

Steven L Carroll

List of Publications by Year in descending order

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83
papers

6,573
citations

109264

35
h-index

74108

75
g-index

85
all docs

85
docs citations

85
times ranked

10371
citing authors

#	ARTICLE	IF	CITATIONS
1	Common variants at MS4A4/MS4A6E, CD2AP, CD33 and EPHA1 are associated with late-onset Alzheimer's disease. <i>Nature Genetics</i> , 2011, 43, 436-441.	9.4	1,676
2	Rare coding variants in PLCG2, ABI3, and TREM2 implicate microglial-mediated innate immunity in Alzheimer's disease. <i>Nature Genetics</i> , 2017, 49, 1373-1384.	9.4	783
3	Common variants at 7p21 are associated with frontotemporal lobar degeneration with TDP-43 inclusions. <i>Nature Genetics</i> , 2010, 42, 234-239.	9.4	479
4	Expression of Neuregulins and their Putative Receptors, ErbB2 and ErbB3, Is Induced during Wallerian Degeneration. <i>Journal of Neuroscience</i> , 1997, 17, 1642-1659.	1.7	308
5	A novel Alzheimer disease locus located near the gene encoding tau protein. <i>Molecular Psychiatry</i> , 2016, 21, 108-117.	4.1	260
6	Assessment of the genetic variance of late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , 2016, 41, 200.e13-200.e20.	1.5	174
7	Effects of Multiple Genetic Loci on Age at Onset in Late-Onset Alzheimer Disease. <i>JAMA Neurology</i> , 2014, 71, 1394.	4.5	166
8	Transethnic genome-wide scan identifies novel Alzheimer's disease loci. <i>Alzheimer's and Dementia</i> , 2017, 13, 727-738.	0.4	166
9	Novel late-onset Alzheimer disease loci variants associate with brain gene expression. <i>Neurology</i> , 2012, 79, 221-228.	1.5	144
10	ErbB transmembrane tyrosine kinase receptors are differentially expressed throughout the adult rat central nervous system. <i>Journal of Comparative Neurology</i> , 2001, 433, 86-100.	0.9	125
11	Dorsal root ganglion neurons expressing trk are selectively sensitive to NGF deprivation in utero. <i>Neuron</i> , 1992, 9, 779-788.	3.8	122
12	How does the Schwann cell lineage form tumors in NF1?. <i>Glia</i> , 2008, 56, 1590-1605.	2.5	112
13	Neuregulin-1 and ErbB4 Immunoreactivity Is Associated with Neuritic Plaques in Alzheimer Disease Brain and in a Transgenic Model of Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003, 62, 42-54.	0.9	109
14	Neuregulin-1 β induces neurite extension and arborization in cultured hippocampal neurons. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 379-393.	1.0	109
15	Molecular mechanisms promoting the pathogenesis of Schwann cell neoplasms. <i>Acta Neuropathologica</i> , 2012, 123, 321-348.	3.9	96
16	Neuronal exosomes reveal Alzheimer's disease biomarkers in Down syndrome. <i>Alzheimer's and Dementia</i> , 2017, 13, 541-549.	0.4	94
17	Cutaneous neurofibromas. <i>Neurology</i> , 2018, 91, S5-S13.	1.5	79
18	Developmentally regulated expression of pleiotrophin, a novel heparin binding growth factor, in the nervous system of the rat. <i>Developmental Brain Research</i> , 1993, 72, 133-144.	2.1	72

