

Karl H Plate

List of Publications by Year in descending order

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103
papers

17,950
citations

25034
57
h-index

39675
94
g-index

104
all docs

104
docs citations

104
times ranked

20784
citing authors

#	ARTICLE	IF	CITATIONS
1	Linking epigenetic signature and metabolic phenotype in IDH</i> mutant and IDH</i> wildtype diffuse glioma. Neuropathology and Applied Neurobiology, 2021, 47, 379-393.	3.2	4
2	Influence of VEGF-A, VEGFR-1-3, and neuropilin 1-2 on progression-free; and overall survival in WHO grade II and III meningioma patients. Journal of Molecular Histology, 2021, 52, 233-243.	2.2	8
3	The immune suppressive microenvironment affects efficacy of radio-immunotherapy in brain metastasis. EMBO Molecular Medicine, 2021, 13, e13412.	6.9	26
4	DNA methylation-based prediction of response to immune checkpoint inhibition in metastatic melanoma. , 2021, 9, e002226.		26
5	OTME-6. Deep sequencing reveals heterogeneity of brain metastasis-associated macrophages and microglia and uncovers their cell type-specific functions within the tumor microenvironment. Neuro-Oncology Advances, 2021, 3, ii14-ii14.	0.7	1
6	Compensatory CSF2-driven macrophage activation promotes adaptive resistance to CSF1R inhibition in breast-to-brain metastasis. Nature Cancer, 2021, 2, 1086-1101.	13.2	39
7	HIF-1 \pm is involved in blood-brain barrier dysfunction and paracellular migration of bacteria in pneumococcal meningitis. Acta Neuropathologica, 2020, 140, 183-208.	7.7	24
8	Tumor Vessel Normalization, Immunostimulatory Reprogramming, and Improved Survival in Glioblastoma with Combined Inhibition of PD-1, Angiopoietin-2, and VEGF. Cancer Immunology Research, 2019, 7, 1910-1927.	3.4	74
9	Controversial roles for dexamethasone in glioblastoma - Opportunities for novel vascular targeting therapies. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1460-1468.	4.3	33
10	Lack of H3K27 trimethylation is associated with 1p/19q codeletion in diffuse gliomas. Acta Neuropathologica, 2019, 138, 331-334.	7.7	22
11	Papillary glioneuronal tumor (PGNT) exhibits a characteristic methylation profile and fusions involving PRKCA. Acta Neuropathologica, 2019, 137, 837-846.	7.7	43
12	Functional morphology of the blood-brain barrier in health and disease. Acta Neuropathologica, 2018, 135, 311-336.	7.7	543
13	DNA methylation-based classification of central nervous system tumours. Nature, 2018, 555, 469-474.	27.8	1,872
14	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. Circulation, 2017, 136, 65-79.	1.6	196
15	Classification of meningiomas - advances and controversies. Chinese Clinical Oncology, 2017, 6, S2-S2.	1.2	66
16	Endothelial cell-derived angiopoietin-2 is a therapeutic target in treatment-naïve and bevacizumab-resistant glioblastoma. EMBO Molecular Medicine, 2016, 8, 39-57.	6.9	140
17	β 2-Catenin Is Required for Endothelial Cyp1b1 Regulation Influencing Metabolic Barrier Function. Journal of Neuroscience, 2016, 36, 8921-8935.	3.6	37
18	Brain invasion in otherwise benign meningiomas does not predict tumor recurrence. Acta Neuropathologica, 2016, 132, 479-481.	7.7	54

