

# Neil R Smalheiser

## List of Publications by Year in descending order

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Version: 2024-02-01

119  
papers

6,361  
citations

76196

40  
h-index

69108

77  
g-index

127  
all docs

127  
docs citations

127  
times ranked

6510  
citing authors

#	ARTICLE	IF	CITATIONS
1	An interactive system for finding complementary literatures: a stimulus to scientific discovery. <i>Artificial Intelligence</i> , 1997, 91, 183-203.	3.9	370
2	Plasma Exosomal miRNAs in Persons with and without Alzheimer Disease: Altered Expression and Prospects for Biomarkers. <i>PLoS ONE</i> , 2015, 10, e0139233.	1.1	321
3	MicroRNA Expression Is Down-Regulated and Reorganized in Prefrontal Cortex of Depressed Suicide Subjects. <i>PLoS ONE</i> , 2012, 7, e33201.	1.1	278
4	Mammalian microRNAs derived from genomic repeats. <i>Trends in Genetics</i> , 2005, 21, 322-326.	2.9	269
5	Dicer and eIF2c are enriched at postsynaptic densities in adult mouse brain and are modified by neuronal activity in a calpain-dependent manner. <i>Journal of Neurochemistry</i> , 2005, 94, 896-905.	2.1	250
6	Expression of microRNAs and their precursors in synaptic fractions of adult mouse forebrain. <i>Journal of Neurochemistry</i> , 2008, 106, 650-661.	2.1	241
7	Exosomal transfer of proteins and RNAs at synapses in the nervous system. <i>Biology Direct</i> , 2007, 2, 35.	1.9	217
8	Author name disambiguation in MEDLINE. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2009, 3, 1-29.	2.5	207
9	Antidepressants alter cell proliferation in the adult brain in vivo and in neural cultures in vitro. <i>European Journal of Pharmacology</i> , 2001, 411, 67-70.	1.7	199
10	Using ARROWSMITH: a computer-assisted approach to formulating and assessing scientific hypotheses. <i>Computer Methods and Programs in Biomedicine</i> , 1998, 57, 149-153.	2.6	193
11	Expression of microRNAs and Other Small RNAs in Prefrontal Cortex in Schizophrenia, Bipolar Disorder and Depressed Subjects. <i>PLoS ONE</i> , 2014, 9, e86469.	1.1	166
12	Author name disambiguation. <i>Annual Review of Information Science &amp; Technology</i> , 2009, 43, 1-43.	2.6	161
13	The Relationship between Perlecan and Dystroglycan and its Implication in the Formation of the Neuromuscular Junction. <i>Cell Adhesion and Communication</i> , 1998, 5, 475-489.	1.7	152
14	Laminin as a substrate for retinal axons in vitro. <i>Developmental Brain Research</i> , 1984, 12, 136-140.	2.1	151
15	Alu elements within human mRNAs are probable microRNA targets. <i>Trends in Genetics</i> , 2006, 22, 532-536.	2.9	148
16	A probabilistic similarity metric for Medline records: A model for author name disambiguation. <i>Journal of the Association for Information Science and Technology</i> , 2005, 56, 140-158.	2.6	134
17	Purification of Cranin, a Laminin Binding Membrane Protein. <i>Journal of Biological Chemistry</i> , 1995, 270, 15425-15433.	1.6	132
18	Structural Analysis of Sequences O-Linked to Mannose Reveals a Novel Lewis X Structure in Cranin (Dystroglycan) Purified from Sheep Brain. <i>Journal of Biological Chemistry</i> , 1998, 273, 23698-23703.	1.6	121

