Catherine L R Merry

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Epithelial-Mesenchymal Transition Events during Human Embryonic Stem Cell Differentiation. Cancer Research, 2007, 67, 11254-11262.	0.9	251
2	The heparanomeâ€"The enigma of encoding and decoding heparan sulfate sulfation. Journal of Biotechnology, 2007, 129, 290-307.	3.8	165
3	The Molecular Phenotype of Heparan Sulfate in theHs2stâˆ'/âˆ' Mutant Mouse. Journal of Biological Chemistry, 2001, 276, 35429-35434.	3.4	155
4	Microheterogeneity of Erythropoietin Carbohydrate Structure. Analytical Chemistry, 1995, 67, 1442-1452.	6.5	153
5	Neuropathology in Mouse Models of Mucopolysaccharidosis Type I, IIIA and IIIB. PLoS ONE, 2012, 7, e35787.	2.5	148
6	Not All Perlecans Are Created Equal. Journal of Biological Chemistry, 2002, 277, 14657-14665.	3.4	139
7	Essential Alterations of Heparan Sulfate During the Differentiation of Embryonic Stem Cells to Sox1-Enhanced Green Fluorescent Protein-Expressing Neural Progenitor Cells. Stem Cells, 2007, 25, 1913-1923.	3.2	126
8	A New Model for the Domain Structure of Heparan Sulfate Based on the Novel Specificity of K5 Lyase. Journal of Biological Chemistry, 2004, 279, 27239-27245.	3.4	117
9	Heparan sulfate 6-O-endosulfatases: discrete in vivo activities and functional co-operativity. Biochemical Journal, 2006, 400, 63-73.	3.7	117
10	Highly Sensitive Sequencing of the Sulfated Domains of Heparan Sulfate. Journal of Biological Chemistry, 1999, 274, 18455-18462.	3.4	116
11	Abrogation of E-Cadherin-Mediated Cellâ€"Cell Contact in Mouse Embryonic Stem Cells Results in Reversible LIF-Independent Self-Renewal. Stem Cells, 2009, 27, 2069-2080.	3.2	110
12	Mapping the Differential Distribution of Glycosaminoglycans in the Adult Human Retina, Choroid, and Sclera. , 2011, 52, 6511.		103
13	E-Cadherin Inhibits Cell Surface Localization of the Pro-Migratory 5T4 Oncofetal Antigen in Mouse Embryonic Stem Cells. Molecular Biology of the Cell, 2007, 18, 2838-2851.	2.1	101
14	Self-assembling peptide hydrogel for intervertebral disc tissue engineering. Acta Biomaterialia, 2016, 46, 29-40.	8.3	98
15	Myeloid/Microglial Driven Autologous Hematopoietic Stem Cell Gene Therapy Corrects a Neuronopathic Lysosomal Disease. Molecular Therapy, 2013, 21, 1938-1949.	8.2	96
16	Hematopoietic Stem Cell and Gene Therapy Corrects Primary Neuropathology and Behavior in Mucopolysaccharidosis IIIA Mice. Molecular Therapy, 2012, 20, 1610-1621.	8.2	94
17	Three-dimensional culture of annulus fibrosus cells within PDLLA/BioglassÂ® composite foam scaffolds: Assessment of cell attachment, proliferation and extracellular matrix production. Biomaterials, 2007, 28, 2010-2020.	11.4	72
18	Specific Glycosaminoglycans Modulate Neural Specification of Mouse Embryonic Stem Cells. Stem Cells, 2011, 29, 629-640.	3.2	68

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19	E-cadherin and, in Its Absence, N-cadherin Promotes Nanog Expression in Mouse Embryonic Stem Cells via STAT3 Phosphorylation. Stem Cells, 2012, 30, 1842-1851.	3.2	66
20	Age-Dependent Changes in Heparan Sulfate in Human Bruch's Membrane: Implications for Age-Related Macular Degeneration. , 2014, 55, 5370.		60
21	Glycosaminoglycans as regulators of stem cell differentiation. Biochemical Society Transactions, 2011, 39, 383-387.	3.4	59
22	Mucopolysaccharidosis Type I, Unique Structure of Accumulated Heparan Sulfate and Increased N-Sulfotransferase Activity in Mice Lacking Î±-l-iduronidase. Journal of Biological Chemistry, 2011, 286, 37515-37524.	3.4	58
23	Controlling stiffness in nanostructured hydrogels produced by enzymatic dephosphorylation. Biochemical Society Transactions, 2009, 37, 660-664.	3.4	57
24	Influencing Hematopoietic Differentiation of Mouse Embryonic Stem Cells using Soluble Heparin and Heparan Sulfate Saccharides. Journal of Biological Chemistry, 2011, 286, 6241-6252.	3.4	44
25	A Developmentally Regulated Heparan Sulfate Epitope Defines a Subpopulation with Increased Blood Potential During Mesodermal Differentiation. Stem Cells, 2008, 26, 3108-3118.	3.2	43
26	Immobilization of Heparan Sulfate on Electrospun Meshes to Support Embryonic Stem Cell Culture and Differentiation *. Journal of Biological Chemistry, 2013, 288, 5530-5538.	3.4	41
27	Comparative Quantification of the Surfaceome of Human Multipotent Mesenchymal Progenitor Cells. Stem Cell Reports, 2015, 4, 473-488.	4.8	40
28	Binding of endostatin to endothelial heparan sulphate shows a differential requirement for specific sulphates. Biochemical Journal, 2003, 375, 131-139.	3.7	39
29	Role of heparan sulfate-2-O-sulfotransferase in the mouse. Biochimica Et Biophysica Acta - General Subjects, 2002, 1573, 319-327.	2.4	37
30	Heparan Sulfate Inhibits Hematopoietic Stem and Progenitor Cell Migration and Engraftment in Mucopolysaccharidosis I. Journal of Biological Chemistry, 2014, 289, 36194-36203.	3.4	34
31	Controlling cell morphology on amino acid-modified cellulose. Soft Matter, 2008, 4, 1059.	2.7	31
32	Epithelial-mesenchymal status influences how cells deposit fibrillin microfibrils. Journal of Cell Science, 2014, 127, 158-71.	2.0	31
33	Regulation of vascular smooth muscle cell calcification by syndecan-4/FGF-2/PKCÎ± signalling and cross-talk with TGFÎ². Cardiovascular Research, 2017, 113, 1639-1652.	3.8	31
34	The Good the Bad and the Ugly of Glycosaminoglycans in Tissue Engineering Applications. Pharmaceuticals, 2017, 10, 54.	3.8	30
35	Heparan sulfate 2-O-sulfotransferase (Hs2st) and mouse development. Glycoconjugate Journal, 2002, 19, 347-354.	2.7	28
36	NDST2 (N-Deacetylase/N-Sulfotransferase-2) Enzyme Regulates Heparan Sulfate Chain Length. Journal of Biological Chemistry, 2016, 291, 18600-18607.	3.4	28

