

Mariano S Viapiano

List of Publications by Year in descending order

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79
papers

2,391
citations

185998

28
h-index

214527

47
g-index

93
all docs

93
docs citations

93
times ranked

3534
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased chondroitin sulfate proteoglycan expression in denervated brainstem targets following spinal cord injury creates a barrier to axonal regeneration overcome by chondroitinase ABC and neurotrophin-3. <i>Experimental Neurology</i> , 2008, 209, 426-445.	2.0	160
2	Fibulin-3 Is Uniquely Upregulated in Malignant Gliomas and Promotes Tumor Cell Motility and Invasion. <i>Molecular Cancer Research</i> , 2009, 7, 1756-1770.	1.5	124
3	Glioma Cell Migration on Three-dimensional Nanofiber Scaffolds Is Regulated by Substrate Topography and Abolished by Inhibition of STAT3 Signaling. <i>Neoplasia</i> , 2011, 13, 831-IN22.	2.3	113
4	Telomestatin Impairs Glioma Stem Cell Survival and Growth through the Disruption of Telomeric G-Quadruplex and Inhibition of the Proto-oncogene, <i>c-Myb</i> . <i>Clinical Cancer Research</i> , 2012, 18, 1268-1280.	3.2	105
5	Quantitative Analysis of Complex Glioma Cell Migration on Electrospun Polycaprolactone Using Time-Lapse Microscopy. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 531-540.	1.1	103
6	Mimicking white matter tract topography using core-shell electrospun nanofibers to examine migration of malignant brain tumors. <i>Biomaterials</i> , 2013, 34, 5181-5190.	5.7	102
7	From barriers to bridges: chondroitin sulfate proteoglycans in neuropathology. <i>Trends in Molecular Medicine</i> , 2006, 12, 488-496.	3.5	94
8	Alterations in chondroitin sulfate proteoglycan expression occur both at and far from the site of spinal contusion injury. <i>Experimental Neurology</i> , 2012, 235, 174-187.	2.0	90
9	The Proteoglycan Brevican Binds to Fibronectin after Proteolytic Cleavage and Promotes Glioma Cell Motility. <i>Journal of Biological Chemistry</i> , 2008, 283, 24848-24859.	1.6	84
10	BEHAB/brevican requires ADAMTS-mediated proteolytic cleavage to promote glioma invasion. <i>Journal of Neuro-Oncology</i> , 2008, 88, 261-272.	1.4	80
11	Fibulin-3 Promotes Glioma Growth and Resistance through a Novel Paracrine Regulation of Notch Signaling. <i>Cancer Research</i> , 2012, 72, 3873-3885.	0.4	79
12	Strategies in Gene Therapy for Glioblastoma. <i>Cancers</i> , 2013, 5, 1271-1305.	1.7	76
13	Chondroitinase ABC Mediated Enhancement of Oncolytic Virus Spread and Antitumor Efficacy. <i>Clinical Cancer Research</i> , 2011, 17, 1362-1372.	3.2	74
14	Polydimethylsiloxane core-polycaprolactone shell nanofibers as biocompatible, real-time oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 697-707.	4.0	74
15	Siomycin A targets brain tumor stem cells partially through a MELK-mediated pathway. <i>Neuro-Oncology</i> , 2011, 13, 622-634.	0.6	63
16	Novel Tumor-Specific Isoforms of BEHAB/Brevican Identified in Human Malignant Gliomas. <i>Cancer Research</i> , 2005, 65, 6726-6733.	0.4	62
17	Deficiency of Atf3, an adaptive-response gene, protects islets and ameliorates inflammation in a syngeneic mouse transplantation model. <i>Diabetologia</i> , 2010, 53, 1438-1450.	2.9	56
18	Toward 3D Biomimetic Models to Understand the Behavior of Glioblastoma Multiforme Cells. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 314-327.	2.5	49

