

# Manuela Viola

## List of Publications by Year in descending order

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76  
papers

3,393  
citations

117625

34  
h-index

144013

57  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyaluronan: Biosynthesis and signaling. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2452-2459.	2.4	241
2	miR-145-dependent targeting of Junctional Adhesion Molecule A and modulation of fascin expression are associated with reduced breast cancer cell motility and invasiveness. <i>Oncogene</i> , 2010, 29, 6569-6580.	5.9	197
3	Metabolic control of hyaluronan synthases. <i>Matrix Biology</i> , 2014, 35, 8-13.	3.6	151
4	Modifications of Hyaluronan Influence the Interaction with Human Bone Morphogenetic Protein-4 (hBMP-4). <i>Biomacromolecules</i> , 2009, 10, 3290-3297.	5.4	127
5	Role of UDP-N-Acetylglucosamine (GlcNAc) and O-GlcNAcylation of Hyaluronan Synthase 2 in the Control of Chondroitin Sulfate and Hyaluronan Synthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 35544-35555.	3.4	120
6	Revisiting the hallmarks of cancer: The role of hyaluronan. <i>Seminars in Cancer Biology</i> , 2020, 62, 9-19.	9.6	118
7	Natural Antisense Transcript for Hyaluronan Synthase 2 (HAS2-AS1) Induces Transcription of HAS2 via Protein O-GlcNAcylation. <i>Journal of Biological Chemistry</i> , 2014, 289, 28816-28826.	3.4	116
8	Hyaluronan-CD44-ERK1/2 Regulate Human Aortic Smooth Muscle Cell Motility during Aging. <i>Journal of Biological Chemistry</i> , 2008, 283, 4448-4458.	3.4	110
9	Proinflammatory Cytokines Induce Hyaluronan Synthesis and Monocyte Adhesion in Human Endothelial Cells through Hyaluronan Synthase 2 (HAS2) and the Nuclear Factor- $\kappa$ B (NF- $\kappa$ B) Pathway. <i>Journal of Biological Chemistry</i> , 2010, 285, 24639-24645.	3.4	106
10	Molecular Cloning and Characterization of UDP-glucose Dehydrogenase from the Amphibian <i>Xenopus laevis</i> and Its Involvement in Hyaluronan Synthesis. <i>Journal of Biological Chemistry</i> , 2006, 281, 8254-8263.	3.4	103
11	Hyaluronan Synthesis Is Inhibited by Adenosine Monophosphate-activated Protein Kinase through the Regulation of HAS2 Activity in Human Aortic Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 7917-7924.	3.4	103
12	Glycosaminoglycans show a specific periodic interaction with type I collagen fibrils. <i>Journal of Structural Biology</i> , 2008, 164, 134-139.	2.8	93
13	Collagen Fibril Structure Is Affected by Collagen Concentration and Decorin. <i>Biomacromolecules</i> , 2007, 8, 2087-2091.	5.4	92
14	More than matrix: The multifaceted role of decorin in cancer. <i>European Journal of Cell Biology</i> , 2013, 92, 1-11.	3.6	92
15	Antitumor effects of hyaluronic acid inhibitor 4-methylumbelliferone in an orthotopic hepatocellular carcinoma model in mice. <i>Glycobiology</i> , 2012, 22, 400-410.	2.5	91
16	The effects of 4-methylumbelliferone on hyaluronan synthesis, MMP2 activity, proliferation, and motility of human aortic smooth muscle cells. <i>Glycobiology</i> , 2009, 19, 537-546.	2.5	88
17	Hyaluronan and Human Endothelial Cell Behavior. <i>Connective Tissue Research</i> , 2008, 49, 120-123.	2.3	72
18	Collagen VI and Hyaluronan: The Common Role in Breast Cancer. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	72

