Christine Lyn Le Maitre

List of Publications by Year in descending order

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87 6,317 37 papers citations h-index

89 89 89 4624 all docs docs citations times ranked citing authors

77

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#	Article	IF	CITATIONS
1	The role of interleukin-1 in the pathogenesis of human intervertebral disc degeneration. Arthritis Research, 2005, 7, R732.	2.0	695
2	Catabolic cytokine expression in degenerate and herniated human intervertebral discs: IL- $1\hat{1}^2$ and TNF $\hat{1}^\pm$ expression profile. Arthritis Research and Therapy, 2007, 9, R77.	3.5	502
3	Matrix synthesis and degradation in human intervertebral disc degeneration. Biochemical Society Transactions, 2007, 35, 652-655.	3.4	424
4	Localization of degradative enzymes and their inhibitors in the degenerate human intervertebral disc. Journal of Pathology, 2004, 204, 47-54.	4.5	395
5	Accelerated cellular senescence in degenerate intervertebral discs: a possible role in the pathogenesis of intervertebral disc degeneration. Arthritis Research and Therapy, 2007, 9, R45.	3.5	365
6	Molecular mechanisms of biological aging in intervertebral discs. Journal of Orthopaedic Research, 2016, 34, 1289-1306.	2.3	270
7	Modified expression of the ADAMTS enzymes and tissue inhibitor of metalloproteinases 3 during human intervertebral disc degeneration. Arthritis and Rheumatism, 2009, 60, 482-491.	6.7	232
8	Investigation of the role of IL-1 and TNF in matrix degradation in the intervertebral disc. Rheumatology, 2008, 47, 809-814.	1.9	222
9	Tumor necrosis factor α– and interleukinâ€1β–dependent induction of CCL3 expression by nucleus pulposus cells promotes macrophage migration through CCR1. Arthritis and Rheumatism, 2013, 65, 832-842.	6.7	144
10	Interleukin-1 receptor antagonist delivered directly and by gene therapy inhibits matrix degradation in the intact degenerate human intervertebral disc: an in situ zymographic and gene therapy study. Arthritis Research and Therapy, 2007, 9, R83.	3.5	140
11	Potential roles of cytokines and chemokines in human intervertebral disc degeneration: interleukin-1 is a master regulator of catabolic processes. Osteoarthritis and Cartilage, 2015, 23, 1165-1177.	1.3	123
12	Expression and regulation of neurotrophic and angiogenic factors during human intervertebral disc degeneration. Arthritis Research and Therapy, 2014, 16, 416.	3.5	118
13	Interleukin-1 receptor antagonist deficient mice provide insights into pathogenesis of human intervertebral disc degeneration. Annals of the Rheumatic Diseases, 2013, 72, 1860-1867.	0.9	101
14	A preliminary in vitro study into the use of IL-1Ra gene therapy for the inhibition of intervertebral disc degeneration. International Journal of Experimental Pathology, 2006, 87, 17-28.	1.3	93
15	Inflammatory Cytokines Induce NOTCH Signaling in Nucleus Pulposus Cells. Journal of Biological Chemistry, 2013, 288, 16761-16774.	3.4	93
16	Integrative epigenomics, transcriptomics and proteomics of patient chondrocytes reveal genes and pathways involved in osteoarthritis. Scientific Reports, 2017, 7, 8935.	3.3	90
17	An in vitro study investigating the survival and phenotype of mesenchymal stem cells following injection into nucleus pulposus tissue. Arthritis Research and Therapy, 2009, 11, R20.	3.5	87
18	The cytokine and chemokine expression profile of nucleus pulposus cells: implications for degeneration and regeneration of the intervertebral disc. Arthritis Research and Therapy, 2013, 15, R213.	3.5	86

