Lynne Marie Postovit

List of Publications by Citations

98 papers	4,829 citations	36 h-index	68 g-index
103 ext. papers	5,518 ext. citations	7.6 avg, IF	5.54 L-index

#	Paper	IF	Citations
98	Matrigel: a complex protein mixture required for optimal growth of cell culture. *Proteomics*, **2010**, 10, 1886-90	4.8	832
97	Reprogramming metastatic tumour cells with embryonic microenvironments. *Nature Reviews Cancer*, **2007**, 7, 246-55	31.3	377
96	Embryonic and tumorigenic pathways converge via Nodal signaling: role in melanoma aggressiveness. *Nature Medicine*, **2006**, 12, 925-32	50.5	373
95	Human embryonic stem cell microenvironment suppresses the tumorigenic phenotype of aggressive cancer cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 4329-34	11.5	234
94	Beta-arrestin/Ral signaling regulates lysophosphatidic acid-mediated migration and invasion of human breast tumor cells. *Molecular Cancer Research*, **2009**, 7, 1064-77	6.6	125
93	Focal adhesion kinase promotes the aggressive melanoma phenotype. *Cancer Research*, **2005**, 65, 9851-60	10.1	119
92	Activated macrophages inhibit human cytotrophoblast invasiveness in vitro. *Biology of Reproduction*, **2005**, 73, 237-43	3.9	107
91	Influence of the microenvironment on melanoma cell fate determination and phenotype. *Cancer Research*, **2006**, 66, 7833-6	10.1	97
90	Regulation of the embryonic morphogen Nodal by Notch4 facilitates manifestation of the aggressive melanoma phenotype. *Cancer Research*, **2010**, 70, 10340-50	10.1	95
89	Adriana and Luisa Castellucci award lecture 1999: role of oxygen in the regulation of trophoblast gene expression and invasion. *Placenta*, **2000**, 21, 443-50	3.4	90
88	COX-2 Induces Breast Cancer Stem Cells via EP4/PI3K/AKT/NOTCH/WNT Axis. *Stem Cells*, **2016**, 34, 2290-305	5.8	85
87	Reactivation of embryonic nodal signaling is associated with tumor progression and promotes the growth of prostate cancer cells. *Prostate*, **2011**, 71, 1198-209	4.2	84
86	A three-dimensional model to study the epigenetic effects induced by the microenvironment of human embryonic stem cells. *Stem Cells*, **2006**, 24, 501-5	5.8	84
85	Oxygen-mediated regulation of tumor cell invasiveness. Involvement of a nitric oxide signaling pathway. *Journal of Biological Chemistry*, **2002**, 277, 35730-7	5.4	83
84	Oxygen-mediated regulation of gelatinase and tissue inhibitor of metalloproteinases-1 expression by invasive cells. *Experimental Cell Research*, **2001**, 267, 88-94	4.2	80
83	Development and cancer: at the crossroads of Nodal and Notch signaling. *Cancer Research*, **2009**, 69, 7131-4	10.1	75
82	Reprogramming multipotent tumor cells with the embryonic neural crest microenvironment. *Developmental Dynamics*, **2008**, 237, 2657-66	2.9	75

