

# Anthony J Hayes

## List of Publications by Year in descending order

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78  
papers

3,680  
citations

126907

33  
h-index

138484

58  
g-index

78  
all docs

78  
docs citations

78  
times ranked

5111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pentosan Polysulfate, a Semisynthetic Heparinoid Disease-Modifying Osteoarthritic Drug with Roles in Intervertebral Disc Repair Biology Emulating the Stem Cell Instructive and Tissue Reparative Properties of Heparan Sulfate. <i>Stem Cells and Development</i> , 2022, 31, 406-430.	2.1	5
2	Regulation of FGF-2, FGF-18 and Transcription Factor Activity by Perlecan in the Maturation Development of Transitional Rudiment and Growth Plate Cartilages and in the Maintenance of Permanent Cartilage Homeostasis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1934.	4.1	12
3	Perlecan, A Multi-Functional, Cell-Instructive, Matrix-Stabilizing Proteoglycan With Roles in Tissue Development Has Relevance to Connective Tissue Repair and Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 856261.	3.7	37
4	<sc>3D</sc> immunoconfocal image reconstruction of fibroblast cytoskeleton and nucleus architecture. <i>Journal of Biophotonics</i> , 2021, 14, e202000202.	2.3	3
5	Perlecan in Pericellular Mechanosensory Cell-Matrix Communication, Extracellular Matrix Stabilisation and Mechanoregulation of Load-Bearing Connective Tissues. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2716.	4.1	40
6	What Are the Potential Roles of Nuclear Perlecan and Other Heparan Sulphate Proteoglycans in the Normal and Malignant Phenotype. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4415.	4.1	7
7	The CNS/PNS Extracellular Matrix Provides Instructive Guidance Cues to Neural Cells and Neuroregulatory Proteins in Neural Development and Repair. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5583.	4.1	23
8	Neural Tissue Homeostasis and Repair Is Regulated via CS and DS Proteoglycan Motifs. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 696640.	3.7	21
9	Use of Chondroitin Sulphate to Aid In Vitro Stem Cell Differentiation. <i>Biology of Extracellular Matrix</i> , 2021, , 53-93.	0.3	1
10	Functional imaging of a model unicell: <i>Spironucleus vortens</i> as an anaerobic but aerotolerant flagellated protist. <i>Advances in Microbial Physiology</i> , 2020, 76, 41-79.	2.4	3
11	Electrostimulation, a Promising Therapeutic Treatment Modality for Tissue Repair: Emerging Roles of Sulfated Glycosaminoglycans as ElectroRegulatory Mediators of Intrinsic Repair Processes. <i>Advanced Therapeutics</i> , 2020, 3, 2000151.	3.2	12
12	Aggrecan, the Primary Weight-Bearing Cartilage Proteoglycan, Has Context-Dependent, Cell-Directive Properties in Embryonic Development and Neurogenesis: Aggrecan Glycan Side Chain Modifications Convey Interactive Biodiversity. <i>Biomolecules</i> , 2020, 10, 1244.	4.0	27
13	Immunolocalization of Keratan Sulfate in Rat Spinal Tissues Using the Keratanase Generated BKS-1(+) Neopeptide: Correlation of Expression Patterns with the Class II SLRPs, Lumican and Keratocan. <i>Cells</i> , 2020, 9, 826.	4.1	6
14	Chondroitin Sulfate as a Potential Modulator of the Stem Cell Niche in Cornea. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 567358.	3.7	10
15	Keratan Sulphate in the Tumour Environment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1245, 39-66.	1.6	8
16	Fluorescent functionalised naphthalimides and their Au( <i>scp</i> )@NHC complexes for potential use in cellular bioimaging. <i>Dalton Transactions</i> , 2019, 48, 1599-1612.	3.3	15
17	Glycosaminoglycan and Proteoglycan Biotherapeutics in Articular Cartilage Protection and Repair Strategies: Novel Approaches to Visco-supplementation in Orthobiologics. <i>Advanced Therapeutics</i> , 2019, 2, 1900034.	3.2	16
18	Defined covalent assembly of protein molecules on graphene using a genetically encoded photochemical reaction handle. <i>RSC Advances</i> , 2018, 8, 5768-5775.	3.6	8

