Yu Yamaguchi

List of Publications by Year
in descending order

37 papers	1,830 citations	361413 20 h-index	414414 32 g-index
48 all docs	48 docs citations	48 times ranked	2733 citing authors

#	Article	IF	Citations
1	Mammalian Brain Morphogenesis and Midline Axon Guidance Require Heparan Sulfate. Science, 2003, 302, 1044-1046.	12.6	387
2	Autism-like socio-communicative deficits and stereotypies in mice lacking heparan sulfate. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5052-5056.	7.1	135
3	Conditional inactivation of<i>Has2</i>reveals a crucial role for hyaluronan in skeletal growth, patterning, chondrocyte maturation and joint formation in the developing limb. Development (Cambridge), 2009, 136, 2825-2835.	2.5	125
4	A mammalian homolog of the zebrafish transmembrane protein 2 (TMEM2) is the long-sought-after cell-surface hyaluronidase. Journal of Biological Chemistry, 2017, 292, 7304-7313.	3.4	125
5	Hyaluronan Deficiency Due to<i>Has3</i>Knock-Out Causes Altered Neuronal Activity and Seizures via Reduction in Brain Extracellular Space. Journal of Neuroscience, 2014, 34, 6164-6176.	3.6	120
6	Neuronal heparan sulfates promote amyloid pathology by modulating brain amyloid-Î² clearance and aggregation in Alzheimerâ€™s disease. Science Translational Medicine, 2016, 8, 332ra44.	12.4	115
7	A mouse model of chondrocyte-specific somatic mutation reveals a role for <i>Ext1</i> loss of heterozygosity in multiple hereditary exostoses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10932-10937.	7.1	72
8	TMEM2: A missing link in hyaluronan catabolism identified?. Matrix Biology, 2019, 78-79, 139-146.	3.6	69
9	Compound heterozygous loss of Ext1 and Ext2 is sufficient for formation of multiple exostoses in mouse ribs and long bones. Bone, 2011, 48, 979-987.	2.9	57
10	Conditional Ablation of the Heparan Sulfate-synthesizing Enzyme Ext1 Leads to Dysregulation of Bone Morphogenic Protein Signaling and Severe Skeletal Defects. Journal of Biological Chemistry, 2010, 285, 19227-19234.	3.4	56
11	Perichondrium phenotype and border function are regulated by Ext1 and heparan sulfate in developing long bones: A mechanism likely deranged in Hereditary Multiple Exostoses. Developmental Biology, 2013, 377, 100-112.	2.0	56
12	Hyaluronan Rich Microenvironment in the Limbal Stem Cell Niche Regulates Limbal Stem Cell Differentiation. , 2017, 58, 4407.		50
13	Cardiac Hyaluronan Synthesis Is Critically Involved in the Cardiac Macrophage Response and Promotes Healing After Ischemia Reperfusion Injury. Circulation Research, 2019, 124, 1433-1447.	4.5	47
14	Inhibiting stromal cell heparan sulfate synthesis improves stem cell mobilization and enables engraftment without cytotoxic conditioning. Blood, 2014, 124, 2937-2947.	1.4	39
15	Brain extracellular space, hyaluronan, and the prevention of epileptic seizures. Reviews in the Neurosciences, 2017, 28, 869-892.	2.9	39
16	Roles of Heparan Sulfate in Mammalian Brain Development. Progress in Molecular Biology and Translational Science, 2010, 93, 133-152.	1.7	38
17	Loss of Corneal Epithelial Heparan Sulfate Leads to Corneal Degeneration and Impaired Wound Healing. , 2015, 56, 3004.		36
18	Aberrant perichondrial BMP signaling mediates multiple osteochondromagenesis in mice. JCI Insight, 2017, 2, .	5.0	31

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19	Hepatocyte Heparan Sulfate Is Required for Adeno-Associated Virus 2 but Dispensable for Adenovirus 5 Liver Transduction In Vivo. Journal of Virology, 2016, 90, 412-420.	3.4	30
20	Palovarotene Inhibits Osteochondroma Formation in a Mouse Model of Multiple Hereditary Exostoses. Journal of Bone and Mineral Research, 2018, 33, 658-666.	2.8	30
21	4-Methylumbelliferone improves the thermogenic capacity of brown adipose tissue. Nature Metabolism, 2019, 1, 546-559.	11.9	26
22	The cell surface hyaluronidase TMEM2 regulates cell adhesion and migration via degradation of hyaluronan at focal adhesion sites. Journal of Biological Chemistry, 2021, 296, 100481.	3.4	24
23	The cell surface hyaluronidase TMEM2 is essential for systemic hyaluronan catabolism and turnover. Journal of Biological Chemistry, 2021, 297, 101281.	3.4	24
24	Osteoblastic heparan sulfate regulates osteoprotegerin function and bone mass. JCI Insight, 2018, 3, .	5.0	23
25	Esophageal Squamous Cell Carcinoma Cells Modulate Chemokine Expression and Hyaluronan Synthesis in Fibroblasts. Journal of Biological Chemistry, 2016, 291, 4091-4106.	3.4	14
26	The versican-hyaluronan complex provides an essential extracellular matrix niche for Flk1+ hematoendothelial progenitors. Matrix Biology, 2021, 97, 40-57.	3.6	14
27	Heparan sulfate deficiency leads to hypertrophic chondrocytes by increasing bone morphogenetic protein signaling. Osteoarthritis and Cartilage, 2020, 28, 1459-1470.	1.3	9
28	Heparan sulfate is essential for thymus growth. Journal of Biological Chemistry, 2021, 296, 100419.	3.4	7
29	Heparan sulfate promotes differentiation of white adipocytes to maintain insulin sensitivity and glucose homeostasis. Journal of Biological Chemistry, 2021, 297, 101006.	3.4	7
30	Heparan sulfate in pancreatic Î²-cells contributes to normal glucose homeostasis by regulating insulin secretion. Biochemical and Biophysical Research Communications, 2018, 499, 688-695.	2.1	6
31	Heparan sulfate controls skeletal muscle differentiation and motor functions. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129707.	2.4	6
32	The cell surface hyaluronidase TMEM2 plays an essential role in mouse neural crest cell development and survival. PLoS Genetics, 2022, 18, e1009765.	3.5	6
33	Integrity of White Matter is Compromised in Mice with Hyaluronan Deficiency. Neurochemical Research, 2020, 45, 53-67.	3.3	4
34	Endothelial cell-specific reduction of heparan sulfate suppresses glioma growth in mice. Discover Oncology, 2021, 12, 50.	2.1	3
35	Hyaluronan Associated with the Bone Marrow Hematopoietic Microenvironment Is Required for the Recruitment and Retention of Hematopoietic Stem and Progenitor Cells In the Bone Marrow.. Blood, 2010, 116, 2593-2593.	1.4	0
36	Hyaluronan Expressed by Bone Marrow Mesenchymal Cells Regulates Functions of the Hematopoietic Microenvironment. Blood, 2012, 120, 1243-1243.	1.4	0

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37	Heparan sulfate promotes the differentiation of muscle cells and contributes to maintain motor function in miceÂ. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2020, 93, 2-YIA-37.	0.0	0