

# Davide Vigetti

## List of Publications by Year in descending order

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100  
papers

4,545  
citations

94381

37  
h-index

106281

65  
g-index

101  
all docs

101  
docs citations

101  
times ranked

5092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of a Complex Mixture of Therapeutic Drugs at Environmental Levels on Human Embryonic Cells. <i>Environmental Science &amp; Technology</i> , 2006, 40, 2442-2447.	4.6	417
2	Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. <i>Chemical Reviews</i> , 2018, 118, 9152-9232.	23.0	253
3	Hyaluronan: Biosynthesis and signaling. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2452-2459.	1.1	241
4	Transcriptional and post-translational regulation of hyaluronan synthesis. <i>FEBS Journal</i> , 2011, 278, 1419-1428.	2.2	186
5	Roles and targeting of the HAS/hyaluronan/CD44 molecular system in cancer. <i>Matrix Biology</i> , 2017, 59, 3-22.	1.5	156
6	Metabolic control of hyaluronan synthases. <i>Matrix Biology</i> , 2014, 35, 8-13.	1.5	151
7	Collagens, Proteoglycans, MMP-2, MMP-9 and TIMPs in Human Achilles Tendon Rupture. <i>Clinical Orthopaedics and Related Research</i> , 2008, 466, 1577-1582.	0.7	144
8	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.	1.6	120
9	Revisiting the hallmarks of cancer: The role of hyaluronan. <i>Seminars in Cancer Biology</i> , 2020, 62, 9-19.	4.3	118
10	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.	1.6	116
11	Hyaluronan-CD44-ERK1/2 Regulate Human Aortic Smooth Muscle Cell Motility during Aging. <i>Journal of Biological Chemistry</i> , 2008, 283, 4448-4458.	1.6	110
12	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.	1.6	106
13	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.	1.6	103
14	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.	1.6	103
15	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.	1.3	88
16	The dynamic metabolism of hyaluronan regulates the cytosolic concentration of UDP-GlcNAc. <i>Matrix Biology</i> , 2014, 35, 14-17.	1.5	87
17	The monoclonal anti-BCL10 antibody (clone 331.1) is a sensitive and specific marker of pancreatic acinar cell carcinoma and pancreatic metaplasia. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2009, 454, 133-142.	1.4	84
18	The Complex Interplay Between Extracellular Matrix and Cells in Tissues. <i>Methods in Molecular Biology</i> , 2019, 1952, 1-20.	0.4	82

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19	Hyaluronan and Human Endothelial Cell Behavior. <i>Connective Tissue Research</i> , 2008, 49, 120-123.	1.1	72
20	Collagen VI and Hyaluronan: The Common Role in Breast Cancer. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	72
21	Hyaluronan as tunable drug delivery system. <i>Advanced Drug Delivery Reviews</i> , 2019, 146, 83-96.	6.6	71
22	Dissecting the role of hyaluronan synthases in the tumor microenvironment. <i>FEBS Journal</i> , 2019, 286, 2937-2949.	2.2	70
23	Microenvironmental control of malignancy exerted by RNASET2, a widely conserved extracellular RNase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1104-1109.	3.3	62
24	Biology and biotechnology of hyaluronan. <i>Glycoconjugate Journal</i> , 2015, 32, 93-103.	1.4	62
25	Modulation of Hyaluronan Synthase Activity in Cellular Membrane Fractions. <i>Journal of Biological Chemistry</i> , 2009, 284, 30684-30694.	1.6	58
26	Cell Energy Metabolism and Hyaluronan Synthesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 35-47.	1.3	54
27	Epigenetics in extracellular matrix remodeling and hyaluronan metabolism. <i>FEBS Journal</i> , 2014, 281, 4980-4992.	2.2	51
28	Inflammation, Extracellular Matrix Remodeling, and Proteostasis in Tumor Microenvironment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8102.	1.8	51
29	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.	0.2	50
30	Regulation of Hyaluronan Synthesis in Vascular Diseases and Diabetes. <i>Journal of Diabetes Research</i> , 2015, 2015, 1-9.	1.0	46
31	Oxidized Low Density Lipoprotein (LDL) Affects Hyaluronan Synthesis in Human Aortic Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 29595-29603.	1.6	45
32	Extracellular Matrix in Atherosclerosis: Hyaluronan and Proteoglycans Insights. <i>Current Medicinal Chemistry</i> , 2016, 23, 2958-2971.	1.2	44
33	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.	1.6	43
34	Hyaluronan content of Wharton's jelly in healthy and Down syndrome fetuses. <i>Matrix Biology</i> , 2005, 24, 166-174.	1.5	42
35	Histidine Decarboxylase, DOPA Decarboxylase, and Vesicular Monoamine Transporter 2 Expression in Neuroendocrine Tumors: Immunohistochemical Study and Gene Expression Analysis. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 863-875.	1.3	42
36	Glycosaminoglycans and Glucose Prevent Apoptosis in 4-Methylumbelliferone-treated Human Aortic Smooth Muscle Cells*. <i>Journal of Biological Chemistry</i> , 2011, 286, 34497-34503.	1.6	42