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19	Differential expression of vascular endothelial growth factor A, its receptors VEGFR-1, -2, and -3 and co-receptors neuropilin-1 and -2 does not predict bevacizumab response in human astrocytomas. <i>Neuro-Oncology</i> , 2016, 18, 173-183.	1.2	35
20	Angiopoietin-2-induced blood-brain barrier compromise and increased stroke size are rescued by VE-PTP-dependent restoration of Tie2 signaling. <i>Acta Neuropathologica</i> , 2016, 131, 753-773.	7.7	120
21	Decrease of VEGF-A in myeloid cells attenuates glioma progression and prolongs survival in an experimental glioma model. <i>Neuro-Oncology</i> , 2016, 18, 939-949.	1.2	38
22	ATP Synthase Deficiency due to TMEM70 Mutation Leads to Ultrastructural Mitochondrial Degeneration and Is Amenable to Treatment. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	10
23	MIF Receptor CD74 is Restricted to Microglia/Macrophages, Associated with a Polarized Immune Milieu and Prolonged Patient Survival in Gliomas. <i>Brain Pathology</i> , 2015, 25, 491-504.	4.1	90
24	β -Catenin-Gli1 interaction regulates proliferation and tumor growth in medulloblastoma. <i>Molecular Cancer</i> , 2015, 14, 17.	19.2	51
25	Extracellular vesicle-mediated transfer of functional RNA in the tumor microenvironment. <i>Oncotarget</i> , 2015, 6, e1008371.	4.6	227
26	Angiopoietin-2: a multifaceted cytokine that functions in both angiogenesis and inflammation. <i>Annals of the New York Academy of Sciences</i> , 2015, 1347, 45-51.	3.8	180
27	The Angiopoietin-Tie System: Common Signaling Pathways for Angiogenesis, Cancer, and Inflammation. , 2015, , 313-328.		12
28	Distribution and prognostic relevance of tumor-infiltrating lymphocytes (TILs) and PD-1/PD-L1 immune checkpoints in human brain metastases. <i>Oncotarget</i> , 2015, 6, 40836-40849.	1.8	106
29	Netrin-1 Expression Is an Independent Prognostic Factor for Poor Patient Survival in Brain Metastases. <i>PLoS ONE</i> , 2014, 9, e92311.	2.5	28
30	Analysis of Cerebral Angiogenesis in Human Glioblastomas. <i>Methods in Molecular Biology</i> , 2014, 1135, 187-203.	0.9	1
31	Extracellular Vesicle-Mediated Transfer of Genetic Information between the Hematopoietic System and the Brain in Response to Inflammation. <i>PLoS Biology</i> , 2014, 12, e1001874.	5.6	312
32	Generation of Neuronal Progenitor Cells in Response to Tumors in the Human Brain. <i>Stem Cells</i> , 2014, 32, 244-257.	3.2	12
33	Cerebral Angiogenesis During Development: Who Is Conducting the Orchestra?. <i>Methods in Molecular Biology</i> , 2014, 1135, 3-20.	0.9	28
34	Bone Marrow Chimera Experiments to Determine the Contribution of Hematopoietic Stem Cells to Cerebral Angiogenesis. <i>Methods in Molecular Biology</i> , 2014, 1135, 275-288.	0.9	6
35	Analysis of Angiogenesis in the Developing Mouse Central Nervous System. <i>Methods in Molecular Biology</i> , 2014, 1135, 55-68.	0.9	2
36	Brain homeostasis: VEGF receptor 1 and 2—two unequal brothers in mind. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 1705-1725.	5.4	44

