

John R Couchman

List of Publications by Year in descending order

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79
papers

7,850
citations

46984

47
h-index

79644

73
g-index

79
all docs

79
docs citations

79
times ranked

7242
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping by monoclonal antibody detection of glycosaminoglycans in connective tissues. <i>Nature</i> , 1984, 307, 650-652.	13.7	403
2	RhoGDI: multiple functions in the regulation of Rho family GTPase activities. <i>Biochemical Journal</i> , 2005, 390, 1-9.	1.7	383
3	Syndecans: proteoglycan regulators of cell-surface microdomains?. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 926-938.	16.1	375
4	Transmembrane Signaling Proteoglycans. <i>Annual Review of Cell and Developmental Biology</i> , 2010, 26, 89-114.	4.0	342
5	EphB/Syndecan-2 Signaling in Dendritic Spine Morphogenesis. <i>Neuron</i> , 2001, 31, 1001-1013.	3.8	291
6	Syndecans in wound healing, inflammation and vascular biology. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 505-528.	1.2	266
7	The Rho kinases I and II regulate different aspects of myosin II activity. <i>Journal of Cell Biology</i> , 2005, 170, 443-453.	2.3	262
8	Syndecan-4 Proteoglycan Regulates the Distribution and Activity of Protein Kinase C. <i>Journal of Biological Chemistry</i> , 1997, 272, 8133-8136.	1.6	260
9	Proteoglycans in health and disease: the multiple roles of syndecan shedding. <i>FEBS Journal</i> , 2010, 277, 3876-3889.	2.2	260
10	Syndecans as receptors and organizers of the extracellular matrix. <i>Cell and Tissue Research</i> , 2010, 339, 31-46.	1.5	240
11	Syndecans " key regulators of cell signaling and biological functions. <i>FEBS Journal</i> , 2017, 284, 27-41.	2.2	217
12	Syndecan-4 Binding to the High Affinity Heparin-Binding Domain of Fibronectin Drives Focal Adhesion Formation in Fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2000, 374, 66-72.	1.4	203
13	Multimerization of the Cytoplasmic Domain of Syndecan-4 Is Required for Its Ability to Activate Protein Kinase C. <i>Journal of Biological Chemistry</i> , 1997, 272, 11805-11811.	1.6	192
14	Syndecans: synergistic activators of cell adhesion. <i>Trends in Cell Biology</i> , 1998, 8, 189-192.	3.6	183
15	Syndecan-4 Proteoglycan Cytoplasmic Domain and Phosphatidylinositol 4,5-Bisphosphate Coordinately Regulate Protein Kinase C Activity. <i>Journal of Biological Chemistry</i> , 1998, 273, 10624-10629.	1.6	178
16	An Introduction to Proteoglycans and Their Localization. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 885-897.	1.3	153
17	Regulation of cytoskeletal organization by syndecan transmembrane proteoglycans. <i>Matrix Biology</i> , 2003, 22, 25-33.	1.5	152
18	Syndecans as cell surface receptors: Unique structure equates with functional diversity. <i>Matrix Biology</i> , 2011, 30, 93-99.	1.5	144

