Susan O Meakin

List of Publications by Year
in descending order

58 papers	3,089 citations	185998 28 h-index	155451 55 g-index
58 all docs	58 docs citations	58 times ranked	2844 citing authors

#	Article	IF	Citations
1	The nerve growth factor family of receptors. Trends in Neurosciences, 1992, 15, 323-331.	4.2	621
2	The Signaling Adapter FRS-2 Competes with Shc for Binding to the Nerve Growth Factor Receptor TrkA. Journal of Biological Chemistry, 1999, 274, 9861-9870.	1.6	206
3	Neutralizing Intraspinal Nerve Growth Factor Blocks Autonomic Dysreflexia Caused By Spinal Cord Injury. Journal of Neuroscience, 1999, 19, 7405-7414.	1.7	204
4	Distinct human NUMB isoforms regulate differentiation vs. proliferation in the neuronal lineage. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10472-10476.	3.3	186
5	The rat trk protooncogene product exhibits properties characteristic of the slow nerve growth factor receptor.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 2374-2378.	3.3	185
6	Molecular investigations on the high-affinity nerve growth factor receptor. Neuron, 1991, 6, 153-163.	3.8	163
7	Quantitative Tissue Ph Measurement during Cerebral Ischemia Using Amine and Amide Concentration-Independent Detection (AACID) with MRI. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 690-698.	2.4	137
8	p75 Co-receptors Regulate Ligand-dependent and Ligand-independent Trk Receptor Activation, in Part by Altering Trk Docking Subdomains. Journal of Biological Chemistry, 2001, 276, 31023-31029.	1.6	80
9	Nerve growth factor activation of the TrkA receptor induces cell death, by macropinocytosis, in medulloblastoma Daoy cells. Journal of Neurochemistry, 2010, 112, 882-899.	2.1	62
10	Neutralizing Intraspinal Nerve Growth Factor with a trkA-IgG Fusion Protein Blocks the Development of Autonomic Dysreflexia in a Clip-Compression Model of Spinal Cord Injury. Journal of Neurotrauma, 2002, 19, 1531-1541.	1.7	60
11	Cyclic phosphatidic acid elicits neurotrophin-like actions in embryonic hippocampal neurons. Journal of Neurochemistry, 2003, 87, 1272-1283.	2.1	53
12	ShcB and ShcC Activation by the Trk Family of Receptor Tyrosine Kinases. Journal of Biological Chemistry, 2002, 277, 26046-26056.	1.6	51
13	Direct Binding of the Signaling Adapter Protein Grb2 to the Activation Loop Tyrosines on the Nerve Growth Factor Receptor Tyrosine Kinase, TrkA. Journal of Biological Chemistry, 2000, 275, 18225-18233.	1.6	47
14	Assignment of human gamma crystallin multigene family to chromosome 2. Somatic Cell and Molecular Genetics, 1985, 11, 511-516.	0.7	45
15	Neurotrophin-dependent Tyrosine Phosphorylation of Ras Guanine-releasing Factor 1 and Associated Neurite Outgrowth Is Dependent on the HIKE Domain of TrkA. Journal of Biological Chemistry, 2005, 280, 225-235.	1.6	43
16	Tyrosine kinase activity coupled to the high-affinity nerve growth factor-receptor complex.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 5862-5866.	3.3	42
17	Activity-Dependent Interaction of the Intracellular Domain of Rat TrkA with Intermediate Filament Proteins, the Î²-6 Proteasomal Subunit, Ras-GRF1, and the p162 Subunit of eIF3. Journal of Molecular Neuroscience, 1999, 13, 141-158.	1.1	40
18	Deletions in the Extracellular Domain of Rat TrkA Lead to an Altered Differentiative Phenotype in Neurotrophin Responsive Cells. Molecular and Cellular Neurosciences, 1996, 7, 371-390.	1.0	39

