

Nic E Savaskan

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

4,892
citations

94381

37
h-index

98753

67
g-index

84
all docs

84
docs citations

84
times ranked

7056
citing authors

#	ARTICLE	IF	CITATIONS
1	Nrf2-Keap1 pathway promotes cell proliferation and diminishes ferroptosis. <i>Oncogenesis</i> , 2017, 6, e371-e371.	2.1	422
2	Green Tea Epigallocatechin-3-Gallate Mediates T Cellular NF- κ B Inhibition and Exerts Neuroprotection in Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2004, 173, 5794-5800.	0.4	314
3	Selenium and brain function: a poorly recognized liaison. <i>Brain Research Reviews</i> , 2004, 45, 164-178.	9.1	281
4	ATF4 promotes angiogenesis and neuronal cell death and confers ferroptosis in a xCT-dependent manner. <i>Oncogene</i> , 2017, 36, 5593-5608.	2.6	275
5	Small interfering RNA-mediated xCT silencing in gliomas inhibits neurodegeneration and alleviates brain edema. <i>Nature Medicine</i> , 2008, 14, 629-632.	15.2	166
6	Comparative Analysis of Selenocysteine Machinery and Selenoproteome Gene Expression in Mouse Brain Identifies Neurons as Key Functional Sites of Selenium in Mammals. <i>Journal of Biological Chemistry</i> , 2008, 283, 2427-2438.	1.6	151
7	Selenium deficiency increases susceptibility to glutamate-induced excitotoxicity. <i>FASEB Journal</i> , 2003, 17, 112-114.	0.2	147
8	Surgical resection of malignant gliomas role in optimizing patient outcome. <i>Nature Reviews Neurology</i> , 2013, 9, 141-151.	4.9	133
9	Synaptic PRG-1 Modulates Excitatory Transmission via Lipid Phosphate-Mediated Signaling. <i>Cell</i> , 2009, 138, 1222-1235.	13.5	124
10	A new phospholipid phosphatase, PRG-1, is involved in axon growth and regenerative sprouting. <i>Nature Neuroscience</i> , 2003, 6, 572-578.	7.1	119
11	Suberoylanilide hydroxamic acid (SAHA) has potent anti-glioma properties in vitro, ex vivo and in vivo. <i>Journal of Neurochemistry</i> , 2005, 93, 992-999.	2.1	111
12	Molecular biology of glutathione peroxidase 4: from genomic structure to developmental expression and neural function. <i>Biological Chemistry</i> , 2007, 388, 1007-1017.	1.2	100
13	Autotaxin (NPP-2) in the brain: cell type-specific expression and regulation during development and after neurotrauma. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 230-243.	2.4	100
14	Improving the Extent of Malignant Glioma Resection by Dual Intraoperative Visualization Approach. <i>PLoS ONE</i> , 2012, 7, e44885.	1.1	97
15	Sulfasalazine impacts on ferroptotic cell death and alleviates the tumor microenvironment and glioma-induced brain edema. <i>Oncotarget</i> , 2016, 7, 36021-36033.	0.8	96
16	Temozolomide toxicity operates in a xCT/SLC7a11 dependent manner and is fostered by ferroptosis. <i>Oncotarget</i> , 2016, 7, 74630-74647.	0.8	95
17	The Neurobiology of Selenium: Lessons from Transgenic Mice. <i>Journal of Nutrition</i> , 2004, 134, 707-710.	1.3	90
18	Role for glutathione peroxidase-4 in brain development and neuronal apoptosis: Specific induction of enzyme expression in reactive astrocytes following brain injury. <i>Free Radical Biology and Medicine</i> , 2007, 43, 191-201.	1.3	84