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19	Identifying reports of randomized controlled trials (RCTs) via a hybrid machine learning and crowdsourcing approach. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017, 24, 1165-1168.	2.2	117
20	Design and implementation of Metta, a metasearch engine for biomedical literature retrieval intended for systematic reviewers. <i>Health Information Science and Systems</i> , 2014, 2, 1.	3.4	109
21	microRNA Regulation of Synaptic Plasticity. <i>NeuroMolecular Medicine</i> , 2009, 11, 133-140.	1.8	108
22	MicroRNA expression in rat brain exposed to repeated inescapable shock: differential alterations in learned helplessness vs. non-learned helplessness. <i>International Journal of Neuropsychopharmacology</i> , 2011, 14, 1315-1325.	1.0	101
23	Linking estrogen to Alzheimer's disease. <i>Neurology</i> , 1996, 47, 809-810.	1.5	95
24	EST analyses predict the existence of a population of chimeric microRNA precursor-mRNA transcripts expressed in normal human and mouse tissues. <i>Genome Biology</i> , 2003, 4, 403.	13.9	85
25	Towards Effective and Rewarding Data Sharing. <i>Neuroinformatics</i> , 2003, 1, 289-296.	1.5	78
26	ADAM: another database of abbreviations in MEDLINE. <i>Bioinformatics</i> , 2006, 22, 2813-2818.	1.8	76
27	The RNA-centred view of the synapse: non-coding RNAs and synaptic plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130504.	1.8	70
28	Information discovery from complementary literatures: Categorizing viruses as potential weapons. <i>Journal of the Association for Information Science and Technology</i> , 2001, 52, 797-812.	2.6	69
29	Rapid regulation of neurite outgrowth and retraction by phospholipase A2-derived arachidonic acid and its metabolites. <i>Brain Research</i> , 1996, 721, 39-48.	1.1	63
30	Ranking indirect connections in literature-based discovery: The role of medical subject headings. <i>Journal of the Association for Information Science and Technology</i> , 2006, 57, 1427-1439.	2.6	62
31	Endogenous siRNAs and noncoding RNA-derived small RNAs are expressed in adult mouse hippocampus and are up-regulated in olfactory discrimination training. <i>Rna</i> , 2011, 17, 166-181.	1.6	59
32	Arrowsmith two-node search interface: A tutorial on finding meaningful links between two disparate sets of articles in MEDLINE. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 94, 190-197.	2.6	58
33	A quantitative model for linking two disparate sets of articles in MEDLINE. <i>Bioinformatics</i> , 2007, 23, 1658-1665.	1.8	56
34	The possible role of ?sibling neurite bias? in the coordination of neurite extension, branching, and survival. <i>Journal of Neurobiology</i> , 1984, 15, 517-529.	3.7	52
35	Literature-based discovery: Beyond the ABCs. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 218-224.	2.6	48
36	Neurites from mouse retina and dorsal root ganglion explants show specific behavior within co-cultured tectum or spinal cord. <i>Brain Research</i> , 1981, 208, 499-505.	1.1	47

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37	Localization of Cranin (Dystroglycan) at Sites of Cell-Matrix and Cell-Cell Contact: Recruitment to Focal Adhesions Is Dependent upon Extracellular Ligands. <i>Cell Adhesion and Communication</i> , 1996, 4, 281-296.	1.7	47
38	Anne O'Tate: A tool to support user-driven summarization, drill-down and browsing of PubMed search results. <i>Journal of Biomedical Discovery and Collaboration</i> , 2008, 3, 2.	2.0	47
39	Development of ganglion cells and their axons in organized cultures of fetal mouse retinal explants. <i>Brain Research</i> , 1981, 204, 159-178.	1.1	43
40	Expression of a neurally related laminin binding protein by neural crest-derived cells that colonize the gut: Relationship to the formation of enteric ganglia. <i>Journal of Comparative Neurology</i> , 1991, 313, 625-642.	0.9	42
41	Primary micro<sc>RNA</sc> precursor transcripts are localized at postâ€synaptic densities in adult mouse forebrain. <i>Journal of Neurochemistry</i> , 2012, 123, 459-466.	2.1	40
42	Automated confidence ranked classification of randomized controlled trial articles: an aid to evidence-based medicine. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2015, 22, 707-717.	2.2	40
43	Specific neuritic pathways and arborizations formed by fetal mouse dorsal root ganglion cells within organized spinal cord explants in culture: A peroxidase-labeling study. <i>Developmental Brain Research</i> , 1981, 2, 383-395.	2.1	37
44	Natural antisense transcripts are co-expressed with sense mRNAs in synaptoneurosome of adult mouse forebrain. <i>Neuroscience Research</i> , 2008, 62, 236-239.	1.0	37
45	Enoxacin Elevates MicroRNA Levels in Rat Frontal Cortex and Prevents Learned Helplessness. <i>Frontiers in Psychiatry</i> , 2014, 5, 6.	1.3	37
46	Rediscovering Don Swanson: The Past, Present and Future of Literature-based Discovery. <i>Journal of Data and Information Science</i> , 2017, 2, 43-64.	0.5	36
47	Informatics and hypothesisâ€driven research. <i>EMBO Reports</i> , 2002, 3, 702-702.	2.0	35
48	Complications in Mammalian MicroRNA Target Prediction. , 2006, 342, 115-128.		35
49	Olfactory Discrimination Training Up-Regulates and Reorganizes Expression of MicroRNAs in Adult Mouse Hippocampus. <i>ASN Neuro</i> , 2010, 2, AN20090055.	1.5	34
50	A population-based statistical approach identifies parameters characteristic of human microRNA-mRNA interactions. <i>BMC Bioinformatics</i> , 2004, 5, 139.	1.2	31
51	Morphologic plasticity of rapid-onset neurites in NG108-15 cells stimulated by substratum-bound laminin. <i>Developmental Brain Research</i> , 1989, 45, 39-47.	2.1	30
52	Regulation of mammalian microRNA processing and function by cellular signaling and subcellular localization. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2008, 1779, 678-681.	0.9	29
53	A probabilistic automated tagger to identify human-related publications. <i>Database: the Journal of Biological Databases and Curation</i> , 2018, 2018, 1-8.	1.4	29
54	A probabilistic similarity metric for Medline records: a model for author name disambiguation. <i>AMIA ... Annual Symposium proceedings</i> , 2003, , 1033.	0.2	28