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19	Developmental expression patterns of the signaling adapters FRS-2 and FRS-3 during early embryogenesis. Mechanisms of Development, 2001, 103, 145-148.	1.7	39
20	Topiramate induces acute intracellular acidification in glioblastoma. Journal of Neuro-Oncology, 2016, 130, 465-472.	1.4	39
21	A Novel Juxtamembrane Deletion in Rat TrkA Blocks Differentiative but Not Mitogenic Cell Signaling in Response to Nerve Growth Factor. Journal of Neurochemistry, 1998, 71, 1875-1888.	2.1	35
22	Imaging chemical exchange saturation transfer (CEST) effects following tumorâ€selective acidification using lonidamine. NMR in Biomedicine, 2015, 28, 566-575.	1.6	32
23	Chapter 7 Central mechanisms for autonomic dysreflexia after spinal cord injury. Progress in Brain Research, 2002, 137, 83-95.	0.9	31
24	The Signaling Adapters Fibroblast Growth Factor Receptor Substrate 2 and 3 Are Activated by the Thyroid TRK Oncoproteins. Endocrinology, 2003, 144, 922-928.	1.4	31
25	Aging effects of vitamin C on a human lens protein produced in vitro. FASEB Journal, 1987, 1, 32-35.	0.2	30
26	In vivo detection of MRIâ€PARACEST agents in mouse brain tumors at 9.4 T. Magnetic Resonance in Medicine, 2011, 66, 67-72.	1.9	30
27	Dichloroacetate induced intracellular acidification in glioblastoma: in vivo detection using AACID-CEST MRI at 9.4ÂTesla. Journal of Neuro-Oncology, 2018, 136, 255-262.	1.4	30
28	A Differential Role of Extracellular Signal-Regulated Kinase in Stimulated PC12 Pheochromocytoma Cell Movement. Experimental Cell Research, 2001, 263, 254-264.	1.2	29
29	Trypanosome trans-sialidase targets TrkA tyrosine kinase receptor and induces receptor internalization and activation. Glycobiology, 2004, 14, 987-998.	1.3	29
30	Arf6 controls beta-amyloid production by regulating macropinocytosis of the Amyloid Precursor Protein to lysosomes. Molecular Brain, 2015, 8, 41.	1.3	29
31	Human Tumorous Imaginal Disc 1 (TID1) Associates with Trk Receptor Tyrosine Kinases and Regulates Neurite Outgrowth in nnr5-TrkA Cells. Journal of Biological Chemistry, 2005, 280, 19461-19471.	1.6	28
32	Trypanosome trans-sialidase mediates neuroprotection against oxidative stress, serum/glucose deprivation, and hypoxia-induced neurite retraction in Trk-expressing PC12 cells. Glycobiology, 2007, 17, 725-734.	1.3	28
33	Trk receptor binding and neurotrophin/fibroblast growth factor (FGF)-dependent activation of the FGF receptor substrate (FRS)-3. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 366-380.	1.9	27
34	ShcA regulates neurite outgrowth stimulated by neural cell adhesion molecule but not by fibroblast growth factor 2: evidence for a distinct fibroblast growth factor receptor response to neural cell adhesion molecule activation. Journal of Neurochemistry, 2004, 91, 694-703.	2.1	26
35	A Kinase Insert Isoform of Rat TrkA Supports Nerve Growth Factorâ€Dependent Cell Survival but Not Neurite Outgrowth. Journal of Neurochemistry, 1997, 69, 954-967.	2.1	25
36	Nerve growth factor increases connexin43 phosphorylation and gap junctional intercellular communication. Journal of Neuroscience Research, 2005, 82, 788-801.	1.3	23