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19	Altered integrin mechanotransduction in human nucleus pulposus cells derived from degenerated discs. Arthritis and Rheumatism, 2009, 60, 460-469.	6.7	81
20	The use of auxetic materials in tissue engineering. Biomaterials Science, 2020, 8, 2074-2083.	5 . 4	78
21	Advancing cell therapies for intervertebral disc regeneration from the lab to the clinic: Recommendations of the ORS spine section. JOR Spine, 2018, 1, e1036.	3.2	74
22	Expression of receptors for putative anabolic growth factors in human intervertebral disc: implications for repair and regeneration of the disc. Journal of Pathology, 2005, 207, 445-452.	4.5	72
23	Effects of Bioactive Compounds from Carrots (Daucus carota L.), Polyacetylenes, Beta-Carotene and Lutein on Human Lymphoid Leukaemia Cells. Anti-Cancer Agents in Medicinal Chemistry, 2012, 12, 640-652.	1.7	72
24	Nerves are more abundant than blood vessels in the degenerate human intervertebral disc. Arthritis Research and Therapy, 2015, 17, 370.	3. 5	70
25	Nerves and blood vessels in degenerated intervertebral discs are confined to physically disrupted tissue. Journal of Anatomy, 2018, 233, 86-97.	1.5	64
26	Expression of cartilage-derived morphogenetic protein in human intervertebral discs and its effect on matrix synthesis in degenerate human nucleus pulposus cells. Arthritis Research and Therapy, 2009, 11, R137.	3 . 5	58
27	Thermally triggered injectable hydrogel, which induces mesenchymal stem cell differentiation to nucleus pulposus cells: Potential for regeneration of the intervertebral disc. Acta Biomaterialia, 2016, 36, 99-111.	8.3	58
28	Human cells derived from degenerate intervertebral discs respond differently to those derived from non-degenerate intervertebral discs following application of dynamic hydrostatic pressure. Biorheology, 2008, 45, 563-575.	0.4	57
29	Caveolin-1 expression and stress-induced premature senescence in human intervertebral disc degeneration. Arthritis Research and Therapy, 2008, 10, R87.	3 . 5	55
30	Nucleus pulposus phenotypic markers to determine stem cell differentiation: fact or fiction?. Oncotarget, 2016, 7, 2189-2200.	1.8	51
31	Thermally triggered hydrogel injection into bovine intervertebral disc tissue explants induces differentiation of mesenchymal stem cells and restores mechanical function. Acta Biomaterialia, 2017, 54, 212-226.	8.3	50
32	Differential Effects of Polyphenols on Proliferation and Apoptosis in Human Myeloid and Lymphoid Leukemia Cell Lines. Anti-Cancer Agents in Medicinal Chemistry, 2013, 13, 1601-1613.	1.7	48
33	A study of pH-responsive microgel dispersions: from fluid-to-gel transitions to mechanical property restoration for load-bearing tissue. Soft Matter, 2007, 3, 486.	2.7	46
34	Lactate Efflux From Intervertebral Disc Cells Is Required for Maintenance of Spine Health. Journal of Bone and Mineral Research, 2020, 35, 550-570.	2.8	46
35	Connective tissue growth factor expression in human intervertebral disc: implications for angiogenesis in intervertebral disc degeneration. Biotechnic and Histochemistry, 2008, 83, 239-245.	1.3	43
36	Expression of Cannabinoid Receptors in Human Osteoarthritic Cartilage: Implications for Future Therapies. Cannabis and Cannabinoid Research, 2016, 1, 3-15.	2.9	41