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19	Proteoglycan fragmentation and respiratory mechanics in mechanically ventilated healthy rats. <i>Journal of Applied Physiology</i> , 2007, 103, 747-756.	2.5	64
20	Biology and biotechnology of hyaluronan. <i>Glycoconjugate Journal</i> , 2015, 32, 93-103.	2.7	62
21	Modulation of Hyaluronan Synthase Activity in Cellular Membrane Fractions. <i>Journal of Biological Chemistry</i> , 2009, 284, 30684-30694.	3.4	58
22	Cell Energy Metabolism and Hyaluronan Synthesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 35-47.	2.5	54
23	Epigenetics in extracellular matrix remodeling and hyaluronan metabolism. <i>FEBS Journal</i> , 2014, 281, 4980-4992.	4.7	51
24	Inflammation, Extracellular Matrix Remodeling, and Proteostasis in Tumor Microenvironment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8102.	4.1	51
25	Matrix metalloproteinase 2 and tissue inhibitors of metalloproteinases regulate human aortic smooth muscle cell migration during in vitro aging. <i>FASEB Journal</i> , 2006, 20, 1118-1130.	0.5	50
26	Interaction of decorin with CNBr peptides from collagens I and II. <i>FEBS Journal</i> , 2002, 269, 1428-1437.	0.2	46
27	Regulation of Hyaluronan Synthesis in Vascular Diseases and Diabetes. <i>Journal of Diabetes Research</i> , 2015, 2015, 1-9.	2.3	46
28	Oxidized Low Density Lipoprotein (LDL) Affects Hyaluronan Synthesis in Human Aortic Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 29595-29603.	3.4	45
29	Defective proteoglycan sulfation of the growth plate zones causes reduced chondrocyte proliferation via an altered Indian hedgehog signalling. <i>Matrix Biology</i> , 2010, 29, 453-460.	3.6	44
30	Extracellular Matrix in Atherosclerosis: Hyaluronan and Proteoglycans Insights. <i>Current Medicinal Chemistry</i> , 2016, 23, 2958-2971.	2.4	44
31	Sirtuin 1 reduces hyaluronan synthase 2 expression by inhibiting nuclear translocation of NF- $\kappa$ B and expression of the long-noncoding RNA HAS2 $\alpha$ AS1. <i>Journal of Biological Chemistry</i> , 2020, 295, 3485-3496.	3.4	43
32	Hyaluronan content of Wharton's jelly in healthy and Down syndrome fetuses. <i>Matrix Biology</i> , 2005, 24, 166-174.	3.6	42
33	Glycosaminoglycans and Glucose Prevent Apoptosis in 4-Methylumbelliferone-treated Human Aortic Smooth Muscle Cells*. <i>Journal of Biological Chemistry</i> , 2011, 286, 34497-34503.	3.4	42
34	Changes in hyaluronan deposition in the rat myenteric plexus after experimentally-induced colitis. <i>Scientific Reports</i> , 2017, 7, 17644.	3.3	37
35	Influence of collagen $\alpha$ 1(I) based coatings containing decorin and biglycan on osteoblast behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 805-816.	4.0	31
36	New insights into the pathobiology of Down syndrome $\alpha$ 2 hyaluronan synthase $\alpha$ 2 overexpression is regulated by collagen VI $\alpha$ 1 chain. <i>FEBS Journal</i> , 2013, 280, 2418-2430.	4.7	30

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37	Heparan Sulfate in the Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1245, 147-161.	1.6	26
38	Molecular Control of the Hyaluronan Biosynthesis. <i>Connective Tissue Research</i> , 2008, 49, 111-114.	2.3	25
39	Self-aggregation of fibrillar collagens I and II involves lysine side chains. <i>Micron</i> , 2006, 37, 640-647.	2.2	24
40	MDA-MB-231 breast cancer cell viability, motility and matrix adhesion are regulated by a complex interplay of heparan sulfate, chondroitin <sup>6</sup> /dermatan sulfate and hyaluronan biosynthesis. <i>Glycoconjugate Journal</i> , 2017, 34, 411-420.	2.7	24
41	Application of polyacrylamide gel electrophoresis of fluorophore-labeled saccharides for analysis of hyaluronan and chondroitin sulfate in human and animal tissues and cell cultures. <i>Biomedical Chromatography</i> , 2005, 19, 761-765.	1.7	22
42	Regulated Hyaluronan Synthesis by Vascular Cells. <i>International Journal of Cell Biology</i> , 2015, 2015, 1-8.	2.5	22
43	Molecular cloning, genomic organization and developmental expression of the <i>Xenopus laevis</i> hyaluronan synthase 3. <i>Matrix Biology</i> , 2003, 22, 511-517.	3.6	21
44	Murine Abortion is Associated with Enhanced Hyaluronan Expression and Abnormal Localization at the Fetomaternal Interface. <i>Placenta</i> , 2009, 30, 88-95.	1.5	21
45	Decorin from different bovine tissues: Study of glycosaminoglycan chain by PAGEFS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 41, 36-42.	2.8	19
46	Neurochemical characterization of myenteric neurons in the juvenile gilthead sea bream ( <i>Sparus</i> ) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 3	2.5	19
47	The small proteoglycan decorin supports adhesion and activation of human platelets. <i>Blood</i> , 2002, 100, 1707-14.	1.4	19
48	Fibromodulin Interactions with Type I and II Collagens. <i>Connective Tissue Research</i> , 2007, 48, 141-148.	2.3	18
49	Vascular Pathology and the Role of Hyaluronan. <i>Scientific World Journal, The</i> , 2008, 8, 1116-1118.	2.1	18
50	New electrophoretic and chromatographic techniques for analysis of heparin and heparan sulfate. <i>Electrophoresis</i> , 2008, 29, 3168-3174.	2.4	15
51	Hyaluronan in pathophysiology of vascular diseases: specific roles in smooth muscle cells, endothelial cells, and macrophages. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C505-C519.	4.6	15
52	The role of the multifaceted long non-coding RNAs: A nuclear-cytosolic interplay to regulate hyaluronan metabolism. <i>Matrix Biology Plus</i> , 2021, 11, 100060.	3.5	14
53	The natural antisense transcript HAS2-AS1 regulates breast cancer cells aggressiveness independently from hyaluronan metabolism. <i>Matrix Biology</i> , 2022, 109, 140-161.	3.6	14
54	Involvement of hyaluronan in the adaptive changes of the rat small intestine neuromuscular function after ischemia/reperfusion injury. <i>Scientific Reports</i> , 2020, 10, 11521.	3.3	12

