Lance L Munn

List of Publications by Citations

168 papers	17,667 citations	66 h-index	132 g-index
188 ext. papers	20,037 ext. citations	8.7 avg, IF	6.69 L-index

#	Paper	IF	Citations
168	Direct evidence that the VEGF-specific antibody bevacizumab has antivascular effects in human rectal cancer. *Nature Medicine*, **2004**, 10, 145-7	50.5	1648
167	Normalization of the vasculature for treatment of cancer and other diseases. *Physiological Reviews*, **2011**, 91, 1071-121	47.9	1040
166	Lymphatic metastasis in the absence of functional intratumor lymphatics. *Science*, **2002**, 296, 1883-6	33.3	773
165	Vascular normalizing doses of antiangiogenic treatment reprogram the immunosuppressive tumor microenvironment and enhance immunotherapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 17561-6	11.5	592
164	Kinetics of vascular normalization by VEGFR2 blockade governs brain tumor response to radiation: role of oxygenation, angiopoietin-1, and matrix metalloproteinases. *Cancer Cell*, **2004**, 6, 553-63	24.3	592
163	Three-dimensional microscopy of the tumor microenvironment in vivo using optical frequency domain imaging. *Nature Medicine*, **2009**, 15, 1219-23	50.5	544
162	Mosaic blood vessels in tumors: frequency of cancer cells in contact with flowing blood. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 14608-13	11.5	528
161	Causes, consequences, and remedies for growth-induced solid stress in murine and human tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 15101-8	11.5	512
160	Dissecting tumour pathophysiology using intravital microscopy. *Nature Reviews Cancer*, **2002**, 2, 266-76	31.3	494
159	Effect of vascular normalization by antiangiogenic therapy on interstitial hypertension, peritumor edema, and lymphatic metastasis: insights from a mathematical model. *Cancer Research*, **2007**, 67, 2729-35	10.1	466
158	Surrogate markers for antiangiogenic therapy and dose-limiting toxicities for bevacizumab with radiation and chemotherapy: continued experience of a phase I trial in rectal cancer patients. *Journal of Clinical Oncology*, **2005**, 23, 8136-9	2.2	371
157	Fluid forces control endothelial sprouting. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 15342-7	11.5	370
156	Mechanical compression drives cancer cells toward invasive phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 911-6	11.5	368
155	During angiogenesis, vascular endothelial growth factor and basic fibroblast growth factor regulate natural killer cell adhesion to tumor endothelium. *Nature Medicine*, **1996**, 2, 992-7	50.5	355
154	Tumor microvasculature and microenvironment: novel insights through intravital imaging in pre-clinical models. *Microcirculation*, **2010**, 17, 206-25	2.9	318
153	Micro-environmental mechanical stress controls tumor spheroid size and morphology by suppressing proliferation and inducing apoptosis in cancer cells. *PLoS ONE*, **2009**, 4, e4632	3.7	298
152	Consensus guidelines for the use and interpretation of angiogenesis assays. *Angiogenesis*, **2018**, 21, 425-532	10.2	285

