

# Georg Breier

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 papers	14,117 citations	48 h-index	109 g-index
109 ext. papers	14,903 ext. citations	7.1 avg, IF	5.62 L-index

#	Paper	IF	Citations
100	The Influence of VE-Cadherin on Adhesion and Incorporation of Breast Cancer Cells into Vascular Endothelium. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
99	Cellular Automaton Modeling of Tumor Invasion <b>2020</b> , 851-863		1
98	Microenvironmentally-driven Plasticity of CD44 isoform expression determines Engraftment and Stem-like Phenotype in CRC cell lines. <i>Theranostics</i> , <b>2020</b> , 10, 7599-7621	12.1	2
97	Hematopoietic hypoxia-inducible factor 2 deficiency ameliorates pathological retinal neovascularization via modulation of endothelial cell apoptosis. <i>FASEB Journal</i> , <b>2019</b> , 33, 1758-1770	0.9	11
96	The expression of VE-cadherin in breast cancer cells modulates cell dynamics as a function of tumor differentiation and promotes tumor-endothelial cell interactions. <i>Histochemistry and Cell Biology</i> , <b>2018</b> , 149, 15-30	2.4	17
95	PHD3 Acts as Tumor Suppressor in Mouse Osteosarcoma and Influences Tumor Vascularization via PDGF-C Signaling. <i>Cancers</i> , <b>2018</b> , 10,	6.6	3
94	Heparanase and Thrombin: Common Signalling Pathways in Melanoma Cells?. <i>Thrombosis and Haemostasis</i> , <b>2018</b> , 118, 1688-1689	7	
93	Haematopoietic prolyl hydroxylase-1 deficiency promotes M2 macrophage polarization and is both necessary and sufficient to protect against experimental colitis. <i>Journal of Pathology</i> , <b>2017</b> , 241, 547-558	8.4	21
92	Angiogenesis in metabolic-vascular disease. <i>Thrombosis and Haemostasis</i> , <b>2017</b> , 117, 1289-1295	7	13
91	Receptor tyrosine kinase inhibitors: Are they real tumor killers?. <i>International Journal of Cancer</i> , <b>2016</b> , 138, 540-54	7.5	25
90	Adipocyte-Specific Hypoxia-Inducible Factor 2 Deficiency Exacerbates Obesity-Induced Brown Adipose Tissue Dysfunction and Metabolic Dysregulation. <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 376-93	4.8	45
89	VEGFR2 Signaling Prevents Colorectal Cancer Cell Senescence to Promote Tumorigenesis in Mice With Colitis. <i>Gastroenterology</i> , <b>2015</b> , 149, 177-189.e10	13.3	30
88	Endothelial cadherins in cancer. <i>Cell and Tissue Research</i> , <b>2014</b> , 355, 523-7	4.2	44
87	The inhibition of tyrosine kinase receptor signalling in leiomyosarcoma cells using the small molecule kinase inhibitor PTK787/ZK222584 (Vatalanib). <i>International Journal of Oncology</i> , <b>2014</b> , 45, 2267-77	4.4	10
86	PHD4 stimulates tumor angiogenesis in osteosarcoma cells via TGF- $\beta$ <i>Molecular Cancer Research</i> , <b>2013</b> , 11, 1337-48	6.6	13
85	HIF-1 is a protective factor in conditional PHD2-deficient mice suffering from severe HIF-2-induced excessive erythropoiesis. <i>Blood</i> , <b>2013</b> , 121, 1436-45	2.2	56
84	HIF prolyl hydroxylase 2 (PHD2) is a critical regulator of hematopoietic stem cell maintenance during steady-state and stress. <i>Blood</i> , <b>2013</b> , 121, 5158-66	2.2	31

83	Lack of vascular endothelial growth factor receptor-2/Flk1 signaling does not affect substantia nigra development. <i>Neuroscience Letters</i> , <b>2013</b> , 553, 142-7	3.3	3
82	Spatial regulation of VEGF receptor endocytosis in angiogenesis. <i>Nature Cell Biology</i> , <b>2013</b> , 15, 249-60	23.4	190
81	Identification of a clonally expanding haematopoietic compartment in bone marrow. <i>EMBO Journal</i> , <b>2013</b> , 32, 219-30	13	64