81	Hypoxia/reoxygenation: a dynamic regulator of lysyl oxidase-facilitated breast cancer migration. *Journal of Cellular Biochemistry*, **2008**, 103, 1369-78	4.7	74
80	Microenvironmental regulation of cancer stem cell phenotypes. *Current Stem Cell Research and Therapy*, **2012**, 7, 197-216	3.6	71
79	GPR54 (KISS1R) transactivates EGFR to promote breast cancer cell invasiveness. *PLoS ONE*, **2011**, 6, e21599	3.7	68
78	Nodal signalling in embryogenesis and tumourigenesis. *International Journal of Biochemistry and Cell Biology*, **2013**, 45, 885-98	5.6	64
77	Epithelial-to-Mesenchymal Transition in the Female Reproductive Tract: From Normal Functioning to Disease Pathology. *Frontiers in Oncology*, **2017**, 7, 145	5.3	63
76	Concurrent ARID1A and ARID1B inactivation in endometrial and ovarian dedifferentiated carcinomas. *Modern Pathology*, **2016**, 29, 1586-1593	9.8	59
75	Nodal as a biomarker for melanoma progression and a new therapeutic target for clinical intervention. *Expert Review of Dermatology*, **2009**, 4, 67-78		59
74	A Critical Review on the Effect of Docosahexaenoic Acid (DHA) on Cancer Cell Cycle Progression. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	58
73	Nitric oxide-mediated regulation of hypoxia-induced B16F10 melanoma metastasis. *International Journal of Cancer*, **2004**, 108, 47-53	7.5	57
72	Emerging roles of nodal and Cripto-1: from embryogenesis to breast cancer progression. *Breast Disease*, **2008**, 29, 91-103	1.6	52
71	A Digital PCR-Based Method for Efficient and Highly Specific Screening of Genome Edited Cells. *PLoS ONE*, **2016**, 11, e0153901	3.7	52
70	The commonality of plasticity underlying multipotent tumor cells and embryonic stem cells. *Journal of Cellular Biochemistry*, **2007**, 101, 908-17	4.7	51
69	Role of nodal signaling and the microenvironment underlying melanoma plasticity. *Pigment Cell and Melanoma Research*, **2008**, 21, 348-57	4.5	48
68	The epigenetic influence of tumor and embryonic microenvironments: how different are they?. *Cancer Microenvironment*, **2008**, 1, 13-21	6.1	44
67	Assessing breast cancer cell lines as tumour models by comparison of mRNA expression profiles. *Breast Cancer Research*, **2015**, 17, 114	8.3	42
66	Neuropeptide Y stimulates proliferation and migration in the 4T1 breast cancer cell line. *International Journal of Cancer*, **2012**, 131, 276-86	7.5	41
65	Activation of cancer-associated fibroblasts is required for tumor neovascularization in a murine model of melanoma. *Matrix Biology*, **2018**, 74, 52-61	11.4	38
64	Proteomic analysis of extracellular matrices used in stem cell culture. *Proteomics*, **2011**, 11, 3983-91	4.8	37

63	Targeting Nodal in malignant melanoma cells. *Expert Opinion on Therapeutic Targets*, **2007**, 11, 497-505	6.4	37
62	Embryonic protein nodal promotes breast cancer vascularization. *Cancer Research*, **2012**, 72, 3851-63	10.1	35
61	Nitric oxide signalling and cellular adaptations to changes in oxygenation. *Toxicology*, **2005**, 208, 235-48	4.4	35
60	Embryonic morphogen nodal promotes breast cancer growth and progression. *PLoS ONE*, **2012**, 7, e48237	3.7	33
59	In situ loading of basic fibroblast growth factor within porous silica nanoparticles for a prolonged release. *Nanoscale Research Letters*, **2009**, 4, 1297-302	5	33
58	Mass spectrometry-based proteomic analysis of the matrix microenvironment in pluripotent stem cell culture. *Molecular and Cellular Proteomics*, **2012**, 11, 1924-36	7.6	33
57	Investigating the utility of human melanoma cell lines as tumour models. *Oncotarget*, **2017**, 8, 10498-10509	5.9	32
56	Translational control of breast cancer plasticity. *Nature Communications*, **2020**, 11, 2498	17.4	31
55	Low oxygen levels induce the expression of the embryonic morphogen Nodal. *Molecular Biology of the Cell*, **2011**, 22, 4809-21	3.5	31
54	Developmental potential of rat extraembryonic stem cells. *Stem Cells and Development*, **2009**, 18, 1309-18	4.4	28
53	A pan-cancer analysis of secreted Frizzled-related proteins: re-examining their proposed tumour suppressive function. *Scientific Reports*, **2017**, 7, 42719	4.9	27
52	CCN2 Expression by Tumor Stroma Is Required for Melanoma Metastasis. *Journal of Investigative Dermatology*, **2015**, 135, 2805-2813	4.3	27
51	Nitric oxide signaling in human ovarian cancer: A potential therapeutic target. *Nitric Oxide - Biology and Chemistry*, **2016**, 54, 30-7	5	26
50	Microenvironmental regulation of telomerase isoforms in human embryonic stem cells. *Stem Cells and Development*, **2014**, 23, 2046-66	4.4	26
49	Post-transcriptional regulation in cancer progression : Microenvironmental control of alternative splicing and translation. *Journal of Cell Communication and Signaling*, **2012**, 6, 233-48	5.2	26
48	RUNX3 contributes to carboplatin resistance in epithelial ovarian cancer cells. *Gynecologic Oncology* , **2015**, 138, 647-55	4.9	22
47	Comparison of sample preparation techniques for large-scale proteomics. *Proteomics*, **2017**, 17, 1600337	4.8	22
46	Calpain is required for MMP-2 and u-PA expression in SV40 large T-antigen-immortalized cells. *Biochemical and Biophysical Research Communications*, **2002**, 297, 294-301	3.4	21