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19	The Role of Phospholipid Hydroperoxide Glutathione Peroxidase Isoforms in Murine Embryogenesis. <i>Journal of Biological Chemistry</i> , 2006, 281, 19655-19664.	1.6	79
20	Cellular characterization of the peritumoral edema zone in malignant brain tumors. <i>Cancer Science</i> , 2009, 100, 1856-1862.	1.7	79
21	A Role for the Eph Ligand Ephrin-A3 in Entorhino-Hippocampal Axon Targeting. <i>Journal of Neuroscience</i> , 1999, 19, 8885-8893.	1.7	75
22	Neurotractin/kilon promotes neurite outgrowth and is expressed on reactive astrocytes after entorhinal cortex lesion. <i>Molecular and Cellular Neurosciences</i> , 2005, 29, 580-590.	1.0	73
23	Sema3C and Netrin-1 Differentially Affect Axon Growth in the Hippocampal Formation. <i>Molecular and Cellular Neurosciences</i> , 2000, 15, 141-155.	1.0	71
24	Glioblastoma cells induce differential glutamatergic gene expressions in human tumor-associated microglia/macrophages and monocyte-derived macrophages. <i>Cancer Biology and Therapy</i> , 2015, 16, 1205-1213.	1.5	71
25	Molecular analysis of Nogo expression in the hippocampus during development and following lesion and seizure 1. <i>FASEB Journal</i> , 2003, 17, 1153-1155.	0.2	69
26	Supra-complete surgery via dual intraoperative visualization approach (DiVA) prolongs patient survival in glioblastoma. <i>Oncotarget</i> , 2016, 7, 25755-25768.	0.8	69
27	Experimental therapy of malignant gliomas using the inhibitor of histone deacetylase MS-275. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 1248-1255.	1.9	65
28	Molecular cloning and expression regulation of PRG-3, a new member of the plasticity-related gene family. <i>European Journal of Neuroscience</i> , 2004, 19, 212-220.	1.2	59
29	The oxido-metabolic driver ATF4 enhances temozolamide chemo-resistance in human gliomas. <i>Oncotarget</i> , 2017, 8, 51164-51176.	0.8	57
30	Regulation of Expression of the Phospholipid Hydroperoxide/Sperm Nucleus Glutathione Peroxidase Gene. <i>Journal of Biological Chemistry</i> , 2003, 278, 2571-2580.	1.6	52
31	Dexamethasone Alleviates Tumor-Associated Brain Damage and Angiogenesis. <i>PLoS ONE</i> , 2014, 9, e93264.	1.1	51
32	Semaphorin D acts as a repulsive factor for entorhinal and hippocampal neurons. <i>European Journal of Neuroscience</i> , 1999, 11, 729-734.	1.2	50
33	Molecular and functional analysis of hyperpolarization-activated pacemaker channels in the hippocampus after entorhinal cortex lesion. <i>FASEB Journal</i> , 2001, 15, 2689-2701.	0.2	49
34	Plasticity-related Gene 5 (PRG5) Induces Filopodia and Neurite Growth and Impedes Lysophosphatidic Acid and Nogo-mediated Axonal Retraction. <i>Molecular Biology of the Cell</i> , 2010, 21, 521-537.	0.9	42
35	Rac controls PIP5K localisation and PtdIns(4,5)P ₂ synthesis, which modulates vinculin localisation and neurite dynamics. <i>Journal of Cell Science</i> , 2010, 123, 3535-3546.	1.2	41
36	Improved outcome of facial nerve repair in rats is associated with enhanced regenerative response of motoneurons and augmented neocortical plasticity. <i>European Journal of Neuroscience</i> , 2006, 24, 2152-2162.	1.2	40

