemorrhage: reversion of the antihemostatic effect by ATP. <i>FASEB Journal</i> , 1989, 3, 2420-2424. | 0.2 | 11 |
| 183 | New pathway of heparan sulphate degradation. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 119, 539-547. | 0.7 | 11 |
| 184 | Analysis of Glycosaminoglycans in the Parametrium and Vaginal Apex of Women with and without Uterine Prolapse. <i>Journal of Women's Health</i> , 2010, 19, 1341-1344. | 1.5 | 11 |
| 185 | Modifications in Bone Matrix of Estrogen-Deficient Rats Treated with Intermittent PTH. <i>BioMed Research International</i> , 2015, 2015, 1-11. | 0.9 | 11 |
| 186 | Modulation of Hyaluronan Synthesis by the Interaction between Mesenchymal Stem Cells and Osteoarthritic Chondrocytes. <i>Stem Cells International</i> , 2015, 2015, 1-11. | 1.2 | 11 |
| 187 | Glycosaminoglycans in components of the rabbit eye: synthesis and characterization. <i>Current Eye Research</i> , 1999, 19, 146-153. | 0.7 | 10 |
| 188 | Mast cells are present in epithelial layers of different tissues of the mollusc <i>Anomalocardia brasiliana</i> . In situ characterization of heparin and a correlation of heparin and histamine concentration. <i>The Histochemical Journal</i> , 2002, 34, 553-558. | 0.6 | 10 |
| 189 | Sulfated glycosaminoglycans of the vagina and perineal skin in pre- and postmenopausal women, according to genital prolapse stage. <i>International Urogynecology Journal</i> , 2004, 15, 266-271. | 0.7 | 10 |
| 190 | Emergence and Structural Characteristics of Chondroitin Sulfates in the Animal Kingdom. <i>Advances in Pharmacology</i> , 2006, 53, 233-251. | 1.2 | 10 |
| 191 | Sulfated glycosaminoglycans of the periurethral tissue in women with and without stress urinary incontinence, according to genital prolapse stage. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2006, 126, 250-254. | 0.5 | 10 |
| 192 | Glycosaminoglycans affect heparanase location in CHO cell lines. <i>Glycobiology</i> , 2015, 25, 976-983. | 1.3 | 10 |
| 193 | Functional and molecular evidence for heteromeric association of P2Y1 receptor with P2Y2 and P2Y4 receptors in mouse granulocytes. <i>BMC Pharmacology & Toxicology</i> , 2016, 17, 29. | 1.0 | 10 |
| 194 | Small leucine-rich proteoglycans (SLRPs) in the endometrium of polycystic ovary syndrome women: a pilot study. <i>Journal of Ovarian Research</i> , 2017, 10, 54. | 1.3 | 10 |
| 195 | Heparin Oligosaccharides Have Antiarrhythmic Effect by Accelerating the Sodium-Calcium Exchanger. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 67. | 1.1 | 10 |
| 196 | Cathepsin B-associated Activation of Amyloidogenic Pathway in Murine Mucopolysaccharidosis Type I Brain Cortex. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1459. | 1.8 | 10 |
| 197 | Antihemostatic activity of heparin disaccharides and oligosaccharides obtained by chemical and enzymatic fragmentation: Reversal of the hemorrhagic activity by ATP and myosin. <i>Thrombosis Research</i> , 1989, 54, 207-214. | 0.8 | 9 |
| 198 | Effect of monensin on the sulfation of heparan sulfate proteoglycan from endothelial cells. <i>Journal of Cellular Biochemistry</i> , 1992, 50, 103-110. | 1.2 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Distribution and composition of glycosaminoglycans in the left human coronary arterial branches under myocardial bridge. <i>Atherosclerosis</i> , 1999, 143, 363-368. | 0.4 | 9 |
| 200 | Hyaluronan involvement in the changes of mouse interpubic tissue during late pregnancy and post-partum. <i>Cell Biology International</i> , 2008, 32, 913-919. | 1.4 | 9 |
| 201 | Sulfated glycosaminoglycans of periurethral tissue in pre- and postmenopausal women. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2008, 139, 252-255. | 0.5 | 9 |
