

David Lyden

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152
papers

31,899
citations

56
h-index

164
g-index

164
ext. papers

36,925
ext. citations

20.1
avg. IF

6.86
L-index

#	Paper	IF	Citations
152	Tumour exosome integrins determine organotropic metastasis. <i>Nature</i> , 2015 , 527, 329-35	50.4	2614
151	Melanoma exosomes educate bone marrow progenitor cells toward a pro-metastatic phenotype through MET. <i>Nature Medicine</i> , 2012 , 18, 883-91	50.5	2530
150	VEGFR1-positive haematopoietic bone marrow progenitors initiate the pre-metastatic niche. <i>Nature</i> , 2005 , 438, 820-7	50.4	2409
149	Impaired recruitment of bone-marrow-derived endothelial and hematopoietic precursor cells blocks tumor angiogenesis and growth. <i>Nature Medicine</i> , 2001 , 7, 1194-201	50.5	1633
148	Pancreatic cancer exosomes initiate pre-metastatic niche formation in the liver. <i>Nature Cell Biology</i> , 2015 , 17, 816-26	23.4	1533
147	Recruitment of stem and progenitor cells from the bone marrow niche requires MMP-9 mediated release of kit-ligand. <i>Cell</i> , 2002 , 109, 625-37	56.2	1498
146	Therapeutic stem and progenitor cell transplantation for organ vascularization and regeneration. <i>Nature Medicine</i> , 2003 , 9, 702-12	50.5	1404
145	Tumor response to radiotherapy regulated by endothelial cell apoptosis. <i>Science</i> , 2003 , 300, 1155-9	33.3	1260
144	Double-stranded DNA in exosomes: a novel biomarker in cancer detection. <i>Cell Research</i> , 2014 , 24, 766-9	24.7	987
143	The metastatic niche: adapting the foreign soil. <i>Nature Reviews Cancer</i> , 2009 , 9, 285-93	31.3	939
142	Extracellular Vesicles in Cancer: Cell-to-Cell Mediators of Metastasis. <i>Cancer Cell</i> , 2016 , 30, 836-848	24.3	931
141	Pre-metastatic niches: organ-specific homes for metastases. <i>Nature Reviews Cancer</i> , 2017 , 17, 302-317	31.3	815
140	Id1 and Id3 are required for neurogenesis, angiogenesis and vascularization of tumour xenografts. <i>Nature</i> , 1999 , 401, 670-7	50.4	781
139	The perivascular niche regulates breast tumour dormancy. <i>Nature Cell Biology</i> , 2013 , 15, 807-17	23.4	736
138	Identification of distinct nanoparticles and subsets of extracellular vesicles by asymmetric flow field-flow fractionation. <i>Nature Cell Biology</i> , 2018 , 20, 332-343	23.4	686
137	CD133 expression is not restricted to stem cells, and both CD133+ and CD133- metastatic colon cancer cells initiate tumors. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2111-20	15.9	654
136	Chemokine-mediated interaction of hematopoietic progenitors with the bone marrow vascular niche is required for thrombopoiesis. <i>Nature Medicine</i> , 2004 , 10, 64-71	50.5	631

