Elior Peles

List of Publications by Year
in descending order

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Version: 2024-02-01

116 papers	14,844 citations	20817 60 h-index	21540 114 g-index

150 all docs	150 docs citations	150 times ranked	11439 citing authors

#	Article	IF	Citations
1	Mechanisms of node of Ranvier assembly. Nature Reviews Neuroscience, 2021, 22, 7-20.	10.2	89
2	Differential Contribution of Cadm1â€“Cadm3 Cell Adhesion Molecules to Peripheral Myelinated Axons. Journal of Neuroscience, 2021, 41, 1393-1400.	3.6	12
3	TDP-43 maximizes nerve conduction velocity by repressing a cryptic exon for paranodal junction assembly in Schwann cells. ELife, 2021, 10, .	6.0	14
4	Neuronal deletion of Wwox, associated with WOREE syndrome, causes epilepsy and myelin defects. Brain, 2021, 144, 3061-3077.	7.6	21
5	A CADM3 variant causes Charcot-Marie-Tooth disease with marked upper limb involvement. Brain, 2021, 144, 1197-1213.	7.6	10
6	The clustering of voltageâ€gated sodium channels in various excitable membranes. Developmental Neurobiology, 2020, 81, 427-437.	3.0	17
7	Schwann-cell-derived CMTM6 restricts radial axonal growth. Nature Communications, 2020, 11, 5044.	12.8	4
8	Accumulation of Neurofascin at Nodes of Ranvier Is Regulated by a Paranodal Switch. Journal of Neuroscience, 2020, 40, 5709-5723.	3.6	10
9	N-Wasp Regulates Oligodendrocyte Myelination. Journal of Neuroscience, 2020, 40, 6103-6111.	3.6	21
10	Precise Spatiotemporal Control of Nodal Na+ Channel Clustering by Bone Morphogenetic Protein-1/Tolloid-like Proteinases. Neuron, 2020, 106, 806-815.e6.	8.1	9
11	Two adhesive systems cooperatively regulate axon ensheathment and myelin growth in the CNS. Nature Communications, 2019, 10, 4794.	12.8	45
12	Coordinated internodal and paranodal adhesion controls accurate myelination by oligodendrocytes. Journal of Cell Biology, 2019, 218, 2887-2895.	5.2	34
13	Axoglial Adhesion by Cadm4 Regulates CNS Myelination. Neuron, 2019, 101, 224-231.e5.	8.1	49
14	Loss ofCntnap2Causes Axonal Excitability Deficits, Developmental Delay in Cortical Myelination, and Abnormal Stereotyped Motor Behavior. Cerebral Cortex, 2019, 29, 586-597.	2.9	65
15	Immune or Genetic-Mediated Disruption of CASPR2 Causes Pain Hypersensitivity Due to Enhanced Primary Afferent Excitability. Neuron, 2018, 97, 806-822.e10.	8.1	119
16	Glial M6B stabilizes the axonal membrane at peripheral nodes of Ranvier. Glia, 2018, 66, 801-812.	4.9	17
17	Assembly of CNS Nodes of Ranvier in Myelinated Nerves Is Promoted by the Axon Cytoskeleton. Current Biology, 2017, 27, 1068-1073.	3.9	32
18	The paranodal cytoskeleton clusters Na+ channels at nodes of Ranvier. ELife, 2017, 6, .	6.0	57

