Susann M Brady-Kalnay

List of Publications by Year
in descending order

57	2,405	236925 25	206112 48
papers	citations	h-index	g-index

58	58	58	2925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Signal Transduction in Neuronal Migration. Cell, 2001, 107, 209-221.	28.9	515
2	Dynamic Interaction of PTPÎ¼ with Multiple Cadherins In Vivo. Journal of Cell Biology, 1998, 141, 287-296.	5.2	160
3	Î±3Î²1 integrinâ€“CD151, a component of the cadherinâ€“catenin complex, regulates PTPÎ¼ expression and cellâ€“cell adhesion. Journal of Cell Biology, 2003, 163, 1351-1362.	5.2	145
4	PTPÎ¼ Regulates N-Cadherinâ€“dependent Neurite Outgrowth. Journal of Cell Biology, 1999, 144, 1323-1336.	5.2	115
5	The PTPÎ¼ Protein-tyrosine Phosphatase Binds and Recruits the Scaffolding Protein RACK1 to Cell-Cell Contacts. Journal of Biological Chemistry, 2001, 276, 14896-14901.	3.4	97
6	Expression of the Receptor Protein-tyrosine Phosphatase, PTPÎ¼, Restores E-cadherin-dependent Adhesion in Human Prostate Carcinoma Cells. Journal of Biological Chemistry, 2002, 277, 11165-11173.	3.4	79
7	Receptor protein tyrosine phosphatases regulate neural development and axon guidance. Developmental Biology, 2004, 275, 12-22.	2.0	75
8	Proteolytic Cleavage of Protein Tyrosine Phosphatase Î¼ Regulates Glioblastoma Cell Migration. Cancer Research, 2009, 69, 6960-6968.	0.9	64
9	Treatment of Invasive Brain Tumors Using a Chain-like Nanoparticle. Cancer Research, 2015, 75, 1356-1365.	0.9	63
10	Protein-tyrosine Phosphatase (PTP) Wedge Domain Peptides. Journal of Biological Chemistry, 2006, 281, 16482-16492.	3.4	60
11	PTPÎ¼ suppresses glioma cell migration and dispersal. Neuro-Oncology, 2009, 11, 767-778.	1.2	52
12	Cancer Cells Cut Homophilic Cell Adhesion Molecules and Run. Cancer Research, 2011, 71, 303-309.	0.9	52
13	Protein Kinase C Î´ (PKCÎ´) Is Required for Protein Tyrosine Phosphatase Î¼ (PTPÎ¼)-Dependent Neurite Outgrowth. Molecular and Cellular Neurosciences, 2002, 19, 292-306.	2.2	51
14	Novel Cryo-Imaging of the Glioma Tumor Microenvironment Reveals Migration and Dispersal Pathways in Vivid Three-Dimensional Detail. Cancer Research, 2011, 71, 5932-5940.	0.9	48
15	Tumor-Derived Extracellular Mutations of PTPRT/PTPÏ•Are Defective in Cell Adhesion. Molecular Cancer Research, 2008, 6, 1106-1113.	3.4	44
16	A Novel Molecular Diagnostic of Glioblastomas: Detection of an Extracellular Fragment of Protein Tyrosine Phosphatase Î¼. Neoplasia, 2010, 12, 305-IN2.	5.3	39
17	Photodynamic Therapy Is an Effective Adjuvant Therapy for Image-Guided Surgery in Prostate Cancer. Cancer Research, 2020, 80, 156-162.	0.9	36
18	Distinct PTPmu-associated signaling molecules differentially regulate neurite outgrowth on E-, N-, and R-cadherin. Molecular and Cellular Neurosciences, 2010, 44, 78-93.	2.2	33

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19	Protein Tyrosine Phosphatase-Î¼ Differentially Regulates Neurite Outgrowth of Nasal and Temporal Neurons in the Retina. Journal of Neuroscience, 2002, 22, 3615-3627.	3.6	32
20	Fluorescent-Guided Surgical Resection of Glioma with Targeted Molecular Imaging Agents: A Literature Review. World Neurosurgery, 2016, 90, 154-163.	1.3	31
21	E-cadherin promotes retinal ganglion cell neurite outgrowth in a protein tyrosine phosphatase-mu-dependent manner. Molecular and Cellular Neurosciences, 2007, 34, 481-492.	2.2	29
22	Synthesis and Evaluation of a Peptide Targeted Small Molecular Gd-DOTA Monoamide Conjugate for MR Molecular Imaging of Prostate Cancer. Bioconjugate Chemistry, 2012, 23, 1548-1556.	3.6	29
23	The Receptor Protein-tyrosine Phosphatase PTPÎ¼ Interacts with IQGAP1. Journal of Biological Chemistry, 2006, 281, 4903-4910.	3.4	28
24	Cryo-image Analysis of Tumor Cell Migration, Invasion, and Dispersal in a Mouse Xenograft Model of Human Glioblastoma Multiforme. Molecular Imaging and Biology, 2012, 14, 572-583.	2.6	27
25	Dual Contrast - Magnetic Resonance Fingerprinting (DC-MRF): A Platform for Simultaneous Quantification of Multiple MRI Contrast Agents. Scientific Reports, 2017, 7, 8431.	3.3	27
26	Regulation of development and cancer by the R2B subfamily of RPTPs and the implications of proteolysis. Seminars in Cell and Developmental Biology, 2015, 37, 108-118.	5.0	26
27	PTPÎ¼ signaling via PKCÎ´ is instructive for retinal ganglion cell guidance. Molecular and Cellular Neurosciences, 2004, 25, 558-571.	2.2	25
28	Cancer-Derived Mutations in the Fibronectin III Repeats of PTPRT/PTPÏ•Inhibit Cell-Cell Aggregation. Cell Communication and Adhesion, 2010, 16, 146-153.	1.0	25
29	Identification of phospholipase C gamma1 as a protein tyrosine phosphatase mu substrate that regulates cell migration. Journal of Cellular Biochemistry, 2011, 112, 39-48.	2.6	25
30	Characterization of the Adhesive Properties of the Type IIb Subfamily Receptor Protein Tyrosine Phosphatases. Cell Communication and Adhesion, 2010, 17, 34-47.	1.0	24
31	Novel peptide mimetic small molecules of the HAV motif in N-cadherin inhibit N-cadherin-mediated neurite outgrowth and cell adhesion. Peptides, 2009, 30, 2380-2387.	2.4	23
32	Should I stay or should I go? Shedding of RPTPs in cancer cells switches signals from stabilizing cell-cell adhesion to driving cell migration. Cell Adhesion and Migration, 2011, 5, 298-305.	2.7	23
33	Single cell molecular recognition of migrating and invading tumor cells using a targeted fluorescent probe to receptor PTPmu. International Journal of Cancer, 2013, 132, 1624-1632.	5.1	19
34	<scp>Physicallyâ€crossâ€linked</scp> poly(vinyl alcohol) cell culture plate coatings facilitate preservation of <scp>cellâ€“cell</scp> interactions, spheroid formation, and stemness. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1744-1753.	3.4	19
35	PTPÎ¼ expression and catalytic activity are required for PTPÎ¼-mediated neurite outgrowth and repulsion. Molecular and Cellular Neurosciences, 2005, 28, 177-188.	2.2	18
36	Purification and characterization of the human protein tyrosine phosphatase, PTP?, from a baculovirus expression system. Molecular and Cellular Biochemistry, 1993, 127-128, 131-141.	3.1	17

