

# Dai Fukumura

## List of Publications by Year in descending order

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122  
papers

28,633  
citations

8749

75  
h-index

24961

109  
g-index

125  
all docs

125  
docs citations

125  
times ranked

34091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Abstract P061: Dendritic cell paucity in mismatch repair-proficient colorectal cancer liver metastases limits the efficacy of immune checkpoint blockade. , 2022, , .		0
2	Multiphoton Phosphorescence Quenching Microscopy Reveals Kinetics of Tumor Oxygenation during Antiangiogenesis and Angiotensin Signaling Inhibition. <i>Clinical Cancer Research</i> , 2022, 28, 3076-3090.	3.2	4
3	The local microenvironment matters in preclinical basic and translational studies of cancer immunology and immunotherapy. <i>Cancer Cell</i> , 2022, 40, 701-702.	7.7	18
4	Implications of a granulocyteâ€high glioblastoma microenvironment in immune suppression and therapy resistance â€. <i>Journal of Pathology</i> , 2021, 254, 105-108.	2.1	1
5	Combining losartan with radiotherapy increases tumor control and inhibits lung metastases from a HER2/neu-positive orthotopic breast cancer model. <i>Radiation Oncology</i> , 2021, 16, 48.	1.2	19
6	Fatty acid synthesis is required for breast cancer brain metastasis. <i>Nature Cancer</i> , 2021, 2, 414-428.	5.7	147
7	Exercise Training Improves Tumor Control by Increasing CD8+ T-cell Infiltration via CXCR3 Signaling and Sensitizes Breast Cancer to Immune Checkpoint Blockade. <i>Cancer Immunology Research</i> , 2021, 9, 765-778.	1.6	50
8	Targeting Treg cells with GITR activation alleviates resistance to immunotherapy in murine glioblastomas. <i>Nature Communications</i> , 2021, 12, 2582.	5.8	96
9	Dendritic cell paucity in mismatch repairâ€proficient colorectal cancer liver metastases limits immune checkpoint blockade efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	40
10	Abstract PO-097: Addition of losartan to FOLFIRINOX and chemoradiation reduces the expression of pro-invasive and immunosuppressive genes in locally-advanced pancreatic cancer. , 2021, , .		0
11	TAMI-05. FATTY ACID SYNTHESIS IS REQUIRED FOR HER2+ BREAST CANCER BRAIN METASTASIS. <i>Neuro-Oncology</i> , 2021, 23, vi199-vi199.	0.6	0
12	NAD <sup>+</sup> -mediated rescue of prenatal forebrain angiogenesis restores postnatal behavior. <i>Science Advances</i> , 2020, 6, .	4.7	8
13	Brain Metastasis Cell Lines Panel: A Public Resource of Organotropic Cell Lines. <i>Cancer Research</i> , 2020, 80, 4314-4323.	0.4	51
14	Antibody-mediated delivery of viral epitopes to tumors harnesses CMV-specific T cells for cancer therapy. <i>Nature Biotechnology</i> , 2020, 38, 420-425.	9.4	48
15	cGMP-dependent protein kinase I in vascular smooth muscle cells improves ischemic stroke outcome in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2379-2391.	2.4	8
16	BSCI-10. NEUROLOGICAL DYSFUNCTION CAUSED BY BRAIN TUMOR-GENERATED SOLID STRESS IS REVERSED BY LITHIUM. <i>Neuro-Oncology Advances</i> , 2019, 1, i2-i3.	0.4	0
17	BSCI-09. MECHANISMS OF ENHANCED DRUG DELIVERY IN BRAIN METASTASES WITH FOCUSED ULTRASOUND-INDUCED BLOOD-TUMOR BARRIER DISRUPTION. <i>Neuro-Oncology Advances</i> , 2019, 1, i2-i2.	0.4	0
18	Solid stress in brain tumours causes neuronal loss and neurological dysfunction and can be reversed by lithium. <i>Nature Biomedical Engineering</i> , 2019, 3, 230-245.	11.6	127

