

# Leah A Marquez-Curtis

## List of Publications by Year in descending order

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58  
papers

3,981  
citations

172457

29  
h-index

144013

57  
g-index

59  
all docs

59  
docs citations

59  
times ranked

5975  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microvesicles derived from activated platelets induce metastasis and angiogenesis in lung cancer. <i>International Journal of Cancer</i> , 2005, 113, 752-760.	5.1	668
2	Migration of Bone Marrow and Cord Blood Mesenchymal Stem Cells In Vitro Is Regulated by Stromal-Derived Factor-1/CXCR4 and Hepatocyte Growth Factor/c-met Axes and Involves Matrix Metalloproteinases. <i>Stem Cells</i> , 2006, 24, 1254-1264.	3.2	586
3	Mesenchymal stromal cells derived from various tissues: Biological, clinical and cryopreservation aspects. <i>Cryobiology</i> , 2015, 71, 181-197.	0.7	278
4	Enhancing the Migration Ability of Mesenchymal Stromal Cells by Targeting the SDF-1/CXCR4 Axis. <i>BioMed Research International</i> , 2013, 2013, 1-15.	1.9	240
5	Kinetics of Oxidation of Tyrosine and Dityrosine by Myeloperoxidase Compounds I and II. <i>Journal of Biological Chemistry</i> , 1995, 270, 30434-30440.	3.4	223
6	Mechanism of the Oxidation of 3,5,3',5'-Tetramethylbenzidine by Myeloperoxidase Determined by Transient- and Steady-State Kinetics. <i>Biochemistry</i> , 1997, 36, 9349-9355.	2.5	176
7	Enhancing effect of platelet-derived microvesicles on the invasive potential of breast cancer cells. <i>Transfusion</i> , 2006, 46, 1199-1209.	1.6	157
8	Spectral and Kinetic Studies on the Formation of Myeloperoxidase Compounds I and II: Roles of Hydrogen Peroxide and Superoxide. <i>Biochemistry</i> , 1994, 33, 1447-1454.	2.5	141
9	Mechanism of Manganese Peroxidase Compound II Reduction. Effect of Organic Acid Chelators and pH. <i>Biochemistry</i> , 1994, 33, 8694-8701.	2.5	137
10	Bcr-abl-positive cells secrete angiogenic factors including matrix metalloproteinases and stimulate angiogenesis in vivo in Matrigel implants. <i>Leukemia</i> , 2002, 16, 1160-1166.	7.2	84
11	Fifth complement cascade protein (C5) cleavage fragments disrupt the SDF-1/CXCR4 axis: Further evidence that innate immunity orchestrates the mobilization of hematopoietic stem/progenitor cells. <i>Experimental Hematology</i> , 2010, 38, 321-332.	0.4	64
12	Carboxypeptidase M Expressed by Human Bone Marrow Cells Cleaves the C-Terminal Lysine of Stromal Cell-Derived Factor-1 (SDF-1): Another Player in Hematopoietic Stem/Progenitor Cell Mobilization?. <i>Stem Cells</i> , 2008, 26, 1211-1220.	3.2	63
13	The Ins and Outs of Hematopoietic Stem Cells: Studies to Improve Transplantation Outcomes. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 590-607.	5.6	59
14	Mesenchymal stromal cells derived from umbilical cord blood migrate in response to complement C1q. <i>Cytotherapy</i> , 2012, 14, 285-295.	0.7	58
15	Valproic Acid Increases CXCR4 Expression in Hematopoietic Stem/Progenitor Cells by Chromatin Remodeling. <i>Stem Cells and Development</i> , 2009, 18, 831-838.	2.1	54
16	Using 2-Aminopurine Fluorescence and Mutational Analysis to Demonstrate an Active Role of Bacteriophage T4 DNA Polymerase in Strand Separation Required for 3'-5'-Exonuclease Activity. <i>Journal of Biological Chemistry</i> , 1996, 271, 28903-28911.	3.4	53
17	Microscope-based label-free microfluidic cytometry. <i>Optics Express</i> , 2011, 19, 387.	3.4	52
18	Kinetic and spectral properties of pea cytosolic ascorbate peroxidase. <i>FEBS Letters</i> , 1996, 389, 153-156.	2.8	46

