Louise C Laurent

List of Publications by Year in Descending Order

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	A Novel Tissue Atlas and Online Tool for the Interrogation of Small RNA Expression in Human Tissues and Biofluids.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 804164	5.7	1
75	Distinct Stress-Dependent Signatures of Cellular and Extracellular tRNA-Derived Small RNAs.. *Advanced Science*, **2022**, e2200829	13.6	1
74	Innovations in Placental Pathology **2022**, 837-867		
73	Analysis of SARS-CoV-2 RNA Persistence across Indoor Surface Materials Reveals Best Practices for Environmental Monitoring Programs. *MSystems*, **2021**, e0113621	7.6	2
72	Modeling preeclampsia using human induced pluripotent stem cells. *Scientific Reports*, **2021**, 11, 5877	4.9	8
71	Severe acute respiratory coronavirus virus 2 (SARS-CoV-2) screening among symptom-free healthcare workers. *Infection Control and Hospital Epidemiology*, **2021**, 1-4	2	5
70	Hitting the diagnostic sweet spot: Point-of-care SARS-CoV-2 salivary antigen testing with an off-the-shelf glucometer. *Biosensors and Bioelectronics*, **2021**, 180, 113111	11.8	32
69	High altitude regulates the expression of AMPK pathways in human placenta. *Placenta*, **2021**, 104, 267-276	3.4	1
68	Transcriptomic Drivers of Differentiation, Maturation, and Polyploidy in Human Extravillous Trophoblast. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 702046	5.7	5
67	Dataset on optimization and development of a point-of-care glucometer-based SARS-CoV-2 detection assay using aptamers. *Data in Brief*, **2021**, 38, 107278	1.2	0
66	RNA delivery by extracellular vesicles in mammalian cells and its applications. *Nature Reviews Molecular Cell Biology*, **2020**, 21, 585-606	48.7	410
65	Performance of a proteomic preterm delivery predictor in a large independent prospective cohort. *American Journal of Obstetrics & Gynecology MFM*, **2020**, 2, 100140	7.4	12
64	Profiling Extracellular Long RNA Transcriptome in Human Plasma and Extracellular Vesicles for Biomarker Discovery. *IScience*, **2020**, 23, 101182	6.1	6
63	Glioma-Derived miRNA-Containing Extracellular Vesicles Induce Angiogenesis by Reprogramming Brain Endothelial Cells. *Cell Reports*, **2020**, 30, 2065-2074.e4	10.6	58
62	Discovery and Verification of Extracellular miRNA Biomarkers for Non-invasive Prediction of Pre-eclampsia in Asymptomatic Women. *Cell Reports Medicine*, **2020**, 1,	18	13
61	The Neonatal and Adult Human Testis Defined at the Single-Cell Level. *Cell Reports*, **2019**, 26, 1501-1517.e4	10.6	117
60	exRNA Atlas Analysis Reveals Distinct Extracellular RNA Cargo Types and Their Carriers Present across Human Biofluids. *Cell*, **2019**, 177, 463-477.e15	56.2	144