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37	Protein tyrosine phosphatase mu regulates glioblastoma cell growth and survival in vivo. Neuro-Oncology, 2012, 14, 561-573.	1.2	17
38	Tumor-Derived Extracellular Fragments of Receptor Protein Tyrosine Phosphatases (RPTPs) as Cancer Molecular Diagnostic Tools. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 133-140.	1.7	16
39	Small Molecule-Based Prodrug Targeting Prostate Specific Membrane Antigen for the Treatment of Prostate Cancer. Cancers, 2021, 13, 417.	3.7	16
40	A Protease Storm Cleaves a Cellâ€“Cell Adhesion Molecule in Cancer: Multiple Proteases Converge to Regulate PTPmu in Glioma Cells. Journal of Cellular Biochemistry, 2014, 115, 1609-1623.	2.6	15
41	Molecular Imaging of Tumors Using a Quantitative T1 Mapping Technique via Magnetic Resonance Imaging. Diagnostics, 2015, 5, 318-332.	2.6	15
42	Ultrasound-Based Molecular Imaging of Tumors with PTPmu Biomarker-Targeted Nanobubble Contrast Agents. International Journal of Molecular Sciences, 2021, 22, 1983.	4.1	14
43	PTP?-dependent growth cone rearrangement is regulated by Cdc42. Journal of Neurobiology, 2003, 56, 199-208.	3.6	13
44	The receptor protein tyrosine phosphatase mu, PTPÎ¼, regulates histogenesis of the chick retina. Developmental Biology, 2003, 264, 106-118.	2.0	13
45	Molecular Magnetic Resonance Imaging of Tumors with a PTPÂµ Targeted Contrast Agent. Translational Oncology, 2013, 6, 329-337.	3.7	13
46	Quantitative Molecular Imaging with a Single Gd-Based Contrast Agent Reveals Specific Tumor Binding and Retention in Vivo. Analytical Chemistry, 2017, 89, 5932-5939.	6.5	13
47	Peptide targeted high-resolution molecular imaging of prostate cancer with MRI. American Journal of Nuclear Medicine and Molecular Imaging, 2014, 4, 525-36.	1.0	13
48	BCCIP associates with the receptor protein tyrosine phosphatase PTPÂµ. Journal of Cellular Biochemistry, 2008, 105, 1059-1072.	2.6	10
49	Stimulation of N-cadherin-dependent neurite outgrowth by small molecule peptide mimetic agonists of the N-cadherin HAV motif. Peptides, 2010, 31, 842-849.	2.4	10
50	Dynamic Quantitative T1 Mapping in Orthotopic Brain Tumor Xenografts. Translational Oncology, 2016, 9, 147-154.	3.7	10
51	PTPmu-targeted nanoparticles label invasive pediatric and adult glioblastoma. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 28, 102216.	3.3	10
52	Rho GTPases regulate PTPÎ¼-mediated nasal neurite outgrowth and temporal repulsion of retinal ganglion cell neurons. Molecular and Cellular Neurosciences, 2007, 34, 453-467.	2.2	9
53	Molecular mechanisms of cancer cell-cell interactions. Cell Adhesion and Migration, 2012, 6, 344-345.	2.7	7
54	Dynamic, Simultaneous Concentration Mapping of Multiple MRI Contrast Agents with Dual Contrast - Magnetic Resonance Fingerprinting. Scientific Reports, 2019, 9, 19888.	3.3	6

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55	Detection of Tumor-Specific PTPmu in Gynecological Cancer and Patient Derived Xenografts. Diagnostics, 2021, 11, 181.	2.6	5
56	A PTPmu Biomarker is Associated with Increased Survival in Gliomas. International Journal of Molecular Sciences, 2019, 20, 2372.	4.1	4
57	Ig-SUPERFAMILY PHOSPHATASES. , 0, , .		1