

# Mary K Cowman

## List of Publications by Year in descending order

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34  
papers

1,913  
citations

430874

18  
h-index

434195

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental approaches to hyaluronan structure. <i>Carbohydrate Research</i> , 2005, 340, 791-809.	2.3	287
2	The Content and Size of Hyaluronan in Biological Fluids and Tissues. <i>Frontiers in Immunology</i> , 2015, 6, 261.	4.8	212
3	Viscoelastic Properties of Hyaluronan in Physiological Conditions. <i>F1000Research</i> , 2015, 4, 622.	1.6	198
4	Hyaluronan, Inflammation, and Breast Cancer Progression. <i>Frontiers in Immunology</i> , 2015, 6, 236.	4.8	164
5	Combined alcian blue and silver staining of glycosaminoglycans in polyacrylamide gels: Application to electrophoretic analysis of molecular weight distribution. <i>Analytical Biochemistry</i> , 1986, 155, 275-285.	2.4	150
6	Degradation of Hyaluronan by Peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 1997, 341, 245-250.	3.0	104
7	A RHAMM Mimetic Peptide Blocks Hyaluronan Signaling and Reduces Inflammation and Fibrogenesis in Excisional Skin Wounds. <i>American Journal of Pathology</i> , 2012, 181, 1250-1270.	3.8	97
8	Self-association of hyaluronate segments in aqueous NaCl solution. <i>Archives of Biochemistry and Biophysics</i> , 1988, 265, 484-495.	3.0	90
9	Agarose and polyacrylamide gel electrophoresis methods for molecular mass analysis of 5- to 500-kDa hyaluronan. <i>Analytical Biochemistry</i> , 2011, 417, 41-49.	2.4	74
10	Specific-sized Hyaluronan Fragments Promote Expression of Human $\beta$ -Defensin 2 in Intestinal Epithelium. <i>Journal of Biological Chemistry</i> , 2012, 287, 30610-30624.	3.4	70
11	Human Milk Hyaluronan Enhances Innate Defense of the Intestinal Epithelium. <i>Journal of Biological Chemistry</i> , 2013, 288, 29090-29104.	3.4	69
12	Improved agarose gel electrophoresis method and molecular mass calculation for high molecular mass hyaluronan. <i>Analytical Biochemistry</i> , 2011, 417, 50-56.	2.4	59
13	Hyaluronan and Hyaluronan Fragments. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2017, 74, 1-59.	0.9	59
14	Hyaluronan modulates growth factor induced mammary gland branching in a size dependent manner. <i>Matrix Biology</i> , 2017, 63, 117-132.	3.6	56
15	Determination of hyaluronan molecular mass distribution in human breast milk. <i>Analytical Biochemistry</i> , 2015, 474, 78-88.	2.4	34
16	Molecular mass dependence of hyaluronan detection by sandwich ELISA-like assay and membrane blotting using biotinylated hyaluronan binding protein. <i>Glycobiology</i> , 2013, 23, 1270-1280.	2.5	30
17	Human pericardial proteoglycan 4 (lubricin): Implications for postcardiotomy intrathoracic adhesion formation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, 1598-1608.e1.	0.8	24
18	Role of Hyaluronan in Inflammatory Effects on Human Articular Chondrocytes. <i>Inflammation</i> , 2019, 42, 1808-1820.	3.8	23

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19	Effects of concentration and structure on proteoglycan 4 rheology and interaction with hyaluronan. <i>Biorheology</i> , 2015, 51, 409-422.	0.4	14
20	Extracellular Vesicles Released From Articular Chondrocytes Play a Major Role in Cell-Cell Communication. <i>Journal of Orthopaedic Research</i> , 2020, 38, 731-739.	2.3	13
21	Mouse Mammary Gland Whole Mount Preparation and Analysis. <i>Bio-protocol</i> , 2018, 8, e2915.	0.4	12
22	A Hyaluronan-binding Peptide (P15-1) Reduces Inflammatory and Catabolic Events in IL-1 $\beta$ -treated Human Articular Chondrocytes. <i>Scientific Reports</i> , 2020, 10, 1441.	3.3	11
23	Densification: Hyaluronan Aggregation in Different Human Organs. <i>Bioengineering</i> , 2022, 9, 159.	3.5	10
24	A competitive alpha-screen assay for detection of hyaluronan. <i>Glycobiology</i> , 2018, 28, 137-147.	2.5	9
25	Methods for isolating and analyzing physiological hyaluronan: a review. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C674-C687.	4.6	9
26	MTADV 5-MER peptide suppresses chronic inflammations as well as autoimmune pathologies and unveils a new potential target-Serum Amyloid A. <i>Journal of Autoimmunity</i> , 2021, 124, 102713.	6.5	8
27	Methods for Determination of Hyaluronan Molecular Weight. , 2004, , 41-69.		6
28	TEMPERATURE EFFECT ON THE DYNAMIC RHEOLOGICAL CHARACTERISTICS OF HYALURONAN, HYLAN A AND SYNVISCA $\text{\textcircled{R}}$ . , 2002, , 103-108.		5
29	Methods for Hyaluronan Molecular Mass Determination by Agarose Gel Electrophoresis. <i>Methods in Molecular Biology</i> , 2019, 1952, 91-102.	0.9	5
30	Mutual macromolecular crowding as the basis for polymer solution non-ideality. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1000-1004.	3.2	3
31	18 A HUMAN-DERIVED 5-MER PEPTIDE (MTADV), WHICH RESTRICTIVELY ALLEVIATES THE PRO-INFLAMMATORY ACTIVITY OF SERUM AMYLOID A (SAA), SUBSTANTIALLY AMELIORATES IBD PATHOLOGY: NEW POTENTIAL DRUG (MTADV) AND THERAPEUTIC TARGET CANDIDATE (SAA) FOR IBD. <i>Inflammatory Bowel Diseases</i> , 2020, 26, S3-S4.	1.9	3
32	Protective Effects of a Hyaluronan-Binding Peptide (P15-1) on Mesenchymal Stem Cells in an Inflammatory Environment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7058.	4.1	3
33	Hyaluronan Isolation from Mouse Mammary Gland. <i>Bio-protocol</i> , 2018, 8, e2865.	0.4	2
34	Selective isolation of hyaluronan by solid phase adsorption to silica. <i>Analytical Biochemistry</i> , 2022, , 114769.	2.4	0