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37	E-Cadherin Acts as a Regulator of Transcripts Associated with a Wide Range of Cellular Processes in Mouse Embryonic Stem Cells. PLoS ONE, 2011, 6, e21463.	2.5	26
38	Growth Differentiation Factor 5-Mediated Enhancement of Chondrocyte Phenotype Is Inhibited by Heparin: Implications for the Use of Heparin in the Clinic and in Tissue Engineering Applications. Tissue Engineering - Part A, 2017, 23, 275-292.	3.1	25
39	Leriâ€™s pleonosteosis, a congenital rheumatic disease, results from microduplication at 8q22.1 encompassing<i>GDF6</i>and<i>SDC2</i>and provides insight into systemic sclerosis pathogenesis. Annals of the Rheumatic Diseases, 2015, 74, 1249-1256.	0.9	22
40	Detection of 2-O-Sulfated Iduronate and N-Acetylglucosamine Units in Heparan Sulfate by an Antibody Selected against Acharan Sulfate (IdoA2S-GlcNAc). Journal of Biological Chemistry, 2004, 279, 38346-38352.	3.4	21
41	New strategies for cartilage regeneration exploiting selected glycosaminoglycans to enhance cell fate determination. Biochemical Society Transactions, 2014, 42, 703-709.	3.4	17
42	Human serum-derived protein removes the need for coating in defined human pluripotent stem cell culture. Nature Communications, 2016, 7, 12170.	12.8	17
43	Using embryonic stem cells to understand how glycosaminoglycans regulate differentiation. Biochemical Society Transactions, 2014, 42, 689-695.	3.4	16
44	Comparative epigenetic analysis of tumour initiating cells and syngeneic EPSC-derived neural stem cells in glioblastoma. Nature Communications, 2021, 12, 6130.	12.8	14
45	High sensitivity analysis of nanogram quantities of glycosaminoglycans using ToF-SIMS. Communications Chemistry, 2021, 4, .	4.5	13
46	Sugar functionalised PEGA surfaces support metabolically active hepatocytes. Journal of Materials Chemistry, 2011, 21, 2901.	6.7	11
47	Bi-allelic Pathogenic Variants in HS2ST1 Cause a Syndrome Characterized by Developmental Delay and Corpus Callosum, Skeletal, and Renal Abnormalities. American Journal of Human Genetics, 2020, 107, 1044-1061.	6.2	11
48	Glycoscience finally comes of age. EMBO Reports, 2005, 6, 900-903.	4.5	8
49	The Morphogenic Properties of Oligomeric Endostatin Are Dependent on Cell Surface Heparan Sulfate. Journal of Biological Chemistry, 2006, 281, 14813-14822.	3.4	7
50	<scp>3D</scp> hydrogels reveal medulloblastoma subgroup differences and identify extracellular matrix subtypes that predict patient outcome. Journal of Pathology, 2021, 253, 326-338.	4.5	6
51	Novel Cell Lines Isolated From Mouse Embryonic Stem Cells Exhibiting De Novo Methylation of the E-Cadherin Promoter. Stem Cells, 2014, 32, 2869-2879.	3.2	5
52	Selective Inhibition of Heparan Sulphate and Not Chondroitin Sulphate Biosynthesis by a Small, Soluble Competitive Inhibitor. International Journal of Molecular Sciences, 2021, 22, 6988.	4.1	4
53	Exciting New Developments and Emerging Themes in Glycosaminoglycan Research. Journal of Histochemistry and Cytochemistry, 2021, 69, 9-11.	2.5	2
54	The biochemical determinants of tissue regeneration. Biochemical Society Transactions, 2014, 42, 607-608.	3.4	1

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55	The differentiation of ES cells into neuroectodermal precursors is associated with an increase in the levels and sulfation of heparan sulfate proteoglycans. International Journal of Experimental Pathology, 2004, 85, A65-A66.	1.3	0
56	New insights into the alternating sequences of heparan sulfate. International Journal of Experimental Pathology, 2004, 85, A71-A71.	1.3	0
57	MBRS-43. MODELLING MEDULLOBLASTOMA INVASION AND CHEMORESISTANCE IN A 3D HYALURONAN HYDROGEL SYSTEM. Neuro-Oncology, 2018, 20, i137-i137.	1.2	0