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37	A potential reservoir of immature dopaminergic replacement neurons in the adult mammalian olfactory bulb. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 899-915.	1.3	39
38	Changes in hyaluronan deposition in the rat myenteric plexus after experimentally-induced colitis. <i>Scientific Reports</i> , 2017, 7, 17644.	1.6	37
39	Effects of population density on seabass ( <i>Dicentrarchus labrax</i> , L.) gene expression. <i>Aquaculture</i> , 2004, 230, 229-239.	1.7	34
40	Chondroitin Sulfates Act as Extracellular Gating Modifiers on Voltage-Dependent Ion Channels. <i>Cellular Physiology and Biochemistry</i> , 2008, 22, 137-146.	1.1	34
41	Structural and biochemical analysis of the parasite <i>Gordius villoti</i> (Nematomorpha, Gordiacea) cuticle. <i>Tissue and Cell</i> , 2000, 32, 366-376.	1.0	33
42	Regulated gene expression of hyaluronan synthases during <i>Xenopus laevis</i> development. <i>Gene Expression Patterns</i> , 2004, 4, 303-308.	0.3	32
43	Influence of collagenâ€fibrilâ€based coatings containing decorin and biglycan on osteoblast behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 805-816.	2.1	31
44	Ghrelin-Producing Well-Differentiated Neuroendocrine Tumor (Carcinoid) of Tailgut Cyst. Morphological, Immunohistochemical, Ultrastructural, and RT-PCR Study of a Case and Review of the Literature. <i>Endocrine Pathology</i> , 2010, 21, 190-198.	5.2	30
45	New insights into the pathobiology of Down syndrome â€“ hyaluronan synthaseâ€2 overexpression is regulated by collagen VI $\alpha$ 2 chain. <i>FEBS Journal</i> , 2013, 280, 2418-2430.	2.2	30
46	Hyaluronan Synthases Posttranslational Regulation in Cancer. <i>Advances in Cancer Research</i> , 2014, 123, 95-119.	1.9	29
47	Heparan Sulfate in the Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1245, 147-161.	0.8	26
48	Molecular Control of the Hyaluronan Biosynthesis. <i>Connective Tissue Research</i> , 2008, 49, 111-114.	1.1	25
49	MDA-MB-231 breast cancer cell viability, motility and matrix adhesion are regulated by a complex interplay of heparan sulfate, chondroitinâˆ/dermatan sulfate and hyaluronan biosynthesis. <i>Glycoconjugate Journal</i> , 2017, 34, 411-420.	1.4	24
50	Role of neuronal and inducible nitric oxide synthases in the guinea pig ileum myenteric plexus during <i>in vitro</i> ischemia and reperfusion. <i>Neurogastroenterology and Motility</i> , 2013, 25, e114-26.	1.6	23
51	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.	0.8	22
52	Regulated Hyaluronan Synthesis by Vascular Cells. <i>International Journal of Cell Biology</i> , 2015, 2015, 1-8.	1.0	22
53	Molecular cloning, genomic organization and developmental expression of the <i>Xenopus laevis</i> hyaluronan synthase 3. <i>Matrix Biology</i> , 2003, 22, 511-517.	1.5	21
54	Initial Identification of UDP-Glucose Dehydrogenase as a Prognostic Marker in Breast Cancer Patients, Which Facilitates Epirubicin Resistance and Regulates Hyaluronan Synthesis in MDA-MB-231 Cells. <i>Biomolecules</i> , 2021, 11, 246.	1.8	21