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19	Dual endothelin receptor inhibition enhances T-DM1 efficacy in brain metastases from HER2-positive breast cancer. <i>Npj Breast Cancer</i> , 2019, 5, 4.	2.3	12
20	Enhancing cancer immunotherapy using antiangiogenics: opportunities and challenges. <i>Nature Reviews Clinical Oncology</i> , 2018, 15, 325-340.	12.5	1,192
21	Shortwave infrared fluorescence imaging with the clinically approved near-infrared dye indocyanine green. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4465-4470.	3.3	498
22	Obesity promotes resistance to anti-VEGF therapy in breast cancer by up-regulating IL-6 and potentially FGF-2. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	153
23	MicroRNA-378 enhances radiation response in ectopic and orthotopic implantation models of glioblastoma. <i>Journal of Neuro-Oncology</i> , 2018, 136, 63-71.	1.4	22
24	CADD-32. MECHANISMS OF ENHANCED DRUG DELIVERY IN BRAIN TUMORS WITH FOCUSED ULTRASOUND-INDUCED TRANSIENT BLOOD-TUMOR BARRIER DISRUPTION. <i>Neuro-Oncology</i> , 2018, 20, vi281-vi281.	0.6	0
25	A homing system targets therapeutic T cells to brain cancer. <i>Nature</i> , 2018, 561, 331-337.	13.7	36
26	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018, 21, 425-532.	3.7	429
27	Mechanisms of enhanced drug delivery in brain metastases with focused ultrasound-induced blood-tumor barrier disruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8717-E8726.	3.3	159
28	Solid stress and elastic energy as measures of tumour mechanopathology. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	280
29	The brain microenvironment mediates resistance in luminal breast cancer to PI3K inhibition through HER3 activation. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	89
30	A cerebellar window for intravital imaging of normal and disease states in mice. <i>Nature Protocols</i> , 2017, 12, 2251-2262.	5.5	21
31	Targeting CXCR4-dependent immunosuppressive Ly6C <sup>low</sup> monocytes improves antiangiogenic therapy in colorectal cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10455-10460.	3.3	97
32	Notice of Removal: Evaluation of anticancer agent transport in brain tumors after focused ultrasound-induced blood-brain/blood-tumor barrier disruption. , 2017, , .		0
33	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. <i>Journal of Clinical Investigation</i> , 2017, 127, 3039-3051.	3.9	124
34	IMST-40. REPROGRAMMING OF THE TUMOR IMMUNE MICROENVIRONMENT BY AN ANG-2/VEGF BISPECIFIC ANTIBODY DELAYS TUMOR GROWTH AND PROLONGS SURVIVAL IN PRECLINICAL GBM MODELS. <i>Neuro-Oncology</i> , 2016, 18, vi95-vi95.	0.6	0
35	Obesity and Cancer: An Angiogenic and Inflammatory Link. <i>Microcirculation</i> , 2016, 23, 191-206.	1.0	64
36	Dual inhibition of Ang-2 and VEGF receptors normalizes tumor vasculature and prolongs survival in glioblastoma by altering macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4470-4475.	3.3	251

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37	Ang-2/VEGF bispecific antibody reprograms macrophages and resident microglia to anti-tumor phenotype and prolongs glioblastoma survival. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4476-4481.	3.3	287
38	Measuring Vascular Permeability In Vivo. Methods in Molecular Biology, 2016, 1458, 71-85.	0.4	10
39	Reengineering the Tumor Microenvironment to Alleviate Hypoxia and Overcome Cancer Heterogeneity. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a027094.	2.9	119
40	Anti-VEGF therapy induces ECM remodeling and mechanical barriers to therapy in colorectal cancer liver metastases. Science Translational Medicine, 2016, 8, 360ra135.	5.8	184
41	Obesity-Induced Inflammation and Desmoplasia Promote Pancreatic Cancer Progression and Resistance to Chemotherapy. Cancer Discovery, 2016, 6, 852-869.	7.7	318
42	Mast Cells Contribute to Radiation-Induced Vascular Hyperpermeability. Radiation Research, 2016, 185, 182-189.	0.7	18
43	PlGF/VEGFR-1 Signaling Promotes Macrophage Polarization and Accelerated Tumor Progression in Obesity. Clinical Cancer Research, 2016, 22, 2993-3004.	3.2	109
44	Preclinical Efficacy of Ado-trastuzumab Emtansine in the Brain Microenvironment. Journal of the National Cancer Institute, 2016, 108, .	3.0	56
45	Longitudinal Tracing of Spontaneous Regression and Anti-angiogenic Response of Individual Microadenomas during Colon Tumorigenesis. Theranostics, 2015, 5, 724-732.	4.6	9
46	Emerging Strategies for Treating Brain Metastases from Breast Cancer. Cancer Cell, 2015, 27, 163-175.	7.7	119
47	Blockade of MMP14 Activity in Murine Breast Carcinomas: Implications for Macrophages, Vessels, and Radiotherapy. Journal of the National Cancer Institute, 2015, 107, .	3.0	106
48	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as <i>In Vivo</i> Two-Photon Oxygen Sensors. Journal of the American Chemical Society, 2015, 137, 9832-9842.	6.6	104
49	Metformin Reduces Desmoplasia in Pancreatic Cancer by Reprogramming Stellate Cells and Tumor-Associated Macrophages. PLoS ONE, 2015, 10, e0141392.	1.1	110
50	Balancing angiogenic pathways in solid tumors. Microvascular Reviews and Communications, 2014, 7, 23-23.	0.0	0
51	Spatial Charge Configuration Regulates Nanoparticle Transport and Binding Behavior <i>In Vivo</i> . Angewandte Chemie - International Edition, 2013, 52, 1414-1419.	7.2	81
52	Targeting Placental Growth Factor/Neuropilin 1 Pathway Inhibits Growth and Spread of Medulloblastoma. Cell, 2013, 152, 1065-1076.	13.5	209
53	Effects of Vascular-Endothelial Protein Tyrosine Phosphatase Inhibition on Breast Cancer Vasculature and Metastatic Progression. Journal of the National Cancer Institute, 2013, 105, 1188-1201.	3.0	101
54	Generation of functionally competent and durable engineered blood vessels from human induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12774-12779.	3.3	137