80	A role for prolyl hydroxylase domain proteins in hippocampal synaptic plasticity. <i>Hippocampus</i> , <b>2013</b> , 23, 861-72	3.5	13
79	Loss of epithelial hypoxia-inducible factor prolyl hydroxylase 2 accelerates skin wound healing in mice. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 3426-38	4.8	40
78	Multimarker gene analysis of circulating tumor cells in pancreatic cancer patients: a feasibility study. <i>Oncology</i> , <b>2012</b> , 82, 3-10	3.6	87
77	Interplay between neural-cadherin and vascular endothelial-cadherin in breast cancer progression. <i>Breast Cancer Research</i> , <b>2012</b> , 14, R154	8.3	26
76	Prognostic and predictive value of circulating tumor cell analysis in colorectal cancer patients. <i>Journal of Translational Medicine</i> , <b>2012</b> , 10, 222	8.5	48
75	Multimarker Analysis of Circulating Tumor Cells in Peripheral Blood of Metastatic Breast Cancer Patients: A Step Forward in Personalized Medicine. <i>Breast Care</i> , <b>2012</b> , 7, 7-12	2.4	38
74	Overexpression of factor inhibiting HIF-1 enhances vessel maturation and tumor growth via platelet-derived growth factor-C. <i>International Journal of Cancer</i> , <b>2012</b> , 131, E603-13	7.5	20
73	Mechanoinduction of lymph vessel expansion. <i>EMBO Journal</i> , <b>2012</b> , 31, 788-804	13	111
72	HIF prolyl hydroxylase-2 inhibition diminishes tumor growth through matrix metalloproteinase-induced TGF $\beta$ activation. <i>Cancer Biology and Therapy</i> , <b>2012</b> , 13, 216-23	4.6	19
71	Neuron-specific prolyl-4-hydroxylase domain 2 knockout reduces brain injury after transient cerebral ischemia. <i>Stroke</i> , <b>2012</b> , 43, 2748-56	6.7	53
70	Development of a molecular multimarker assay for the analysis of circulating tumor cells in adenocarcinoma patients. <i>Clinical Laboratory</i> , <b>2012</b> , 58, 373-84	2	11
69	Parameter estimation with a novel gradient-based optimization method for biological lattice-gas cellular automaton models. <i>Journal of Mathematical Biology</i> , <b>2011</b> , 63, 173-200	2	13
68	Inhibition of HIF prolyl hydroxylase-2 blocks tumor growth in mice through the antiproliferative activity of TGF $\beta$ . <i>Cancer Research</i> , <b>2011</b> , 71, 3306-16	10.1	62
67	Cardiomyocyte-specific prolyl-4-hydroxylase domain 2 knock out protects from acute myocardial ischemic injury. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 11185-94	5.4	58
66	Ablation of cholesterol biosynthesis in neural stem cells increases their VEGF expression and angiogenesis but causes neuron apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8350-5	11.5	47

65	BIOLOGISTICS AND THE STRUGGLE FOR EFFICIENCY: CONCEPTS AND PERSPECTIVES. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , <b>2009</b> , 12, 533-548	0.8	28
64	Vascular endothelial cadherin promotes breast cancer progression via transforming growth factor beta signaling. <i>Cancer Research</i> , <b>2008</b> , 68, 1388-97	10.1	87
63	Tracking adult neovascularization during ischemia and inflammation using Vegfr2-LacZ reporter mice. <i>Journal of Vascular Research</i> , <b>2008</b> , 45, 437-44	1.9	10
62	Spatiotemporal expression of flk-1 in pulmonary epithelial cells during lung development. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2008</b> , 39, 163-70	5.7	13
61	A novel Flk1-TVA transgenic mouse model for gene delivery to angiogenic vasculature. <i>Transgenic Research</i> , <b>2008</b> , 17, 403-15	3.3	6
