

# Christine Lyn Le Maitre

## List of Publications by Year in descending order

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87  
papers

6,317  
citations

94433

37  
h-index

69250

77  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4624  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of apigenin and chemotherapy combination treatments on apoptosis-related genes and proteins in acute leukaemia cell lines. <i>Scientific Reports</i> , 2022, 12, .	3.3	12
2	Multiscale Regulation of the Intervertebral Disc: Achievements in Experimental, In Silico, and Regenerative Research. <i>International Journal of Molecular Sciences</i> , 2021, 22, 703.	4.1	27
3	TonEBP regulates the hyperosmotic expression of aquaporin 1 and 5 in the intervertebral disc. <i>Scientific Reports</i> , 2021, 11, 3164.	3.3	7
4	The strain-generated electrical potential in cartilaginous tissues: a role for piezoelectricity. <i>Biophysical Reviews</i> , 2021, 13, 91-100.	3.2	13
5	Molecular Action of Polyphenols in Leukaemia and Their Therapeutic Potential. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3085.	4.1	8
6	The antimicrobial activity and biocompatibility of a controlled gentamicin-releasing single-layer sol-gel coating on hydroxyapatite-coated titanium. <i>Bone and Joint Journal</i> , 2021, 103-B, 522-529.	4.4	31
7	A perspective on the <sc><i>ORS Spine Section</i></sc> initiative to develop a multiâ€species <sc><i>JOR Spine</i></sc> histopathology series. <i>JOR Spine</i> , 2021, 4, e1165.	3.2	2
8	Development of a standardized histopathology scoring system for human intervertebral disc degeneration: an Orthopaedic Research Society Spine Section Initiative. <i>JOR Spine</i> , 2021, 4, e1167.	3.2	25
9	One-pot precipitation polymerisation strategy for tuneable injectable LaponiteÂ®-pNIPAM hydrogels: Polymerisation, processability and beyond. <i>Polymer</i> , 2021, 233, 124201.	3.8	8
10	Cell sources proposed for nucleus pulposus regeneration. <i>JOR Spine</i> , 2021, 4, e1175.	3.2	34
11	Notochordal Cell-Based Treatment Strategies and Their Potential in Intervertebral Disc Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 780749.	3.7	21
12	Degenerative physiochemical events in the pathological intervertebral disc. <i>Histology and Histopathology</i> , 2021, , 18395.	0.7	2
13	Lactate Efflux From Intervertebral Disc Cells Is Required for Maintenance of Spine Health. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 550-570.	2.8	46
14	Mass spectrometry imaging of endogenous metabolites in response to doxorubicin in a novel 3D osteosarcoma cell culture model. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4461.	1.6	22
15	Improving reproducibility in spine research. <i>JOR Spine</i> , 2020, 3, e1127.	3.2	1
16	Immunohistochemical analysis of protein expression in formalin fixed paraffin embedded human intervertebral disc tissues. <i>JOR Spine</i> , 2020, 3, e1098.	3.2	8
17	Characterization of biomaterials intended for use in the nucleus pulposus of degenerated intervertebral discs. <i>Acta Biomaterialia</i> , 2020, 114, 1-15.	8.3	35
18	Modelling the catabolic environment of the moderately degenerated disc with a caprine ex vivo loaded disc culture system. , 2020, 40, 21-37.		11

