

# Melanie L Hart

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,078  
citations

394421

19  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gastrointestinal Ischemia-Reperfusion Injury Is Lectin Complement Pathway Dependent without Involving C1q. <i>Journal of Immunology</i> , 2005, 174, 6373-6380.	0.8	183
2	Extracellular Adenosine Production by Ecto-5â€²-Nucleotidase Protects During Murine Hepatic Ischemic Preconditioning. <i>Gastroenterology</i> , 2008, 135, 1739-1750.e3.	1.3	113
3	Role of extracellular nucleotide phosphohydrolysis in intestinal ischemiaâ€reperfusion injury. <i>FASEB Journal</i> , 2008, 22, 2784-2797.	0.5	89
4	Regeneration of cartilage and bone by defined subsets of mesenchymal stromal cellsâ€Potential and pitfalls. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 342-351.	13.7	64
5	Initiation of complement activation following oxidative stress. In vitro and in vivo observations. <i>Molecular Immunology</i> , 2004, 41, 165-171.	2.2	58
6	Human Placenta-Derived CD146-Positive Mesenchymal Stromal Cells Display a Distinct Osteogenic Differentiation Potential. <i>Stem Cells and Development</i> , 2015, 24, 1558-1569.	2.1	44
7	An Evidence-Based Systematic Review of Human Knee Post-Traumatic Osteoarthritis (PTOA): Timeline of Clinical Presentation and Disease Markers, Comparison of Knee Joint PTOA Models and Early Disease Implications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1996.	4.1	42
8	Mechanotransduction and Stiffness-Sensing: Mechanisms and Opportunities to Control Multiple Molecular Aspects of Cell Phenotype as a Design Cornerstone of Cell-Instructive Biomaterials for Articular Cartilage Repair. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5399.	4.1	41
9	Cell Therapy for Stress Urinary Incontinence. <i>Tissue Engineering - Part B: Reviews</i> , 2015, 21, 365-376.	4.8	40
10	The geometrical shape of mesenchymal stromal cells measured by quantitative shape descriptors is determined by the stiffness of the biomaterial and by cyclic tensile forces. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3508-3522.	2.7	38
11	Articular Chondrocyte Phenotype Regulation through the Cytoskeleton and the Signaling Processes That Originate from or Converge on the Cytoskeleton: Towards a Novel Understanding of the Intersection between Actin Dynamics and Chondrogenic Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3279.	4.1	38
12	Bioresponsive microspheres for onâ€demand delivery of antiâ€inflammatory cytokines for articular cartilage repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 722-733.	4.0	37
13	Engineering the geometrical shape of mesenchymal stromal cells through defined cyclic stretch regimens. <i>Scientific Reports</i> , 2017, 7, 6640.	3.3	28
14	Shaping the Cell and the Future: Recent Advancements in Biophysical Aspects Relevant to Regenerative Medicine. <i>Journal of Functional Morphology and Kinesiology</i> , 2018, 3, 2.	2.4	27
15	Use of a hanging-weight system for liver ischemic preconditioning in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G1431-G1440.	3.4	26
16	Smooth Muscle-Like Cells Generated from Human Mesenchymal Stromal Cells Display Marker Gene Expression and Electrophysiological Competence Comparable to Bladder Smooth Muscle Cells. <i>PLoS ONE</i> , 2015, 10, e0145153.	2.5	26
17	Stretching human mesenchymal stromal cells on stiffness-customized collagen type I generates a smooth muscle marker profile without growth factor addition. <i>Scientific Reports</i> , 2016, 6, 35840.	3.3	25
18	Anti-Inflammatory Therapeutic Approaches to Prevent or Delay Post-Traumatic Osteoarthritis (PTOA) of the Knee Joint with a Focus on Sustained Delivery Approaches. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8005.	4.1	22

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19	Mesenchymal stromal cells for sphincter regeneration. <i>Advanced Drug Delivery Reviews</i> , 2015, 82-83, 123-136.	13.7	21
20	Choice of xenogenic-free expansion media significantly influences the myogenic differentiation potential of human bone marrow-derived mesenchymal stromal cells. <i>Cytotherapy</i> , 2016, 18, 344-359.	0.7	21
21	Mesenchymal Stromal Cells for Sphincter Regeneration: Role of Laminin Isoforms upon Myogenic Differentiation. <i>PLoS ONE</i> , 2015, 10, e0137419.	2.5	20
22	Towards a Treatment of Stress Urinary Incontinence: Application of Mesenchymal Stromal Cells for Regeneration of the Sphincter Muscle. <i>Journal of Clinical Medicine</i> , 2014, 3, 197-215.	2.4	15
23	Cell-Based Therapy for the Deficient Urinary Sphincter. <i>Current Urology Reports</i> , 2013, 14, 476-487.	2.2	13
24	Bone marrow-derived mesenchymal stromal cells differ in their attachment to fibronectin-derived peptides from term placenta-derived mesenchymal stromal cells. <i>Stem Cell Research and Therapy</i> , 2016, 7, 29.	5.5	13
25	Controlled Growth Factor Delivery and Cyclic Stretch Induces a Smooth Muscle Cell-like Phenotype in Adipose-Derived Stem Cells. <i>Cells</i> , 2021, 10, 3123.	4.1	10
26	New technique for needle-less implantation of eukaryotic cells. <i>Cytotherapy</i> , 2015, 17, 1655-1661.	0.7	7
27	Expression of Desmoglein 2, Desmocollin 3 and Plakophilin 2 in Placenta and Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Stem Cell Reviews and Reports</i> , 2017, 13, 258-266.	5.6	5
28	Characterization and In Vitro Cytotoxicity Safety Screening of Fractionated Organosolv Lignin on Diverse Primary Human Cell Types Commonly Used in Tissue Engineering. <i>Biology</i> , 2022, 11, 696.	2.8	5
29	Comparative phenotypic transcriptional characterization of human full-term placenta-derived mesenchymal stromal cells compared to bone marrow-derived mesenchymal stromal cells after differentiation in myogenic medium. <i>Placenta</i> , 2017, 49, 64-67.	1.5	4
30	Lack of a skeletal muscle phenotype in adult human bone marrow stromal cells following xenogeneic-free expansion. <i>Stem Cell Research and Therapy</i> , 2020, 11, 79.	5.5	3