Melanie L Hart

List of Publications by Year
in descending order

30 papers	1,078 citations	448610 19 h-index	511568 30 g-index
30 all docs	30 docs citations	30 times ranked	1634 citing authors

#	Article	IF	Citations
1	Characterization and In Vitro Cytotoxicity Safety Screening of Fractionated Organosolv Lignin on Diverse Primary Human Cell Types Commonly Used in Tissue Engineering. Biology, 2022, 11, 696.	1.3	5
2	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. International Journal of Molecular Sciences, 2021, 22, 1996.	1.8	42
3	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. International Journal of Molecular Sciences, 2021, 22, 3279.	1.8	38
4	Anti-Inflammatory Therapeutic Approaches to Prevent or Delay Post-Traumatic Osteoarthritis (PTOA) of the Knee Joint with a Focus on Sustained Delivery Approaches. International Journal of Molecular Sciences, 2021, 22, 8005.	1.8	22
5	Controlled Growth Factor Delivery and Cyclic Stretch Induces a Smooth Muscle Cell-like Phenotype in Adipose-Derived Stem Cells. Cells, 2021, 10, 3123.	1.8	10
6	Bioresponsive microspheres for onâ€demand delivery of antiâ€inflammatory cytokines for articular cartilage repair. Journal of Biomedical Materials Research - Part A, 2020, 108, 722-733.	2.1	37
7	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. International Journal of Molecular Sciences, 2020, 21, 5399.	1.8	41
8	Lack of a skeletal muscle phenotype in adult human bone marrow stromal cells following xenogeneic-free expansion. Stem Cell Research and Therapy, 2020, 11, 79.	2.4	3
9	Shaping the Cell and the Future: Recent Advancements in Biophysical Aspects Relevant to Regenerative Medicine. Journal of Functional Morphology and Kinesiology, 2018, 3, 2.	1.1	27
10	Expression of Desmoglein 2, Desmocollin 3 and Plakophilin 2 in Placenta and Bone Marrow-Derived Mesenchymal Stromal Cells. Stem Cell Reviews and Reports, 2017, 13, 258-266.	5.6	5
11	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. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3508-3522.	1.3	38
12	Engineering the geometrical shape of mesenchymal stromal cells through defined cyclic stretch regimens. Scientific Reports, 2017, 7, 6640.	1.6	28
13	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. Placenta, 2017, 49, 64-67.	0.7	4
14	Stretching human mesenchymal stromal cells on stiffness-customized collagen type I generates a smooth muscle marker profile without growth factor addition. Scientific Reports, 2016, 6, 35840.	1.6	25
15	Bone marrow-derived mesenchymal stromal cells differ in their attachment to fibronectin-derived peptides from term placenta-derived mesenchymal stromal cells. Stem Cell Research and Therapy, 2016, 7, 29.	2.4	13
16	Choice of xenogenic-free expansion media significantly influences the myogenic differentiation potential of human bone marrowâ€"derived mesenchymal stromal cells. Cytotherapy, 2016, 18, 344-359.	0.3	21
17	Mesenchymal Stromal Cells for Sphincter Regeneration: Role of Laminin Isoforms upon Myogenic Differentiation. PLoS ONE, 2015, 10, e0137419.	1.1	20
18	Smooth Muscle-Like Cells Generated from Human Mesenchymal Stromal Cells Display Marker Gene Expression and Electrophysiological Competence Comparable to Bladder Smooth Muscle Cells. PLoS ONE, 2015, 10, e0145153.	1.1	26

#	Article	IF	Citations
19	Mesenchymal stromal cells for sphincter regeneration. Advanced Drug Delivery Reviews, 2015, 82-83, 123-136.	6.6	21
20	Human Placenta-Derived CD146-Positive Mesenchymal Stromal Cells Display a Distinct Osteogenic Differentiation Potential. Stem Cells and Development, 2015, 24, 1558-1569.	1.1	44
21	Cell Therapy for Stress Urinary Incontinence. Tissue Engineering - Part B: Reviews, 2015, 21, 365-376.	2.5	40
22	New technique for needle-less implantation of eukaryotic cells. Cytotherapy, 2015, 17, 1655-1661.	0.3	7
23	Towards a Treatment of Stress Urinary Incontinence: Application of Mesenchymal Stromal Cells for Regeneration of the Sphincter Muscle. Journal of Clinical Medicine, 2014, 3, 197-215.	1.0	15
24	Cell-Based Therapy for the Deficient Urinary Sphincter. Current Urology Reports, 2013, 14, 476-487.	1.0	13
25	Regeneration of cartilage and bone by defined subsets of mesenchymal stromal cellsâ€"Potential and pitfalls. Advanced Drug Delivery Reviews, 2011, 63, 342-351.	6.6	64
26	Extracellular Adenosine Production by Ecto-5â€²-Nucleotidase Protects During Murine Hepatic Ischemic Preconditioning. Gastroenterology, 2008, 135, 1739-1750.e3.	0.6	113
27	Role of extracellular nucleotide phosphohydrolysis in intestinal ischemiaâ€reperfusion injury. FASEB Journal, 2008, 22, 2784-2797.	0.2	89
28	Use of a hanging-weight system for liver ischemic preconditioning in mice. American Journal of Physiology - Renal Physiology, 2008, 294, G1431-G1440.	1.6	26
29	Gastrointestinal Ischemia-Reperfusion Injury Is Lectin Complement Pathway Dependent without Involving C1q. Journal of Immunology, 2005, 174, 6373-6380.	0.4	183
30	Initiation of complement activation following oxidative stress.In vitro and in vivo observations. Molecular Immunology, 2004, 41, 165-171.	1.0	58