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19	Activation of the neuregulin-1/ErbB signaling pathway promotes the proliferation of neoplastic Schwann cells in human malignant peripheral nerve sheath tumors. <i>Oncogene</i> , 2005, 24, 5589-5605.	2.6	69
20	Hypertrophic Neuropathies and Malignant Peripheral Nerve Sheath Tumors in Transgenic Mice Overexpressing Glial Growth Factor β 3 in Myelinating Schwann Cells. <i>Journal of Neuroscience</i> , 2003, 23, 7269-7280.	1.7	66
21	BH3-Only Proapoptotic Bcl-2 Family Members Noxa and Puma Mediate Neural Precursor Cell Death. <i>Journal of Neuroscience</i> , 2006, 26, 7257-7264.	1.7	61
22	4-Hydroxytamoxifen Induces Autophagic Death through K-Ras Degradation. <i>Cancer Research</i> , 2013, 73, 4395-4405.	0.4	60
23	Tumor Suppressor Mutations and Growth Factor Signaling in the Pathogenesis of NF1-Associated Peripheral Nerve Sheath Tumors. <i>Journal of Neuropathology and Experimental Neurology</i> , 2005, 64, 1-9.	0.9	55
24	Expression of JE (Monocyte Chemoattractant Protein-1) Is Induced by Sciatic Axotomy in Wild Type Rodents but Not in C57BL/Wld S Mice. <i>Journal of Neuropathology and Experimental Neurology</i> , 1998, 57, 915-930.	0.9	52
25	Neuregulin Growth Factors and Their ErbB Receptors Form a Potential Signaling Network for Schwannoma Tumorigenesis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006, 65, 162-175.	0.9	49
26	Neuregulin β 1 β 2 and neuregulin β 1 β 3 differentially affect the migration and invasion of malignant peripheral nerve sheath tumor cells. <i>Glia</i> , 2009, 57, 1501-1520.	2.5	48
27	Neuregulin-1 Enhances Motility and Migration of Human Astrocytic Glioma Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 20971-20978.	1.6	47
28	Neuregulin-1 enhances survival of human astrocytic glioma cells. <i>Glia</i> , 2005, 51, 217-228.	2.5	45
29	The Challenge of Cancer Genomics in Rare Nervous System Neoplasms. <i>American Journal of Pathology</i> , 2016, 186, 464-477.	1.9	42
30	Mechanisms of Receptor Tyrosine-Protein Kinase ErbB-3 (ERBB3) Action in Human Neoplasia. <i>American Journal of Pathology</i> , 2019, 189, 1898-1912.	1.9	42
31	Serum pro-BDNF levels correlate with phospho-tau staining in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2020, 87, 49-59.	1.5	42
32	Rarity of the Alzheimer Disease "Protective" APP A673T Variant in the United States. <i>JAMA Neurology</i> , 2015, 72, 209.	4.5	41
33	Receptors for pro-resolving mediators are increased in Alzheimer's disease brain. <i>Brain Pathology</i> , 2020, 30, 614-640.	2.1	41
34	ErbB Transmembrane Tyrosine Kinase Receptors Are Expressed by Sensory and Motor Neurons Projecting into Sciatic Nerve. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 1299-1311.	1.3	39
35	Tamoxifen inhibits malignant peripheral nerve sheath tumor growth in an estrogen receptor-independent manner. <i>Neuro-Oncology</i> , 2011, 13, 28-41.	0.6	39
36	Genetically engineered mouse models shed new light on the pathogenesis of neurofibromatosis type I-related neoplasms of the peripheral nervous system. <i>Brain Research Bulletin</i> , 2012, 88, 58-71.	1.4	38