| 202 | Involvement of heparan sulfate proteoglycans in cellular uptake of high molecular weight kininogen. <i>Biological Chemistry</i> , 2009, 390, 145-155. | 1.2 | 9 |
| 203 | Testing for urinary hyaluronate improves detection and grading of transitional cell carcinoma. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2011, 29, 710-715. | 0.8 | 9 |
| 204 | Glycosaminoglycans of Abdominal Skin After Massive Weight Loss in Post-bariatric Female Patients. <i>Obesity Surgery</i> , 2011, 21, 774-782. | 1.1 | 9 |
| 205 | On the catalytic mechanism of polysaccharide lyases: evidence of His and Tyr involvement in heparin lysis by heparinase I and the role of Ca^{2+} . <i>Molecular BioSystems</i> , 2014, 10, 54-64. | 2.9 | 9 |
| 206 | Activation of the Low Molecular Weight Protein Tyrosine Phosphatase in Keratinocytes Exposed to Hyperosmotic Stress. <i>PLoS ONE</i> , 2015, 10, e0119020. | 1.1 | 9 |
| 207 | CdSe magic-sized quantum dots incorporated in biomembrane models at the air-water interface composed of components of tumorigenic and non-tumorigenic cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1533-1540. | 1.4 | 9 |
| 208 | A low-molecular-weight galactofucan from the seaweed, <i>Spatoglossum schröderi</i> , binds fibronectin and inhibits capillary-like tube formation in vitro. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 1067-1075. | 3.6 | 9 |
| 209 | Anti-IIa activity and antitumor properties of a hybrid heparin/heparan sulfate-like compound from <i>Litopenaeus vannamei</i> shrimp. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1470-1478. | 3.6 | 9 |
| 210 | The Good and Bad Sides of Heparanase-1 and Heparanase-2. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1221, 821-845. | 0.8 | 9 |
| 211 | The role of proteoglycans in the reactive stroma on tumor growth and progression. <i>Histology and Histopathology</i> , 2015, 30, 33-41. | 0.5 | 9 |
| 212 | Putative role of heparan sulfate proteoglycan expression and shedding on the proliferation and survival of cells after photodynamic therapy. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 1130-1141. | 1.2 | 8 |
| 213 | Glycosaminoglycan backbone is not required for the modulation of hemostasis: Effect of different heparin derivatives and non-glycosaminoglycan analogs. <i>Matrix Biology</i> , 2012, 31, 308-316. | 1.5 | 8 |
| 214 | Ultra-low-molecular-weight heparins: Precise structural features impacting specific anticoagulant activities. <i>Thrombosis and Haemostasis</i> , 2013, 109, 471-478. | 1.8 | 8 |
| 215 | The Involvement of Proteoglycans in the Human Plasma Prekallikrein Interaction with the Cell Surface. <i>PLoS ONE</i> , 2014, 9, e91280. | 1.1 | 8 |
| 216 | Altered hyaluronic acid content in tear fluid of patients with adenoviral conjunctivitis. <i>Anais Da Academia Brasileira De Ciencias</i> , 2015, 87, 455-462. | 0.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Bradykinin Release Avoids High Molecular Weight Kininogen Endocytosis. PLoS ONE, 2015, 10, e0121721. | 1.1 | 8 |
| 218 | A Brazilian perspective for the use of bovine heparin in open heart surgery. International Journal of Cardiology, 2016, 223, 611-612. | 0.8 | 8 |
| 219 | Heparan sulfate proteoglycan deficiency upregulates the intracellular production of nitric oxide in Chinese hamster ovary cell lines. Journal of Cellular Physiology, 2018, 233, 3176-3194. | 2.0 | 8 |
| 220 | A correlation between the sulfated glycosaminoglycan concentration and degree of salinity of the habitat in fifteen species of the classes Crustacea, Pelecypoda and Gastropoda. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1983, 76, 433-436. | 0.2 | 7 |