151	Diffusion of particles in the extracellular matrix: the effect of repulsive electrostatic interactions. *Biophysical Journal*, **2010**, 99, 1342-9	2.9	273
150	Cationic charge determines the distribution of liposomes between the vascular and extravascular compartments of tumors. *Cancer Research*, **2002**, 62, 6831-6	10.1	257
149	Edema control by cediranib, a vascular endothelial growth factor receptor-targeted kinase inhibitor, prolongs survival despite persistent brain tumor growth in mice. *Journal of Clinical Oncology*, **2009**, 27, 2542-52	2.2	252
148	Reengineering the Physical Microenvironment of Tumors to Improve Drug Delivery and Efficacy: From Mathematical Modeling to Bench to Bedside. *Trends in Cancer*, **2018**, 4, 292-319	12.5	229
147	Intussusceptive microvascular growth in a human colon adenocarcinoma xenograft: a novel mechanism of tumor angiogenesis. *Microvascular Research*, **1996**, 51, 260-72	3.7	218
146	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, 4476-81	11.5	214
145	Solid stress generated by spheroid growth estimated using a linear poroelasticity model. *Microvascular Research*, **2003**, 66, 204-12	3.7	213
144	Impaired lymphatic contraction associated with immunosuppression. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18784-9	11.5	197
143	Modeling the flow of dense suspensions of deformable particles in three dimensions. *Physical Review E*, **2007**, 75, 066707	2.4	197
142	Active versus passive mechanisms in metastasis: do cancer cells crawl into vessels, or are they pushed?. *Lancet Oncology, The*, **2007**, 8, 444-8	21.7	196
141	Solid stress and elastic energy as measures of tumour mechanopathology. *Nature Biomedical Engineering*, **2016**, 1,	19	171
140	Biomimetic autoseparation of leukocytes from whole blood in a microfluidic device. *Analytical Chemistry*, **2005**, 77, 933-7	7.8	169
139	Vasculogenic mimicry: how convincing, how novel, and how significant?. *American Journal of Pathology*, **2000**, 156, 383-8	5.8	160
138	Simultaneous measurement of RBC velocity, flux, hematocrit and shear rate in vascular networks. *Nature Methods*, **2010**, 7, 655-60	21.6	159
137	Diffusion anisotropy in collagen gels and tumors: the effect of fiber network orientation. *Biophysical Journal*, **2010**, 99, 3119-28	2.9	142
136	NO mediates mural cell recruitment and vessel morphogenesis in murine melanomas and tissue-engineered blood vessels. *Journal of Clinical Investigation*, **2005**, 115, 1816-27	15.9	141
135	Physical traits of cancer. *Science*, **2020**, 370,	33.3	128
134	Scaling rules for diffusive drug delivery in tumor and normal tissues. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1799-803	11.5	126

133	Red blood cells initiate leukocyte rolling in postcapillary expansions: a lattice Boltzmann analysis. *Biophysical Journal*, **2003**, 85, 208-22	2.9	126
132	The Lymphatic System in Disease Processes and Cancer Progression. *Annual Review of Biomedical Engineering*, **2016**, 18, 125-58	12	116
131	Sparse initial entrapment of systemically injected Salmonella typhimurium leads to heterogeneous accumulation within tumors. *Cancer Research*, **2003**, 63, 5188-93	10.1	112
130	Compression of pancreatic tumor blood vessels by hyaluronan is caused by solid stress and not interstitial fluid pressure. *Cancer Cell*, **2014**, 26, 14-5	24.3	111
129	Red blood cells augment leukocyte rolling in a virtual blood vessel. *Biophysical Journal*, **2002**, 83, 1834-41	2.9	111
128	Cancer and inflammation. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2017**, 9, e1370	6.6	110
127	In vivo imaging of extracellular matrix remodeling by tumor-associated fibroblasts. *Nature Methods*, **2009**, 6, 143-5	21.6	108
126	Effect of vascular endothelial growth factor on cultured endothelial cell monolayer transport properties. *Microvascular Research*, **2000**, 59, 265-77	3.7	108
125	A mathematical model of the contribution of endothelial progenitor cells to angiogenesis in tumors: implications for antiangiogenic therapy. *Blood*, **2003**, 102, 2555-61	2.2	104
124	Angiopoietin-2 interferes with anti-VEGFR2-induced vessel normalization and survival benefit in mice bearing gliomas. *Clinical Cancer Research*, **2010**, 16, 3618-27	12.9	103
123	Role of erythrocytes in leukocyte-endothelial interactions: mathematical model and experimental validation. *Biophysical Journal*, **1996**, 71, 466-78	2.9	102
122	Engineered blood vessel networks connect to host vasculature via wrapping-and-tapping anastomosis. *Blood*, **2011**, 118, 4740-9	2.2	101
121	Quantitative assessment of whole-body tumor burden in adult patients with neurofibromatosis. *PLoS ONE*, **2012**, 7, e35711	3.7	97
120	Particulate nature of blood determines macroscopic rheology: a 2-D lattice Boltzmann analysis. *Biophysical Journal*, **2005**, 88, 1635-45	2.9	96
119	Mosaic tumor vessels: cellular basis and ultrastructure of focal regions lacking endothelial cell markers. *Cancer Research*, **2005**, 65, 5740-9	10.1	93
118	Aberrant vascular architecture in tumors and its importance in drug-based therapies. *Drug Discovery Today*, **2003**, 8, 396-403	8.8	92
117	PDGF-C induces maturation of blood vessels in a model of glioblastoma and attenuates the response to anti-VEGF treatment. *PLoS ONE*, **2009**, 4, e5123	3.7	89
116	Combining microenvironment normalization strategies to improve cancer immunotherapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3728-3737	11.5	86