135	Vascular and haematopoietic stem cells: novel targets for anti-angiogenesis therapy?. <i>Nature Reviews Cancer</i> , 2002 , 2, 826-35	31.3	599
134	Vascular endothelial growth factor and angiopoietin-1 stimulate postnatal hematopoiesis by recruitment of vasculogenic and hematopoietic stem cells. <i>Journal of Experimental Medicine</i> , 2001 , 193, 1005-14	16.6	582
133	Cytokine-mediated deployment of SDF-1 induces revascularization through recruitment of CXCR4+ hemangiocytes. <i>Nature Medicine</i> , 2006 , 12, 557-67	50.5	567
132	Placental growth factor reconstitutes hematopoiesis by recruiting VEGFR1(+) stem cells from bone-marrow microenvironment. <i>Nature Medicine</i> , 2002 , 8, 841-9	50.5	553
131	Inductive angiocrine signals from sinusoidal endothelium are required for liver regeneration. <i>Nature</i> , 2010 , 468, 310-5	50.4	551
130	Preparing the "soil": the premetastatic niche. <i>Cancer Research</i> , 2006 , 66, 11089-93	10.1	505
129	The secreted factors responsible for pre-metastatic niche formation: old sayings and new thoughts. <i>Seminars in Cancer Biology</i> , 2011 , 21, 139-46	12.7	469
128	Exosome-Mediated Metastasis: Communication from a Distance. <i>Developmental Cell</i> , 2019 , 49, 347-360	10.2	425
127	A Human Pluripotent Stem Cell-based Platform to Study SARS-CoV-2 Tropism and Model Virus Infection in Human Cells and Organoids. <i>Cell Stem Cell</i> , 2020 , 27, 125-136.e7	18	338
126	Packaging and transfer of mitochondrial DNA via exosomes regulate escape from dormancy in hormonal therapy-resistant breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9066-E9075	11.5	317
125	AC133/CD133/Prominin-1. <i>International Journal of Biochemistry and Cell Biology</i> , 2005 , 37, 715-9	5.6	311
124	Migratory neighbors and distant invaders: tumor-associated niche cells. <i>Genes and Development</i> , 2008 , 22, 559-74	12.6	305
123	The IL-6/JAK/Stat3 feed-forward loop drives tumorigenesis and metastasis. <i>Neoplasia</i> , 2013 , 15, 848-62	6.4	289
122	Extracellular Vesicle and Particle Biomarkers Define Multiple Human Cancers. <i>Cell</i> , 2020 , 182, 1044-1061.e18	56.8	288
121	Young adult bone marrow-derived endothelial precursor cells restore aging-impaired cardiac angiogenic function. <i>Circulation Research</i> , 2002 , 90, E89-93	15.7	251
120	Expansion and maintenance of human embryonic stem cell-derived endothelial cells by TGFbeta inhibition is Id1 dependent. <i>Nature Biotechnology</i> , 2010 , 28, 161-6	44.5	242
119	Bone marrow cells in the 'pre-metastatic niche': within bone and beyond. <i>Cancer and Metastasis Reviews</i> , 2006 , 25, 521-9	9.6	237
118	Divergent clonal selection dominates medulloblastoma at recurrence. <i>Nature</i> , 2016 , 529, 351-7	50.4	206

117	The evolution of the cancer niche during multistage carcinogenesis. <i>Nature Reviews Cancer</i> , 2013 , 13, 511-8	31.3	195
116	The Id proteins and angiogenesis. <i>Oncogene</i> , 2001 , 20, 8334-41	9.2	189
115	Prognostic value of medulloblastoma extent of resection after accounting for molecular subgroup: a retrospective integrated clinical and molecular analysis. <i>Lancet Oncology</i> , 2016 , 17, 484-495	21.7	187
114	Asymmetric-flow field-flow fractionation technology for exomere and small extracellular vesicle separation and characterization. <i>Nature Protocols</i> , 2019 , 14, 1027-1053	18.8	153
113	Tumour exosomal CEMIP protein promotes cancer cell colonization in brain metastasis. <i>Nature Cell Biology</i> , 2019 , 21, 1403-1412	23.4	131
112	Contribution of marrow-derived progenitors to vascular and cardiac regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2002 , 13, 61-7	7.5	121
111	Self-renewal of CD133(hi) cells by IL6/Notch3 signalling regulates endocrine resistance in metastatic breast cancer. <i>Nature Communications</i> , 2016 , 7, 10442	17.4	114
110	Macromolecular crowding meets tissue engineering by self-assembly: a paradigm shift in regenerative medicine. <i>Advanced Materials</i> , 2014 , 26, 3024-34	24	114
109	Variant ribosomal RNA alleles are conserved and exhibit tissue-specific expression. <i>Science Advances</i> , 2018 , 4, eaao0665	14.3	105
108	STAT3 negatively regulates thyroid tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E2361-70	11.5	99
107	Evolution of Cancer Stem-like Cells in Endocrine-Resistant Metastatic Breast Cancers Is Mediated by Stromal Microvesicles. <i>Cancer Research</i> , 2017 , 77, 1927-1941	10.1	83
106	Activation of Hematopoietic Stem/Progenitor Cells Promotes Immunosuppression Within the Pre-metastatic Niche. <i>Cancer Research</i> , 2016 , 76, 1335-47	10.1	83
105	Patterns of failure using a conformal radiation therapy tumor bed boost for medulloblastoma. <i>Journal of Clinical Oncology</i> , 2003 , 21, 3079-83	2.2	82
104	Neovascularization contributes to the development of hemophilic synovitis. <i>Blood</i> , 2011 , 117, 2484-93	2.2	80
103	A catalytic role for proangiogenic marrow-derived cells in tumor neovascularization. <i>Cancer Cell</i> , 2008 , 13, 181-3	24.3	73
102	Roadblocks to translational advances on metastasis research. <i>Nature Medicine</i> , 2013 , 19, 1104-9	50.5	60
101	Ribosome biogenesis during cell cycle arrest fuels EMT in development and disease. <i>Nature Communications</i> , 2019 , 10, 2110	17.4	59
100	Medulloblastoma subgroups remain stable across primary and metastatic compartments. <i>Acta Neuropathologica</i> , 2015 , 129, 449-57	14.3	58