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55	Vascular Normalization as an Emerging Strategy to Enhance Cancer Immunotherapy. <i>Cancer Research</i> , 2013, 73, 2943-2948.	0.4	535
56	Measuring Angiogenesis and Hemodynamics in Mice. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.prot073916.	0.2	10
57	Neuropilin-1 (Nrp-1) as a prognostic biomarker and potential drug target for pediatric medulloblastoma. <i>Journal of Clinical Oncology</i> , 2013, 31, 2056-2056.	0.8	0
58	Video-rate resonant scanning multiphoton microscopy: An emerging technique for intravital imaging of the tumor microenvironment. <i>Intravital</i> , 2012, 1, 60-68.	2.0	43
59	Multistage Nanoparticles for Improved Delivery into Tumor Tissue. <i>Methods in Enzymology</i> , 2012, 508, 109-130.	0.4	43
60	Vascular normalizing doses of antiangiogenic treatment reprogram the immunosuppressive tumor microenvironment and enhance immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17561-17566.	3.3	800
61	Combined targeting of HER2 and VEGFR2 for effective treatment of HER2-amplified breast cancer brain metastases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3119-27.	3.3	131
62	Normalization of tumour blood vessels improves the delivery of nanomedicines in a size-dependent manner. <i>Nature Nanotechnology</i> , 2012, 7, 383-388.	15.6	928
63	A phase II study of preoperative (preop) bevacizumab (bev) followed by dose-dense (dd) doxorubicin (A)/cyclophosphamide (C)/paclitaxel (T) in combination with bev in HER2-negative operable breast cancer (BC). <i>Journal of Clinical Oncology</i> , 2012, 30, 1026-1026.	0.8	9
64	The biology of brain metastases—translation to new therapies. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 344-356.	12.5	443
65	Impaired lymphatic contraction associated with immunosuppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18784-18789.	3.3	246
66	C-X-C receptor type 4 promotes metastasis by activating p38 mitogen-activated protein kinase in myeloid differentiation antigen (Gr-1)-positive cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 302-307.	3.3	85
67	CXCL12 (SDF1 $\alpha$ )-CXCR4/CXCR7 Pathway Inhibition: An Emerging Sensitizer for Anticancer Therapies?. <i>Clinical Cancer Research</i> , 2011, 17, 2074-2080.	3.2	377
68	Normalization of the Vasculature for Treatment of Cancer and Other Diseases. <i>Physiological Reviews</i> , 2011, 91, 1071-1121.	13.1	1,275
69	Fluorescent Nanorods and Nanospheres for Real-Time In Vivo Probing of Nanoparticle Shape-Dependent Tumor Penetration. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11417-11420.	7.2	399
70	A Nanoparticle Size Series for In Vivo Fluorescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8649-8652.	7.2	289
71	Tumor Microvasculature and Microenvironment: Novel Insights Through Intravital Imaging in Pre-Clinical Models. <i>Microcirculation</i> , 2010, 17, 206-225.	1.0	376
72	In vivo wide-area cellular imaging by side-view endomicroscopy. <i>Nature Methods</i> , 2010, 7, 303-305.	9.0	155