115	Decorin inhibits endothelial migration and tube-like structure formation: role of thrombospondin-1. *Microvascular Research*, **2001**, 62, 26-42	3.7	86
114	Leukocyte-endothelial adhesion and angiogenesis in tumors. *Cancer and Metastasis Reviews*, **1996**, 15, 195-204	9.6	86
113	Cancer cell-associated MT1-MMP promotes blood vessel invasion and distant metastasis in triple-negative mammary tumors. *Cancer Research*, **2011**, 71, 4527-38	10.1	83
112	Vascular morphogenesis and remodeling in a human tumor xenograft: blood vessel formation and growth after ovariectomy and tumor implantation. *Circulation Research*, **2001**, 89, 732-9	15.7	83
111	Analysis of cell flux in the parallel plate flow chamber: implications for cell capture studies. *Biophysical Journal*, **1994**, 67, 889-95	2.9	82
110	BSCI-10. NEUROLOGICAL DYSFUNCTION CAUSED BY BRAIN TUMOR-GENERATED SOLID STRESS IS REVERSED BY LITHIUM. *Neuro-Oncology Advances*, **2019**, 1, i2-i3	0.9	78
109	Selectin- and integrin-mediated T-lymphocyte rolling and arrest on TNF-alpha-activated endothelium: augmentation by erythrocytes. *Biophysical Journal*, **1995**, 69, 2131-8	2.9	77
108	Anastomosis of endothelial sprouts forms new vessels in a tissue analogue of angiogenesis. *Integrative Biology (United Kingdom)*, **2012**, 4, 857-62	3.7	74
107	Imaging the lymphatic system. *Microvascular Research*, **2014**, 96, 55-63	3.7	73
106	Vascular regulation of antitumor immunity. *Science*, **2019**, 365, 544-545	33.3	72
105	Vascular morphogenesis and remodeling in a model of tissue repair: blood vessel formation and growth in the ovarian pedicle after ovariectomy. *Circulation Research*, **2001**, 89, 723-31	15.7	70
104	Determinants of leukocyte margination in rectangular microchannels. *PLoS ONE*, **2009**, 4, e7104	3.7	66
103	Solid stress in brain tumours causes neuronal loss and neurological dysfunction and can be reversed by lithium. *Nature Biomedical Engineering*, **2019**, 3, 230-245	19	66
102	Blood cell interactions and segregation in flow. *Annals of Biomedical Engineering*, **2008**, 36, 534-44	4.7	63
101	Solid stress facilitates spheroid formation: potential involvement of hyaluronan. *British Journal of Cancer*, **2002**, 86, 947-53	8.7	61
100	Cancer cell glycocalyx mediates mechanotransduction and flow-regulated invasion. *Integrative Biology (United Kingdom)*, **2013**, 5, 1334-43	3.7	59
99	Mechanisms of leukotriene B4--triggered monocyte adhesion. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2003**, 23, 1761-7	9.4	55
98	Mechanobiological oscillators control lymph flow. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10938-43	11.5	52

97	Lymphatic vessels in health and disease. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2013**, 5, 111-24	6.6	52
96	Neovascularization after irradiation: what is the source of newly formed vessels in recurring tumors?. *Journal of the National Cancer Institute*, **2012**, 104, 899-905	9.7	51
95	Reengineering the Tumor Vasculature: Improving Drug Delivery and Efficacy. *Trends in Cancer*, **2018**, 4, 258-259	12.5	49
94	Differential transplantability of tumor-associated stromal cells. *Cancer Research*, **2004**, 64, 5920-4	10.1	48
93	Experimental and computational analyses reveal dynamics of tumor vessel cooption and optimal treatment strategies. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2662-2671	11.5	46
92	Erythrocytes enhance lymphocyte rolling and arrest in vivo. *Microvascular Research*, **2000**, 59, 316-22	3.7	46
91	Lattice Boltzmann modelling of blood cell dynamics. *International Journal of Computational Fluid Dynamics*, **2008**, 22, 481-492	1.2	45
90	Lattice Boltzmann simulation of blood flow in digitized vessel networks. *Computers and Mathematics With Applications*, **2008**, 55, 1594-1600	2.7	45
89	Quantifying solid stress and elastic energy from excised or in situ tumors. *Nature Protocols*, **2018**, 13, 1091-1105	18.8	43
88	Differential gene expression in metastasizing cells shed from kidney tumors. *Cancer Research*, **2004**, 64, 2469-73	10.1	43
87	Stress granule-associated protein G3BP2 regulates breast tumor initiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1033-1038	11.5	42
86	Biomimetic postcapillary expansions for enhancing rare blood cell separation on a microfluidic chip. *Lab on A Chip*, **2011**, 11, 2941-7	7.2	42
85	Antibody-directed effector cell therapy of tumors: analysis and optimization using a physiologically based pharmacokinetic model. *Neoplasia*, **2002**, 4, 449-63	6.4	42
84	Video-rate resonant scanning multiphoton microscopy: An emerging technique for intravital imaging of the tumor microenvironment. *Intravital*, **2012**, 1,		37
83	Influence of erythrocyte aggregation on leukocyte margination in postcapillary expansions: A lattice Boltzmann analysis. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 362, 191-196	3.3	36
82	Lack of telopeptides in fibrillar collagen I promotes the invasion of a metastatic breast tumor cell line. *Cancer Research*, **2005**, 65, 5674-82	10.1	36
81	RhoA mediates flow-induced endothelial sprouting in a 3-D tissue analogue of angiogenesis. *Lab on A Chip*, **2012**, 12, 5000-6	7.2	34
80	Paradoxical effects of PDGF-BB overexpression in endothelial cells on engineered blood vessels in vivo. *American Journal of Pathology*, **2009**, 175, 294-302	5.8	34