99	Id1 suppresses anti-tumour immune responses and promotes tumour progression by impairing myeloid cell maturation. <i>Nature Communications</i> , 2015 , 6, 6840	17.4	56
98	Regulation of vasculogenesis by platelet-mediated recruitment of bone marrow-derived cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 217-22	9.4	56
97	Stat3 mediates expression of autotaxin in breast cancer. <i>PLoS ONE</i> , 2011 , 6, e27851	3.7	56
96	Cancer. A few to flip the angiogenic switch. <i>Science</i> , 2008 , 319, 163-4	33.3	52
95	A phase II trial of carboplatin for intraocular retinoblastoma. <i>Pediatric Blood and Cancer</i> , 2007 , 49, 643-8	3	43
94	JAK2 inhibition sensitizes resistant EGFR-mutant lung adenocarcinoma to tyrosine kinase inhibitors. <i>Science Signaling</i> , 2016 , 9, ra33	8.8	41
93	Inflammation joins the "niche". <i>Cancer Cell</i> , 2008 , 14, 347-9	24.3	39
92	Extracellular matrix proteins and carcinoembryonic antigen-related cell adhesion molecules characterize pancreatic duct fluid exosomes in patients with pancreatic cancer. <i>Hpb</i> , 2018 , 20, 597-604	3.8	36
91	The Effect of Cage Shape on Nanoparticle-Based Drug Carriers: Anticancer Drug Release and Efficacy via Receptor Blockade Using Dextran-Coated Iron Oxide Nanocages. <i>Nano Letters</i> , 2016 , 16, 7357-7363	11.5	35
90	Unshielding Exosomal RNA Unleashes Tumor Growth And Metastasis. <i>Cell</i> , 2017 , 170, 223-225	56.2	27
89	Id1 represses osteoclast-dependent transcription and affects bone formation and hematopoiesis. <i>PLoS ONE</i> , 2009 , 4, e7955	3.7	27
88	A phase II study of radioimmunotherapy with intraventricular I-3F8 for medulloblastoma. <i>Pediatric Blood and Cancer</i> , 2018 , 65, e26754	3	26
87	Resisting arrest: a switch from angiogenesis to vasculogenesis in recurrent malignant gliomas. <i>Journal of Clinical Investigation</i> , 2010 , 120, 663-7	15.9	25
86	A proangiogenic signaling axis in myeloid cells promotes malignant progression of glioma. <i>Journal of Clinical Investigation</i> , 2017 , 127, 1826-1838	15.9	22
85	p130Rb2 and p27kip1 cooperate to control mobilization of angiogenic progenitors from the bone marrow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 6890-5	11.5	16
84	A Genomic-Pathologic Annotated Risk Model to Predict Recurrence in Early-Stage Lung Adenocarcinoma. <i>JAMA Surgery</i> , 2021 , 156, e205601	5.4	16
83	Temozolomide in secondary prevention of HER2-positive breast cancer brain metastases. <i>Future Oncology</i> , 2020 , 16, 899-909	3.6	13
82	Non-reversible tissue fixation retains extracellular vesicles for in situ imaging. <i>Nature Methods</i> , 2019 , 16, 1269-1273	21.6	13