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55	The purine degradation pathway. <i>Environment International</i> , 2001, 27, 463-470.	4.8	19
56	Arsenic Toxicity and HSP70 Expression in <i>Xenopus laevis</i> Embryos. <i>ATLA Alternatives To Laboratory Animals</i> , 2002, 30, 597-603.	0.7	19
57	Decorin from different bovine tissues: Study of glycosaminoglycan chain by PAGEFS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 41, 36-42.	1.4	19
58	Vascular Pathology and the Role of Hyaluronan. <i>Scientific World Journal, The</i> , 2008, 8, 1116-1118.	0.8	18
59	New electrophoretic and chromatographic techniques for analysis of heparin and heparan sulfate. <i>Electrophoresis</i> , 2008, 29, 3168-3174.	1.3	15
60	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.	2.1	15
61	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.	1.9	14
62	The natural antisense transcript HAS2-AS1 regulates breast cancer cells aggressiveness independently from hyaluronan metabolism. <i>Matrix Biology</i> , 2022, 109, 140-161.	1.5	14
63	Gene expression in <i>Xenopus</i> embryos after methylmercury exposure: A search for molecular biomarkers. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2731-2736.	2.2	13
64	ATP Bioluminometers Analysis on the Surfaces of Removable Orthodontic Aligners after the Use of Different Cleaning Methods. <i>International Journal of Dentistry</i> , 2016, 2016, 1-6.	0.5	13
65	In vitro effects of Apixaban on 5 different cancer cell lines. <i>PLoS ONE</i> , 2017, 12, e0185035.	1.1	13
66	<i>Xenopus</i> Allantoicase: Molecular Cloning, Enzymatic Activity and Developmental Expression. <i>Archives of Biochemistry and Biophysics</i> , 2000, 379, 90-96.	1.4	12
67	Human allantoicase gene: cDNA cloning, genomic organization and chromosome localization. <i>Gene</i> , 2000, 256, 253-260.	1.0	12
68	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.	1.6	12
69	Property comparison of recombinant amphibian and mammalian allantoicases. <i>FEBS Letters</i> , 2002, 512, 323-328.	1.3	11
70	Genomic organization and chromosome localization of the murine and human allantoicase gene. <i>Gene</i> , 2002, 289, 13-17.	1.0	11
71	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.	1.2	11
72	Characterization of C-Kit (CD117) Expression in Human Normal Pituitary Cells and Pituitary Adenomas. <i>Endocrine Pathology</i> , 2008, 19, 104-111.	5.2	11