79	Non-uniform plasma leakage affects local hematocrit and blood flow: implications for inflammation and tumor perfusion. *Annals of Biomedical Engineering*, **2007**, 35, 2121-9	4.7	34
78	Comparing machine learning algorithms for predicting ICU admission and mortality in COVID-19. *Npj Digital Medicine*, **2021**, 4, 87	15.7	34
77	In vivo imaging of tumors. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5452	1.2	31
76	Effect of local anti-VEGF antibody treatment on tumor microvessel permeability. *Microvascular Research*, **1999**, 57, 357-62	3.7	29
75	Methicillin-resistant causes sustained collecting lymphatic vessel dysfunction. *Science Translational Medicine*, **2018**, 10,	17.5	28
74	PDGF and microvessel wall remodeling in adult rat lung: imaging PDGF-AA and PDGF-Ralpha molecules in progenitor smooth muscle cells developing in experimental pulmonary hypertension. *Cell and Tissue Research*, **2006**, 326, 759-69	4.2	26
73	Regorafenib combined with PD1 blockade increases CD8 T-cell infiltration by inducing CXCL10 expression in hepatocellular carcinoma **2020**, 8,		25
72	Analysis of lymphocyte activation and proliferation by video microscopy and digital imaging. *Cytometry*, **1993**, 14, 772-82		23
71	Flow-induced HDAC1 phosphorylation and nuclear export in angiogenic sprouting. *Scientific Reports* , **2016**, 6, 34046	4.9	23
70	Systemic distribution and tumor localization of adoptively transferred lymphocytes in mice: comparison with physiologically based pharmacokinetic model. *Neoplasia*, **2002**, 4, 3-8	6.4	21
69	Kinetics of placenta growth factor/vascular endothelial growth factor synergy in endothelial hydraulic conductivity and proliferation. *Microvascular Research*, **2001**, 61, 203-10	3.7	21
68	Heparan sulfate proteoglycans mediate renal carcinoma metastasis. *International Journal of Cancer*, **2016**, 139, 2791-2801	7.5	20
67	Mechanobiology of lymphatic contractions. *Seminars in Cell and Developmental Biology*, **2015**, 38, 67-74	7.5	20
66	Mapping Physical Tumor Microenvironment and Drug Delivery. *Clinical Cancer Research*, **2019**, 25, 2024-2026	12.9	20
65	A model for the kinetics of homotypic cellular aggregation under static conditions. *Biophysical Journal*, **1997**, 72, 51-64	2.9	19
64	Lateral view flow system for studies of cell adhesion and deformation under flow conditions. *BioTechniques*, **2001**, 30, 388-94	2.5	19
63	Synchronization and Random Triggering of Lymphatic Vessel Contractions. *PLoS Computational Biology*, **2016**, 12, e1005231	5	19
62	In silico dynamics of COVID-19 phenotypes for optimizing clinical management. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	14