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37	EGFL7 ligates $\alpha 5\beta 3$ integrin to enhance vessel formation. Blood, 2013, 121, 3041-3050.	1.4	62
38	Tumor angiogenesis and anti-angiogenic therapy in malignant gliomas revisited. Acta Neuropathologica, 2012, 124, 763-775.	7.7	226
39	Angiopoietin-1 mediates inhibition of hypertension-induced release of angiopoietin-2 from endothelial cells. Cardiovascular Research, 2012, 94, 510-518.	3.8	21
40	Endothelial Wnt/ β -catenin signaling inhibits glioma angiogenesis and normalizes tumor blood vessels by inducing PDGF-B expression. Journal of Experimental Medicine, 2012, 209, 1611-1627.	8.5	127
41	Angiopoietin-2 promotes myeloid cell infiltration in a $\beta 2$ -integrin-dependent manner. Blood, 2011, 118, 5050-5059.	1.4	81
42	Angiopoietin 2 Stimulates TIE2-Expressing Monocytes To Suppress T Cell Activation and To Promote Regulatory T Cell Expansion. Journal of Immunology, 2011, 186, 4183-4190.	0.8	185
43	VEGFR-1 Signaling Regulates the Homing of Bone Marrow-Derived Cells in a Mouse Stroke Model. Journal of Neuropathology and Experimental Neurology, 2010, 69, 168-175.	1.7	22
44	Differentiation of the brain vasculature: the answer came blowing by the Wnt. Journal of Angiogenesis Research, 2010, 2, 1.	2.9	117
45	Prolyl Hydroxylases 2 and 3 Act in Gliomas as Protective Negative Feedback Regulators of Hypoxia-Inducible Factors. Cancer Research, 2010, 70, 357-366.	0.9	104
46	Angiopoietin-2 Regulates Gene Expression in TIE2-Expressing Monocytes and Augments Their Inherent Proangiogenic Functions. Cancer Research, 2010, 70, 5270-5280.	0.9	299
47	Sonic Hedgehog Acts as a Negative Regulator of β -Catenin Signaling in the Adult Tongue Epithelium. American Journal of Pathology, 2010, 177, 404-414.	3.8	36
48	VEGFR-1 Regulates Adult Olfactory Bulb Neurogenesis and Migration of Neural Progenitors in the Rostral Migratory Stream In Vivo. Journal of Neuroscience, 2009, 29, 8704-8714.	3.6	101
49	Endothelial progenitor cells do not contribute to tumor endothelium in primary and metastatic tumors. International Journal of Cancer, 2009, 125, 1771-1777.	5.1	58
50	Angiogenesis after cerebral ischemia. Acta Neuropathologica, 2009, 117, 481-496.	7.7	333
51	Switching of vascular phenotypes within a murine breast cancer model induced by angiopoietin-2. Journal of Pathology, 2009, 217, 571-580.	4.5	44
52	Epidermal growth factor-like domain 7 (EGFL7) modulates Notch signalling and affects neural stem cell renewal. Nature Cell Biology, 2009, 11, 873-880.	10.3	132
53	Brain Tumor Stem Cells. Recent Results in Cancer Research, 2009, 171, 241-259.	1.8	3
54	Hypoxia and Angiogenesis in Glioblastomas. , 2008, , 195-214.		0