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19	The use of auxetic materials in tissue engineering. <i>Biomaterials Science</i> , 2020, 8, 2074-2083.	5.4	78
20	SAT-041 Testosterone Reduces Atherosclerosis and Plaque Specific Inflammatory Markers in the ApoE <sup>-/-</sup> Mouse Model. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.2	0
21	Use of <sc>I</sc>-pNIPAM hydrogel as a 3D-scaffold for intestinal crypts and stem cell tissue engineering. <i>Biomaterials Science</i> , 2019, 7, 4310-4324.	5.4	23
22	Mesenchymal stem cell therapies for intervertebral disc degeneration: Consideration of the degenerate niche. <i>JOR Spine</i> , 2019, 2, e1055.	3.2	24
23	Aquaporin expression in the human and canine intervertebral disc during maturation and degeneration. <i>JOR Spine</i> , 2019, 2, e1049.	3.2	15
24	Recapitulating Parkinson's disease pathology in a three-dimensional human neural cell culture model. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	31
25	Long-term in vitro 3D hydrogel co-culture model of inflammatory bowel disease. <i>Scientific Reports</i> , 2019, 9, 1812.	3.3	37
26	Physical disruption of intervertebral disc promotes cell clustering and a degenerative phenotype. <i>Cell Death Discovery</i> , 2019, 5, 154.	4.7	13
27	Hedgehog proteins and parathyroid hormone-related protein are involved in intervertebral disc maturation, degeneration, and calcification. <i>JOR Spine</i> , 2019, 2, e1071.	3.2	15
28	Interleukin 1 is a key driver of inflammatory bowel disease-demonstration in a murine IL-1Ra knockout model. <i>Oncotarget</i> , 2019, 10, 3559-3575.	1.8	28
29	Polyphenols enhance the activity of alkylating agents in leukaemia cell lines. <i>Oncotarget</i> , 2019, 10, 4570-4586.	1.8	14
30	Nerves and blood vessels in degenerated intervertebral discs are confined to physically disrupted tissue. <i>Journal of Anatomy</i> , 2018, 233, 86-97.	1.5	64
31	Tissue Engineering Laboratory Models of the Small Intestine. <i>Tissue Engineering - Part B: Reviews</i> , 2018, 24, 98-111.	4.8	29
32	Advancing cell therapies for intervertebral disc regeneration from the lab to the clinic: Recommendations of the ORS spine section. <i>JOR Spine</i> , 2018, 1, e1036.	3.2	74
33	<i>In vivo</i> safety and efficacy testing of a thermally triggered injectable hydrogel scaffold for bone regeneration and augmentation in a rat model. <i>Oncotarget</i> , 2018, 9, 18277-18295.	1.8	30
34	Leaping the hurdles in developing regenerative treatments for the intervertebral disc from preclinical to clinical. <i>JOR Spine</i> , 2018, 1, e1027.	3.2	40
35	Thermally triggered hydrogel injection into bovine intervertebral disc tissue explants induces differentiation of mesenchymal stem cells and restores mechanical function. <i>Acta Biomaterialia</i> , 2017, 54, 212-226.	8.3	50
36	Integrative epigenomics, transcriptomics and proteomics of patient chondrocytes reveal genes and pathways involved in osteoarthritis. <i>Scientific Reports</i> , 2017, 7, 8935.	3.3	90