61	Analysis of lymphocyte aggregation using digital image analysis. *Journal of Immunological Methods*, **1993**, 166, 11-25	2.5	13
60	Secretory leukocyte protease inhibitor (SLPI) as a potential target for inhibiting metastasis of triple-negative breast cancers. *Oncotarget*, **2017**, 8, 108292-108302	3.3	11
59	The cancer cell glycocalyx proteoglycan Glypican-1 mediates interstitial flow mechanotransduction to enhance cell migration and metastasis. *Biorheology*, **2019**, 56, 151-161	1.7	10
58	Is vasculogenesis crucial for the regrowth of irradiated tumours?. *Nature Reviews Cancer*, **2011**, 11, 532-532	31.3	10
57	Is vasculogenesis crucial for the regrowth of irradiated tumours?. *Nature Reviews Cancer*, **2011**, 11, 532	31.3	10
56	The effects of valve leaflet mechanics on lymphatic pumping assessed using numerical simulations. *Scientific Reports*, **2019**, 9, 10649	4.9	9
55	Measuring angiogenesis and hemodynamics in mice. *Cold Spring Harbor Protocols*, **2013**, 2013, 354-8	1.2	9
54	A protocol for phenotypic detection and characterization of vascular cells of different origins in a lung neovascularization model in rodents. *Nature Protocols*, **2008**, 3, 388-97	18.8	9
53	Self-assembly of vascularized tissue to support tumor explants in vitro. *Integrative Biology (United Kingdom)*, **2016**, 8, 1301-1311	3.7	8
52	Towards principled design of cancer nanomedicine to accelerate clinical translation.. *Materials Today Bio*, **2022**, 13, 100208	9.9	8
51	In vivo compression and imaging in mouse brain to measure the effects of solid stress. *Nature Protocols*, **2020**, 15, 2321-2340	18.8	8
50	Vascular beds maintain pancreatic tumour explants for ex vivo drug screening. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e318-e322	4.4	7
49	Dynamics of tissue topology during cancer invasion and metastasis. *Physical Biology*, **2013**, 10, 065003	3	7
48	Transparent Window Models and Intravital Microscopy: Imaging Gene Expression, Physiological Function, and Drug Delivery in Tumors647-671		7
47	A multi-scale model for determining the effects of pathophysiology and metabolic disorders on tumor growth. *Scientific Reports*, **2020**, 10, 3025	4.9	6
46	Mammary fat pad tumor preparation in mice. *Cold Spring Harbor Protocols*, **2012**, 2012, 1115-6	1.2	6
45	Lymphatic function measurements influenced by contrast agent volume and body position. *JCI Insight*, **2018**, 3,	9.9	6
44	Implantable tissue isolation chambers for analyzing tumor dynamics in vivo. *Lab on A Chip*, **2016**, 16, 1840-51	7.2	6

43	Transparent Window Models and Intravital Microscopy: Imaging Gene Expression, Physiological Function and Therapeutic Effects in Tumors **2011**, 641-679		5
42	Placental growth factor promotes tumour desmoplasia and treatment resistance in intrahepatic cholangiocarcinoma. *Gut*, **2022**, 71, 185-193	19.2	5
41	Reply to Davis: Nitric oxide regulates lymphatic contractions. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E106	11.5	4
40	Lymphangiography of the mouse ear. *Cold Spring Harbor Protocols*, **2012**, 2012, 1179-80	1.2	4
39	Measuring vascular permeability in mice. *Cold Spring Harbor Protocols*, **2013**, 2013, 444-6	1.2	4
38	Mechanosensing tensile solid stresses. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21960-21962	11.5	3
37	In vitro and in vivo quantification of adhesion between leukocytes and vascular endothelium. *Methods in Molecular Medicine*, **1999**, 18, 553-75		3
36	Microfluidic model of angiogenic sprouting. *Methods in Molecular Biology*, **2015**, 1214, 243-54	1.4	3
35	Effects of Low Intensity Continuous Ultrasound (LICU) on Mouse Pancreatic Tumor Explants. *Applied Sciences (Switzerland)*, **2017**, 7, 1275	2.6	2
34	Measuring interstitial diffusion, convection, and binding parameters in mouse tumors. *Cold Spring Harbor Protocols*, **2013**, 2013, 678-80	1.2	2
33	Rabbit ear chambers. *Cold Spring Harbor Protocols*, **2012**, 2012, 813-14	1.2	2
32	Corneal pocket assay in rabbits. *Cold Spring Harbor Protocols*, **2012**, 2012, 1017-8	1.2	2
31	In silico dynamics of COVID-19 phenotypes for optimizing clinical management **2020**,		2
30	Modeling Tumor Blood Vessel Dynamics. *Lecture Notes on Mathematical Modelling in the Life Sciences*, **2013**, 117-147	0.3	2
29	A mechanobiological mathematical model of liver metabolism. *Biotechnology and Bioengineering*, **2020**, 117, 2861-2874	4.9	1
28	Measuring leukocyte-endothelial interactions in mice. *Cold Spring Harbor Protocols*, **2013**, 2013, 561-3	1.2	1
27	Measuring interstitial pH and pO2 in mouse tumors. *Cold Spring Harbor Protocols*, **2013**, 2013, 675-7	1.2	1
26	Pancreatic tumor preparation in mice. *Cold Spring Harbor Protocols*, **2012**, 2012,	1.2	1