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55	Formation of functional retinotectal connections in co-cultures of fetal mouse explants. Brain Research, 1978, 148, 484-492.	1.1	26
56	Collaborative development of the Arrowsmith two node search interface designed for laboratory investigators. Journal of Biomedical Discovery and Collaboration, 2006, 1, 8.	2.0	26
57	Rule-based deduplication of article records from bibliographic databases. Database: the Journal of Biological Databases and Curation, 2014, 2014, bat086.	1.4	26
58	Expression of Egr-1 in the brain of sleep deprived rats. Molecular Brain Research, 1993, 17, 300-306.	2.5	23
59	Evidence-based medicine, the essential role of systematic reviews, and the need for automated text mining tools. , 2010, , .		23
60	Do Neural Cells Communicate with Endothelial Cells via Secretory Exosomes and Microvesicles?. Cardiovascular Psychiatry and Neurology, 2009, 2009, 1-3.	0.8	22
61	Guidelines for Negotiating Scientific Collaboration. PLoS Biology, 2005, 3, e217.	2.6	21
62	Mitochondrial small RNAs that are up-regulated in hippocampus during olfactory discrimination training in mice. Mitochondrion, 2011, 11, 994-995.	1.6	21
63	Role of laminin in stimulating rapid-onset neurites in NG108-15 cells: relative contribution of attachment and motility responses. Developmental Brain Research, 1991, 62, 81-89.	2.1	20
64	Walter Pitts. Perspectives in Biology and Medicine, 2000, 43, 217-226.	0.3	20
65	Examining the Impact of the National Institutes of Health Public Access Policy on the Citation Rates of Journal Articles. PLoS ONE, 2015, 10, e0139951.	1.1	20
66	Synaptic enrichment of microRNAs in adult mouse forebrain is related to structural features of their precursors. Biology Direct, 2008, 3, 44.	1.9	19
67	Analysis of slow-onset neurite formation in NG108-15 cells: implications for a unified model of neurite elongation. Developmental Brain Research, 1989, 45, 49-57.	2.1	18
68	Two Similarity Metrics for Medical Subject Headings (MeSH): An Aid to Biomedical Text Mining and Author Name Disambiguation. Journal of Biomedical Discovery and Collaboration, 2016, 7, e1.	2.0	18
69	Unsupervised low-dimensional vector representations for words, phrases and text that are transparent, scalable, and produce similarity metrics that are not redundant with neural embeddings. Journal of Biomedical Informatics, 2019, 90, 103096.	2.5	18
70	The search for endogenous siRNAs in the mammalian brain. Experimental Neurology, 2012, 235, 455-463.	2.0	17
71	Information discovery from complementary literatures: Categorizing viruses as potential weapons. , 2001, 52, 797.		17
72	Cell attachment and neurite stability in NG108-15 cells: what is the role of microtubules?. Developmental Brain Research, 1991, 58, 271-282.	2.1	16