45	MNK1/NODAL Signaling Promotes Invasive Progression of Breast Ductal Carcinoma. *Cancer Research*, **2019**, 79, 1646-1657	10.1	19
44	Paracrine Crosstalk between Fibroblasts and ER Breast Cancer Cells Creates an IL1Enriched Niche that Promotes Tumor Growth. *IScience*, **2019**, 19, 388-401	6.1	18
43	Defining the Na/H exchanger NHE1 interactome in triple-negative breast cancer cells. *Cellular Signalling*, **2017**, 29, 69-77	4.9	18
42	Oxygen as a regulator of cellular phenotypes in pregnancy and cancer. *Canadian Journal of Physiology and Pharmacology*, **2002**, 80, 103-9	2.4	18
41	Proteomics-Derived Biomarker Panel Improves Diagnostic Precision to Classify Endometrioid and High-grade Serous Ovarian Carcinoma. *Clinical Cancer Research*, **2019**, 25, 4309-4319	12.9	17
40	Proteomics of human embryonic stem cells. *Proteomics*, **2011**, 11, 675-90	4.8	17
39	Functional Plasticity of Gamma Delta T Cells and Breast Tumor Targets in Hypoxia. *Frontiers in Immunology*, **2018**, 9, 1367	8.4	15
38	Exploiting the convergence of embryonic and tumorigenic signaling pathways to develop new therapeutic targets. *Stem Cell Reviews and Reports*, **2007**, 3, 68-78	6.4	14
37	Insights into Fibroblast Plasticity: Cellular Communication Network 2 Is Required for Activation of Cancer-Associated Fibroblasts in a Murine Model of Melanoma. *American Journal of Pathology*, **2020**, 190, 206-221	5.8	13
36	Illuminating luminal B: QSOX1 as a subtype-specific biomarker. *Breast Cancer Research*, **2013**, 15, 104	8.3	12
35	Targeting N-myristoylation for therapy of B-cell lymphomas. *Nature Communications*, **2020**, 11, 5348	17.4	12
34	RASSF1A Site-Specific Methylation Hotspots in Cancer and Correlation with RASSF1C and MOAP-1. *Cancers*, **2016**, 8,	6.6	12
33	A unique 3D in vitro cellular invasion assay. *Journal of Biomolecular Screening*, **2012**, 17, 1088-95		11
32	Matricellular proteins in cancer: a focus on secreted Frizzled-related proteins. *Journal of Cell Communication and Signaling*, **2018**, 12, 103-112	5.2	10
31	SWI/SNF-deficiency defines highly aggressive undifferentiated endometrial carcinoma. *Journal of Pathology: Clinical Research*, **2021**, 7, 144-153	5.3	10
30	Cancer as an ecomolecular disease and a neoplastic consortium. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2017**, 1868, 484-499	11.2	9
29	Nodal signals via arrestins and RalGTPases to regulate trophoblast invasion. *Cellular Signalling*, **2014**, 26, 1935-42	4.9	9
28	Pharmacological Inhibition of p38 MAPK by SB203580 Increases Resistance to Carboplatin in A2780cp Cells and Promotes Growth in Primary Ovarian Cancer Cells. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	8