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19	Specific inhibition of secreted NRG1 types Iâ€“II by heparin enhances Schwann Cell myelination. Glia, 2016, 64, 1227-1234.	4.9	7
20	G protein-coupled receptor 37 is a negative regulator of oligodendrocyte differentiation and myelination. Nature Communications, 2016, 7, 10884.	12.8	107
21	Somatodendritic Expression of JAM2 Inhibits Oligodendrocyte Myelination. Neuron, 2016, 91, 824-836.	8.1	79
22	Auto-antibodies to contactin-associated protein 1 (Caspr) in two patients with painful inflammatory neuropathy. Brain, 2016, 139, 2617-2630.	7.6	144
23	Expression of Cntnap2 (Caspr2) in multiple levels of sensory systems. Molecular and Cellular Neurosciences, 2016, 70, 42-53.	2.2	45
24	The Nodes of Ranvier: Molecular Assembly and Maintenance. Cold Spring Harbor Perspectives in Biology, 2016, 8, a020495.	5.5	136
25	Exogenous and evoked oxytocin restores social behavior in the Cntnap2 mouse model of autism. Science Translational Medicine, 2015, 7, 271ra8.	12.4	308
26	Perlecan is recruited by dystroglycan to nodes of Ranvier and binds the clustering molecule gliomedin. Journal of Cell Biology, 2015, 208, 313-329.	5.2	37
27	Interaction proteomics of canonical Caspr2 (CNTNAP2) reveals the presence of two Caspr2 isoforms with overlapping interactomes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 827-833.	2.3	32
28	Myelin-associated glycoprotein gene mutation causes Pelizaeus-Merzbacher disease-like disorder. Brain, 2015, 138, 2521-2536.	7.6	50
29	The myelin proteolipid plasmolipin forms oligomers and induces liquid-ordered membranes in the Golgi complex. Journal of Cell Science, 2015, 128, 2293-2302.	2.0	21
30	Synaptic abnormalities and cytoplasmic glutamate receptor aggregates in contactin associated protein-like 2 /Caspr2 knockout neurons. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6176-6181.	7.1	108
31	Comprehensive Analysis of the 16p11.2 Deletion and Null Cntnap2 Mouse Models of Autism Spectrum Disorder. PLoS ONE, 2015, 10, e0134572.	2.5	85
32	Long-Term Maintenance of Na⁺Channels at Nodes of Ranvier Depends on Glial Contact Mediated by Gliomedin and NrCAM. Journal of Neuroscience, 2014, 34, 5089-5098.	3.6	55
33	Caspr and Caspr2 Are Required for Both Radial and Longitudinal Organization of Myelinated Axons. Journal of Neuroscience, 2014, 34, 14820-14826.	3.6	36
34	Kv7.2 regulates the function of peripheral sensory neurons. Journal of Comparative Neurology, 2014, 522, 3262-3280.	1.6	39
35	Neuronal Ig/Caspr Recognition Promotes the Formation of Axoaxonic Synapses in Mouse Spinal Cord. Neuron, 2014, 81, 120-129.	8.1	63
36	Direct Genesis of Functional Rodent and Human Schwann Cells from Skin Mesenchymal Precursors. Stem Cell Reports, 2014, 3, 85-100.	4.8	53

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37	Loss of Glial Neurofascin155 Delays Developmental Synapse Elimination at the Neuromuscular Junction. Journal of Neuroscience, 2014, 34, 12904-12918.	3.6	39
38	The making of a node: a co-production of neurons and glia. Current Opinion in Neurobiology, 2013, 23, 1049-1056.	4.2	41
39	An essential role of MAG in mediating axonâ€“myelin attachment in Charcotâ€“Marieâ€“Tooth 1A disease. Neurobiology of Disease, 2013, 49, 221-231.	4.4	29
40	Three Mechanisms Assemble Central Nervous System Nodes of Ranvier. Neuron, 2013, 78, 469-482.	8.1	151
41	Genetic Deletion of Cadm4 Results in Myelin Abnormalities Resembling Charcot-Marie-Tooth Neuropathy. Journal of Neuroscience, 2013, 33, 10950-10961.	3.6	63
42	Axonal spectrins: All-purpose fences. Journal of Cell Biology, 2013, 203, 381-383.	5.2	4
43	Essential Function of Protein 4.1G in Targeting of Membrane Protein Palmitoylated 6 into Schmidt-Lanterman Incisures in Myelinated Nerves. Molecular and Cellular Biology, 2012, 32, 199-205.	2.3	29
44	Neurofascin as a target for autoantibodies in peripheral neuropathies. Neurology, 2012, 79, 2241-2248.	1.1	211
45	The cytoskeletal adapter protein 4.1G organizes the internodes in peripheral myelinated nerves. Journal of Cell Biology, 2012, 196, 337-344.	5.2	44
46	Dependence of paranodal junctional gap width on transverse bands. Journal of Comparative Neurology, 2012, 520, 2774-2784.	1.6	14
47	Absence of CNTNAP2 Leads to Epilepsy, Neuronal Migration Abnormalities, and Core Autism-Related Deficits. Cell, 2011, 147, 235-246.	28.9	870
48	Paranodal permeability in â€œmyelin mutantsâ€• Glia, 2011, 59, 1447-1457.	4.9	12
49	The neurexin superfamily of Caenorhabditis elegans. Gene Expression Patterns, 2011, 11, 144-150.	0.8	46
50	Investigations of caspr2, an autoantigen of encephalitis and neuromyotonia. Annals of Neurology, 2011, 69, 303-311.	5.3	371
51	Schwann cell spectrins modulate peripheral nerve myelination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8009-8014.	7.1	56
52	N-WASP is required for membrane wrapping and myelination by Schwann cells. Journal of Cell Biology, 2011, 192, 243-250.	5.2	78
53	Cellular Form of Prion Protein Inhibits Reelin-Mediated Shedding of Caspr from the Neuronal Cell Surface to Potentiate Caspr-Mediated Inhibition of Neurite Outgrowth. Journal of Neuroscience, 2010, 30, 9292-9305.	3.6	51
54	Organization of Myelinated Axons by Caspr and Caspr2 Requires the Cytoskeletal Adapter Protein 4.1B. Journal of Neuroscience, 2010, 30, 2480-2489.	3.6	95