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19	Matrix metalloproteinase and tissue inhibitors of metalloproteinase secretion by haematopoietic and stromal precursors and their production in normal and leukaemic long-term marrow cultures. <i>British Journal of Haematology</i> , 2001, 115, 595-604.	2.5	44
20	Low-intensity pulsed ultrasound-mediated stimulation of hematopoietic stem/progenitor cell viability, proliferation and differentiation in vitro. <i>Biotechnology Letters</i> , 2012, 34, 1965-1973.	2.2	44
21	Effect of supercooling and cell volume on intracellular ice formation. <i>Cryobiology</i> , 2015, 70, 156-163.	0.7	42
22	Polymeric nanoparticle-mediated silencing of CD44 receptor in CD34+ acute myeloid leukemia cells. <i>Leukemia Research</i> , 2014, 38, 1299-1308.	0.8	40
23	MT1-MMP association with membrane lipid rafts facilitates G-CSF-induced hematopoietic stem/progenitor cell mobilization. <i>Experimental Hematology</i> , 2010, 38, 823-835.	0.4	38
24	CXCR4 transfection of cord blood mesenchymal stromal cells with the use of cationic liposome enhances their migration toward stromal cell-derived factor-1. <i>Cytotherapy</i> , 2013, 15, 840-849.	0.7	38
25	The Proofreading Pathway of Bacteriophage T4 DNA Polymerase. <i>Journal of Biological Chemistry</i> , 1998, 273, 22969-22976.	3.4	34
26	The HGF/c-Met Axis Synergizes with G-CSF in the Mobilization of Hematopoietic Stem/Progenitor Cells. <i>Stem Cells and Development</i> , 2010, 19, 1143-1151.	2.1	33
27	Hematopoietic Stem Cell Mobilization and Homing after Transplantation: The Role of MMP-2, MMP-9, and MT1-MMP. <i>Biochemistry Research International</i> , 2012, 2012, 1-11.	3.3	33
28	Improved Cryopreservation of Human Umbilical Vein Endothelial Cells: A Systematic Approach. <i>Scientific Reports</i> , 2016, 6, 34393.	3.3	32
29	Beyond membrane integrity: Assessing the functionality of human umbilical vein endothelial cells after cryopreservation. <i>Cryobiology</i> , 2016, 72, 183-190.	0.7	30
30	Complement C1q enhances homing-related responses of hematopoietic stem/progenitor cells. <i>Transfusion</i> , 2010, 50, 2002-2010.	1.6	28
31	Cryopreservation of human umbilical vein and porcine corneal endothelial cell monolayers. <i>Cryobiology</i> , 2018, 85, 63-72.	0.7	28
32	Interaction of Acetaminophen with Myeloperoxidase Intermediates: Optimum Stimulation of Enzyme Activity. <i>Archives of Biochemistry and Biophysics</i> , 1993, 305, 414-420.	3.0	25
33	Cationic Liposome-Mediated CXCR4 Gene Delivery into Hematopoietic Stem/Progenitor Cells: Implications for Clinical Transplantation and Gene Therapy. <i>Stem Cells and Development</i> , 2012, 21, 1587-1596.	2.1	25
34	Encapsulation of factor IX-engineered mesenchymal stem cells in fibrinogen-alginate microcapsules enhances their viability and transgene secretion. <i>Journal of Tissue Engineering</i> , 2012, 3, 204173141246201.	5.5	24
35	Cryopreserved amniotic membrane as transplant allograft: viability and post-transplant outcome. <i>Cell and Tissue Banking</i> , 2016, 17, 39-50.	1.1	24
36	Transient and Steady-State Kinetics of the Oxidation of Scopoletin by Horseradish Peroxidase Compounds I, II and III in the Presence of NADH. <i>FEBS Journal</i> , 1995, 233, 364-371.	0.2	23