| 221 | P2X7-induced apoptosis decreases by aging in mice myeloblasts. Experimental Gerontology, 2007, 42, 320-326. | 1.2 | 7 |
| 222 | Heparin affects the interaction of kininogen on endothelial cells. Biochimie, 2011, 93, 1839-1845. | 1.3 | 7 |
| 223 | Analysis of proteoglycan expression in human dental pulp. Archives of Oral Biology, 2018, 90, 67-73. | 0.8 | 7 |
| 224 | Interaction of Trastuzumab with biomembrane models at air-water interfaces mimicking cancer cell surfaces. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 182992. | 1.4 | 7 |
| 225 | Analysis of hyaluronic acid in the endometrium of women with polycystic ovary syndrome. Gynecological Endocrinology, 2019, 35, 133-137. | 0.7 | 7 |
| 226 | Nitric oxide regulates adhesiveness, invasiveness, and migration of anoikis-resistant endothelial cells. Brazilian Journal of Medical and Biological Research, 2022, 55, e11612. | 0.7 | 7 |
| 227 | Biosynthesis of an acidic galactan and sulfated glycosaminoglycans during embryonic development of the mollusc Pomacea sp.. Biochimica Et Biophysica Acta - General Subjects, 1985, 840, 187-192. | 1.1 | 6 |
| 228 | Generic Low Molecular Weight Heparins: A Significant Dilemma. Clinical and Applied Thrombosis/Hemostasis, 2005, 11, 363-366. | 0.7 | 6 |
| 229 | Glycosaminoglycan synthesis and shedding induced by growth factors are cell and compound specific. Growth Factors, 2007, 25, 50-59. | 0.5 | 6 |
| 230 | Treatment of adult MPSI mouse brains with IDUA-expressing mesenchymal stem cells decreases GAG deposition and improves exploratory behavior. Genetic Vaccines and Therapy, 2012, 10, 2. | 1.5 | 6 |
| 231 | Glycosaminoglycan profiles in the uterus of adult ovariectomized rats treated with estrogen and progestagen. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2012, 165, 265-270. | 0.5 | 6 |
| 232 | Chemical reduction of carboxyl groups in heparin abolishes its vasodilatory activity. Journal of Cellular Biochemistry, 2012, 113, 1359-1367. | 1.2 | 6 |
| 233 | Effect of carrageenans of different chemical structures in biointerfaces: A Langmuir film study. Colloids and Surfaces B: Biointerfaces, 2013, 111, 530-535. | 2.5 | 6 |
| 234 | Effects of Training and Overtraining on Intervertebral Disc Proteoglycans. Spine, 2018, 43, E1-E6. | 1.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Using NMR to Dissect the Chemical Space and <i>O</i> -Sulfation Effects within the <i>O</i> - and <i>S</i> -Glycoside Analogues of Heparan Sulfate. ACS Omega, 2022, 7, 24461-24467. | 1.6 | 6 |
| 236 | Effect of Heparitin Sulfate Fractions on Coagulation and Hemostasis. Experimental Biology and Medicine, 1974, 146, 504-508. | 1.1 | 5 |
| 237 | Glycosaminoglycans of some mouse mastocytomas. Biochimica Et Biophysica Acta - General Subjects, 1980, 631, 463-478. | 1.1 | 5 |
| 238 | Characteristic distribution of heparan sulfates and chondroitin sulfates in tissues and organs of the ampularidae Pomacea sp.. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1983, 76, 695-698. | 0.2 | 5 |
| 239 | The effect of sexual hormones on the sulfated glycosaminoglycan pattern of male genital accessory organs. Archives of Biochemistry and Biophysics, 1985, 240, 470-477. | 1.4 | 5 |
| 240 | Structure of sulfated glycosaminoglycans synthesized during the ontogeny of the mollusc Pomacea sp.. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1989, 93, 899-903. | 0.2 | 5 |
| 241 | Presence of a laminin-binding chondroitin sulfate proteoglycan at the cell surface of a human melanoma cell Mel-85. Molecular and Cellular Biochemistry, 1999, 197, 39-48. | 1.4 | 5 |
| 242 | Influência do envelhecimento na concentração de Ácido hialurônico nas pregas vocais de ratas fêmeas. Brazilian Journal of Otorhinolaryngology, 2012, 78, 14-18. | 0.4 | 5 |