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55	Flt-1 Signaling in Macrophages Promotes Glioma Growth <i>in vivo</i> . Cancer Research, 2008, 68, 7342-7351.	0.9	144
56	Conditional expression of Angiopoietin-2 during tumor angiogenesis: tightly balanced Angiopoietin/Tie2 signaling determines the tumor vascular phenotype. FASEB Journal, 2008, 22, 604-604.	0.5	0
57	Angiopoietin-2 Impairs Revascularization After Limb Ischemia. Circulation Research, 2007, 101, 88-96.	4.5	93
58	Different networks, common growth factors: shared growth factors and receptors of the vascular and the nervous system. Acta Neuropathologica, 2007, 113, 607-626.	7.7	103
59	Mechanisms of Angiogenesis in Brain Tumors and their Translation into Therapeutic Anti-tumor Strategies. , 2006, , 219-235.		0
60	Increased Generation of Neuronal Progenitors after Ischemic Injury in the Aged Adult Human Forebrain. Journal of Neuroscience, 2006, 26, 13114-13119.	3.6	252
61	Genetic evidence for a tumor suppressor role of HIF-2. Cancer Cell, 2005, 8, 131-141.	16.8	174
62	The Role of Angiopoietins During Angiogenesis in Gliomas. Brain Pathology, 2005, 15, 311-317.	4.1	94
63	Inhibition of solid tumor growth by gene transfer of VEGF receptor mutants. International Journal of Cancer, 2004, 111, 348-357.	5.1	48
64	Uncontrolled Expression of Vascular Endothelial Growth Factor and Its Receptors Leads to Insufficient Skin Angiogenesis in Patients With Systemic Sclerosis. Circulation Research, 2004, 95, 109-116.	4.5	276
65	Hypoxia and Hypoxia Inducible Factors (HIF) as Important Regulators of Tumor Physiology. Cancer Treatment and Research, 2004, 117, 219-248.	0.5	50
66	Angiopoietin-1 Promotes Tumor Angiogenesis in a Rat Glioma Model. American Journal of Pathology, 2004, 165, 1557-1570.	3.8	115
67	Direct Stimulation of Adult Neural Stem Cells In Vitro and Neurogenesis In Vivo by Vascular Endothelial Growth Factor. Brain Pathology, 2004, 14, 237-248.	4.1	319
68	Role of hypoxia in tumor angiogenesis?molecular and cellular angiogenic crosstalk. Cell and Tissue Research, 2003, 314, 145-155.	2.9	49
69	Participation of Bone Marrow-Derived Cells in Long-Term Repair Processes after Experimental Stroke. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 709-717.	4.3	81
70	Minor Contribution of Bone Marrow-Derived Endothelial Progenitors to the Vascularization of Murine Gliomas. Brain Pathology, 2003, 13, 582-597.	4.1	97
71	Cell Type-Specific Expression of Neuropilins in an MCA-Occlusion Model in Mice Suggests a Potential Role in Post-Ischemic Brain Remodeling. Journal of Neuropathology and Experimental Neurology, 2002, 61, 339-350.	1.7	95
72	A role for hypoxia and hypoxia-inducible transcription factors in tumor physiology. Journal of Molecular Medicine, 2002, 80, 562-575.	3.9	80

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73	Cell type specific expression of vascular endothelial growth factor and angiopoietin-1 and -2 suggests an important role of astrocytes in cerebellar vascularization. <i>Mechanisms of Development</i> , 2001, 108, 45-57.	1.7	110
74	Differential inhibition of tumor angiogenesis by tie2 and vascular endothelial growth factor receptorâ€2 dominantâ€negative receptor mutants. <i>International Journal of Cancer</i> , 2001, 91, 273-282.	5.1	78
75	Synergism between vascular endothelial growth factor and placental growth factor contributes to angiogenesis and plasma extravasation in pathological conditions. <i>Nature Medicine</i> , 2001, 7, 575-583.	30.7	1,484
76	Deletion of the hypoxia-response element in the vascular endothelial growth factor promoter causes motor neuron degeneration. <i>Nature Genetics</i> , 2001, 28, 131-138.	21.4	967
77	Vascular Endothelial Growth Factor-driven Glioma Growth and Vascularization in an Orthotopic Rat Model Monitored by Magnetic Resonance Imaging. <i>Neurosurgery</i> , 2000, 47, 921-930.	1.1	34
78	Up-regulation of hypoxia-inducible factors HIF-1Î± and HIF-2Î± under normoxic conditions in renal carcinoma cells by von Hippel-Lindau tumor suppressor gene loss of function. <i>Oncogene</i> , 2000, 19, 5435-5443.	5.9	348
79	Expression of Angiopoietin-1, Angiopoietin-2, and Tie Receptors after Middle Cerebral Artery Occlusion in the Rat. <i>American Journal of Pathology</i> , 2000, 157, 1473-1483.	3.8	197
80	Vascular Endothelial Growth Factor Expression, Vascular Volume, and Capillary Permeability in Human Brain Tumors. <i>Neurosurgery</i> , 1999, 44, 732-740.	1.1	105
81	Mechanisms of Angiogenesis in the Brain. <i>Journal of Neuropathology and Experimental Neurology</i> , 1999, 58, 313-320.	1.7	314
82	Antiangiogenic Gene Therapy in a Rat Glioma Model Using a Dominant-Negative Vascular Endothelial Growth Factor Receptor 2. <i>Human Gene Therapy</i> , 1999, 10, 1117-1128.	2.7	78
83	Vascularization of human glioma spheroids implanted into rat cortex is conferred by two distinct mechanisms. <i>Journal of Neuroscience Research</i> , 1999, 55, 486-495.	2.9	38
84	Expression and localization of placenta growth factor and PlGF receptors in human meningiomas. , 1999, 189, 66-71.		73
85	Cell Type Specific Upregulation of Vascular Endothelial Growth Factor in an MCA-occlusion Model of Cerebral Infarct. <i>Journal of Neuropathology and Experimental Neurology</i> , 1999, 58, 654-666.	1.7	221
86	Upregulation of vascular endothelial growth factor in severe chronic brain hypoxia of the rat. <i>Neuroscience Letters</i> , 1998, 252, 199-202.	2.1	28
87	Up-Regulation of Vascular Endothelial Growth Factor in Stromal Cells of Hemangioblastomas Is Correlated with Up-Regulation of the Transcription Factor HRF/HIF-2Î±. <i>American Journal of Pathology</i> , 1998, 153, 25-29.	3.8	105
88	Cell Type-Specific Expression of Angiopoietin-1 and Angiopoietin-2 Suggests a Role in Glioblastoma Angiogenesis. <i>American Journal of Pathology</i> , 1998, 153, 1459-1466.	3.8	433
89	Coexpression of Erythropoietin and Vascular Endothelial Growth Factor in Nervous System Tumors Associated With von Hippel-Lindau Tumor Suppressor Gene Loss of Function. <i>Blood</i> , 1998, 92, 3388-3393.	1.4	124
90	Control of Tumor Growth Via Inhibition of Tumor Angiogenesis. <i>Advances in Experimental Medicine and Biology</i> , 1998, 451, 57-61.	1.6	9