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55	ADAM22, A Kv1 Channel-Interacting Protein, Recruits Membrane-Associated Guanylate Kinases to Juxtaparanodes of Myelinated Axons. Journal of Neuroscience, 2010, 30, 1038-1048.	3.6	111
56	Antibodies to Kv1 potassium channel-complex proteins leucine-rich, glioma inactivated 1 protein and contactin-associated protein-2 in limbic encephalitis, Morvanâ€™s syndrome and acquired neuromyotonia. Brain, 2010, 133, 2734-2748.	7.6	1,158
57	A Glial Signal Consisting of Gliomedin and NrCAM Clusters Axonal Na+ Channels during the Formation of Nodes of Ranvier. Neuron, 2010, 65, 490-502.	8.1	179
58	Localization of the paranodal protein Caspr in the mammalian retina. Molecular Vision, 2010, 16, 1854-63.	1.1	2
59	The tyrosine phosphatase Shp2 (PTPN11) directs Neuregulin-1/ErbB signaling throughout Schwann cell development. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16704-16709.	7.1	100
60	A novel method for isolating Schwann cells using the extracellular domain of Necl1. Journal of Neuroscience Research, 2009, 87, 3288-3296.	2.9	12
61	Differential clustering of Caspr by oligodendrocytes and Schwann cells. Journal of Neuroscience Research, 2009, 87, 3492-3501.	2.9	23
62	A Novel Caspr Mutation Causes the Shambling Mouse Phenotype by Disrupting Axoglial Interactions of Myelinated Nerves. Journal of Neuropathology and Experimental Neurology, 2009, 68, 1207-1218.	1.7	33
63	Identification of Tmem10/Opalin as an oligodendrocyte enriched gene using expression profiling combined with genetic cell ablation. Glia, 2008, 56, 1176-1186.	4.9	48
64	Molecular domains of myelinated axons in the peripheral nervous system. Glia, 2008, 56, 1532-1540.	4.9	191
65	Multiple Molecular Interactions Determine the Clustering of Caspr2 and Kv1 Channels in Myelinated Axons. Journal of Neuroscience, 2008, 28, 14213-14222.	3.6	106
66	Postsynaptic Density-93 Clusters Kv1 Channels at Axon Initial Segments Independently of Caspr2. Journal of Neuroscience, 2008, 28, 5731-5739.	3.6	114
67	Thrombin receptor PAR-1 on myelin at the node of Ranvier: a new anatomy and physiology of conduction block. Brain, 2008, 131, 1113-1122.	7.6	33
68	Secreted gliomedin is a perinodal matrix component of peripheral nerves. Journal of Cell Biology, 2007, 177, 551-562.	5.2	97
69	A central role for Necl4 (SynCAM4) in Schwann cellâ€“axon interaction and myelination. Nature Neuroscience, 2007, 10, 861-869.	14.8	178
70	Synaptic scaffolding molecule (S-SCAM) membrane-associated guanylate kinase with inverted organization (MAGI)-2 is associated with cell adhesion molecules at inhibitory synapses in rat hippocampal neurons. Journal of Neurochemistry, 2007, 100, 154-166.	3.9	83
71	A New Player in CNS Myelination. Neuron, 2006, 49, 777-778.	8.1	15
72	Identification of novel cell-adhesion molecules in peripheral nerves using a signal-sequence trap. Neuron Glia Biology, 2006, 2, 27-38.	1.6	18