| 243 | Evaluation of the metabolism of glycosaminoglycans in patients with interstitial cystitis. International Braz J Urol: Official Journal of the Brazilian Society of Urology, 2014, 40, 72-79. | 0.7 | 5 |
| 244 | Quinolone resistance and ornithine decarboxylation activity in lactose-negative <i>Escherichia coli</i> . Brazilian Journal of Microbiology, 2015, 46, 753-757. | 0.8 | 5 |
| 245 | Analysis of heparanase isoforms and cathepsin B in the plasma of patients with gastrointestinal carcinomas: analytical cross-sectional study. Sao Paulo Medical Journal, 2015, 133, 28-35. | 0.4 | 5 |
| 246 | Crude Heparin Preparations Unveil the Presence of Structurally Diverse Oversulfated Contaminants. Molecules, 2019, 24, 2988. | 1.7 | 5 |
| 247 | ER-Golgi dynamics of HS-modifying enzymes via vesicular trafficking is a critical prerequisite for the delineation of HS biosynthesis. Carbohydrate Polymers, 2021, 255, 117477. | 5.1 | 5 |
| 248 | Diagnostic Accuracy of Serum Hyaluronan for Detecting HCV Infection and Liver Fibrosis in Asymptomatic Blood Donors. Molecules, 2021, 26, 3892. | 1.7 | 5 |
| 249 | A comparative study on the mechanism of the anticoagulant action of mollusc and mammalian heparins. Comparative Biochemistry and Physiology A, Comparative Physiology, 1995, 111, 495-499. | 0.7 | 4 |
| 250 | First purification of heparan sulfate disaccharides with an amine resin used as solid support for peptide synthesis. Analytica Chimica Acta, 2000, 403, 205-207. | 2.6 | 4 |
| 251 | Effect of bradykinin and PMA on the synthesis of proteoglycans during the cell cycle of endothelial cells in culture. International Immunopharmacology, 2003, 3, 293-298. | 1.7 | 4 |
| 252 | The critical interaction of the metallopeptidase PHEX with heparan sulfate proteoglycans. International Journal of Biochemistry and Cell Biology, 2008, 40, 2781-2792. | 1.2 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 253 | Metabolic profile of glycosaminoglycans in bladder and urethra of female rats during and after pregnancy. <i>International Urogynecology Journal</i> , 2010, 21, 241-246. | 0.7 | 4 |
| 254 | Long-term and short-term effects of simulated birth trauma, cesarean and vaginal delivery on sulfated glycosaminoglycans in the urethra of female rats. <i>International Urogynecology Journal</i> , 2010, 21, 705-710. | 0.7 | 4 |
| 255 | Structural and Pharmacological Profile of Generic Enoxaparins Used in Brazil. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2012, 18, 379-386. | 0.7 | 4 |
| 256 | Concentration of glycosaminoglycan in ovariectomized mice uterus after treatment with ovarian steroids. <i>Gynecological Endocrinology</i> , 2016, 32, 617-621. | 0.7 | 4 |
| 257 | Extracellular matrix alterations after blood instillation in tunica albuginea of rats. <i>International Journal of Impotence Research</i> , 2018, 30, 85-92. | 1.0 | 4 |
| 258 | THE M-RNA, EXPRESSION OF SERCA2 AND NCX1 IN THE PROCESS OF PHARMACOLOGICAL CELL PROTECTION IN EXPERIMENTAL ACUTE PANCREATITIS INDUCED BY TAUROCHOLATE. <i>Arquivos Brasileiros De Cirurgia Digestiva: ABCD = Brazilian Archives of Digestive Surgery</i> , 2018, 31, e1352. | 0.5 | 4 |
| 259 | The Heparan Sulfate Binding Peptide in Tumor Progression of Triple-Negative Breast Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 697626. | 1.3 | 4 |
| 260 | MUCOPOLYSACCHARIDASES FROM FLAVOBACTERIUM HEPARINUM: ISOLATION, CHARACTERIZATION, AND USE FOR STRUCTURAL ANALYSIS OF CHONDROITIN SULFATES, HEPARIN, AND HEPARITIN SULFATES. , 1980, , 317-329. | | 4 |
| 261 | Cell-surface glycosaminoglycans regulate the cellular uptake of charged polystyrene nanoparticles. <i>Nanoscale</i> , 2022, 14, 7350-7363. | 2.8 | 4 |