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19	Total copy number variation as a prognostic factor in adult astrocytoma subtypes. <i>Acta Neuropathologica Communications</i> , 2019, 7, 92.	2.4	48
20	A Novel Membrane-associated Glycovariant of BEHAB/Brevican Is Up-regulated during Rat Brain Development and in a Rat Model of Invasive Glioma. <i>Journal of Biological Chemistry</i> , 2003, 278, 33239-33247.	1.6	45
21	N-Acetylaspartate (NAA) and N-Acetylaspartylglutamate (NAAG) Promote Growth and Inhibit Differentiation of Glioma Stem-like Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 26188-26200.	1.6	44
22	Microscale Sensing of Oxygen via Encapsulated Porphyrin Nanofibers: Effect of Indicator and Polymer Core Permeability. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8606-8614.	4.0	44
23	Suppression of Peroxiredoxin 4 in Glioblastoma Cells Increases Apoptosis and Reduces Tumor Growth. <i>PLoS ONE</i> , 2012, 7, e42818.	1.1	42
24	Angle correction for small animal tumor imaging with spatial frequency domain imaging (SFDI). <i>Biomedical Optics Express</i> , 2016, 7, 2373.	1.5	41
25	Novel Paracrine Modulation of Notch/DLL4 Signaling by Fibulin-3 Promotes Angiogenesis in High-Grade Gliomas. <i>Cancer Research</i> , 2014, 74, 5435-5448.	0.4	39
26	Brevican knockdown reduces late-stage glioma tumor aggressiveness. <i>Journal of Neuro-Oncology</i> , 2014, 120, 63-72.	1.4	37
27	Reduced Expression of the Hyaluronan and Proteoglycan Link Proteins in Malignant Gliomas. <i>Journal of Biological Chemistry</i> , 2009, 284, 26547-26556.	1.6	36
28	Rapid response oxygen-sensing nanofibers. <i>Materials Science and Engineering C</i> , 2013, 33, 3450-3457.	3.8	34
29	Molecular Correlates of Long Survival in IDH-Wildtype Glioblastoma Cohorts. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 843-854.	0.9	32
30	Triacetin-based acetate supplementation as a chemotherapeutic adjuvant therapy in glioma. <i>International Journal of Cancer</i> , 2014, 134, 1300-1310.	2.3	27
31	Nanoscale upconversion for oxygen sensing. <i>Materials Science and Engineering C</i> , 2017, 70, 76-84.	3.8	26
32	Cancer cell aggregate hypoxia visualized in vitro via biocompatible fiber sensors. <i>Biomaterials</i> , 2016, 76, 208-217.	5.7	22
33	Development of a Function-Blocking Antibody Against Fibulin-3 as a Targeted Reagent for Glioblastoma. <i>Clinical Cancer Research</i> , 2018, 24, 821-833.	3.2	21
34	Targeted Treatment of Experimental Spinal Cord Glioma With Dual Gene-Engineered Human Neural Stem Cells. <i>Neurosurgery</i> , 2016, 79, 481-491.	0.6	20
35	Acetate Supplementation as a Means of Inducing Glioblastoma Stem-Like Cell Growth Arrest. <i>Journal of Cellular Physiology</i> , 2015, 230, 1929-1943.	2.0	19
36	Acetate Supplementation Induces Growth Arrest of NG2/PDGFR α -Positive Oligodendroglioma-Derived Tumor-Initiating Cells. <i>PLoS ONE</i> , 2013, 8, e80714.	1.1	19