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19	Concise Review: Stem/Progenitor Cell Proteoglycans Decorated with 7-D-4, 4-C-3, and 3-B-3(-) Chondroitin Sulfate Motifs Are Morphogenetic Markers of Tissue Development. <i>Stem Cells</i> , 2018, 36, 1475-1486.	3.2	18
20	Exploring the cellular uptake and localisation of phosphorescent rhenium $\text{Re}^{\text{I}}$ -tricarbonyl metallosurfactants as a function of lipophilicity. <i>Dalton Transactions</i> , 2018, 47, 14241-14253.	3.3	15
21	Glycans and glycosaminoglycans in neurobiology: key regulators of neuronal cell function and fate. <i>Biochemical Journal</i> , 2018, 475, 2511-2545.	3.7	46
22	Luminescent 1,8-Naphthalimide-Derived $\text{Re}^{\text{I}}$ Complexes: Syntheses, Spectroscopy, X-ray Structure and Preliminary Bioimaging in Fission Yeast Cells. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5279-5287.	2.0	19
23	Anticancer, Azonafide-Inspired Fluorescent Ligands and Their Rhenium(I) Complexes for Cellular Imaging. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 759-766.	2.0	12
24	Respiratory pathogen colonization of dental plaque, the lower airways, and endotracheal tube biofilms during mechanical ventilation. <i>Journal of Critical Care</i> , 2017, 37, 30-37.	2.2	73
25	The CS Sulfation Motifs 4C3, 7D4, 3B3[ $\alpha^*$ ]; and Perlecan Identify Stem Cell Populations and Their Niches, Activated Progenitor Cells and Transitional Areas of Tissue Development in the Fetal Human Elbow. <i>Stem Cells and Development</i> , 2016, 25, 836-847.	2.1	23
26	Motility of the diplomonad fish parasite <i>Spironucleus vortens</i> through thixotropic solid media. <i>Microbiology (United Kingdom)</i> , 2015, 161, 213-218.	1.8	5
27	Alkynyl-naphthalimide Fluorophores: Gold Coordination Chemistry and Cellular Imaging Applications. <i>Inorganic Chemistry</i> , 2015, 54, 6606-6615.	4.0	37
28	Water soluble, cyclometalated $\text{Pt}^{\text{II}}$ - $\text{Ln}^{\text{III}}$ conjugates towards novel bimodal imaging agents. <i>Chemical Communications</i> , 2015, 51, 12305-12308.	4.1	24
29	Intracellular oxygen: Similar results from two methods of measurement using phosphorescent nanoparticles. <i>Journal of Innovative Optical Health Sciences</i> , 2014, 07, 1350041.	1.0	7
30	Confocal microscopy demonstrates association of LTBP-2 in fibrillin-1 microfibrils and colocalisation with perlecan in the disc cell pericellular matrix. <i>Tissue and Cell</i> , 2014, 46, 185-197.	2.2	12
31	Fluorescent Rhenium-Naphthalimide Conjugates as Cellular Imaging Agents. <i>Inorganic Chemistry</i> , 2014, 53, 3788-3797.	4.0	56
32	Novel Nystatin A1 derivatives exhibiting low host cell toxicity and antifungal activity in an in vitro model of oral candidosis. <i>Medical Microbiology and Immunology</i> , 2014, 203, 341-355.	4.8	16
33	Biochemical composition and turnover of the extracellular matrix of the normal and degenerate intervertebral disc. <i>European Spine Journal</i> , 2014, 23, 344-353.	2.2	94
34	Comparative immunolocalisation of fibrillin-1 and perlecan in the human foetal, and HS-deficient hspg2 exon 3 null mutant mouse intervertebral disc. <i>Histochemistry and Cell Biology</i> , 2013, 139, 1-11.	1.7	17
35	The effect of beta-xylosides on the chondrogenic differentiation of mesenchymal stem cells. <i>Histochemistry and Cell Biology</i> , 2013, 139, 59-74.	1.7	9
36	Expression of glycosaminoglycan epitopes during zebrafish skeletogenesis. <i>Developmental Dynamics</i> , 2013, 242, 778-789.	1.8	8