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37	Use of hydrogel scaffolds to develop an in vitro 3D culture model of human intestinal epithelium. <i>Acta Biomaterialia</i> , 2017, 62, 128-143.	8.3	39
38	TNF- $\alpha$ promotes nuclear enrichment of the transcription factor TonEBP/NFAT5 to selectively control inflammatory but not osmoregulatory responses in nucleus pulposus cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 17561-17575.	3.4	39
39	Inhibiting IL-1 signaling pathways to inhibit catabolic processes in disc degeneration. <i>Journal of Orthopaedic Research</i> , 2017, 35, 74-85.	2.3	34
40	Dietary polyphenols influence antimetabolite agents: methotrexate, 6-mercaptopurine and 5-fluorouracil in leukemia cell lines. <i>Oncotarget</i> , 2017, 8, 104877-104893.	1.8	10
41	Molecular mechanisms of biological aging in intervertebral discs. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1289-1306.	2.3	270
42	Investigation of intervertebral disc degeneration using multivariate FTIR spectroscopic imaging. <i>Faraday Discussions</i> , 2016, 187, 393-414.	3.2	19
43	Thermally triggered injectable hydrogel, which induces mesenchymal stem cell differentiation to nucleus pulposus cells: Potential for regeneration of the intervertebral disc. <i>Acta Biomaterialia</i> , 2016, 36, 99-111.	8.3	58
44	Expression of Cannabinoid Receptors in Human Osteoarthritic Cartilage: Implications for Future Therapies. <i>Cannabis and Cannabinoid Research</i> , 2016, 1, 3-15.	2.9	41
45	Nucleus pulposus phenotypic markers to determine stem cell differentiation: fact or fiction?. <i>Oncotarget</i> , 2016, 7, 2189-2200.	1.8	51
46	Hydroxyapatite nanoparticle injectable hydrogel scaffold to support osteogenic differentiation of human mesenchymal stem cells. , 2016, 32, 1-23.		36
47	Aquaporin 1 and 5 expression decreases during human intervertebral disc degeneration: novel HIF-1-mediated regulation of aquaporins in NP cells. <i>Oncotarget</i> , 2015, 6, 11945-11958.	1.8	22
48	Glutathione is key to the synergistic enhancement of doxorubicin and etoposide by polyphenols in leukaemia cell lines. <i>Cell Death and Disease</i> , 2015, 6, e2028-e2028.	6.3	17
49	Nerves are more abundant than blood vessels in the degenerate human intervertebral disc. <i>Arthritis Research and Therapy</i> , 2015, 17, 370.	3.5	70
50	Potential roles of cytokines and chemokines in human intervertebral disc degeneration: interleukin-1 is a master regulator of catabolic processes. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 1165-1177.	1.3	123
51	Class 3 semaphorins expression and association with innervation and angiogenesis within the degenerate human intervertebral disc. <i>Oncotarget</i> , 2015, 6, 18338-18354.	1.8	33
52	'Cell or Not to Cell' that is the Question: For Intervertebral Disc Regeneration?. <i>HSOA Journal of Stem Cells Research, Development &amp; Therapy</i> , 2015, 2, 1-9.	0.2	4
53	Expression and regulation of neurotrophic and angiogenic factors during human intervertebral disc degeneration. <i>Arthritis Research and Therapy</i> , 2014, 16, 416.	3.5	118
54	Cannabinoid WIN-55,212-2 mesylate inhibits interleukin-1 $\beta$ induced matrix metalloproteinase and tissue inhibitor of matrix metalloproteinase expression in human chondrocytes. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 133-144.	1.3	40

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55	The cytokine and chemokine expression profile of nucleus pulposus cells: implications for degeneration and regeneration of the intervertebral disc. <i>Arthritis Research and Therapy</i> , 2013, 15, R213.	3.5	86
56	Tumor necrosis factor $\alpha$ and interleukin-1 $\beta$ dependent induction of CCL3 expression by nucleus pulposus cells promotes macrophage migration through CCR1. <i>Arthritis and Rheumatism</i> , 2013, 65, 832-842.	6.7	144
57	Polyphenols are responsible for the proapoptotic properties of pomegranate juice on leukemia cell lines. <i>Food Science and Nutrition</i> , 2013, 1, 196-208.	3.4	30
58	Investigation of polarization-sensitive optical coherence tomography towards the study of microstructure of articular cartilage. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
59	Inflammatory Cytokines Induce NOTCH Signaling in Nucleus Pulposus Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 16761-16774.	3.4	93
60	Interleukin-1 receptor antagonist deficient mice provide insights into pathogenesis of human intervertebral disc degeneration. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 1860-1867.	0.9	101
61	Differential Effects of Polyphenols on Proliferation and Apoptosis in Human Myeloid and Lymphoid Leukemia Cell Lines. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013, 13, 1601-1613.	1.7	48
62	Effects of Bioactive Compounds from Carrots ( <i>Daucus carota</i> L.), Polyacetylenes, Beta-Carotene and Lutein on Human Lymphoid Leukaemia Cells. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012, 12, 640-652.	1.7	72
63	Bioactive Actions of Pomegranate Fruit Extracts on Leukemia Cell Lines In Vitro Hold Promise for New Therapeutic Agents for Leukemia. <i>Nutrition and Cancer</i> , 2012, 64, 100-110.	2.0	36
64	Cannabinoids: novel therapies for arthritis?. <i>Future Medicinal Chemistry</i> , 2012, 4, 713-725.	2.3	15
65	Bioactive Chemicals from Carrot ( <i>Daucus carota</i> ) Juice Extracts for the Treatment of Leukemia. <i>Journal of Medicinal Food</i> , 2011, 14, 1303-1312.	1.5	36
66	Altered integrin mechanotransduction in human nucleus pulposus cells derived from degenerated discs. <i>Arthritis and Rheumatism</i> , 2009, 60, 460-469.	6.7	81
67	Modified expression of the ADAMTS enzymes and tissue inhibitor of metalloproteinases 3 during human intervertebral disc degeneration. <i>Arthritis and Rheumatism</i> , 2009, 60, 482-491.	6.7	232
68	Development of an <i>in vitro</i> model to test the efficacy of novel therapies for IVD degeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 461-469.	2.7	13
69	Expression of cartilage-derived morphogenetic protein in human intervertebral discs and its effect on matrix synthesis in degenerate human nucleus pulposus cells. <i>Arthritis Research and Therapy</i> , 2009, 11, R137.	3.5	58
70	An <i>in vitro</i> study investigating the survival and phenotype of mesenchymal stem cells following injection into nucleus pulposus tissue. <i>Arthritis Research and Therapy</i> , 2009, 11, R20.	3.5	87
71	Connective tissue growth factor expression in human intervertebral disc: implications for angiogenesis in intervertebral disc degeneration. <i>Biotechnic and Histochemistry</i> , 2008, 83, 239-245.	1.3	43
72	Caveolin-1 expression and stress-induced premature senescence in human intervertebral disc degeneration. <i>Arthritis Research and Therapy</i> , 2008, 10, R87.	3.5	55