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37	Dissection of mitogenic and neurodegenerative actions of cystine and glutamate in malignant gliomas. <i>Oncogene</i> , 2011, 30, 43-53.	2.6	39
38	Molecular Actions of Selenium in the Brain: Neuroprotective Mechanisms of an Essential Trace Element. <i>Reviews in the Neurosciences</i> , 2004, 15, 19-32.	1.4	37
39	Molecules Involved in Reactive Sprouting in the Hippocampus. <i>Reviews in the Neurosciences</i> , 2001, 12, 195-215.	1.4	36
40	xCT modulation in gliomas: Relevance to energy metabolism and tumor microenvironment normalization. <i>Annals of Anatomy</i> , 2010, 192, 309-313.	1.0	35
41	Hidden association of Cowden syndrome, PTEN mutation and meningioma frequency. <i>Oncoscience</i> , 2016, 3, 149-155.	0.9	35
42	Identification of neuronal cell death in a model of degeneration in the hippocampus. <i>Brain Research Protocols</i> , 2003, 11, 1-8.	1.7	34
43	Selenium Action in Neuro-Oncology. <i>Biological Trace Element Research</i> , 2014, 161, 246-254.	1.9	34
44	The impact of dietary isoflavonoids on malignant brain tumors. <i>Cancer Medicine</i> , 2014, 3, 865-877.	1.3	32
45	Chemotherapeutic xCT inhibitors sorafenib and erastin unraveled with the synaptic optogenetic function analysis tool. <i>Cell Death Discovery</i> , 2017, 3, 17030.	2.0	30
46	Brain Miffed by Macrophage Migration Inhibitory Factor. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-11.	1.0	29
47	Intraoperative vascular DIVA surgery reveals angiogenic hotspots in tumor zones of malignant gliomas. <i>Scientific Reports</i> , 2015, 5, 7958.	1.6	29
48	Sunitinib impedes brain tumor progression and reduces tumor-induced neurodegeneration in the microenvironment. <i>Cancer Science</i> , 2015, 106, 160-170.	1.7	28
49	Neurodegeneration in the Brain Tumor Microenvironment: Glutamate in the Limelight. <i>Current Neuropharmacology</i> , 2015, 13, 258-265.	1.4	27
50	Entorhinal cortex lesion studied with the novel dye Fluoro-Jade. <i>Brain Research</i> , 2000, 864, 44-51.	1.1	25
51	The Acidic Brain Glycolytic Switch in the Microenvironment of Malignant Glioma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5518.	1.8	24
52	Cytotoxic profiling of artesunic and betulinic acids and their synthetic hybrid compound on neurons and gliomas. <i>Oncotarget</i> , 2017, 8, 61457-61474.	0.8	24
53	A versatile <i>ex vivo</i> technique for assaying tumor angiogenesis and microglia in the brain. <i>Oncotarget</i> , 2016, 7, 1838-1853.	0.8	24
54	Identification of two novel Chlorotoxin derivatives CA4 and CTX-23 with chemotherapeutic and anti-angiogenic potential. <i>Scientific Reports</i> , 2016, 6, 19799.	1.6	22