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37	Mitochondria-derived organelles in the diplomonad fish parasite <i>Spironucleus vortens</i> . <i>Experimental Parasitology</i> , 2013, 135, 262-273.	1.2	15
38	Diversity in mitochondrion-derived organelles of the parasitic diplomonads <i>Spironucleus</i> and <i>Giardia</i> . <i>Trends in Parasitology</i> , 2013, 29, 311-312.	3.3	13
39	Spinal Deformity in Aged Zebrafish Is Accompanied by Degenerative Changes to Their Vertebrae that Resemble Osteoarthritis. <i>PLoS ONE</i> , 2013, 8, e75787.	2.5	64
40	Hyaline Cartilage Tissue Is Formed through the Co-culture of Passaged Human Chondrocytes and Primary Bovine Chondrocytes. <i>Journal of Histochemistry and Cytochemistry</i> , 2012, 60, 576-587.	2.5	10
41	Chondroitin sulphate and heparan sulphate sulphation motifs and their proteoglycans are involved in articular cartilage formation during human foetal knee joint development. <i>Histochemistry and Cell Biology</i> , 2012, 138, 461-475.	1.7	42
42	The visualisation and speed of kill of wound isolates on a silver alginate dressing. <i>International Wound Journal</i> , 2012, 9, 633-642.	2.9	27
43	A "Sleeping Trojan Horse"™ which transports metal ions into cells, localises in nucleoli, and has potential for bimodal fluorescence/PET imaging. <i>Chemical Communications</i> , 2011, 47, 3096.	4.1	48
44	Comparative Immunolocalization of the Elastin Fiber-Associated Proteins Fibrillin-1, LTBP-2, and MAGP-1 With Components of the Collagenous and Proteoglycan Matrix of the Fetal Human Intervertebral Disc. <i>Spine</i> , 2011, 36, E1365-E1372.	2.0	33
45	<i>Candida glabrata</i> and <i>Candida albicans</i> co-infection of an <i>in vitro</i> oral epithelium. <i>Journal of Oral Pathology and Medicine</i> , 2011, 40, 421-427.	2.7	86
46	The response of foetal annulus fibrosus cells to growth factors: modulation of matrix synthesis by TGF- $\beta$ 1 and IGF-1. <i>Histochemistry and Cell Biology</i> , 2011, 136, 163-175.	1.7	43
47	Colocalization <i>in vivo</i> and association <i>in vitro</i> of perlecan and elastin. <i>Histochemistry and Cell Biology</i> , 2011, 136, 437-454.	1.7	40
48	Suppression of leukocyte infiltration and cartilage degradation by selective inhibition of pre-B cell colony-enhancing factor/visfatin/nicotinamide phosphoribosyltransferase: Apo866-mediated therapy in human fibroblasts and murine collagen-induced arthritis. <i>Arthritis and Rheumatism</i> , 2011, 63, 1866-1877.	6.7	55
49	Type IX Collagen Interacts with Fibronectin Providing an Important Molecular Bridge in Articular Cartilage. <i>Journal of Biological Chemistry</i> , 2011, 286, 34986-34997.	3.4	35
50	Collagen fibrillogenesis in the development of the annulus fibrosus of the intervertebral disc. , 2011, 22, 226-241.		55
51	Uptake and localisation of rhenium fac-tricarbonyl polypyridyls in fluorescent cell imaging experiments. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3888.	2.8	92
52	Probing intracellular oxygen by quenched phosphorescence lifetimes of nanoparticles containing polyacrylamide-embedded [Ru(dpp(SO <sub>3</sub> Na) <sub>2</sub> ) <sub>3</sub> ]Cl <sub>2</sub> . <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 103-109.	2.9	56
53	Actin and Type I Collagen Propeptide Distribution in the Developing Chick Cornea. , 2009, 50, 1653.		14
54	Therapeutic Targeting of IL-6 <i>Trans</i> Signaling Counteracts STAT3 Control of Experimental Inflammatory Arthritis. <i>Journal of Immunology</i> , 2009, 182, 613-622.	0.8	185