81	Cancer-Associated Fibroblasts Promote Aggressive Gastric Cancer Phenotypes via Heat Shock Factor 1-Mediated Secretion of Extracellular Vesicles. <i>Cancer Research</i> , 2021 , 81, 1639-1653	10.1	13
80	Extracellular vesicle- and particle-mediated communication shapes innate and adaptive immune responses. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	12
79	Tumor Lymphatic Function Regulates Tumor Inflammatory and Immunosuppressive Microenvironments. <i>Cancer Immunology Research</i> , 2019 , 7, 1345-1358	12.5	11
78	Pre-Metastatic Niche Formation Has Taken Its TOLL. <i>Cancer Cell</i> , 2016 , 30, 189-191	24.3	10
77	An exosome pathway without an ESCRT. <i>Cell Research</i> , 2021 , 31, 105-106	24.7	10
76	Mutation Is Associated with Increased Risk of Recurrence in Surgically Resected Lung Adenocarcinoma. <i>Clinical Cancer Research</i> , 2021 , 27, 2604-2612	12.9	9
75	Complex polymorphisms in endocytosis genes suggest alpha-cyclodextrin as a treatment for breast cancer. <i>PLoS ONE</i> , 2018 , 13, e0199012	3.7	9
74	Molecular diagnostics in paediatric glial tumours. <i>Lancet Oncology, The</i> , 2013 , 14, e19-27	21.7	8
73	Primary leptomeningeal primitive neuroectodermal tumor. <i>Journal of Neuro-Oncology</i> , 2003 , 63, 299-303	1.8	8
72	Melanoma-derived small extracellular vesicles induce lymphangiogenesis and metastasis through an NGFR-dependent mechanism.. <i>Nature Cancer</i> , 2021 , 2, 1387-1405	15.4	7
71	A TeNaCious foundation for the metastatic niche. <i>Cancer Cell</i> , 2011 , 20, 139-41	24.3	6
70	Astrocytic laminin-211 drives disseminated breast tumor cell dormancy in brain.. <i>Nature Cancer</i> , 2022 , 3, 25-42	15.4	6
69	Calcium signaling induces a partial EMT. <i>EMBO Reports</i> , 2021 , 22, e51872	6.5	6
68	Tumour vesicular micromachinery uncovered. <i>Nature Cell Biology</i> , 2019 , 21, 795-797	23.4	5
67	Chapter 11. The role of bone marrow-derived cells in tumor angiogenesis and metastatic progression. <i>Methods in Enzymology</i> , 2008 , 444, 255-69	1.7	5
66	A protocol for Asymmetric-Flow Field-Flow Fractionation (AF4) of small extracellular vesicles. <i>Protocol Exchange</i> ,		4
65	The PI3K/mTOR inhibitor Gedatolisib eliminates dormant breast cancer cells in organotypic culture, but fails to prevent metastasis in preclinical settings. <i>Molecular Oncology</i> , 2021 ,	7.9	4
64	Bone voyage-Osteoblasts remotely control tumors. <i>Science</i> , 2017 , 358, 1127-1128	33.3	3

63	Engineered niches model the onset of metastasis. <i>Nature Biomedical Engineering</i> , 2018 , 2, 885-887	19	3
62	Lung Cancer Metastasis369-381		2
61	Growth Regulatory Pathways Contributing to Organ Selectivity of Metastasis204-214		2
60	Discovery and Development of Drugs Targeting Tumor Invasion and Metastasis600-611		2
59	Kaplan et al. reply. <i>Nature</i> , 2009 , 461, E5-E5	50.4	2
58	Error-free, automated data integration of exosome cargo protein data with extensive clinical data in an ongoing, multi-omic translational research study.. <i>Journal of Clinical Oncology</i> , 2020 , 38, e16743-e16743	2.2	2
57	Extracellular vesicle and particle isolation from human and murine cell lines, tissues, and bodily fluids. <i>STAR Protocols</i> , 2021 , 2, 100225	1.4	2
56	Tumour-regulated anorexia preceding cachexia. <i>Nature Cell Biology</i> , 2021 , 23, 111-113	23.4	2
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50	Tumor Extracellular Vesicles Impede Interferon Alert Responses. <i>Cancer Cell</i> , 2019 , 35, 3-5	24.3	0
49	A Freeze Drying Sample Preparation Method for Correlative Light and Scanning/Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1368-1369	0.5	
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- 4 Phase I/II study of T-DM1 alone versus T-DM1 and metronomic temozolomide in secondary prevention of HER2-positive breast cancer brain metastases following stereotactic radiosurgery.. *Journal of Clinical Oncology*, **2020**, 38, TPS2572-TPS2572 2.2
- 3 Interactions Between Megakaryocytes and Tumour Cells at the Bone Marrow Vascular Stem Cell Niche Promote Tumour Growth and Metastasis.. *Blood*, **2009**, 114, 470-470 2.2
- 2 Zena Werb, Ph.D, Queen of the Matrix In Memoriam (1945-2020). *Cancer Research*, **2020**, 80, 3773-3774 10.1
- 1 Abstract P5-05-02: Extracellular vesicles from obese human breast adipose tissue promote breast cancer cell proliferation by increasing mitochondrial mass and stimulating mitochondrial respiration. *Cancer Research*, **2022**, 82, P5-05-02-P5-05-02 10.1