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73	Spectrins and AnkyrinB Constitute a Specialized Paranodal Cytoskeleton. Journal of Neuroscience, 2006, 26, 5230-5239.	3.6	148
74	Ermin, A Myelinating Oligodendrocyte-Specific Protein That Regulates Cell Morphology. Journal of Neuroscience, 2006, 26, 757-762.	3.6	104
75	Gliomedin Mediates Schwann Cell-Axon Interaction and the Molecular Assembly of the Nodes of Ranvier. Neuron, 2005, 47, 215-229.	8.1	279
76	Molecular Specializations at the Glia-Axon Interface. , 2005, , 45-56.		1
77	Mechanisms and Roles of Axon-Schwann Cell Interactions. Journal of Neuroscience, 2004, 24, 9250-9260.	3.6	167
78	Functional Organization of the Nodes of Ranvier. , 2004, , 89-116.		6
79	Altered expression of ion channel isoforms at the node of Ranvier in P0-deficient myelin mutants. Molecular and Cellular Neurosciences, 2004, 25, 83-94.	2.2	54
80	The local differentiation of myelinated axons at nodes of Ranvier. Nature Reviews Neuroscience, 2003, 4, 968-980.	10.2	538
81	Junctional protein MAGI-3 interacts with receptor tyrosine phosphataseÎ² (RPTPÎ²) and tyrosine-phosphorylated proteins. Journal of Cell Science, 2003, 116, 1279-1289.	2.0	71
82	Caspr regulates the processing of contactin and inhibits its binding to neurofascin. Journal of Cell Biology, 2003, 163, 1213-1218.	5.2	125
83	Juxtaparanodal clustering of Shaker-like K+ channels in myelinated axons depends on Caspr2 and TAG-1. Journal of Cell Biology, 2003, 162, 1149-1160.	5.2	462
84	Distinct claudins and associated PDZ proteins form different autotypic tight junctions in myelinating Schwann cells. Journal of Cell Biology, 2002, 159, 361-372.	5.2	175
85	Clustering of neuronal potassium channels is independent of their interaction with PSD-95. Journal of Cell Biology, 2002, 159, 663-672.	5.2	79
86	Heparan sulfate proteoglycan-dependent induction of axon branching and axon misrouting by the Kallmann syndrome gene kal-1. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6346-6351.	7.1	155
87	Retention of a cell adhesion complex at the paranodal junction requires the cytoplasmic region of Caspr. Journal of Cell Biology, 2002, 157, 1247-1256.	5.2	91
88	Caspr3 and Caspr4, Two Novel Members of the Caspr Family Are Expressed in the Nervous System and Interact with PDZ Domains. Molecular and Cellular Neurosciences, 2002, 20, 283-297.	2.2	83
89	Cellular junctions of myelinated nerves (Review). Molecular Membrane Biology, 2002, 19, 95-101.	2.0	44
90	Genetic Dysmyelination Alters the Molecular Architecture of the Nodal Region. Journal of Neuroscience, 2002, 22, 1726-1737.	3.6	103