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55	Perlecan, the "jack of all trades" proteoglycan of cartilaginous weight-bearing connective tissues. <i>BioEssays</i> , 2008, 30, 457-469.	2.5	69
56	Antibodies and immunohistochemistry in extracellular matrix research. <i>Methods</i> , 2008, 45, 10-21.	3.8	20
57	Long-term viability and proliferation of alginate-encapsulated 3-D HepG2 aggregates formed in an ultrasound trap. <i>Toxicology in Vitro</i> , 2008, 22, 1321-1331.	2.4	75
58	3-Chloromethylpyridyl bipyridine fac-tricarbonyl rhenium: a thiol-reactive luminophore for fluorescence microscopy accumulates in mitochondria. <i>New Journal of Chemistry</i> , 2008, 32, 1097.	2.8	147
59	Chondroitin Sulfate Sulfation Motifs as Putative Biomarkers for Isolation of Articular Cartilage Progenitor Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 125-138.	2.5	90
60	Immunochemical Localization of Keratan Sulfate Proteoglycans in Cornea, Sclera, and Limbus Using a Keratanase-Generated Neopeptide Monoclonal Antibody. , 2008, 49, 2424.		21
61	Macromolecular Organization and In Vitro Growth Characteristics of Scaffold-free Neocartilage Grafts. <i>Journal of Histochemistry and Cytochemistry</i> , 2007, 55, 853-866.	2.5	74
62	Single and cell population respiratory oscillations in yeast: A 2-photon scanning laser microscopy study. <i>FEBS Letters</i> , 2007, 581, 8-14.	2.8	50
63	Rhenium fac tricarbonyl bisimine complexes: biologically useful fluorochromes for cell imaging applications. <i>Chemical Communications</i> , 2007, , 3066-3068.	4.1	214
64	Characterization of <i>Candida albicans</i> infection of an in vitro oral epithelial model using confocal laser scanning microscopy. <i>Oral Microbiology and Immunology</i> , 2007, 22, 188-194.	2.8	38
65	Differential expression of the keratan sulphate proteoglycan, keratocan, during chick corneal embryogenesis. <i>Histochemistry and Cell Biology</i> , 2007, 128, 551-555.	1.7	24
66	Disassembly of the vimentin cytoskeleton disrupts articular cartilage chondrocyte homeostasis. <i>Matrix Biology</i> , 2006, 25, 398-408.	3.6	68
67	PPAR $\gamma$ status and mismatch repair mediated neoplasia in the mouse intestine. <i>BMC Cancer</i> , 2006, 6, 113.	2.6	8
68	British Society for Matrix Biology Autumn Meeting "Joint with the UK Tissue & Cell Engineering Society, University of Bristol, UK. <i>International Journal of Experimental Pathology</i> , 2005, 86, A1-A56.	1.3	0
69	Atypical Composition and Ultrastructure of Proteoglycans in the Mouse Corneal Stroma. , 2005, 46, 1973.		27
70	Loss of Apc in vivo immediately perturbs Wnt signaling, differentiation, and migration. <i>Genes and Development</i> , 2004, 18, 1385-1390.	5.9	700
71	PPAR $\gamma$ status and Apc-mediated tumourigenesis in the mouse intestine. <i>Oncogene</i> , 2004, 23, 8992-8996.	5.9	105
72	The distribution of Notch receptors and their ligands during articular cartilage development. <i>Journal of Anatomy</i> , 2003, 202, 495-502.	1.5	95

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73	Role of actin stress fibres in the development of the intervertebral disc: Cytoskeletal control of extracellular matrix assembly. <i>Developmental Dynamics</i> , 1999, 215, 179-189.	1.8	101
74	Role of actin stress fibres in the development of the intervertebral disc: Cytoskeletal control of extracellular matrix assembly. , 1999, 215, 179.		1
75	Role of actin stress fibres in the development of the intervertebral disc: Cytoskeletal control of extracellular matrix assembly. <i>Developmental Dynamics</i> , 1999, 215, 179-189.	1.8	2
76	Hydrogenosomes of <i>Metopus contortus</i> physiologically resemble mitochondria. <i>Microbiology (United Kingdom)</i> , 1997, 143, 1623-1629.	1.8	42
77	FLOW CYTOMETRIC MONITORING OF RHODAMINE 123 AND A CYANINE DYE UPTAKE BY YEAST DURING CIDER FERMENTATION. <i>Journal of the Institute of Brewing</i> , 1996, 102, 251-259.	2.3	38
78	Vigour, vitality and viability of microorganisms. <i>FEMS Microbiology Letters</i> , 1995, 133, 1-7.	1.8	13