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73	Positional specificity tests in co-culture of retinal and tectal explants. <i>Brain Research</i> , 1981, 213, 493-499.	1.1	15
74	Ketamine: A Neglected Therapy for Alzheimer Disease. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 186.	1.7	14
75	Acute Neurite Retraction Elicited by Diverse Agents Is Prevented by Genistein, a Tyrosine Kinase Inhibitor. <i>Journal of Neurochemistry</i> , 1993, 61, 340-343.	2.1	13
76	Aggregator: A machine learning approach to identifying MEDLINE articles that derive from the same underlying clinical trial. <i>Methods</i> , 2015, 74, 65-70.	1.9	13
77	The Arrowsmith Project: 2005 Status Report. <i>Lecture Notes in Computer Science</i> , 2005, , 26-43.	1.0	13
78	Acute neurite retraction triggered by lysophosphatidic acid: timing of the inhibitory effects of genistein. <i>Brain Research</i> , 1994, 660, 309-318.	1.1	12
79	Coordinate enrichment of cranin (dystroglycan) subunits in synaptic membranes of sheep brain. <i>Brain Research</i> , 2000, 887, 469-471.	1.1	12
80	Three Journal Similarity Metrics and Their Application to Biomedical Journals. <i>PLoS ONE</i> , 2014, 9, e115681.	1.1	12
81	Cell attachment and neurite stability in NG108-15 cells: effects of 5 $\hat{\text{a}}^{\text{e}}\text{2}$ -deoxy, 5 $\hat{\text{a}}^{\text{e}}\text{2}$ -methyl thioadenosine (MTA) compared with laminin, kinase inhibitor H-7, and MN2+ ions. <i>Developmental Brain Research</i> , 1990, 51, 153-160.	2.1	11
82	Nuggets: findings shared in multiple clinical case reports. <i>Journal of the Medical Library Association: JMLA</i> , 2015, 103, 171-176.	0.6	10
83	Gaps within the Biomedical Literature: Initial Characterization and Assessment of Strategies for Discovery. <i>Frontiers in Research Metrics and Analytics</i> , 2017, 2, .	0.9	10
84	Effect size, sample size and power of forced swim test assays in mice: Guidelines for investigators to optimize reproducibility. <i>PLoS ONE</i> , 2021, 16, e0243668.	1.1	10
85	Mammalian Argonaute-DNA binding?. <i>Biology Direct</i> , 2015, 10, 27.	1.9	9
86	Altered cell shapes in fibroblasts treated with 5 $\hat{\text{a}}^{\text{e}}\text{2}$ -deoxy-5 $\hat{\text{a}}^{\text{e}}\text{2}$ -methylthioadenosine: relation to morphogenesis of neural cells. <i>Developmental Brain Research</i> , 1989, 45, 59-67.	2.1	8
87	Characterization of a novel set of membrane antigens associated with axonal growth. I. Biochemical and functional studies. <i>Developmental Brain Research</i> , 1992, 69, 215-223.	2.1	8
88	Evidence for binding of the ectodomain of amyloid precursor protein 695 and activated high molecular weight kininogen. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1571, 225-238.	1.1	7
89	A manual corpus of annotated main findings of clinical case reports. <i>Database: the Journal of Biological Databases and Curation</i> , 2019, 2019, .	1.4	7
90	Identifying main finding sentences in clinical case reports. <i>Database: the Journal of Biological Databases and Curation</i> , 2020, 2020, .	1.4	7