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73	Angiopoietin-2 Interferes with Anti-VEGFR2-Induced Vessel Normalization and Survival Benefit in Mice Bearing Gliomas. <i>Clinical Cancer Research</i> , 2010, 16, 3618-3627.	3.2	125
74	In Vivo Imaging of Tumors. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5452-pdb.prot5452.	0.2	40
75	Wrapping and Tapping Anastomosis between Engrafted Endothelial Networks and Host Vasculature. <i>FASEB Journal</i> , 2010, 24, 235.5.	0.2	0
76	Blockade of VEGFR2 and Not VEGFR1 Can Limit Diet-Induced Fat Tissue Expansion: Role of Local versus Bone Marrow-Derived Endothelial Cells. <i>PLoS ONE</i> , 2009, 4, e4974.	1.1	83
77	Secreted Gaussia Luciferase as a Biomarker for Monitoring Tumor Progression and Treatment Response of Systemic Metastases. <i>PLoS ONE</i> , 2009, 4, e8316.	1.1	79
78	Edema Control by Cediranib, a Vascular Endothelial Growth Factor Receptor-Targeted Kinase Inhibitor, Prolongs Survival Despite Persistent Brain Tumor Growth in Mice. <i>Journal of Clinical Oncology</i> , 2009, 27, 2542-2552.	0.8	285
79	Endothelial Nitric Oxide Synthase Mediates Lymphangiogenesis and Lymphatic Metastasis. <i>Cancer Research</i> , 2009, 69, 2801-2808.	0.4	127
80	Three-dimensional microscopy of the tumor microenvironment in vivo using optical frequency domain imaging. <i>Nature Medicine</i> , 2009, 15, 1219-1223.	15.2	692
81	A Mathematical Model of Murine Metabolic Regulation by Leptin: Energy Balance and Defense of a Stable Body Weight. <i>Cell Metabolism</i> , 2009, 9, 52-63.	7.2	49
82	Imaging angiogenesis and the microenvironment. <i>Apmis</i> , 2008, 116, 695-715.	0.9	139
83	Perivascular nitric oxide gradients normalize tumor vasculature. <i>Nature Medicine</i> , 2008, 14, 255-257.	15.2	161
84	Differential in vivo potential of endothelial progenitor cells from human umbilical cord blood and adult peripheral blood to form functional long-lasting vessels. <i>Blood</i> , 2008, 111, 1302-1305.	0.6	311
85	Bone marrow-derived mesenchymal stem cells facilitate engineering of long-lasting functional vasculature. <i>Blood</i> , 2008, 111, 4551-4558.	0.6	493
86	Phenotypic and functional characterization of proangiogenic monocytes. <i>FASEB Journal</i> , 2008, 22, 238.7.	0.2	0
87	Novel function of RANKL: eNOS activator. <i>Blood</i> , 2007, 109, 1339-1340.	0.6	1
88	Tumor microvasculature and microenvironment: Targets for anti-angiogenesis and normalization. <i>Microvascular Research</i> , 2007, 74, 72-84.	1.1	592
89	Tumor microenvironment abnormalities: Causes, consequences, and strategies to normalize. <i>Journal of Cellular Biochemistry</i> , 2007, 101, 937-949.	1.2	498
90	Endothelial cells derived from human embryonic stem cells form durable blood vessels in vivo. <i>Nature Biotechnology</i> , 2007, 25, 317-318.	9.4	282