59	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. *Cell*, **2019**, 177, 231-242	56.2	91
58	Small RNA Sequencing across Diverse Biofluids Identifies Optimal Methods for exRNA Isolation. *Cell*, **2019**, 177, 446-462.e16	56.2	142
57	Uncovering changes in proteomic signature of rat pelvic floor muscles in pregnancy. *American Journal of Obstetrics and Gynecology*, **2019**, 221, 130.e1-130.e9	6.4	5
56	Mechanisms of nuclear content loading to exosomes. *Science Advances*, **2019**, 5, eaax8849	14.3	98
55	Comparison of Reproducibility, Accuracy, Sensitivity, and Specificity of miRNA Quantification Platforms. *Cell Reports*, **2019**, 29, 4212-4222.e5	10.6	28
54	Chromatin Modification and Global Transcriptional Silencing in the Oocyte Mediated by the mRNA Decay Activator ZFP36L2. *Developmental Cell*, **2018**, 44, 392-402.e7	10.2	25
53	Isolation of Extracellular RNA from Serum/Plasma. *Methods in Molecular Biology*, **2018**, 1740, 43-57	1.4	6
52	Comparative analysis of mouse and human placentae across gestation reveals species-specific regulators of placental development. *Development (Cambridge)*, **2018**, 145,	6.6	64
51	Modulation of the endocrine transcriptional program by targeting histone modifiers of the H3K27me3 mark. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2018**, 1861, 473-480	6	9
50	Comprehensive multi-center assessment of small RNA-seq methods for quantitative miRNA profiling. *Nature Biotechnology*, **2018**, 36, 746-757	44.5	85
49	Subclinical and clinical chorioamnionitis, fetal vasculitis, and risk for preterm birth: A cohort study. *Placenta*, **2018**, 67, 54-60	3.4	15
48	Sirtuin1 is required for proper trophoblast differentiation and placental development in mice. *Placenta*, **2018**, 62, 1-8	3.4	16
47	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. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750	16.4	3642
46	Hypoxia Directs Human Extravillous Trophoblast Differentiation in a Hypoxia-Inducible Factor-Dependent Manner. *American Journal of Pathology*, **2017**, 187, 767-780	5.8	61
45	Maternal and neonatal outcomes after antenatal corticosteroid administration for PPROM at 32 to 33 6/7 weeks gestational age. *Journal of Maternal-Fetal and Neonatal Medicine*, **2017**, 30, 1676-1680	2	3
44	Concise Review: Embryonic Stem Cells Derived by Somatic Cell Nuclear Transfer: A Horse in the Race?. *Stem Cells*, **2017**, 35, 26-34	5.8	27
43	Spontaneous Single-Copy Loss of TP53 in Human Embryonic Stem Cells Markedly Increases Cell Proliferation and Survival. *Stem Cells*, **2017**, 35, 872-885	5.8	19
42	Incompatibility between Nuclear and Mitochondrial Genomes Contributes to an Interspecies Reproductive Barrier. *Cell Metabolism*, **2016**, 24, 283-94	24.6	66

41	Establishment of human iPSC-based models for the study and targeting of glioma initiating cells. *Nature Communications*, **2016**, 7, 10743	17.4	42
40	Extending gene ontology in the context of extracellular RNA and vesicle communication. *Journal of Biomedical Semantics*, **2016**, 7, 19	2.2	23
39	Nonsense-Mediated RNA Decay Influences Human Embryonic Stem Cell Fate. *Stem Cell Reports*, **2016**, 6, 844-857	8	43
38	Maternal obesity and sex-specific differences in placental pathology. *Placenta*, **2016**, 38, 33-40	3.4	59
37	Stage-specific regulation of the WNT/Ecatenin pathway enhances differentiation of hESCs into hepatocytes. *Journal of Hepatology*, **2016**, 64, 1315-26	13.4	51
36	Extracellular vesicles: roles in gamete maturation, fertilization and embryo implantation. *Human Reproduction Update*, **2016**, 22, 182-93	15.8	170
35	Neural Stem Cells Derived from Human Parthenogenetic Stem Cells Engraft and Promote Recovery in a Nonhuman Primate Model of Parkinson's Disease. *Cell Transplantation*, **2016**, 25, 1945-1966	4	46
34	Miniaturization Technologies for Efficient Single-Cell Library Preparation for Next-Generation Sequencing. *Journal of the Association for Laboratory Automation*, **2016**, 21, 557-67		32
33	Metabolic rescue in pluripotent cells from patients with mtDNA disease. *Nature*, **2015**, 524, 234-8	50.4	133
32	Tolerance of human embryonic stem cell derived islet progenitor cells to vitrification-relevant solutions. *Cryobiology*, **2015**, 70, 283-6	2.7	3
31	Human stem cells from single blastomeres reveal pathways of embryonic or trophoblast fate specification. *Development (Cambridge)*, **2015**, 142, 4010-25	6.6	49
30	Meeting report: discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium. *Journal of Extracellular Vesicles*, **2015**, 4, 26533	16.4	45
29	Extracellular RNAs: development as biomarkers of human disease. *Journal of Extracellular Vesicles*, **2015**, 4, 27495	16.4	54
28	Integration of extracellular RNA profiling data using metadata, biomedical ontologies and Linked Data technologies. *Journal of Extracellular Vesicles*, **2015**, 4, 27497	16.4	34
27	Increased risk of genetic and epigenetic instability in human embryonic stem cells associated with specific culture conditions. *PLoS ONE*, **2015**, 10, e0118307	3.7	97
26	A panel of induced pluripotent stem cells from chimpanzees: a resource for comparative functional genomics. *ELife*, **2015**, 4, e07103	8.9	71
25	Statistically based splicing detection reveals neural enrichment and tissue-specific induction of circular RNA during human fetal development. *Genome Biology*, **2015**, 16, 126	18.3	363
24	The epigenome in pluripotency and differentiation. *Epigenomics*, **2014**, 6, 121-37	4.4	18

