

# Louise C Laurent

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	8,957 citations	39 h-index	87 g-index
87 ext. papers	12,110 ext. citations	12.8 avg, IF	5.69 L-index

#	Paper	IF	Citations
76	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , <b>2018</b> , 7, 1535750	16.4	3642
75	Dynamic changes in the copy number of pluripotency and cell proliferation genes in human ESCs and iPSCs during reprogramming and time in culture. <i>Cell Stem Cell</i> , <b>2011</b> , 8, 106-18	18	700
74	RNA delivery by extracellular vesicles in mammalian cells and its applications. <i>Nature Reviews Molecular Cell Biology</i> , <b>2020</b> , 21, 585-606	48.7	410
73	Statistically based splicing detection reveals neural enrichment and tissue-specific induction of circular RNA during human fetal development. <i>Genome Biology</i> , <b>2015</b> , 16, 126	18.3	363
72	Recurrent variations in DNA methylation in human pluripotent stem cells and their differentiated derivatives. <i>Cell Stem Cell</i> , <b>2012</b> , 10, 620-34	18	304
71	Abnormalities in human pluripotent cells due to reprogramming mechanisms. <i>Nature</i> , <b>2014</b> , 511, 177-83	50.4	255
70	Targeted gene correction of laminopathy-associated LMNA mutations in patient-specific iPSCs. <i>Cell Stem Cell</i> , <b>2011</b> , 8, 688-94	18	188
69	Comprehensive microRNA profiling reveals a unique human embryonic stem cell signature dominated by a single seed sequence. <i>Stem Cells</i> , <b>2008</b> , 26, 1506-16	5.8	184
68	Extracellular vesicles: roles in gamete maturation, fertilization and embryo implantation. <i>Human Reproduction Update</i> , <b>2016</b> , 22, 182-93	15.8	170
67	exRNA Atlas Analysis Reveals Distinct Extracellular RNA Cargo Types and Their Carriers Present across Human Biofluids. <i>Cell</i> , <b>2019</b> , 177, 463-477.e15	56.2	144
66	Small RNA Sequencing across Diverse Biofluids Identifies Optimal Methods for exRNA Isolation. <i>Cell</i> , <b>2019</b> , 177, 446-462.e16	56.2	142
65	Unraveling epigenetic regulation in embryonic stem cells. <i>Cell Stem Cell</i> , <b>2008</b> , 2, 123-34	18	137
64	Metabolic rescue in pluripotent cells from patients with mtDNA disease. <i>Nature</i> , <b>2015</b> , 524, 234-8	50.4	133
63	Role of astroglia in Down's syndrome revealed by patient-derived human-induced pluripotent stem cells. <i>Nature Communications</i> , <b>2014</b> , 5, 4430	17.4	127
62	The Neonatal and Adult Human Testis Defined at the Single-Cell Level. <i>Cell Reports</i> , <b>2019</b> , 26, 1501-1517.e46	10.46	117
61	The functions of microRNAs in pluripotency and reprogramming. <i>Nature Cell Biology</i> , <b>2012</b> , 14, 1114-21	23.4	115
60	Mechanisms of nuclear content loading to exosomes. <i>Science Advances</i> , <b>2019</b> , 5, eaax8849	14.3	98