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91	Characterization of a novel set of membrane antigens associated with axonal growth. II. Expression in the chick central nervous system. <i>Developmental Brain Research</i> , 1992, 69, 225-231.	2.1	6
92	How many scientists does it take to change a paradigm?. <i>EMBO Reports</i> , 2013, 14, 861-865.	2.0	6
93	Mining Clinical Case Reports to Identify New Lines of Investigation in Alzheimer's Disease: The Curious Case of DNase I. <i>Journal of Alzheimer's Disease Reports</i> , 2019, 3, 71-76.	1.2	6
94	Biosynthesis of Glycosaminoglycans and Proteoglycans. , 1989, , 151-186.		6
95	A web-based tool for automatically linking clinical trials to their publications. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 822-830.	2.2	5
96	Radiosensitivity and differentiation of ganglion cells within fetal mouse retinal explants in vitro. <i>Developmental Brain Research</i> , 1984, 13, 159-163.	2.1	4
97	Bath Toys "A Source of Gastrointestinal Infection. <i>New England Journal of Medicine</i> , 2004, 350, 521-521.	13.9	4
98	Anne's Tate: Value-added PubMed search engine for analysis and text mining. <i>PLoS ONE</i> , 2021, 16, e0248335.	1.1	4
99	Characterization of a novel set of membrane antigens associated with axonal growth. III: Expression in the regenerating goldfish optic nerve and tectum. <i>Developmental Brain Research</i> , 1992, 69, 277-282.	2.1	3
100	Monensin-sensitive cellular events modulate neurite extension on laminin: An example of higher-order regulation of cell motility. <i>Cytoskeleton</i> , 1993, 24, 256-263.	4.4	3
101	The Citation Cloud of a biomedical article: a free, public, web-based tool enabling citation analysis. <i>Journal of the Medical Library Association: JMLA</i> , 2022, 110, 103-108.	0.6	3
102	Linking investigators. <i>EMBO Reports</i> , 2003, 4, 108-110.	2.0	2
103	Preparing Synaptoneurosomes from Adult Mouse Forebrain. <i>Methods in Molecular Biology</i> , 2013, 936, 173-179.	0.4	2
104	A Neglected Link Between the Psychoactive Effects of Dietary Ingredients and Consciousness-Altering Drugs. <i>Frontiers in Psychiatry</i> , 2019, 10, 591.	1.3	2
105	Design of a generic, open platform for machine learning-assisted indexing and clustering of articles in PubMed, a biomedical bibliographic database. <i>Data and Information Management</i> , 2018, 2, 27-36.	0.7	2
106	New improved Aggregator: predicting which clinical trial articles derive from the same registered clinical trial. <i>JAMIA Open</i> , 2020, 3, 338-341.	1.0	2
107	Evaluation of publication type tagging as a strategy to screen randomized controlled trial articles in preparing systematic reviews. <i>JAMIA Open</i> , 2022, 5, ooac015.	1.0	2
108	Erratum to publisher. <i>Journal of the Association for Information Science and Technology</i> , 2005, 56, 1010-1010.	2.6	1

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109	Distribution of "Characteristic" Terms in MEDLINE Literatures. Information (Switzerland), 2011, 2, 266-276.	1.7	1
110	Predicting MeSH Beyond MEDLINE. , 2017, 2017, 49-56.		1
111	Sometimes Non-IRB Approved Research Deserves A Second Look. Journal of Clinical Research & Bioethics, 2011, 02, .	0.2	1
112	Conserved Amphipathic Helices Near the N-Terminus and C-Terminus of the Alpha Subunit of Cranin (Dystroglycan). Cell Adhesion and Communication, 1998, 6, 401-404.	1.7	0
113	Literature-based discovery: New trends and techniques. Sponsored by SIG HCI. Proceedings of the American Society for Information Science and Technology, 2005, 40, 497-497.	0.2	0
114	Models of microRNA"target coordination. , 2007, , 221-226.		0
115	Beyond (simple) reading: Strategies, discoveries, and collaborations. Proceedings of the American Society for Information Science and Technology, 2009, 46, 1-6.	0.2	0
116	A framework for entity resolution with efficient blocking. , 2012, , .		0
117	The Revolution in Scientific Publishing. , 2017, , 229-247.		0
118	Choosing a Research Problem. , 2017, , 17-30.		0
119	Editorial: Coronavirus Research Landscape: Resources, Utilities, and Analytic Studies. Frontiers in Research Metrics and Analytics, 2021, 6, 712672.	0.9	0