60	Lentiviral rescue of vascular endothelial growth factor receptor-2 expression in flk1-/- embryonic stem cells shows early priming of endothelial precursors. <i>Stem Cells</i> , <b>2007</b> , 25, 2987-95	5.8	13
59	Simultaneous blockade of VEGFR-1 and VEGFR-2 activation is necessary to efficiently inhibit experimental melanoma growth and metastasis formation. <i>International Journal of Cancer</i> , <b>2007</b> , 120, 1899-908	7.5	40
58	Hypoxia-mediated activation of DLL4-Notch-Hey2 signaling in endothelial progenitor cells and adoption of arterial cell fate. <i>Experimental Cell Research</i> , <b>2007</b> , 313, 1-9	4.2	172
57	HIF in vascular development and tumour angiogenesis. <i>Novartis Foundation Symposium</i> , <b>2007</b> , 283, 126-33; discussion 133-8, 238-41		6
56	Type I collagen limits VEGFR-2 signaling by a SHP2 protein-tyrosine phosphatase-dependent mechanism 1. <i>Circulation Research</i> , <b>2006</b> , 98, 45-54	15.7	53
55	Continuous endothelial cell activation increases angiogenesis: evidence for the direct role of endothelium linking angiogenesis and inflammation. <i>Journal of Vascular Research</i> , <b>2006</b> , 43, 193-204	1.9	58
54	Inhibition of hypoxia-inducible factor activity in endothelial cells disrupts embryonic cardiovascular development. <i>Blood</i> , <b>2006</b> , 107, 584-90	2.2	60
53	Lymphangiogenesis in vitro. <i>Blood</i> , <b>2006</b> , 107, 853-854	2.2	
52	Isolated pancreatic islets in three-dimensional matrices are responsive to stimulators and inhibitors of angiogenesis. <i>Cell Transplantation</i> , <b>2006</b> , 15, 489-97	4	16
51	Vascular endothelial growth factor increases functional beta-cell mass by improvement of angiogenesis of isolated human and murine pancreatic islets. <i>Transplantation</i> , <b>2005</b> , 79, 1530-6	1.8	125
50	Lymphangiogenesis in regenerating tissue: is VEGF-C sufficient?. <i>Circulation Research</i> , <b>2005</b> , 96, 1132-4	15.7	12
49	Impaired brain angiogenesis and neuronal apoptosis induced by conditional homozygous inactivation of vascular endothelial growth factor. <i>Thrombosis and Haemostasis</i> , <b>2004</b> , 91, 595-605	7	152
48	Angiopoietin-2 causes pericyte dropout in the normal retina: evidence for involvement in diabetic retinopathy. <i>Diabetes</i> , <b>2004</b> , 53, 1104-10	0.9	262

47	Endothelium-specific Cre recombinase activity in flk-1-Cre transgenic mice. <i>Developmental Dynamics</i> , <b>2004</b> , 229, 312-8	2.9	41
46	Inhibition of solid tumor growth by gene transfer of VEGF receptor-1 mutants. <i>International Journal of Cancer</i> , <b>2004</b> , 111, 348-57	7.5	42
45	In Situ Hybridization Analysis of Vascular Endothelium <b>2004</b> , 301-312		
44	Cooperative interaction of hypoxia-inducible factor-2alpha (HIF-2alpha ) and Ets-1 in the transcriptional activation of vascular endothelial growth factor receptor-2 (Flk-1). <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 7520-30	5.4	209
43	Hemogenic and nonhemogenic endothelium can be distinguished by the activity of fetal liver kinase (Flk)-1 promoter/enhancer during mouse embryogenesis. <i>Blood</i> , <b>2003</b> , 101, 886-93	2.2	59
42	Circulating vascular progenitor cells do not contribute to compensatory lung growth. <i>Circulation Research</i> , <b>2003</b> , 93, 372-9	15.7	74
41	p38 MAP kinase--a molecular switch between VEGF-induced angiogenesis and vascular hyperpermeability. <i>FASEB Journal</i> , <b>2003</b> , 17, 262-4	0.9	146