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37	Prolonged exposure to hypobaric hypoxia transiently reduces GABAA receptor number in mice cerebral cortex. <i>Brain Research</i> , 2001, 894, 31-36.	1.1	18
38	Glioma Invasion: Mechanisms and Therapeutic Challenges. , 2009, , 1219-1252.		16
39	Neurosteroid modulation of GABA binding sites in developing avian central nervous system. <i>Neurochemistry International</i> , 1998, 32, 291-298.	1.9	14
40	Acute hypoxic hypoxia transiently reduces GABAA binding site number in developing chick optic lobe. <i>Developmental Brain Research</i> , 2000, 124, 67-72.	2.1	14
41	The protein tyrosine phosphatase RPTP η /phosphacan is critical for perineuronal net structure. <i>Journal of Biological Chemistry</i> , 2020, 295, 955-968.	1.6	14
42	Pentobarbital modulatory effect on GABA binding sites in developing chick optic lobe. <i>International Journal of Developmental Neuroscience</i> , 1995, 13, 783-789.	0.7	13
43	Molecular Signatures of Chromosomal Instability Correlate With Copy Number Variation Patterns and Patient Outcome in IDH-Mutant and IDH-Wildtype Astrocytomas. <i>Journal of Neuropathology and Experimental Neurology</i> , 2021, 80, 354-365.	0.9	12
44	The protein tyrosine phosphatase RPTP η /phosphacan is critical for perineuronal net structure. <i>Journal of Biological Chemistry</i> , 2020, 295, 955-968.	1.6	11
45	Targeting Glioblastoma Using a Novel Peptide Specific to a Deglycosylated Isoform of Brevican. <i>Advanced Therapeutics</i> , 2021, 4, 2000244.	1.6	11
46	Comparative modulation by 3 alpha,5 alpha and 3 beta,5 beta neurosteroids of GABA binding sites during avian central nervous system development. <i>Neurochemical Research</i> , 1998, 23, 155-161.	1.6	10
47	The scaffolding protein DLG5 promotes glioblastoma growth by controlling Sonic Hedgehog signaling in tumor stem cells. <i>Neuro-Oncology</i> , 2022, 24, 1230-1242.	0.6	10
48	Design of a Microfluidic Chip for Magnetic-Activated Sorting of One-Bead-One-Compound Libraries. <i>ACS Combinatorial Science</i> , 2016, 18, 271-278.	3.8	8
49	The Carbonic Anhydrase Inhibitor E7070 Sensitizes Glioblastoma Cells to Radio- and Chemotherapy and Reduces Tumor Growth. <i>Molecular Neurobiology</i> , 2021, 58, 4520-4534.	1.9	8
50	Understanding dynamic changes in live cell adhesion with neutron reflectometry. <i>Modern Physics Letters B</i> , 2014, 28, 1430015.	1.0	7
51	Ko143 Reverses MDR in Glioblastoma <i>via</i> Deactivating P-Glycoprotein, Sensitizing a Resistant Phenotype to TMZ Treatment. <i>Anticancer Research</i> , 2022, 42, 723-730.	0.5	7
52	Hemoglobin regulates the migration of glioma cells along poly(ϵ -caprolactone)-aligned nanofibers. <i>Biotechnology Progress</i> , 2014, 30, 1214-1220.	1.3	6
53	Spatial progression and molecular heterogeneity of IDH-mutant glioblastoma determined by DNA methylation-based mapping. <i>Acta Neuropathologica Communications</i> , 2021, 9, 120.	2.4	6
54	Global DNA methylation profiling reveals chromosomal instability in IDH-mutant astrocytomas. <i>Acta Neuropathologica Communications</i> , 2022, 10, 32.	2.4	6