| 262 | Mucopolysaccharide degradation and excretion after hyaluronidase injection in patients with hunter's and hurler's syndromes. <i>Clinica Chimica Acta</i> , 1974, 50, 245-255. | 0.5 | 3 |
| 263 | Isolation and pharmacological activities of heparin and other sulfated mucopolysaccharides from thymus. <i>Biochemical Pharmacology</i> , 1981, 30, 1077-1083. | 2.0 | 3 |
| 264 | Enzymatic degradation of glycosaminoglycans in molluscs: Formation of glucuronic acid and N-acetylhexosamines from heparan sulfate and chondroitin sulfate by enzymes from three species of molluscs of the classes gastropoda and pelecypoda. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1985, 82, 223-227. | 0.2 | 3 |
| 265 | The expression of glycosaminoglycans and proteoglycans in the uterine cervix of albino rats after local hyaluronidase infusion. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2014, 27, 879-886. | 0.7 | 3 |
| 266 | Ionic and biochemical characterization of bovine intervertebral disk. <i>Connective Tissue Research</i> , 2016, 57, 212-219. | 1.1 | 3 |
| 267 | Nebulized enriched heparin to treat no critical patients with Sars-Cov-2. <i>Medicine (United States)</i> , 2021, 100, e28288. | 0.4 | 3 |
| 268 | ATP reduces blood loss produced by heparin in cardiopulmonary bypass operations. <i>Annals of Thoracic Surgery</i> , 1994, 57, 956-959. | 0.7 | 2 |
| 269 | Sulfation of Intrinsic Glycoproteins of the Rabbit Vitreous. <i>Experimental Eye Research</i> , 1998, 67, 323-329. | 1.2 | 2 |
| 270 | Inhibition of heparin synthesis by methotrexate in rats in vivo. <i>Biochemical Pharmacology</i> , 2002, 64, 169-175. | 2.0 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 271 | Physicochemical and chromatographic evaluation of benzhydramine-resin as an anion exchanger solid support. <i>Journal of Proteomics</i> , 2003, 57, 75-83. | 2.4 | 2 |
| 272 | Highlights from the I international symposium of thrombosis and anticoagulation in internal medicine, October 23-25, 2008, Sao Paulo, Brazil. <i>Journal of Thrombosis and Thrombolysis</i> , 2009, 28, 106-116. | 1.0 | 2 |
| 273 | Highlights from the III International Symposium of Thrombosis and Anticoagulation (ISTA), October 14-16, 2010, São Paulo, Brazil. <i>Journal of Thrombosis and Thrombolysis</i> , 2011, 32, 242-266. | 1.0 | 2 |
| 274 | GLYCOSAMINOGLYCANS AND PROTEOGLYCANS IN PALMAR FASCIA OF PATIENTS WITH DUPUYTREN. <i>Acta Ortopedica Brasileira</i> , 2016, 24, 98-101. | 0.2 | 2 |
| 275 | Concentration of sulfated glycosaminoglycans in the mammary tissue of female rats with the aging and about hormonal influence. <i>Gynecological Endocrinology</i> , 2018, 34, 64-68. | 0.7 | 2 |
| 276 | Endocytosis and the Participation of Glycosaminoglycans Are Important to the Mechanism of Cell Death Induced by Î²-Hairpin Antimicrobial Peptides. <i>ACS Applied Bio Materials</i> , 2021, 4, 6488-6501. | 2.3 | 2 |
| 277 | Effect of different glycosaminoglycans in a guinea-pig carotid artery thrombosis model. <i>Thrombosis Research</i> , 1994, 75, 591-599. | 0.8 | 1 |
| 278 | Uncoupling of Actomyosin Adenosinetriphosphatase by Heparin and Its Fragments. <i>FEBS Journal</i> , 1997, 245, 40-46. | 0.2 | 1 |
| 279 | Impact of birth in the presence and absence of simulated birth injury on vaginal glycosaminoglycan content. <i>International Urogynecology Journal</i> , 2011, 22, 1513-1519. | 0.7 | 1 |
| 280 | Glycosaminoglycans Modify Elastase Action In Vitro and Enhance Elastase-Induced Cell Death in Cultured Fibroblasts. , 2012, 2012, 1-8. | | 1 |
| 281 | Ranking Brazilian research output. <i>Nature</i> , 2013, 503, 39-39. | 13.7 | 1 |