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37	Nerve Growth Factor Receptor TrkA, a New Receptor in Insulin Signaling Pathway in PC12 Cells. Journal of Biological Chemistry, 2013, 288, 23807-23813.	1.6	23
38	Nesca, a novel adapter, translocates to the nuclear envelope and regulates neurotrophin-induced neurite outgrowth. Journal of Cell Biology, 2004, 164, 851-862.	2.3	21
39	The Monocarboxylate transporter inhibitor Quercetin induces intracellular acidification in a mouse model of Glioblastoma Multiforme: in-vivo detection using magnetic resonance imaging. Investigational New Drugs, 2019, 37, 595-601.	1.2	20
40	PC12nnr5 cells expressing TrkA receptors undergo morphological but not cholinergic phenotypic differentiation in response to nerve growth factor. Journal of Neurochemistry, 2002, 80, 501-511.	2.1	19
41	Role and expression of FRS2 and FRS3 in prostate cancer. BMC Cancer, 2011, 11, 484.	1.1	17
42	Brain tumor acidification using drugs simultaneously targeting multiple pH regulatory mechanisms. Journal of Neuro-Oncology, 2019, 144, 453-462.	1.4	17
43	A rabbit lens epithelial cell line supports expression of an exogenous crystallin gene characteristic of lens fiber cell differentiation. Experimental Eye Research, 1989, 48, 131-137.	1.2	16
44	Ras Guanine Nucleotide Releasing Factor 1 (RasGrf1) Enhancement of Trk Receptor-Mediated Neurite Outgrowth Requires Activation of Both H-Ras and Rac. Journal of Molecular Neuroscience, 2013, 49, 38-51.	1.1	15
45	In vivo detection of acute intracellular acidification in glioblastoma multiforme following a single dose of cariporide. International Journal of Clinical Oncology, 2018, 23, 812-819.	1.0	15
46	Acidic substitution of the activation loop tyrosines in TrkA supports nerve growth factor-independent cell survival and neuronal differentiation. Oncogene, 2000, 19, 417-430.	2.6	13
47	Unravelling the Mechanism of TrkA-Induced Cell Death by Macropinocytosis in Medulloblastoma Daoy Cells. Molecular and Cellular Biology, 2016, 36, 2596-2611.	1.1	13
48	Acidic substitution of the activation loop tyrosines in TrkA supports nerve growth factor-dependent, but not nerve growth factor-independent, differentiation and cell cycle arrest in the human neuroblastoma cell line, SY5Y. Oncogene, 2003, 22, 8774-8785.	2.6	12
49	The Signaling Adapter, FRS2, Facilitates Neuronal Branching in Primary Cortical Neurons via Both Grb2- and Shp2-Dependent Mechanisms. Journal of Molecular Neuroscience, 2015, 55, 663-677.	1.1	12
50	Ectopic expression of the TrkA receptor in adult dopaminergic mesencephalic neurons promotes retrograde axonal NGF transport and NGF-dependent neuroprotection. Experimental Neurology, 2003, 183, 367-378.	2.0	11
51	The fibroblast growth factor receptor substrate 3 adapter is a developmentally regulated microtubuleâ€associated protein expressed in migrating and differentiated neurons. Journal of Neurochemistry, 2010, 112, 924-939.	2.1	11
52	Nesca, a novel neuronal adapter protein, links the molecular motor kinesin with the preâ€synaptic membrane protein, syntaxinâ€1, in hippocampal neurons. Journal of Neurochemistry, 2012, 121, 861-880.	2.1	11
53	Genomic organization and comparative sequence analysis of the mouse and human FRS2, FRS3 genes. Molecular Biology Reports, 2003, 30, 15-25.	1.0	9
54	Subpopulations of Rat B2+ Neuroblasts Exhibit Differential Neurotrophin Responsiveness during Sympathetic Development. Developmental Biology, 2000, 218, 367-377.	0.9	8

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55	Overexpression of the signaling adapter FRS2 reconstitutes the cell cycle deficit of a nerve growth factor non-responsive TrkA receptor mutant. Journal of Neurochemistry, 2002, 81, 820-831.	2.1	8
56	Signaling adaptor ShcD suppresses extracellular signal-regulated kinase (Erk) phosphorylation distal to the Ret and Trk neurotrophic receptors. Journal of Biological Chemistry, 2017, 292, 5748-5759.	1.6	8
57	TrkB Regulates N-Methyl-D-Aspartate Receptor Signaling by Uncoupling and Recruiting the Brain-Specific Guanine Nucleotide Exchange Factor, RasGrf1. Journal of Molecular Neuroscience, 2019, 67, 97-110.	1.1	5
58	Brain pH Measurement Using AACID CEST MRI Incorporating the 2 ppm Amine Resonance. Tomography, 2022, 8, 730-739.	0.8	0