59	Increased risk of genetic and epigenetic instability in human embryonic stem cells associated with specific culture conditions. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118307	3.7	97
58	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. <i>Cell</i> , <b>2019</b> , 177, 231-242	56.2	91
57	Comprehensive multi-center assessment of small RNA-seq methods for quantitative miRNA profiling. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 746-757	44.5	85
56	BMP4-directed trophoblast differentiation of human embryonic stem cells is mediated through a Np63+ cytotrophoblast stem cell state. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 3965-76	6.6	85
55	Towards computational prediction of microRNA function and activity. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, e160	20.1	75
54	A panel of induced pluripotent stem cells from chimpanzees: a resource for comparative functional genomics. <i>ELife</i> , <b>2015</b> , 4, e07103	8.9	71
53	Incompatibility between Nuclear and Mitochondrial Genomes Contributes to an Interspecies Reproductive Barrier. <i>Cell Metabolism</i> , <b>2016</b> , 24, 283-94	24.6	66
52	Comparative analysis of mouse and human placentae across gestation reveals species-specific regulators of placental development. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	64
51	Hypoxia Directs Human Extravillous Trophoblast Differentiation in a Hypoxia-Inducible Factor-Dependent Manner. <i>American Journal of Pathology</i> , <b>2017</b> , 187, 767-780	5.8	61
50	Maternal obesity and sex-specific differences in placental pathology. <i>Placenta</i> , <b>2016</b> , 38, 33-40	3.4	59
49	Glioma-Derived miRNA-Containing Extracellular Vesicles Induce Angiogenesis by Reprogramming Brain Endothelial Cells. <i>Cell Reports</i> , <b>2020</b> , 30, 2065-2074.e4	10.6	58
48	DNA methylation in embryonic stem cells. <i>Journal of Cellular Biochemistry</i> , <b>2010</b> , 109, 1-6	4.7	55
47	Extracellular RNAs: development as biomarkers of human disease. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 27495	16.4	54
46	Normal human pluripotent stem cell lines exhibit pervasive mosaic aneuploidy. <i>PLoS ONE</i> , <b>2011</b> , 6, e23018	3.7	53
45	Stage-specific regulation of the WNT/β-catenin pathway enhances differentiation of hESCs into hepatocytes. <i>Journal of Hepatology</i> , <b>2016</b> , 64, 1315-26	13.4	51
44	Human stem cells from single blastomeres reveal pathways of embryonic or trophoblast fate specification. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 4010-25	6.6	49
43	MicroRNAs in embryonic stem cells and early embryonic development. <i>Journal of Cellular and Molecular Medicine</i> , <b>2008</b> , 12, 2181-8	5.6	49
42	Neural Stem Cells Derived From Human Parthenogenetic Stem Cells Engraft and Promote Recovery in a Nonhuman Primate Model of Parkinson's Disease. <i>Cell Transplantation</i> , <b>2016</b> , 25, 1945-1966	4	46

41	Meeting report: discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 26533	16.4	45
40	Nonsense-Mediated RNA Decay Influences Human Embryonic Stem Cell Fate. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 844-857	8	43
39	Establishment of human iPSC-based models for the study and targeting of glioma initiating cells. <i>Nature Communications</i> , <b>2016</b> , 7, 10743	17.4	42
38	Matched miRNA and mRNA signatures from an hESC-based in vitro model of pancreatic differentiation reveal novel regulatory interactions. <i>Journal of Cell Science</i> , <b>2013</b> , 126, 3848-61	5.3	39
37	Integration of extracellular RNA profiling data using metadata, biomedical ontologies and Linked Data technologies. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 27497	16.4	34
36	Hitting the diagnostic sweet spot: Point-of-care SARS-CoV-2 salivary antigen testing with an off-the-shelf glucometer. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 180, 113111	11.8	32
35	Miniaturization Technologies for Efficient Single-Cell Library Preparation for Next-Generation Sequencing. <i>Journal of the Association for Laboratory Automation</i> , <b>2016</b> , 21, 557-67		32
34	Comparison of Reproducibility, Accuracy, Sensitivity, and Specificity of miRNA Quantification Platforms. <i>Cell Reports</i> , <b>2019</b> , 29, 4212-4222.e5	10.6	28
33	Concise Review: Embryonic Stem Cells Derived by Somatic Cell Nuclear Transfer: A Horse in the Race?. <i>Stem Cells</i> , <b>2017</b> , 35, 26-34	5.8	27
32	Chromatin Modification and Global Transcriptional Silencing in the Oocyte Mediated by the mRNA Decay Activator ZFP36L2. <i>Developmental Cell</i> , <b>2018</b> , 44, 392-402.e7	10.2	25
31	Extending gene ontology in the context of extracellular RNA and vesicle communication. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 19	2.2	23
30	Spontaneous Single-Copy Loss of TP53 in Human Embryonic Stem Cells Markedly Increases Cell Proliferation and Survival. <i>Stem Cells</i> , <b>2017</b> , 35, 872-885	5.8	19
29	The epigenome in pluripotency and differentiation. <i>Epigenomics</i> , <b>2014</b> , 6, 121-37	4.4	18
28	Sirtuin1 is required for proper trophoblast differentiation and placental development in mice. <i>Placenta</i> , <b>2018</b> , 62, 1-8	3.4	16
27	Subclinical and clinical chorioamnionitis, fetal vasculitis, and risk for preterm birth: A cohort study. <i>Placenta</i> , <b>2018</b> , 67, 54-60	3.4	15
26	Discovery and Verification of Extracellular miRNA Biomarkers for Non-invasive Prediction of Pre-eclampsia in Asymptomatic Women. <i>Cell Reports Medicine</i> , <b>2020</b> , 1,	18	13
25	Performance of a proteomic preterm delivery predictor in a large independent prospective cohort. <i>American Journal of Obstetrics &amp; Gynecology MFM</i> , <b>2020</b> , 2, 100140	7.4	12
24	Modulation of the endocrine transcriptional program by targeting histone modifiers of the H3K27me3 mark. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2018</b> , 1861, 473-480	6	9