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55	Epigenetics in Brain Tumors: HDACs Take Center Stage. <i>Current Neuropharmacology</i> , 2016, 14, 48-54.	1.4	21
56	The Role of Selenite on Microglial Migration. <i>Annals of the New York Academy of Sciences</i> , 2007, 1096, 179-183.	1.8	20
57	Histone deacetylases inhibition by SAHA/Vorinostat normalizes the glioma microenvironment via xCT equilibration. <i>Scientific Reports</i> , 2014, 4, 6226.	1.6	20
58	Ferroptosis and Cell Death Analysis by Flow Cytometry. <i>Methods in Molecular Biology</i> , 2017, 1601, 71-77.	0.4	20
59	Cabazitaxel operates anti-metastatic and cytotoxic via apoptosis induction and stalls brain tumor angiogenesis. <i>Oncotarget</i> , 2016, 7, 38306-38318.	0.8	20
60	High resolution neurochemical gold staining method for myelin in peripheral and central nervous system at the light- and electron-microscopic level. <i>Cell and Tissue Research</i> , 2009, 337, 213-221.	1.5	19
61	Homeostatic regulation of NCAM polysialylation is critical for correct synaptic targeting. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 1179-1191.	2.4	19
62	Plasticity Related Gene 3 (PRG3) overcomes myelin-associated growth inhibition and promotes functional recovery after spinal cord injury. <i>Aging</i> , 2016, 8, 2463-2487.	1.4	18
63	Myelin does not influence the choice behaviour of entorhinal axons but strongly inhibits their outgrowth lengthinâ€œvitro. <i>European Journal of Neuroscience</i> , 1999, 11, 316-326.	1.2	17
64	Biochemical analysis of selenoprotein expression in brain cell lines and in distinct brain regions. <i>Cell and Tissue Research</i> , 2008, 332, 403-414.	1.5	16
65	Perforant path lesion induces up-regulation of stathmin messenger RNA, but not SCG10 messenger RNA, in the adult rat hippocampus. <i>Neuroscience</i> , 2001, 102, 515-526.	1.1	15
66	Adaptive Immune Response to and Survival Effect of Temozolomide- and Valproic Acid-induced Autophagy in Glioblastoma. <i>Anticancer Research</i> , 2016, 36, 899-905.	0.5	15
67	IG-molecule Kilon shows differential expression pattern from LAMP in the developing and adult rat hippocampus. <i>Hippocampus</i> , 2000, 10, 632-644.	0.9	13
68	Identification of macrophage/microglia activation factor (MAF) associated with late endosomes/lysosomes in microglial cells. <i>FEBS Letters</i> , 2004, 563, 41-48.	1.3	13
69	Target- and Maturation-Specific Membrane-Associated Molecules Determine the Ingrowth of Entorhinal Fibers into the Hippocampus. <i>Developmental Biology</i> , 1999, 211, 277-292.	0.9	11
70	Therapeutic Potential of Selenium in Glioblastoma. <i>Frontiers in Neuroscience</i> , 2021, 15, 666679.	1.4	11
71	Cholecystokinin expression after hippocampal deafferentiation: molecular evidence revealed by differential display-reverse transcriptionâ€œpolymerase chain reaction. <i>Neuroscience</i> , 2003, 121, 111-121.	1.1	10
72	The x cystine/glutamate antiporter (xCT) as a potential target for therapy of cancer: Yet another cytotoxic anticancer approach?. <i>Journal of Cellular Physiology</i> , 2009, 220, 531-532.	2.0	10

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73	Outgrowth-promoting molecules in the adult hippocampus after perforant path lesion. <i>European Journal of Neuroscience</i> , 2000, 12, 1024-1032.	1.2	9
74	Impaired postnatal development of hippocampal neurons and axon projections in the <i>Emx2</i> ^{-/-} mutants. <i>Journal of Neurochemistry</i> , 2002, 83, 1196-1207.	2.1	9
75	PRG3 induces Ras-dependent oncogenic cooperation in gliomas. <i>Oncotarget</i> , 2016, 7, 26692-26708.	0.8	9
76	Reply to 'Is PRG-1 a new lipid phosphatase?'. <i>Nature Neuroscience</i> , 2004, 7, 789-790.	7.1	8
77	Chemical hybridization of sulfasalazine and dihydroartemisinin promotes brain tumor cell death. <i>Scientific Reports</i> , 2021, 11, 20766.	1.6	8
78	A new functional classification system (FGA/B) with prognostic value for glioma patients. <i>Scientific Reports</i> , 2015, 5, 12373.	1.6	7
79	MCT4 Promotes Tumor Malignancy in F98 Glioma Cells. <i>Journal of Oncology</i> , 2021, 2021, 1-20.	0.6	7
80	Selenium and Selenoproteins in Neuroprotection and Neuronal Cell Death. , 2012, , 525-536.		5
81	Synaptic PRG-1 Modulates Excitatory Transmission via Lipid Phosphate-Mediated Signaling. <i>Cell</i> , 2011, 146, 1043.	13.5	0