25	Lymphangiography of the mouse tail. *Cold Spring Harbor Protocols*, **2012**, 2012, 1177-8	1.2	1
24	Strategies to minimize heterogeneity and optimize clinical trials in Acute Respiratory Distress Syndrome (ARDS): Insights from mathematical modelling.. *EBioMedicine*, **2022**, 75, 103809	8.8	1
23	Glycocalyx mechanotransduction mechanisms are involved in renal cancer metastasis.. *Matrix Biology Plus*, **2022**, 13, 100100	5.1	1
22	Fluid Mechanics and Transport in Tumors. *Science Policy Reports*, **2016**, 73-88		0
21	Vascular Normalization to Improve Treatment of COVID-19: Lessons from Treatment of Cancer. *Clinical Cancer Research*, **2021**, 27, 2706-2711	12.9	0
20	The effects of gravity and compression on interstitial fluid transport in the lower limb.. *Scientific Reports*, **2022**, 12, 4890	4.9	0
19	Tumor Imaging277-309		
18	Optical Microscopy in Small Animal Research183-190		
17	TMOD-37. IN VIVO COMPRESSION AND IMAGING FOR CAUSAL STUDIES OF MECHANICAL FORCES IN THE BRAIN. *Neuro-Oncology*, **2020**, 22, ii235-ii236	1	
16	Analysis of Systemic Transport Barriers for the Activation of Anti-tumor Immunity. *FASEB Journal*, **2020**, 34, 1-1	0.9	
15	The Effects of Valve Leaflet Mechanics on Lymphatic Pumping Assessed Using Numerical Simulations. *FASEB Journal*, **2020**, 34, 1-1	0.9	
14	Hyaluronic Acid Receptor-RHAMM Mediates Renal Carcinoma Metastasis. *FASEB Journal*, **2020**, 34, 1-1	0.9	
13	Surface glycocalyx and glypican-1 mediate tumor cell metastasis. *FASEB Journal*, **2018**, 32, 281.5	0.9	
12	Optimizing Vessel Normalization and Chemotherapies to Control Tumor Growth. *FASEB Journal*, **2020**, 34, 1-1	0.9	
11	An Agent-Based Model to Investigate Cellular Mechanisms of Vasculogenesis. *FASEB Journal*, **2020**, 34, 1-1	0.9	
10	Wrapping and Tapping Anastomosis between Engrafted Endothelial Networks and Host Vasculature. *FASEB Journal*, **2010**, 24, 235.5	0.9	
9	Compression-induced cell distension stimulates coordinated migration of mammary carcinoma cells. *FASEB Journal*, **2010**, 24, 39.3	0.9	
8	Determinants of Leukocyte Margination in Rectangular Microchannels. *FASEB Journal*, **2010**, 24, 974.7	0.9	

List of Publications

7	A mathematical framework for predicting oxygen transport and vessel remodeling in tumors. *FASEB Journal*, **2010**, 24, 750.3	0.9
6	Modeling Structural and Functional Adaptation of Tumor Vessel Networks During Antiangiogenic Therapy **2012**, 213-233	
5	Laser Scanning Methodologies for Measuring RBC Velocity, Flux, Hematocrit and Shear Rate in Vascular Networks **2012**, 417-431	
4	Perivascular cell dynamics during wrapping-and-tapping anastomosis. *FASEB Journal*, **2012**, 26, 683.5	0.9
3	Vascular adaptation and network efficiency. *FASEB Journal*, **2012**, 26, 682.2	0.9
2	Endothelial dynamics during sprouting morphogenesis. *FASEB Journal*, **2013**, 27, 688.2	0.9
1	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. *Neuro-Oncology*, **2016**, 18, vi95-vi95	1