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55	Anaplastic Transformation in Myxopapillary Ependymoma: A Report of 2 Cases and Review of the Literature. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 1044-1053.	0.9	4
56	3Î²-OH-5Î²-Pregnan-20-One Enhances [³ H]Gaba Binding in Developing Chick Optic Lobe. <i>Journal of Receptor and Signal Transduction Research</i> , 1997, 17, 585-597.	1.3	3
57	The novel lectin KM+ detects a specific subset of mannosyl-glycoconjugates in the rat cerebellum. <i>Glycoconjugate Journal</i> , 2003, 20, 501-508.	1.4	3
58	LAB-ANGIOGENESIS AND INVASION. <i>Neuro-Oncology</i> , 2012, 14, vi1-vi6.	0.6	2
59	Cell Biology and Signaling. <i>Neuro-Oncology</i> , 2010, 12, iv7-iv25.	0.6	1
60	CELL BIOLOGY AND SIGNALING. <i>Neuro-Oncology</i> , 2011, 13, iii10-iii25.	0.6	1
61	DDIS-36. BTP-7, A NOVEL PEPTIDE FOR THERAPEUTIC TARGETING OF MALIGNANT BRAIN TUMORS. <i>Neuro-Oncology</i> , 2019, 21, vi71-vi71.	0.6	1
62	Synaptic membrane freezing affects modulatory sites in avian central nervous system GABA(A) receptor. <i>Neurochemical Research</i> , 1999, 24, 1347-1355.	1.6	0
63	Tumor Models (In Vivo/In Vitro). <i>Neuro-Oncology</i> , 2010, 12, iv130-iv136.	0.6	0
64	LAB-CELL BIOLOGY AND SIGNALING. <i>Neuro-Oncology</i> , 2012, 14, vi7-vi20.	0.6	0
65	N-Acetylaspartate (NAA) and N-acetylaspartylglutamate (NAAG) promote growth and inhibit differentiation of glioma stem-like cells.. <i>Journal of Biological Chemistry</i> , 2013, 288, 31916-31917.	1.6	0
66	ET-42 * DEVELOPMENT OF A NOVEL, FUNCTION-BLOCKING ANTI-FIBULIN-3 ANTIBODY AS TARGETED REAGENT FOR GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2014, 16, v88-v88.	0.6	0
67	NT-08 * A NOVEL HIGH-THROUGHPUT MICROFLUIDIC DEVICE DESIGNED TO ACCELERATE THE DISCOVERY OF GLIOBLASTOMA-TARGETING LIGANDS FROM OBOC LIBRARIES. <i>Neuro-Oncology</i> , 2014, 16, v160-v160.	0.6	0
68	ME-11 * REDUCTION OF NFκB IN THE IN THE TUMOR MICROENVIRONMENT ALTERS THE NEURAL EXTRACELLULAR MATRIX AND REDUCES GLIOBLASTOMA GROWTH AND DISPERSION. <i>Neuro-Oncology</i> , 2014, 16, v122-v122.	0.6	0
69	CS-26 * FIBULIN-3 REGULATES CANONICAL NFκB SIGNALING IN GLIOMA CELLS AND SURROUNDING STROMAL CELLS TO PROMOTE TUMOR INVASION. <i>Neuro-Oncology</i> , 2014, 16, v56-v56.	0.6	0
70	ATPS-08DISCOVERY OF NOVEL GLIOMA-TARGETING PEPTIDES USING A HIGH-THROUGHPUT MICROFLUIDIC MAGNETIC-ACTIVATED SORTER. <i>Neuro-Oncology</i> , 2015, 17, v19.4-v19.	0.6	0
71	IMST-05. NOVEL CAR-T CELLS TARGETING THE EXTRACELLULAR MATRIX OF GLIOBLASTOMA INDUCE STRONG ANTI-TUMOR IMMUNE RESPONSE. <i>Neuro-Oncology</i> , 2016, 18, vi86-vi87.	0.6	0
72	COMP-14. MOLECULAR PROFILING AND CELLULAR DECONVOLUTION OF GLIOBLASTOMA BRAIN TUMORS USING CHROMATIN RUN-ON AND SEQUENCING. <i>Neuro-Oncology</i> , 2019, 21, vi64-vi64.	0.6	0

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73	CSIG-07. TARGETING CELL POLARITY PROTEINS FROM THE SCRIBBLE COMPLEX DISRUPTS GLIOBLASTOMA STEM CELL VIABILITY AND INVASION IN NEURAL TISSUE. <i>Neuro-Oncology</i> , 2019, 21, vi45-vi45.	0.6	0
74	Abstract 5504: Development of screening system for Brain Tumor Stem Cell-targeting chemotherapeutic agents. , 2010, , .		0
75	Abstract 3302: The effects of the g-quadruplex ligand telomestatin to human brain tumor stem cell survival and growth. , 2011, , .		0
76	Abstract 2353: Fibulin-3, an extracellular matrix protein, regulates Notch signaling and promotes brain tumor cell invasion and survival. , 2011, , .		0
77	Abstract 1433: Analysis of tumor cell migration on electrospun nanofibers identifies STAT3 as a pro-migratory target in gliomas. , 2011, , .		0
78	Abstract 3481: Dietary acetate supplementation as a means of inducing glioma stem cell growth arrest. , 2012, , .		0
79	Abstract 4864: Tumor promoting role of NF-kappa B in the glioma environment. , 2014, , .		0