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73	Investigation of the role of IL-1 and TNF in matrix degradation in the intervertebral disc. <i>Rheumatology</i> , 2008, 47, 809-814.	1.9	222
74	Human cells derived from degenerate intervertebral discs respond differently to those derived from non-degenerate intervertebral discs following application of dynamic hydrostatic pressure. <i>Biorheology</i> , 2008, 45, 563-575.	0.4	57
75	Human cells derived from degenerate intervertebral discs respond differently to those derived from non-degenerate intervertebral discs following application of dynamic hydrostatic pressure. <i>Biorheology</i> , 2008, 45, 563-75.	0.4	29
76	Matrix synthesis and degradation in human intervertebral disc degeneration. <i>Biochemical Society Transactions</i> , 2007, 35, 652-655.	3.4	424
77	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. <i>Arthritis Research and Therapy</i> , 2007, 9, R83.	3.5	140
78	Catabolic cytokine expression in degenerate and herniated human intervertebral discs: IL-1 $\beta$ and TNF $\alpha$ expression profile. <i>Arthritis Research and Therapy</i> , 2007, 9, R77.	3.5	502
79	Accelerated cellular senescence in degenerate intervertebral discs: a possible role in the pathogenesis of intervertebral disc degeneration. <i>Arthritis Research and Therapy</i> , 2007, 9, R45.	3.5	365
80	A study of pH-responsive microgel dispersions: from fluid-to-gel transitions to mechanical property restoration for load-bearing tissue. <i>Soft Matter</i> , 2007, 3, 486.	2.7	46
81	A preliminary in vitro study into the use of IL-1Ra gene therapy for the inhibition of intervertebral disc degeneration. <i>International Journal of Experimental Pathology</i> , 2006, 87, 17-28.	1.3	93
82	Expression of receptors for putative anabolic growth factors in human intervertebral disc: implications for repair and regeneration of the disc. <i>Journal of Pathology</i> , 2005, 207, 445-452.	4.5	72
83	The role of interleukin-1 in the pathogenesis of human intervertebral disc degeneration. <i>Arthritis Research</i> , 2005, 7, R732.	2.0	695
84	Localization of degradative enzymes and their inhibitors in the degenerate human intervertebral disc. <i>Journal of Pathology</i> , 2004, 204, 47-54.	4.5	395
85	Studies of Human Intervertebral Disc Cell Function in a Constrained In Vitro Tissue Culture System. <i>Spine</i> , 2004, 29, 1187-1195.	2.0	34
86	Voltage-gated calcium channels partly mediate Mechanotransduction in the intervertebral disc. <i>JOR Spine</i> , 0, , .	3.2	1
87	Immuno-Modulatory Effects of Intervertebral Disc Cells. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	20