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37	Cannabinoid WIN-55,212-2 mesylate inhibits interleukin- \hat{l}^2 induced matrix metalloproteinase and tissue inhibitor of matrix metalloproteinase expression in human chondrocytes. Osteoarthritis and Cartilage, 2014, 22, 133-144.	1.3	40
38	Leaping the hurdles in developing regenerative treatments for the intervertebral disc from preclinical to clinical. JOR Spine, 2018, 1 , e1027.	3.2	40
39	Use of hydrogel scaffolds to develop an in vitro 3D culture model of human intestinal epithelium. Acta Biomaterialia, 2017, 62, 128-143.	8.3	39
40	TNF- $\hat{l}\pm$ promotes nuclear enrichment of the transcription factor TonEBP/NFAT5 to selectively control inflammatory but not osmoregulatory responses in nucleus pulposus cells. Journal of Biological Chemistry, 2017, 292, 17561-17575.	3.4	39
41	Long-term in vitro 3D hydrogel co-culture model of inflammatory bowel disease. Scientific Reports, 2019, 9, 1812.	3.3	37
42	Bioactive Chemicals from Carrot (<i>Daucus carota)</i> Juice Extracts for the Treatment of Leukemia. Journal of Medicinal Food, 2011, 14, 1303-1312.	1.5	36
43	Bioactive Actions of Pomegranate Fruit Extracts on Leukemia Cell Lines In Vitro Hold Promise for New Therapeutic Agents for Leukemia. Nutrition and Cancer, 2012, 64, 100-110.	2.0	36
44	Hydroxyapatite nanoparticle injectable hydrogel scaffold to support osteogenic differentiation of human mesenchymal stem cells., 2016, 32, 1-23.		36
45	Characterization of biomaterials intended for use in the nucleus pulposus of degenerated intervertebral discs. Acta Biomaterialia, 2020, 114, 1-15.	8.3	35
46	Studies of Human Intervertebral Disc Cell Function in a Constrained In Vitro Tissue Culture System. Spine, 2004, 29, 1187-1195.	2.0	34
47	Inhibiting ILâ \in 1 signaling pathways to inhibit catabolic processes in disc degeneration. Journal of Orthopaedic Research, 2017, 35, 74-85.	2.3	34
48	Cell sources proposed for nucleus pulposus regeneration. JOR Spine, 2021, 4, e1175.	3.2	34
49	Class 3 semaphorins expression and association with innervation and angiogenesis within the degenerate human intervertebral disc. Oncotarget, 2015, 6, 18338-18354.	1.8	33
50	Recapitulating Parkinson's disease pathology in a three-dimensional human neural cell culture model. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	31
51	The antimicrobial activity and biocompatibility of a controlled gentamicin-releasing single-layer sol-gel coating on hydroxyapatite-coated titanium. Bone and Joint Journal, 2021, 103-B, 522-529.	4.4	31
52	Polyphenols are responsible for the proapoptotic properties of pomegranate juice on leukemia cell lines. Food Science and Nutrition, 2013, 1, 196-208.	3.4	30
53	<i>In vivo</i> safety and efficacy testing of a thermally triggered injectable hydrogel scaffold for bone regeneration and augmentation in a rat model. Oncotarget, 2018, 9, 18277-18295.	1.8	30
54	Tissue Engineering Laboratory Models of the Small Intestine. Tissue Engineering - Part B: Reviews, 2018, 24, 98-111.	4.8	29

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55	Human cells derived from degenerate intervertebral discs respond differently to those derived from non-degenerate intervertebral discs following application of dynamic hydrostatic pressure. Biorheology, 2008, 45, 563-75.	0.4	29
56	Interleukin 1 is a key driver of inflammatory bowel disease-demonstration in a murine IL-1Ra knockout model. Oncotarget, 2019, 10, 3559-3575.	1.8	28
57	Multiscale Regulation of the Intervertebral Disc: Achievements in Experimental, In Silico, and Regenerative Research. International Journal of Molecular Sciences, 2021, 22, 703.	4.1	27
58	Development of a standardized histopathology scoring system for human intervertebral disc degeneration: an Orthopaedic Research Society Spine Section Initiative. JOR Spine, 2021, 4, e1167.	3.2	25
59	Mesenchymal stem cell therapies for intervertebral disc degeneration: Consideration of the degenerate niche. JOR Spine, 2019, 2, e1055.	3.2	24
60	Use of <scp>l</scp> -pNIPAM hydrogel as a 3D-scaffold for intestinal crypts and stem cell tissue engineering. Biomaterials Science, 2019, 7, 4310-4324.	5.4	23
61	Aquaporin 1 and 5 expression decreases during human intervertebral disc degeneration: novel HIF-1-mediated regulation of aquaporins in NP cells. Oncotarget, 2015, 6, 11945-11958.	1.8	22
62	Mass spectrometry imaging of endogenous metabolites in response to doxorubicin in a novel 3D osteosarcoma cell culture model. Journal of Mass Spectrometry, 2020, 55, e4461.	1.6	22
63	Notochordal Cell-Based Treatment Strategies and Their Potential in Intervertebral Disc Regeneration. Frontiers in Cell and Developmental Biology, 2021, 9, 780749.	3.7	21
64	Immuno-Modulatory Effects of Intervertebral Disc Cells. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	20
65	Investigation of intervertebral disc degeneration using multivariate FTIR spectroscopic imaging. Faraday Discussions, 2016, 187, 393-414.	3.2	19
66	Glutathione is key to the synergistic enhancement of doxorubicin and etoposide by polyphenols in leukaemia cell lines. Cell Death and Disease, 2015, 6, e2028-e2028.	6.3	17
67	Cannabinoids: novel therapies for arthritis?. Future Medicinal Chemistry, 2012, 4, 713-725.	2.3	15
68	Aquaporin expression in the human and canine intervertebral disc during maturation and degeneration. JOR Spine, 2019, 2, e1049.	3.2	15
69	Hedgehog proteins and parathyroid hormoneâ€related protein are involved in intervertebral disc maturation, degeneration, and calcification. JOR Spine, 2019, 2, e1071.	3.2	15
70	Polyphenols enhance the activity of alkylating agents in leukaemia cell lines. Oncotarget, 2019, 10, 4570-4586.	1.8	14
71	Development of an <i>in vitro</i> model to test the efficacy of novel therapies for IVD degeneration. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 461-469.	2.7	13
72	Physical disruption of intervertebral disc promotes cell clustering and a degenerative phenotype. Cell Death Discovery, 2019, 5, 154.	4.7	13