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91	Coexpression of Erythropoietin and Vascular Endothelial Growth Factor in Nervous System Tumors Associated With von Hippel-Lindau Tumor Suppressor Gene Loss of Function. Blood, 1998, 92, 3388-3393.	1.4	9
92	The Role of Vascular Endothelial Growth Factor in Tumor Angiogenesis. , 1998, , 305-318.		0
93	Putative Control of Angiogenesis in Hemangioblastomas by the von Hippel-Lindau Tumor Suppressor Gene. Journal of Neuropathology and Experimental Neurology, 1997, 56, 1242-1252.	1.7	67
94	Vascular endothelial growth factor. , 1997, 35, 363-370.		60
95	Anti-Angiogenic Gene Therapy of Malignant Glioma. , 1997, 68, 105-110.		23
96	Mutations in the VHL tumor suppressor gene and associated lesions in families with von Hippel-Lindau disease from central Europe. Human Genetics, 1996, 98, 271-280.	3.8	102
97	Gene therapy of malignant glioma via inhibition of tumor angiogenesis. Cancer and Metastasis Reviews, 1996, 15, 237-240.	5.9	26
98	Angiogenesis in malignant gliomas. Glia, 1995, 15, 339-347.	4.9	315
99	Molecular Mechanisms of Developmental and Tumor Angiogenesis. Brain Pathology, 1994, 4, 207-218.	4.1	217
100	Vascular endothelial growth factor and glioma angiogenesis: Coordinate induction of VEGF receptors, distribution of VEGF protein and possible <i>In vivo</i> regulatory mechanisms. International Journal of Cancer, 1994, 59, 520-529.	5.1	429
101	Glioblastoma growth inhibited in vivo by a dominant-negative Flk-1 mutant. Nature, 1994, 367, 576-579.	27.8	1,188
102	Neuropathological findings in 224 patients with temporal lobe epilepsy. Acta Neuropathologica, 1993, 86, 433-8.	7.7	68
103	Vascular endothelial growth factor is a potential tumour angiogenesis factor in human gliomas in vivo. Nature, 1992, 359, 845-848.	27.8	2,168