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19	Extracellular matrix component signaling in cancer. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 28-40.	6.6	140
20	Mapping of matrix metalloproteinase cleavage sites on syndecan ¹ and syndecan ⁴ ectodomains. <i>FEBS Journal</i> , 2013, 280, 2320-2331.	2.2	128
21	Syndecans and cell adhesion. <i>International Review of Cytology</i> , 2001, 207, 113-150.	6.2	119
22	PKC δ -dependent activation of RhoA by syndecan-4 during focal adhesion formation. <i>Journal of Cell Science</i> , 2006, 119, 2837-2846.	1.2	118
23	Syndecan-1 and Syndecan-4 Are Independent Indicators in Breast Carcinoma. <i>Journal of Histochemistry and Cytochemistry</i> , 2011, 59, 615-629.	1.3	114
24	Direct Binding of Syndecan-4 Cytoplasmic Domain to the Catalytic Domain of Protein Kinase C δ (PKC δ) Increases Focal Adhesion Localization of PKC δ . <i>Journal of Biological Chemistry</i> , 2003, 278, 13795-13802.	1.6	107
25	Heparan Sulfate Chains from Glypican and Syndecans Bind the Hep II Domain of Fibronectin Similarly Despite Minor Structural Differences. <i>Journal of Biological Chemistry</i> , 2000, 275, 9410-9417.	1.6	103
26	Breast and Ovarian Cancers. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 9-21.	1.3	103
27	ADAM12/Syndecan-4 Signaling Promotes β 1-Integrin-dependent Cell Spreading through Protein Kinase C δ and RhoA. <i>Journal of Biological Chemistry</i> , 2003, 278, 9576-9584.	1.6	101
28	Syndecan-4 Associates with β -Actinin. <i>Journal of Biological Chemistry</i> , 2003, 278, 7617-7623.	1.6	100
29	Commercial Antibodies: The Good, Bad, and Really Ugly. <i>Journal of Histochemistry and Cytochemistry</i> , 2009, 57, 7-8.	1.3	96
30	Insights into the key roles of proteoglycans in breast cancer biology and translational medicine. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2015, 1855, 276-300.	3.3	96
31	Fell μ Muir Lecture: Syndecans: from peripheral coreceptors to mainstream regulators of cell behaviour. <i>International Journal of Experimental Pathology</i> , 2015, 96, 1-10.	0.6	93
32	Syndecans, signaling, and cell adhesion. , 1996, 61, 578-584.		89
33	Transmembrane proteoglycans control stretch-activated channels to set cytosolic calcium levels. <i>Journal of Cell Biology</i> , 2015, 210, 1199-1211.	2.3	88
34	Solution Structure of a Syndecan-4 Cytoplasmic Domain and Its Interaction with Phosphatidylinositol 4,5-Bisphosphate. <i>Journal of Biological Chemistry</i> , 1998, 273, 13022-13029.	1.6	86
35	Syndecan-2 is a novel ligand for the protein tyrosine phosphatase receptor CD148. <i>Molecular Biology of the Cell</i> , 2011, 22, 3609-3624.	0.9	84
36	Structural Basis of Syndecan-4 Phosphorylation as a Molecular Switch to Regulate Signaling. <i>Journal of Molecular Biology</i> , 2006, 355, 651-663.	2.0	82

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37	Cell adhesion to fibrillin-1: identification of an Arg-Gly-Asp-dependent synergy region and a heparin-binding site that regulates focal adhesion formation. <i>Journal of Cell Science</i> , 2007, 120, 1383-1392.	1.2	81
38	An Epidermal MicroRNA Regulates Neuronal Migration Through Control of the Cellular Glycosylation State. <i>Science</i> , 2013, 341, 1404-1408.	6.0	73
39	Serine 34 Phosphorylation of Rho Guanine Dissociation Inhibitor (RhoGDI±) Links Signaling from Conventional Protein Kinase C to RhoGTPase in Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2010, 285, 23296-23308.	1.6	71
40	Heparan Sulfate Chain Valency Controls Syndecan-4 Function in Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2010, 285, 14247-14258.	1.6	70
41	Cell surface heparan sulfate proteoglycans control adhesion and invasion of breast carcinoma cells. <i>Molecular Cancer</i> , 2015, 14, 15.	7.9	69
42	Syndecans promote integrin-mediated adhesion of mesenchymal cells in two distinct pathways. <i>Experimental Cell Research</i> , 2007, 313, 3902-3913.	1.2	68
43	Minireview: Syndecans and their crucial roles during tissue regeneration. <i>FEBS Letters</i> , 2016, 590, 2408-2417.	1.3	65
44	Cellular Adhesion Responses to the Heparin-binding (HepII) Domain of Fibronectin Require Heparan Sulfate with Specific Properties. <i>Journal of Biological Chemistry</i> , 2007, 282, 3221-3230.	1.6	61
45	Two Distinct Sites in Sonic Hedgehog Combine for Heparan Sulfate Interactions and Cell Signaling Functions. <i>Journal of Biological Chemistry</i> , 2011, 286, 44391-44402.	1.6	57
46	The newcomer in the integrin family: Integrin $\alpha 9$ in biology and cancer. <i>Advances in Biological Regulation</i> , 2012, 52, 326-339.	1.4	55
47	Heparan Sulfate Regulates Fibrillin-1 N- and C-terminal Interactions. <i>Journal of Biological Chemistry</i> , 2008, 283, 27017-27027.	1.6	50
48	Regulation of Inositol Phospholipid Binding and Signaling through Syndecan-4. <i>Journal of Biological Chemistry</i> , 2002, 277, 49296-49303.	1.6	49
49	Wnt Signaling Cascades and the Roles of Syndecan Proteoglycans. <i>Journal of Histochemistry and Cytochemistry</i> , 2015, 63, 465-480.	1.3	49
50	Solution Structure of the Dimeric Cytoplasmic Domain of Syndecan-4. <i>Biochemistry</i> , 2001, 40, 8471-8478.	1.2	48
51	Cell-extracellular matrix and cell-cell adhesion are linked by syndecan-4. <i>Matrix Biology</i> , 2017, 60-61, 57-69.	1.5	47
52	Syndecan-4 up-regulation in proliferative renal disease is related to microfilament organization. <i>FASEB Journal</i> , 2001, 15, 1631-1633.	0.2	45
53	A Conserved NXIP Motif Is Required for Cell Adhesion Properties of the Syndecan-4 Ectodomain*. <i>Journal of Biological Chemistry</i> , 2006, 281, 32156-32163.	1.6	43
54	Heparan Sulfate Biosynthesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 908-915.	1.3	43