40	Transforming growth factor-beta and Ras regulate the VEGF/VEGF-receptor system during tumor angiogenesis. <i>International Journal of Cancer</i> , <b>2002</b> , 97, 142-8	7.5	92
39	Design of a variant of vascular endothelial growth factor-A (VEGF-A) antagonizing KDR/Flk-1 and Flt-1. <i>Laboratory Investigation</i> , <b>2002</b> , 82, 473-81	5.9	16
38	Microtumor growth initiates angiogenic sprouting with simultaneous expression of VEGF, VEGF receptor-2, and angiopoietin-2. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 777-785	15.9	157
37	Microtumor growth initiates angiogenic sprouting with simultaneous expression of VEGF, VEGF receptor-2, and angiopoietin-2. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 777-85	15.9	71
36	The Role of Vascular Endothelial Growth Factors and Their Receptors During Embryonic Vascular Development <b>2002</b> , 21-54		3
35	Angiogenesis in embryonic development--a review. <i>Placenta</i> , <b>2000</b> , 21 Suppl A, S11-5	3.4	98
34	Role of SCL/Tal-1, GATA, and Ets transcription factor binding sites for the regulation of Flk-1 expression during murine vascular development. <i>Blood</i> , <b>2000</b> , 96, 3078-3085	2.2	126
33	Functions of the VEGF/VEGF receptor system in the vascular system. <i>Seminars in Thrombosis and Hemostasis</i> , <b>2000</b> , 26, 553-9	5.3	39
32	De novo expression of vascular endothelial growth factor in human pancreatic cancer: evidence for an autocrine mitogenic loop. <i>Gastroenterology</i> , <b>2000</b> , 119, 1358-72	13.3	160
31	Role of SCL/Tal-1, GATA, and Ets transcription factor binding sites for the regulation of Flk-1 expression during murine vascular development. <i>Blood</i> , <b>2000</b> , 96, 3078-3085	2.2	3
30	Endothelial receptor tyrosine kinases involved in blood vessel development and tumor angiogenesis. <i>Advances in Experimental Medicine and Biology</i> , <b>2000</b> , 476, 57-66	3.6	14

29	Identification of Vascular Endothelial Growth Factor (VEGF) Receptor-2 (Flk-1) Promoter/Enhancer Sequences Sufficient for Angioblast and Endothelial Cell-Specific Transcription in Transgenic Mice. <i>Blood</i> , <b>1999</b> , 93, 4284-4292	2.2	193
28	In situ hybridization with RNA probes. <i>Methods in Molecular Biology</i> , <b>1999</b> , 96, 107-17	1.4	6
27	Differential downregulation of vascular endothelial growth factor by dexamethasone in normoxic and hypoxic rat glioma cells. <i>Neuropathology and Applied Neurobiology</i> , <b>1999</b> , 25, 104-12	5.2	91
26	Identification of Vascular Endothelial Growth Factor (VEGF) Receptor-2 (Flk-1) Promoter/Enhancer Sequences Sufficient for Angioblast and Endothelial Cell-Specific Transcription in Transgenic Mice. <i>Blood</i> , <b>1999</b> , 93, 4284-4292	2.2	7
25	Upregulation of vascular endothelial growth factor in severe chronic brain hypoxia of the rat. <i>Neuroscience Letters</i> , <b>1998</b> , 252, 199-202	3.3	26
24	Thrombopoietin stimulates VEGF release from c-Mpl-expressing cell lines and haematopoietic progenitors. <i>FEBS Letters</i> , <b>1998</b> , 423, 10-4	3.8	27
23	Vascular endothelial growth factor induces endothelial fenestrations in vitro. <i>Journal of Cell Biology</i> , <b>1998</b> , 140, 947-59	7.3	521
22	Upregulation of the vascular endothelial growth factor/vascular endothelial growth factor receptor system in experimental background diabetic retinopathy of the rat. <i>Diabetes</i> , <b>1998</b> , 47, 401-6	0.9	188
21	The Role of Vascular Endothelial Growth Factor in Tumor Angiogenesis <b>1998</b> , 305-318		