23	Role of astroglia in Down's syndrome revealed by patient-derived human-induced pluripotent stem cells. *Nature Communications*, **2014**, 5, 4430	17.4	127
22	Abnormalities in human pluripotent cells due to reprogramming mechanisms. *Nature*, **2014**, 511, 177-83	50.4	255
21	Getting off the ground state: X chromosome inactivation knocks down barriers to differentiation. *Cell Stem Cell*, **2014**, 14, 131-2	18	2
20	BMP4-directed trophoblast differentiation of human embryonic stem cells is mediated through a ΔNp63+ cytotrophoblast stem cell state. *Development (Cambridge)*, **2013**, 140, 3965-76	6.6	85
19	Genomic analysis of hESC pedigrees identifies de novo mutations and enables determination of the timing and origin of mutational events. *Cell Reports*, **2013**, 4, 1288-302	10.6	9
18	Matched miRNA and mRNA signatures from an hESC-based in vitro model of pancreatic differentiation reveal novel regulatory interactions. *Journal of Cell Science*, **2013**, 126, 3848-61	5.3	39
17	SNP Genotyping to Detect Genomic Alterations in Human Pluripotent Stem Cells **2012**, 203-221		
16	Analysis of Genome-Wide Gene Expression Data from Microarrays and Sequencing **2012**, 271-291		
15	The functions of microRNAs in pluripotency and reprogramming. *Nature Cell Biology*, **2012**, 14, 1114-21	23.4	115
14	Recurrent variations in DNA methylation in human pluripotent stem cells and their differentiated derivatives. *Cell Stem Cell*, **2012**, 10, 620-34	18	304
13	Equally potent? Does cellular reprogramming justify the abandonment of human embryonic stem cells?. *EMBO Reports*, **2012**, 13, 890-4	6.5	1
12	Epigenetics: DNA Methylation **2012**, 325-336		
11	Circulating melanoma cells isolated from clinical blood samples and characterized by full-length mRNA sequencing at single-cell level.. *Journal of Clinical Oncology*, **2012**, 30, 10539-10539	2.2	1
10	Dynamic changes in the copy number of pluripotency and cell proliferation genes in human ESCs and iPSCs during reprogramming and time in culture. *Cell Stem Cell*, **2011**, 8, 106-18	18	700
9	Targeted gene correction of laminopathy-associated LMNA mutations in patient-specific iPSCs. *Cell Stem Cell*, **2011**, 8, 688-94	18	188
8	Normal human pluripotent stem cell lines exhibit pervasive mosaic aneuploidy. *PLoS ONE*, **2011**, 6, e23018	3.7	53
7	Towards computational prediction of microRNA function and activity. *Nucleic Acids Research*, **2010**, 38, e160	20.1	75
6	DNA methylation in embryonic stem cells. *Journal of Cellular Biochemistry*, **2010**, 109, 1-6	4.7	55

5	MicroRNAs in embryonic stem cells and early embryonic development. *Journal of Cellular and Molecular Medicine*, **2008**, 12, 2181-8	5.6	49
4	Epigenetic remodeling and stem cells. *Drug Discovery Today: Technologies*, **2008**, 5, e105-48	7.1	
3	Unraveling epigenetic regulation in embryonic stem cells. *Cell Stem Cell*, **2008**, 2, 123-34	18	137
2	Comprehensive microRNA profiling reveals a unique human embryonic stem cell signature dominated by a single seed sequence. *Stem Cells*, **2008**, 26, 1506-16	5.8	184
1	Improving Gene Targeting Efficiency in Human Pluripotent Stem Cells211-225		