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55	Î±9Î²1 Integrin in melanoma cells can signal different adhesion states for migration and anchorage. <i>Experimental Cell Research</i> , 2009, 315, 3312-3324.	1.2	40
56	Syndecan-2 regulation of morphology in breast carcinoma cells is dependent on RhoGTPases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2482-2490.	1.1	39
57	Recent Insights into Cell Surface Heparan Sulphate Proteoglycans and Cancer. <i>F1000Research</i> , 2016, 5, 1541.	0.8	38
58	Proteoglycans, ion channels and cellâ€“matrix adhesion. <i>Biochemical Journal</i> , 2017, 474, 1965-1979.	1.7	36
59	Heparan Sulfate Regulates ADAM12 through a Molecular Switch Mechanism. <i>Journal of Biological Chemistry</i> , 2008, 283, 31920-31932.	1.6	34
60	Syndecan-1 (CD138), Carcinomas and EMT. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4227.	1.8	34
61	Hierarchy of ADAM12 binding to integrins in tumor cells. <i>Experimental Cell Research</i> , 2005, 309, 438-450.	1.2	33
62	Structural and Cell Adhesion Properties of Zebrafish Syndecan-4 Are Shared with Higher Vertebrates. <i>Journal of Biological Chemistry</i> , 2008, 283, 29322-29330.	1.6	33
63	IGF-IR cooperates with ERÎ± to inhibit breast cancer cell aggressiveness by regulating the expression and localisation of ECM molecules. <i>Scientific Reports</i> , 2017, 7, 40138.	1.6	29
64	Syndecan receptors: pericellular regulators in development and inflammatory disease. <i>Open Biology</i> , 2021, 11, 200377.	1.5	29
65	A Collapsin Response Mediator Protein 2 Isoform Controls Myosin II-Mediated Cell Migration and Matrix Assembly by Trapping ROCK II. <i>Molecular and Cellular Biology</i> , 2012, 32, 1788-1804.	1.1	20
66	Calcium in Cell-Extracellular Matrix Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1131, 1079-1102.	0.8	19
67	New structural insight of C-terminal region of Syntenin-1, enhancing the molecular dimerization and inhibitory function related on Syndecan-4 signaling. <i>Scientific Reports</i> , 2016, 6, 36818.	1.6	18
68	Phosphorylation and mRNA Splicing of Collapsin Response Mediator Protein-2 Determine Inhibition of Rho-associated Protein Kinase (ROCK) II Function in Carcinoma Cell Migration and Invasion. <i>Journal of Biological Chemistry</i> , 2013, 288, 31229-31240.	1.6	17
69	Keratinocytes negatively regulate the N-cadherin levels of melanoma cells via contact-mediated calcium regulation. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 615-620.	1.0	10
70	The Phosphorylation and Distribution of Cortactin Downstream of Integrin Î±9Î²1 Affects Cancer Cell Behaviour. <i>Scientific Reports</i> , 2016, 6, 28529.	1.6	8
71	Redefining the role of syndecans in <i>C. elegans</i> biology. <i>Worm</i> , 2016, 5, e1142042.	1.0	5
72	Proteoglycan Isolation and Analysis. <i>Current Protocols in Cell Biology</i> , 2018, 80, e59.	2.3	4

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73	Immunological and molecular approaches to the study of basement membrane proteoglycan diversity. <i>Biochemical Society Transactions</i> , 1990, 18, 819-820.	1.6	3
74	8.6 Targeting syndecan shedding in cancer. , 0, , .		3
75	3.6 Structure and function of syndecans. , 0, , .		2
76	Syndecan Heparan Sulfate Proteoglycans: Regulation, Signaling and Impact on Tumor Biology. <i>Trends in Glycoscience and Glycotechnology</i> , 2016, 28, E79-E90.	0.0	1
77	5.5 Syndecans as receptors for pericellular molecules. , 0, , .		0
78	Syndecan Heparan Sulfate Proteoglycans: Regulation, Signaling and Impact on Tumor Biology. <i>Trends in Glycoscience and Glycotechnology</i> , 2016, 28, J77-J88.	0.0	0
79	Transforming growth factor- β 2 activation in cell-free extracellular matrix preparations. Commentary. <i>Folia Histochemica Et Cytobiologica</i> , 2020, 57, 157-158.	0.6	0