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91	Evidence for incorporation of bone marrow-derived endothelial cells into perfused blood vessels in tumors. <i>Blood</i> , 2006, 107, 2774-2776.	0.6	141
92	The role of nitric oxide in tumour progression. <i>Nature Reviews Cancer</i> , 2006, 6, 521-534.	12.8	1,099
93	Onset of Abnormal Blood and Lymphatic Vessel Function and Interstitial Hypertension in Early Stages of Carcinogenesis. <i>Cancer Research</i> , 2006, 66, 3360-3364.	0.4	119
94	Placenta Growth Factor Overexpression Inhibits Tumor Growth, Angiogenesis, and Metastasis by Depleting Vascular Endothelial Growth Factor Homodimers in Orthotopic Mouse Models. <i>Cancer Research</i> , 2006, 66, 3971-3977.	0.4	76
95	Imaging Steps of Lymphatic Metastasis Reveals That Vascular Endothelial Growth Factor-C Increases Metastasis by Increasing Delivery of Cancer Cells to Lymph Nodes: Therapeutic Implications. <i>Cancer Research</i> , 2006, 66, 8065-8075.	0.4	323
96	Quantum dots spectrally distinguish multiple species within the tumor milieu in vivo. <i>Nature Medicine</i> , 2005, 11, 678-682.	15.2	419
97	Molecular Regulation of Microlymphatic Formation and Function: Role of Nitric Oxide. <i>Trends in Cardiovascular Medicine</i> , 2005, 15, 169-173.	2.3	16
98	Role of Microenvironment on Gene Expression, Angiogenesis and Microvascular Function in Tumors. , 2005, , 23-36.		4
99	NO mediates mural cell recruitment and vessel morphogenesis in murine melanomas and tissue-engineered blood vessels. <i>Journal of Clinical Investigation</i> , 2005, 115, 1816-1827.	3.9	167
100	Green fluorescent protein (GFP)-expressing tumor model derived from a spontaneous osteosarcoma in a vascular endothelial growth factor (VEGF)-GFP transgenic mouse. <i>Comparative Medicine</i> , 2005, 55, 236-43.	0.4	13
101	Endothelial Nitric Oxide Synthase Regulates Microlymphatic Flow via Collecting Lymphatics. <i>Circulation Research</i> , 2004, 95, 204-209.	2.0	91
102	Peritumor Lymphatics Induced by Vascular Endothelial Growth Factor-C Exhibit Abnormal Function. <i>Cancer Research</i> , 2004, 64, 4400-4404.	0.4	139
103	Hypoxia-Induced Activation of p38 Mitogen-Activated Protein Kinase and Phosphatidylinositol 3-Kinase Signaling Pathways Contributes to Expression of Interleukin 8 in Human Ovarian Carcinoma Cells. <i>Clinical Cancer Research</i> , 2004, 10, 701-707.	3.2	92
104	Differential Transplantability of Tumor-Associated Stromal Cells. <i>Cancer Research</i> , 2004, 64, 5920-5924.	0.4	49
105	Creation of long-lasting blood vessels. <i>Nature</i> , 2004, 428, 138-139.	13.7	644
106	Kinetics of vascular normalization by VEGFR2 blockade governs brain tumor response to radiation. <i>Cancer Cell</i> , 2004, 6, 553-563.	7.7	789
107	Paracrine Regulation of Angiogenesis and Adipocyte Differentiation During In Vivo Adipogenesis. <i>Circulation Research</i> , 2003, 93, e88-97.	2.0	305
108	Acidic Extracellular pH Induces Vascular Endothelial Growth Factor (VEGF) in Human Glioblastoma Cells via ERK1/2 MAPK Signaling Pathway. <i>Journal of Biological Chemistry</i> , 2002, 277, 11368-11374.	1.6	247

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109	Herceptin acts as an anti-angiogenic cocktail. <i>Nature</i> , 2002, 416, 279-280.	13.7	664
110	Dissecting tumour pathophysiology using intravital microscopy. <i>Nature Reviews Cancer</i> , 2002, 2, 266-276.	12.8	576
111	Vascular accumulation of a novel photosensitizer, MV6401, causes selective thrombosis in tumor vessels after photodynamic therapy. <i>Cancer Research</i> , 2002, 62, 2151-6.	0.4	111
112	Role of host microenvironment in angiogenesis and microvascular functions in human breast cancer xenografts: mammary fat pad versus cranial tumors. <i>Clinical Cancer Research</i> , 2002, 8, 1008-13.	3.2	120
113	Pancreas Microenvironment Promotes VEGF Expression and Tumor Growth: Novel Window Models for Pancreatic Tumor Angiogenesis and Microcirculation. <i>Laboratory Investigation</i> , 2001, 81, 1439-1451.	1.7	107
114	In vivo measurement of gene expression, angiogenesis and physiological function in tumors using multiphoton laser scanning microscopy. <i>Nature Medicine</i> , 2001, 7, 864-868.	15.2	600
115	In Vitro and In Vivo Quantification of Adhesion Between Leukocytes and Vascular Endothelium. , 1999, 18, 553-576.		4
116	Tumor-host interactions in the gallbladder suppress distal angiogenesis and tumor growth: Involvement of transforming growth factor $\beta$ 1. <i>Nature Medicine</i> , 1999, 5, 1203-1208.	15.2	129
117	Role of nitric oxide in angiogenesis and microcirculation in tumors. , 1998, 17, 77-89.		184
118	Role of HIF-1 $\alpha$ in hypoxia-mediated apoptosis, cell proliferation and tumour angiogenesis. <i>Nature</i> , 1998, 394, 485-490.	13.7	2,565
119	Increased Microvascular Density and Enhanced Leukocyte Rolling and Adhesion in the Skin of VEGF Transgenic Mice. <i>Journal of Investigative Dermatology</i> , 1998, 111, 1-6.	0.3	498
120	Tumor Induction of VEGF Promoter Activity in Stromal Cells. <i>Cell</i> , 1998, 94, 715-725.	13.5	861
121	Hyperplasia of Lymphatic Vessels in VEGF-C Transgenic Mice. <i>Science</i> , 1997, 276, 1423-1425.	6.0	1,160
122	Leukocyte-endothelial adhesion and angiogenesis in tumors. <i>Cancer and Metastasis Reviews</i> , 1996, 15, 195-204.	2.7	95