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37	Migration, Proliferation, and Differentiation of Cord Blood Mesenchymal Stromal Cells Treated with Histone Deacetylase Inhibitor Valproic Acid. <i>Stem Cells International</i> , 2014, 2014, 1-14.	2.5	23
38	Label-free and noninvasive optical detection of the distribution of nanometer-size mitochondria in single cells. <i>Journal of Biomedical Optics</i> , 2011, 16, 067003.	2.6	22
39	Expansion and cryopreservation of porcine and human corneal endothelial cells. <i>Cryobiology</i> , 2017, 77, 1-13.	0.7	21
40	Valproic acid exerts differential effects on CXCR4 expression in leukemic cells. <i>Leukemia Research</i> , 2010, 34, 235-242.	0.8	19
41	Cell-matrix Interactions of Factor IX (FIX)-engineered human mesenchymal stromal cells encapsulated in RGD-alginate vs. Fibrinogen-alginate microcapsules. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2014, 42, 102-109.	2.8	14
42	CFU-megakaryocytic progenitors expanded ex vivo from cord blood maintain their in vitro homing potential and express matrix metalloproteinases. <i>Cytotherapy</i> , 2008, 10, 182-192.	0.7	13
43	Cryopreservation of human cerebral microvascular endothelial cells and astrocytes in suspension and monolayers. <i>PLoS ONE</i> , 2021, 16, e0249814.	2.5	13
44	CD34+ cell responsiveness to stromal cell-derived factor-1 $\alpha$ underlies rate of engraftment after peripheral blood stem cell transplantation. <i>Transfusion</i> , 2009, 49, 161-169.	1.6	12
45	The role of complement in the trafficking of hematopoietic stem/progenitor cells. <i>Transfusion</i> , 2012, 52, 2706-2716.	1.6	12
46	Fibronectin-Alginate microcapsules improve cell viability and protein secretion of encapsulated Factor IX-engineered human mesenchymal stromal cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2015, 43, 318-327.	2.8	12
47	Cryopreservation and post-thaw characterization of dissociated human islet cells. <i>PLoS ONE</i> , 2022, 17, e0263005.	2.5	11
48	Cytochrome c peroxidase activity of a protease-modified form of cytochrome c-552 from the denitrifying bacterium <i>Pseudomonas perfectomarina</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 270, 114-125.	3.0	9
49	Sustained expression of coagulation factor IX by modified cord blood-derived mesenchymal stromal cells. <i>Journal of Gene Medicine</i> , 2014, 16, 131-142.	2.8	9
50	Cryopreservation of swine colostrum-derived cells. <i>Cryobiology</i> , 2020, 97, 168-178.	0.7	9
51	Cyanide binding to canine myeloperoxidase. <i>Biochemistry and Cell Biology</i> , 1989, 67, 187-191.	2.0	5
52	Membrane Type-1 Matrix Metalloproteinase Expression in Acute Myeloid Leukemia and Its Upregulation by Tumor Necrosis Factor- $\alpha$ . <i>Cancers</i> , 2012, 4, 743-762.	3.7	5
53	Myeloperoxidase: Kinetic Evidence for Formation of Enzyme-Bound Chlorinating Intermediate. <i>Methods in Enzymology</i> , 2002, 354, 338-350.	1.0	4
54	Protocol for Cryopreservation of Endothelial Monolayers. <i>Methods in Molecular Biology</i> , 2021, 2180, 581-591.	0.9	3

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55	Reaction of autoxidation products of penicillamine with myeloperoxidase. Biochemical and Biophysical Research Communications, 1990, 169, 1158-1163.	2.1	2
56	The Potent Deacetylase Inhibitor Trichostatin a (TSA) Increases CXCR4 Expression in Hematopoietic Stem/Progenitor Cells by Chromatin Remodelling. Blood, 2008, 112, 3487-3487.	1.4	2
57	Carboxypeptidase M Cleaves the C-Terminal Lysine of Stromal Cell-Derived Factor-1 and Is Expressed by Human Bone Marrow Cells.. Blood, 2006, 108, 351-351.	1.4	0
58	Abstract 464: CXCR7 protein is strongly expressed in B-acute lymphoblastic leukemia (ALL) but not in T-ALL or acute myelogenous leukemia. , 2012, , .		0