27	Apoptosis Induced Gamma Delta T Cell Antigen Receptor "Blocking" Antibodies: A Cautionary Tale. *Frontiers in Immunology*, **2017**, 8, 776	8.4	8
26	Cancer Plasticity: The Role of mRNA Translation. *Trends in Cancer*, **2021**, 7, 134-145	12.5	8
25	Brief Report: Common Genetic Variation in Chromosome 10 q22.1 Shows a Strong Sex Bias in Human Embryonic Stem Cell Lines and Directly Controls the Novel Alternative Splicing of Human NODAL which is Associated with XIST Expression in Female Cell Lines. *Stem Cells*, **2016**, 34, 791-6	5.8	7
24	N-3 Long-Chain Polyunsaturated Fatty Acids, Eicosapentaenoic and Docosahexaenoic Acid, and the Role of Supplementation during Cancer Treatment: A Scoping Review of Current Clinical Evidence. *Cancers*, **2021**, 13,	6.6	6
23	Aberrantly Expressed Embryonic Protein NODAL Alters Breast Cancer Cell Susceptibility to □T Cell Cytotoxicity. *Frontiers in Immunology*, **2020**, 11, 1287	8.4	5
22	RUNX3 Promotes the Tumorigenic Phenotype in KGN, a Human Granulosa Cell Tumor-Derived Cell Line. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
21	CD11d □2 integrin expression on human NK, B, and □T cells. *Journal of Leukocyte Biology*, **2017**, 101, 1029-1035	6.5	5
20	Genetically-encoded discovery of proteolytically stable bicyclic inhibitors for morphogen NODAL. *Chemical Science*, **2021**, 12, 9694-9703	9.4	4
19	ADAM protease inhibition overcomes resistance of breast cancer stem-like cells to □T cell immunotherapy. *Cancer Letters*, **2021**, 496, 156-168	9.9	3
18	SMARCA4/2 loss inhibits chemotherapy-induced apoptosis by restricting IP3R3-mediated Ca flux to mitochondria. *Nature Communications*, **2021**, 12, 5404	17.4	3
17	Comprehensive characterization of transcript diversity at the humanNODALlocus		2
16	Genome profiles of lymphovascular breast cancer cells reveal multiple clonally differentiated outcomes with multi-regional LCM and G&T-seq		2
15	Embryonic protein NODAL regulates the breast tumor microenvironment by reprogramming cancer-derived secretomes. *Neoplasia*, **2021**, 23, 375-390	6.4	2
14	Docosahexaenoic acid enrichment of tumor phospholipid membranes increases tumor necroptosis in mice bearing triple negative breast cancer patient-derived xenografts.. *Journal of Nutritional Biochemistry*, **2022**, 109018	6.3	2
13	Delivering Antisense Morpholino Oligonucleotides to Target Telomerase Splice Variants in Human Embryonic Stem Cells. *Methods in Molecular Biology*, **2016**, 1341, 133-42	1.4	1
12	Characterization of ovarian cancer-derived extracellular vesicles by surface-enhanced Raman spectroscopy. *Analyst, The*, **2021**, 146, 7194-7206	5	1
11	Genetically regulated humanNODALsplice variants are differentially post-transcriptionally processed and functionally distinct		1
10	ADAM protease inhibition overcomes resistance of breast cancer stem-like cells to □T cell immunotherapy		1

List of Publications

9	Overview of Tumor Cells and the Microenvironment **2009**, 69-73		1
8	Plasticity Underlying Multipotent Tumor Stem Cells **2009**, 99-112		1
7	Docosahexaenoic Acid in the Inhibition of Tumor Cell Growth in Preclinical Models of Ovarian Cancer. *Nutrition and Cancer*, **2021**, 1-15	2.8	1
6	Genome profiles of pathologist-defined cell clusters by multiregional LCM and G&T-seq in one triple-negative breast cancer patient. *Cell Reports Medicine*, **2021**, 2, 100404	18	0
5	Role of Nitric Oxide in the Regulation of the Pro-tumourigenic Hypoxic Phenotype: From Instigation to Mitigation **2015**, 65-84		
4	Reply to Melanoma pathogenesis and Nodal: a partial picture?. *Nature Medicine*, **2006**, 12, 1231-1231	50.5	
3	Co-localization of nodal in hypoxic regions of tumours as seen using confocal microscopy and stereoscopic 3D reconstruction methods. *FASEB Journal*, **2009**, 23, 829.3	0.9	
2	Influence of the Embryonic Microenvironment on Tumor Progression **2011**, 223-242		
1	Preventing phenotypic plasticity in cancer to mitigate therapy resistance **2021**, 119-160		