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73	Analysis of Hyaluronan Synthase Activity. <i>Methods in Molecular Biology</i> , 2015, 1229, 201-208.	0.4	11
74	Localization of Carboxyl Ester Lipase in Human Pituitary Gland and Pituitary Adenomas. <i>Journal of Histochemistry and Cytochemistry</i> , 2010, 58, 881-889.	1.3	10
75	The Secreted Protein C10orf118 Is a New Regulator of Hyaluronan Synthesis Involved in Tumour-Stroma Cross-Talk. <i>Cancers</i> , 2021, 13, 1105.	1.7	10
76	Hyaluronan: A Neuroimmune Modulator in the Microbiota-Gut Axis. <i>Cells</i> , 2022, 11, 126.	1.8	10
77	Molecular cloning of mouse allantoicase cDNA. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001, 1519, 117-121.	2.4	9
78	Analysis of Glycosaminoglycans by Electrophoretic Approach. <i>Current Pharmaceutical Analysis</i> , 2008, 4, 78-89.	0.3	9
79	Cellular Microenvironment in Human Pathologies. <i>BioMed Research International</i> , 2013, 2013, 1-2.	0.9	9
80	HA and HS Changes in Endothelial Inflammatory Activation. <i>Biomolecules</i> , 2021, 11, 809.	1.8	8
81	Selective Pressure on the Allantoicase Gene During Vertebrate Evolution. <i>Journal of Molecular Evolution</i> , 2003, 57, 650-658.	0.8	7
82	Platinum Toxicity and Gene Expression in <i>Xenopus</i> Embryos: Analysis by FETAX and Differential Display. <i>ATLA Alternatives To Laboratory Animals</i> , 2003, 31, 401-408.	0.7	7
83	Aortic Smooth Muscle Cells Migration and the Role of Metalloproteinases and Hyaluronan. <i>Connective Tissue Research</i> , 2008, 49, 189-192.	1.1	7
84	Molecular interactions in extracellular matrix of tendon. <i>Frontiers in Bioscience - Elite</i> , 2010, E2, 1-12.	0.9	7
85	Endometrial cancer cells can express fibrinogen: Immunohistochemistry and RT-PCR analysis. <i>Journal of Obstetrics and Gynaecology</i> , 2016, 36, 353-358.	0.4	7
86	The plant alkaloid conophylline inhibits matrix formation of fibroblasts. <i>Journal of Biological Chemistry</i> , 2018, 293, 20214-20226.	1.6	6
87	Gastrointestinal cancers reactive for the PAb416 antibody against JCV/SV40 T-Ag lack JCV DNA sequences while showing a distinctive pathologic profile. <i>Journal of Clinical Pathology</i> , 2013, 66, 44-49.	1.0	4
88	The hyaluronan-related genes HAS2, HYAL1-4, PH20 and HYALP1 are associated with prognosis, cell viability and spheroid formation capacity in ovarian cancer. <i>Journal of Cancer Research and Clinical Oncology</i> , 2022, 148, 3399-3419.	1.2	4
89	Identification and molecular cloning of <i>Xenopus laevis</i> SP22, a protein associated with fertilization in mammals. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 132, 761-767.	0.7	3
90	A nutrient sentinel stands guard outside the cell. <i>Journal of Biological Chemistry</i> , 2018, 293, 16951-16952.	1.6	3

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91	Hyaluronan: Structure, Metabolism, and Biological Properties. <i>Biologically-inspired Systems</i> , 2019, , 155-186.	0.4	3
92	The long non-coding RNA HAS2-AS1 enhances the transcription of hyaluronan synthase 2 (1005.1). <i>FASEB Journal</i> , 2014, 28, 1005.1.	0.2	2
93	Paper 261: Gene Expression and Protein Analysis in Ruptured Human Achilles Tendons. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012, 28, e490-e491.	1.3	1
94	O-GlcNAcylation and hyaluronan synthesis. <i>FASEB Journal</i> , 2012, 26, 795.3.	0.2	1
95	2.2 Metabolic control of hyaluronan synthesis. , 2012, , 26-38.		0
96	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
97	A Nonradioactive Method to Measure Hyaluronan Activity. <i>Methods in Molecular Biology</i> , 2022, 2303, 63-70.	0.4	0
98	GENE EXPRESSION IN XENOPUS EMBRYOS AFTER METHYLMERCURY EXPOSURE: A SEARCH FOR MOLECULAR BIOMARKERS. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2731.	2.2	0
99	Hyaluronan synthesis is controlled through protein O-GlcNAcylation in vascular smooth muscle cells. <i>FASEB Journal</i> , 2011, 25, lb124.	0.2	0
100	HYALURONAN SYNTHESIS IS REGULATED BY INTRACELLULAR O-GLCNACYLATION OF HAS 2. <i>FASEB Journal</i> , 2013, 27, 829.6.	0.2	0