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55	Assessing Heteroplasmic Load in Leber's Hereditary Optic Neuropathy Mutation 3460Gâ†A/MT-ND1 with A Real-Time PCR Quantitative Approach. <i>Journal of Molecular Diagnostics</i> , 2007, 9, 538-545.	2.8	11
56	Analysis of Hyaluronan Synthase Activity. <i>Methods in Molecular Biology</i> , 2015, 1229, 201-208.	0.9	11
57	Molecular stability of chemically modified collagen triple helices. <i>FEBS Letters</i> , 2003, 547, 170-176.	2.8	10
58	The Secreted Protein C10orf118 Is a New Regulator of Hyaluronan Synthesis Involved in Tumour-Stroma Cross-Talk. <i>Cancers</i> , 2021, 13, 1105.	3.7	10
59	Hyaluronan: A Neuroimmune Modulator in the Microbiota-Gut Axis. <i>Cells</i> , 2022, 11, 126.	4.1	10
60	Platelet interaction with CNBr peptides from type II collagen via integrin $\alpha 2 \beta 1$ . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003, 1640, 43-51.	4.1	9
61	Analysis of Glycosaminoglycans by Electrophoretic Approach. <i>Current Pharmaceutical Analysis</i> , 2008, 4, 78-89.	0.6	9
62	Acute Exposure of Collecting Lymphatic Vessels to Low-Density Lipoproteins Increases Both Contraction Frequency and Lymph Flow: An <i>In Vivo</i> Mechanical Insight. <i>Lymphatic Research and Biology</i> , 2020, 18, 146-155.	1.1	9
63	HA and HS Changes in Endothelial Inflammatory Activation. <i>Biomolecules</i> , 2021, 11, 809.	4.0	8
64	Aortic Smooth Muscle Cells Migration and the Role of Metalloproteinases and Hyaluronan. <i>Connective Tissue Research</i> , 2008, 49, 189-192.	2.3	7
65	Glycine improves the remodeling process of tenocytes in vitro. <i>Cell Biology International</i> , 2018, 42, 804-814.	3.0	7
66	Mechanical ventilation and volutrauma: study in vivo of a healthy pig model. <i>Biological Research</i> , 2011, 44, 219-227.	3.4	5
67	Glycosaminoglycans Metabolism. <i>Biochemistry Research International</i> , 2012, 2012, 1-2.	3.3	2
68	Fast Screening of Glycosaminoglycan Disaccharides by Fluorophore-Assisted Carbohydrate Electrophoresis (FACE): Applications to Biologic Samples and Pharmaceutical Formulations. <i>Methods in Molecular Biology</i> , 2015, 1229, 143-159.	0.9	2
69	Mechanical ventilation and volutrauma: study in vivo of a healthy pig model. <i>Biological Research</i> , 2011, 44, 219-27.	3.4	2
70	Activated Protein C Protection from Lung Inflammation in Endotoxin-Induced Injury. <i>Experimental Biology and Medicine</i> , 2008, 233, 1462-1468.	2.4	1
71	2.2 Metabolic control of hyaluronan synthesis. , 2012, , 26-38.		0
72	Hyaluronan Produced by Smooth Muscle Cells Plays a Critical Role in Neointima Formation. <i>Conference Papers in Science</i> , 2014, 2014, 1-5.	0.3	0

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73	Method for Studying ECM Expression: In Situ RT-PCR. <i>Methods in Molecular Biology</i> , 2019, 1952, 21-31.	0.9	0
74	A Nonradioactive Method to Measure Hyaluronan Activity. <i>Methods in Molecular Biology</i> , 2022, 2303, 63-70.	0.9	0
75	Hyaluronan synthesis is controlled through protein O-GlcNAcylation in vascular smooth muscle cells. <i>FASEB Journal</i> , 2011, 25, 1b124.	0.5	0
76	Editorial: Proteoglycans in the Tumor Microenvironment. <i>Frontiers in Oncology</i> , 2022, 12, 872417.	2.8	0