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37	Constitutive activation of the neuregulin-1/ErbB receptor signaling pathway is essential for the proliferation of a neoplastic Schwann cell line. <i>Glia</i> , 2003, 43, 104-118.	2.5	34
38	Interactions between beta-neuregulin and neurotrophins in motor neuron apoptosis. <i>Journal of Neurochemistry</i> , 2006, 97, 222-233.	2.1	34
39	STAT1 and NF- κ B Inhibitors Diminish Basal Interferon-Stimulated Gene Expression and Improve the Productive Infection of Oncolytic HSV in MPNST Cells. <i>Molecular Cancer Research</i> , 2016, 14, 482-492.	1.5	34
40	Recent Advances in the Diagnosis and Pathogenesis of Neurofibromatosis Type 1 (NF1)-associated Peripheral Nervous System Neoplasms. <i>Advances in Anatomic Pathology</i> , 2018, 25, 353-368.	2.4	34
41	Tamoxifen Induces Cytotoxic Autophagy in Glioblastoma. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016, 75, 946-954.	0.9	31
42	Transgenic Mice Overexpressing Neuregulin-1 Model Neurofibroma-Malignant Peripheral Nerve Sheath Tumor Progression and Implicate Specific Chromosomal Copy Number Variations in Tumorigenesis. <i>American Journal of Pathology</i> , 2013, 182, 646-667.	1.9	26
43	Lysophosphatidic Acid Promotes the Proliferation of Adult Schwann Cells Isolated from Axotomized Sciatic Nerve. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003, 62, 520-529.	0.9	24
44	Tumor Suppressor Mutations and Growth Factor Signaling in the Pathogenesis of NF1-Associated Peripheral Nerve Sheath Tumors. I. The Role of Tumor Suppressor Mutations. <i>Journal of Neuropathology and Experimental Neurology</i> , 2004, 63, 1115-1123.	0.9	24
45	Differential activation of c-fos and caspase-3 in hippocampal neuron subpopulations following neonatal hypoxia-ischemia. <i>Journal of Neuroscience Research</i> , 2008, 86, 1115-1124.	1.3	24
46	Combinatorial Therapy With Tamoxifen and Trifluoperazine Effectively Inhibits Malignant Peripheral Nerve Sheath Tumor Growth by Targeting Complementary Signaling Cascades. <i>Journal of Neuropathology and Experimental Neurology</i> , 2014, 73, 1078-1090.	0.9	24
47	Current status and recommendations for biomarkers and biobanking in neurofibromatosis. <i>Neurology</i> , 2016, 87, S40-8.	1.5	23
48	The Proteome of the Dentate Terminal Zone of the Perforant Path Indicates Presynaptic Impairment in Alzheimer Disease. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 128-141.	2.5	22
49	Improved gene delivery into neuroglial cells using a fiber-modified adenovirus vector. <i>Biochemical and Biophysical Research Communications</i> , 2005, 328, 1182-1187.	1.0	21
50	Pathology of nNOS-Expressing GABAergic Neurons in Mouse Model of Alzheimer's Disease. <i>Neuroscience</i> , 2018, 384, 41-53.	1.1	21
51	Neuropathy of metachromatic leukodystrophy: Improvement with immunomodulation. <i>Pediatric Neurology</i> , 1996, 15, 237-239.	1.0	20
52	Constitutive Activation of the Neuregulin-1/erbB Signaling Pathway Promotes the Proliferation of a Human Peripheral Neuroepithelioma Cell Line. <i>Journal of Neuro-Oncology</i> , 2004, 66, 273-284.	1.4	19
53	Neuregulin-1 overexpression and Trp53 haploinsufficiency cooperatively promote de novo malignant peripheral nerve sheath tumor pathogenesis. <i>Acta Neuropathologica</i> , 2014, 127, 573-591.	3.9	19
54	ErbB4 promotes malignant peripheral nerve sheath tumor pathogenesis via Ras-independent mechanisms. <i>Cell Communication and Signaling</i> , 2019, 17, 74.	2.7	16