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73	The strain-generated electrical potential in cartilaginous tissues: a role for piezoelectricity. Biophysical Reviews, 2021, 13, 91-100.	3.2	13
74	The effect of apigenin and chemotherapy combination treatments on apoptosis-related genes and proteins in acute leukaemia cell lines. Scientific Reports, 2022, 12, .	3.3	12
75	Modelling the catabolic environment of the moderately degenerated disc with a caprine ex vivo loaded disc culture system., 2020, 40, 21-37.		11
76	Dietary polyphenols influence antimetabolite agents: methotrexate, 6-mercaptopurine and 5-fluorouracil in leukemia cell lines. Oncotarget, 2017, 8, 104877-104893.	1.8	10
77	Immunohistochemical analysis of protein expression in formalin fixed paraffin embedded human intervertebral disc tissues. JOR Spine, 2020, 3, e1098.	3.2	8
78	Molecular Action of Polyphenols in Leukaemia and Their Therapeutic Potential. International Journal of Molecular Sciences, 2021, 22, 3085.	4.1	8
79	One-pot precipitation polymerisation strategy for tuneable injectable Laponite®-pNIPAM hydrogels: Polymerisation, processability and beyond. Polymer, 2021, 233, 124201.	3.8	8
80	TonEBP regulates the hyperosmotic expression of aquaporin 1 and 5 in the intervertebral disc. Scientific Reports, 2021, 11, 3164.	3.3	7
81	'Cell or Not to Cell' that is the Question: For Intervertebral Disc Regeneration?. HSOA Journal of Stem Cells Research, Development & Therapy, 2015, 2, 1-9.	0.2	4
82	A perspective on the <scp><i>ORS Spine Section</i></scp> initiative to develop a multiâ€species <scp><i>JOR Spine</i></scp> histopathology series. JOR Spine, 2021, 4, e1165.	3.2	2
83	Degenerative physiochemical events in the pathological intervertebral disc. Histology and Histopathology, 2021, , 18395.	0.7	2
84	Improving reproducibility in spine research. JOR Spine, 2020, 3, e1127.	3.2	1
85	Lâ€type <scp>Voltageâ€Gated</scp> calcium channels partly mediate Mechanotransduction in the intervertebral disc. JOR Spine, 0, , .	3.2	1
86	Investigation of polarization-sensitive optical coherence tomography towards the study of microstructure of articular cartilage. Proceedings of SPIE, 2013, , .	0.8	0
87	SAT-041 Testosterone Reduces Atherosclerosis and Plaque Specific Inflammatory Markers in the ApoE-l-Mouse Model. Journal of the Endocrine Society, 2020, 4, .	0.2	0