| 282 | Mo1573 Low Molecular Weight Heparin Fragment Decreases Intracellular Calcium in Human Hepatocarcinoma Cells Under Calcium Overload. <i>Gastroenterology</i> , 2016, 150, S1237. | 0.6 | 1 |
| 283 | The dynamics of the protective effect of trisulfated disaccharide on pancreatic and liver cells in a Ca++ overload environment. <i>Pancreatology</i> , 2017, 17, S42. | 0.5 | 1 |
| 284 | Mo2031 - The Molecular Weight of Heparin Fragments Interferes with the Protection of the Hepatocyte Subjected to Injury by Ischemia and Reperfusion. <i>Gastroenterology</i> , 2018, 154, S-1340. | 0.6 | 1 |
| 285 | In vitro attenuation of classic metastatic melanoma-related features by highly diluted natural complexes: Molecular and functional analyses. <i>International Journal of Oncology</i> , 2019, 55, 721-732. | 1.4 | 1 |
| 286 | Heparanase modulation by Wingless/INT (Wnt). <i>Molecular Biology Reports</i> , 2021, 48, 3117-3125. | 1.0 | 1 |
| 287 | A new heparin fragment decreases liver ischemia-reperfusion injury. <i>Hepatobiliary and Pancreatic Diseases International</i> , 2021, , . | 0.6 | 1 |
| 288 | Hyaluronic acid and proliferation/cellular death amount in the female rats mammary gland after estroprogestative therapy. <i>Gynecological Endocrinology</i> , 2022, 38, 181-185. | 0.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 289 | 125: DMSO Effect on Bladder Inflammation and Urinary Glycosaminoglycans Excretion after Protamine Sulfate Induced Cystitis. <i>Journal of Urology</i> , 2007, 177, 43-43. | 0.2 | 1 |
| 290 | Science and education on the 75th anniversary of Escola Paulista de Medicina, Universidade Federal de São Paulo. <i>Anais Da Academia Brasileira De Ciencias</i> , 2009, 81, 319-320. | 0.3 | 1 |
| 291 | Heparina de alto peso molecular. Uma alternativa nas operações com circulação extracorpórea: estudo experimental. <i>Brazilian Journal of Cardiovascular Surgery</i> , 2001, 16, 160. | 0.2 | 0 |
| 292 | Does mobilization for autologous stem cell transplantation damage stromal layer formation?. <i>Hematology</i> , 2009, 14, 76-83. | 0.7 | 0 |
| 293 | Estudo bioquímico do glicosaminoglicano dermatam sulfato em homens adultos portadores de hérnia inguinal tipo II de Nyhus. <i>Revista Do Colegio Brasileiro De Cirurgioes</i> , 2011, 38, 167-171. | 0.3 | 0 |
| 294 | Acute cocaine treatment increases thimet oligopeptidase in the striatum of rat brain. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 724-727. | 1.0 | 0 |
| 295 | Unfractionated and low molecular weight heparin. <i>BMC Proceedings</i> , 2014, 8, . | 1.8 | 0 |
| 296 | CASE SERIES OF PATIENTS UNDER BIWEEKLY TREATMENT WITH LARONIDASE: A REPORT OF A SINGLE CENTER EXPERIENCE. <i>Revista Paulista De Pediatria</i> , 2019, 37, 312-317. | 0.4 | 0 |
| 297 | Neuroprotective effect of heparin Trisulfated disaccharide on ischemic stroke. <i>Glycoconjugate Journal</i> , 2021, 38, 35-43. | 1.4 | 0 |
| 298 | Colorectal cancer desmoplastic reaction affects tumor cell invasion. <i>FASEB Journal</i> , 2011, 25, 915.6. | 0.2 | 0 |
| 299 | From Combinatorial Display Techniques to Microarray Technology: New Approaches to the Development and Toxicological Profiling of Targeted Nanomedicines. <i>Nanomedicine and Nanotoxicology</i> , 2014, , 153-175. | 0.1 | 0 |
| 300 | STRUCTURE OF SULFATED MUCOPOLYSACCHARIDES FROM NORMAL TISSUES AND FROM PATIENTS WITH MUCOPOLYSACCHARIDOSES Aided by grants from FINEP (Financiadora de Estudos e Projetos), FAPESP (Fundação de Amparo a Pesquisa do Estado de São Paulo), CNPq (Conselho Nacional de Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 T | | |
| 301 | Monitoring non-small cell lung cancer progression and treatment response through hyaluronic acid in sputum. <i>Brazilian Journal of Medical and Biological Research</i> , 2022, 55, e11513. | 0.7 | 0 |