20	VEGF gene transfer reduces intimal thickening via increased production of nitric oxide in carotid arteries. <i>Human Gene Therapy</i> , <b>1997</b> , 8, 1737-44	4.8	172
19	Insights in vessel development and vascular disorders using targeted inactivation and transfer of vascular endothelial growth factor, the tissue factor receptor, and the plasminogen system. <i>Annals of the New York Academy of Sciences</i> , <b>1997</b> , 811, 191-206	6.5	109
18	Genetic mapping of the vascular endothelial growth factor (Vegf) gene to mouse chromosome 17. <i>Mammalian Genome</i> , <b>1997</b> , 8, 451-2	3.2	2
17	Angiogenesis in Embryos and Ischemic Diseases. <i>Thrombosis and Haemostasis</i> , <b>1997</b> , 78, 678-683	7	89
16	Polyoma middle T-induced vascular tumor formation: the role of the plasminogen activator/plasmin system. <i>Journal of Cell Biology</i> , <b>1997</b> , 137, 953-63	7.3	55
15	The vascular endothelial growth factor receptor Flt-1 mediates biological activities. Implications for a functional role of placenta growth factor in monocyte activation and chemotaxis. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 17629-34	5.4	635
14	The role of vascular endothelial growth factor in blood vessel formation. <i>Trends in Cell Biology</i> , <b>1996</b> , 6, 454-6	18.3	124
13	Abnormal blood vessel development and lethality in embryos lacking a single VEGF allele. <i>Nature</i> , <b>1996</b> , 380, 435-9	50.4	3429
12	Role of tissue factor in embryonic blood vessel development. <i>Nature</i> , <b>1996</b> , 383, 73-5	50.4	588

11	Characterization of the endothelium-specific murine vascular endothelial growth factor receptor-2 (Flk-1) promoter. <i>Circulation Research</i> , <b>1996</b> , 79, 277-85	15.7	53
10	Regulation of vascular endothelial growth factor expression in cultured keratinocytes. Implications for normal and impaired wound healing. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 12607-13	5.4	519
9	Hypoxia-induced transcriptional activation and increased mRNA stability of vascular endothelial growth factor in C6 glioma cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 19761-6	5.4	409
8	Vascular endothelial growth factor (VEGF) and VEGF receptor 2 (flk-1) are expressed during vasculogenesis and vascular differentiation in the quail embryo. <i>Developmental Biology</i> , <b>1995</b> , 169, 699-712	7.1	227
7	Hypoxia and platelet-derived growth factor-BB synergistically upregulate the expression of vascular endothelial growth factor in vascular smooth muscle cells. <i>FEBS Letters</i> , <b>1995</b> , 358, 311-5	3.8	123
6	Coordinate expression of vascular endothelial growth factor receptor-1 (flt-1) and its ligand suggests a paracrine regulation of murine vascular development. <i>Developmental Dynamics</i> , <b>1995</b> , 204, 228-39	2.9	233
5	Molecular mechanisms of developmental and tumor angiogenesis. <i>Brain Pathology</i> , <b>1994</b> , 4, 207-18	6	200
4	Vascular endothelial growth factor and glioma angiogenesis: coordinate induction of VEGF receptors, distribution of VEGF protein and possible in vivo regulatory mechanisms. <i>International Journal of Cancer</i> , <b>1994</b> , 59, 520-9	7.5	398
3	Angiogenic Growth Factors in Embryos and Tumors. <i>Contributions To Oncology / Beitrage Zur Onkologie</i> , <b>1992</b> , 44, 224-231		1
2	Vascular endothelial growth factor is a potential tumour angiogenesis factor in human gliomas in vivo. <i>Nature</i> , <b>1992</b> , 359, 845-8	50.4	1991
1	Vasculogenesis909-924		