23	Genomic analysis of hESC pedigrees identifies de novo mutations and enables determination of the timing and origin of mutational events. <i>Cell Reports</i> , <b>2013</b> , 4, 1288-302	10.6	9
22	Modeling preeclampsia using human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 5877	4.9	8
21	Profiling Extracellular Long RNA Transcriptome in Human Plasma and Extracellular Vesicles for Biomarker Discovery. <i>IScience</i> , <b>2020</b> , 23, 101182	6.1	6
20	Isolation of Extracellular RNA from Serum/Plasma. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1740, 43-57	1.4	6
19	Uncovering changes in proteomic signature of rat pelvic floor muscles in pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , <b>2019</b> , 221, 130.e1-130.e9	6.4	5
18	Severe acute respiratory coronavirus virus 2 (SARS-CoV-2) screening among symptom-free healthcare workers. <i>Infection Control and Hospital Epidemiology</i> , <b>2021</b> , 1-4	2	5
17	Transcriptomic Drivers of Differentiation, Maturation, and Polyploidy in Human Extravillous Trophoblast. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 702046	5.7	5
16	Tolerance of human embryonic stem cell derived islet progenitor cells to vitrification-relevant solutions. <i>Cryobiology</i> , <b>2015</b> , 70, 283-6	2.7	3
15	Maternal and neonatal outcomes after antenatal corticosteroid administration for PPROM at 32 to 33 6/7 weeks gestational age. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2017</b> , 30, 1676-1680	2	3
14	Getting off the ground state: X chromosome inactivation knocks down barriers to differentiation. <i>Cell Stem Cell</i> , <b>2014</b> , 14, 131-2	18	2
13	Analysis of SARS-CoV-2 RNA Persistence across Indoor Surface Materials Reveals Best Practices for Environmental Monitoring Programs. <i>MSystems</i> , <b>2021</b> , e0113621	7.6	2
12	Equally potent? Does cellular reprogramming justify the abandonment of human embryonic stem cells?. <i>EMBO Reports</i> , <b>2012</b> , 13, 890-4	6.5	1
11	Circulating melanoma cells isolated from clinical blood samples and characterized by full-length mRNA sequencing at single-cell level.. <i>Journal of Clinical Oncology</i> , <b>2012</b> , 30, 10539-10539	2.2	1
10	High altitude regulates the expression of AMPK pathways in human placenta. <i>Placenta</i> , <b>2021</b> , 104, 267-276	3.4	1
9	A Novel Tissue Atlas and Online Tool for the Interrogation of Small RNA Expression in Human Tissues and Biofluids.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 804164	5.7	1
8	Distinct Stress-Dependent Signatures of Cellular and Extracellular tRNA-Derived Small RNAs.. <i>Advanced Science</i> , <b>2022</b> , e2200829	13.6	1
7	Dataset on optimization and development of a point-of-care glucometer-based SARS-CoV-2 detection assay using aptamers. <i>Data in Brief</i> , <b>2021</b> , 38, 107278	1.2	0
6	SNP Genotyping to Detect Genomic Alterations in Human Pluripotent Stem Cells <b>2012</b> , 203-221		

5 Analysis of Genome-Wide Gene Expression Data from Microarrays and Sequencing **2012**, 271-291

4 Epigenetics: DNA Methylation **2012**, 325-336

3 Epigenetic remodeling and stem cells. *Drug Discovery Today: Technologies*, **2008**, 5, e105-48 7.1

2 Improving Gene Targeting Efficiency in Human Pluripotent Stem Cells 211-225

1 Innovations in Placental Pathology **2022**, 837-867