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55	The Role of R-Ras Proteins in Normal and Pathologic Migration and Morphologic Change. <i>American Journal of Pathology</i> , 2021, 191, 1499-1510.	1.9	16
56	The evolution and multi-molecular properties of NF1 cutaneous neurofibromas originating from C-fiber sensory endings and terminal Schwann cells at normal sites of sensory terminations in the skin. <i>PLoS ONE</i> , 2019, 14, e0216527.	1.1	15
57	Classic Ras Proteins Promote Proliferation and Survival via Distinct Phosphoproteome Alterations in Neurofibromin-Null Malignant Peripheral Nerve Sheath Tumor Cells. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015, 74, 568-586.	0.9	14
58	Suppression of Fli-1 protects against pericyte loss and cognitive deficits in Alzheimer's disease. <i>Molecular Therapy</i> , 2022, 30, 1451-1464.	3.7	14
59	Malignant Peripheral Nerve Sheath Tumor Invasion Requires Aberrantly Expressed EGF Receptors and Is Variably Enhanced by Multiple EGF Family Ligands. <i>Journal of Neuropathology and Experimental Neurology</i> , 2013, 72, 219-233.	0.9	12
60	Orthotopic Xenografting of Human Luciferase-Tagged Malignant Peripheral Nerve Sheath Tumor Cells for <i>in vivo</i> Testing of Candidate Therapeutic Agents. <i>Journal of Visualized Experiments</i> , 2011, . .	0.2	11
61	Oridonin inhibits aberrant AKT activation in breast cancer. <i>Oncotarget</i> , 2018, 9, 23878-23889.	0.8	11
62	BNIP3 Regulates AT101 [(-)-Gossypol] Induced Death in Malignant Peripheral Nerve Sheath Tumor Cells. <i>PLoS ONE</i> , 2014, 9, e96733.	1.1	11
63	Chemoembolizing hepatocellular carcinoma with microsphere cored with arsenic trioxide microcrystal. <i>Drug Delivery</i> , 2020, 27, 1729-1740.	2.5	10
64	Establishment and genomic characterization of a sporadic malignant peripheral nerve sheath tumor cell line. <i>Scientific Reports</i> , 2021, 11, 5690.	1.6	9
65	The pan erbB inhibitor PD168393 enhances lysosomal dysfunction-induced apoptotic death in malignant peripheral nerve sheath tumor cells. <i>Neuro-Oncology</i> , 2012, 14, 266-277.	0.6	8
66	The Molecular and Morphologic Structures That Make Saltatory Conduction Possible in Peripheral Nerve. <i>Journal of Neuropathology and Experimental Neurology</i> , 2017, 76, 255-257.	0.9	7
67	The Potential Role of Small-Molecule PERK Inhibitor LDN-0060609 in Primary Open-Angle Glaucoma Treatment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4494.	1.8	7
68	R-Ras subfamily proteins elicit distinct physiologic effects and phosphoproteome alterations in neurofibromin-null MPNST cells. <i>Cell Communication and Signaling</i> , 2021, 19, 95.	2.7	6
69	Each patient is a research biorepository: informatics-enabled research on surplus clinical specimens via the living BioBank. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 138-143.	2.2	4
70	BH3 mimetics suppress CXCL12 expression in human malignant peripheral nerve sheath tumor cells. <i>Oncotarget</i> , 2017, 8, 8670-8678.	0.8	4
71	The RASopathies: Biology, genetics and therapeutic options. <i>Advances in Cancer Research</i> , 2022, 153, 305-341.	1.9	4
72	Assessing interobserver variability and accuracy in the histological diagnosis and classification of cutaneous neurofibromas. <i>Neuro-Oncology Advances</i> , 2020, 2, i117-i123.	0.4	3

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73	Developmental, neurochemical, and behavioral analyses of ErbB4 Cytâ€1 knockout mice. Journal of Neurochemistry, 2022, , .	2.1	3
74	A liquid chromatography mass spectrometry assay for determination of PD168393, a specific and irreversible inhibitor of erbB membrane tyrosine kinases, in rat serum. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 876, 219-224.	1.2	2
75	Salinomycin targets the genome of radioresistant cells in glioblastomas. Neuro-Oncology, 2020, 22, 167-168.	0.6	2
76	Parsing out reality from genetically engineered mouse models of neurologic diseases. Brain Research Bulletin, 2012, 88, 1-2.	1.4	0
77	The role of calbindinâ€D28k in a mouse model of Down syndromeâ€related Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e042295.	0.4	0
78	Defining Gene Functions in Tumorigenesis by Ex vivo Ablation of Floxed Alleles in Malignant Peripheral Nerve Sheath Tumor Cells. Journal of Visualized Experiments, 2021, , .	0.2	0
79	Mutations of the p53 tumor suppressor gene contribute to malignant peripheral nerve sheath tumor formation in neuregulinâ€1 overexpressing transgenic mice. FASEB Journal, 2007, 21, A27.	0.2	0
80	ErbB Membrane Tyrosine Kinase Receptors: Analyzing Migration in a Highly Complex Signaling System. Neuromethods, 2012, , 105-131.	0.2	0
81	BNIP3 regulates AT101 induced cytotoxicity in MPNST cells. FASEB Journal, 2013, 27, 380.3.	0.2	0
82	CSIG-02. R-RAS SUBFAMILY PROTEINS ELICIT DISTINCT PHYSIOLOGIC EFFECTS AND PHOSPHOPROTEOME ALTERATIONS IN NEUROFIBROMIN-NULL MPNST CELLS. Neuro-Oncology, 2020, 22, ii27-ii28.	0.6	0
83	Priorities in Biobanking Research: A Report on the 2021 ISBER Round Table. Biopreservation and Biobanking, 2022, , .	0.5	0