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91	A Myelin Galactolipid, Sulfatide, Is Essential for Maintenance of Ion Channels on Myelinated Axon But Not Essential for Initial Cluster Formation. Journal of Neuroscience, 2002, 22, 6507-6514.	3.6	218
92	Development of nodes of Ranvier. Current Opinion in Neurobiology, 2002, 12, 476-485.	4.2	104
93	Contactin Orchestrates Assembly of the Septate-like Junctions at the Paranode in Myelinated Peripheral Nerve. Neuron, 2001, 30, 385-397.	8.1	472
94	Localization of Caspr2 in Myelinated Nerves Depends on Axonâ€“Glia Interactions and the Generation of Barriers along the Axon. Journal of Neuroscience, 2001, 21, 7568-7575.	3.6	132
95	Internodal specializations of myelinated axons in the central nervous system. Cell and Tissue Research, 2001, 305, 53-66.	2.9	42
96	Molecular organization of the nodal region is not altered in spontaneously diabetic BB-Wistar rats. Journal of Neuroscience Research, 2001, 65, 139-149.	2.9	18
97	Glial tumor cell adhesion is mediated by binding of the FNIII domain of receptor protein tyrosine phosphatase Î² (RPTPÎ²) to tenascin C. Oncogene, 2001, 20, 609-618.	5.9	48
98	Interaction of Serotonin 5-Hydroxytryptamine Type 2C Receptors with PDZ10 of the Multi-PDZ Domain Protein MUPP1. Journal of Biological Chemistry, 2001, 276, 12974-12982.	3.4	154
99	Molecular domains of myelinated axons. Current Opinion in Neurobiology, 2000, 10, 558-565.	4.2	215
100	Contactin-Associated Protein (Caspr) and Contactin Form a Complex That Is Targeted to the Paranodal Junctions during Myelination. Journal of Neuroscience, 2000, 20, 8354-8364.	3.6	233
101	Myelinating Schwann cells determine the internodal localization of Kv1.1, Kv1.2, Kvbeta2, and Caspr. Journal of Neurocytology, 1999, 28, 333-347.	1.5	103
102	K+ channel distribution and clustering in developing and hypomyelinated axons of the optic nerve. Journal of Neurocytology, 1999, 28, 319-331.	1.5	100
103	Caspr2, a New Member of the Neurexin Superfamily, Is Localized at the Juxtaparanodes of Myelinated Axons and Associates with K+ Channels. Neuron, 1999, 24, 1037-1047.	8.1	451
104	Dependence of Nodal Sodium Channel Clustering on Paranodal Axoglial Contact in the Developing CNS. Journal of Neuroscience, 1999, 19, 7516-7528.	3.6	304
105	Multi-ligand interactions with receptor-like protein tyrosine phosphatase Î²: implications for intercellular signaling. Trends in Biochemical Sciences, 1998, 23, 121-124.	7.5	96
106	Cell-contact-dependent signalling in axon growth and guidance: Eph receptor tyrosine kinases and receptor protein tyrosine phosphatase Î². Current Opinion in Neurobiology, 1998, 8, 117-127.	4.2	121
107	The Axonal Membrane Protein Caspr, a Homologue of Neurexin IV, Is a Component of the Septate-like Paranodal Junctions That Assemble during Myelination. Journal of Cell Biology, 1997, 139, 1495-1506.	5.2	333
108	Induction of Neurite Outgrowth through Contactin and Nr-CAM by Extracellular Regions of Glial Receptor Tyrosine Phosphatase Î². Journal of Cell Biology, 1997, 136, 907-918.	5.2	168

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109	Close Similarity between Drosophila Neurexin IV and Mammalian Caspr Protein Suggests a Conserved Mechanism for Cellular Interactions. Cell, 1997, 88, 745-746.	28.9	38
110	The carbonic anhydrase domain of receptor tyrosine phosphatase Î² is a functional ligand for the axonal cell recognition molecule contactin. Cell, 1995, 82, 251-260.	28.9	397
111	Neu and its ligands: From an oncogene to neural factors. BioEssays, 1993, 15, 815-824.	2.5	269
112	Signal transduction by the neu/ebrB-2 receptor: A potential target for anti-tumor therapy. Journal of Steroid Biochemistry and Molecular Biology, 1992, 43, 95-103.	2.5	23
113	Isolation of the NeuHER-2 stimulatory ligand: A 44 kd glycoprotein that induces differentiation of mammary tumor cells. Cell, 1992, 69, 205-216.	28.9	524
114	Neu differentiation factor: A transmembrane glycoprotein containing an EGF domain and an immunoglobulin homology unit. Cell, 1992, 69, 559-572.	28.9	562
115	Biochemical analysis of the ligand for the neu oncogenic receptor. Biochemistry, 1991, 30, 3543-3550.	2.5	71
116	Heterodimerization of the erbB-1 and erbB-2 receptors in human breast carcinoma cells: a mechanism for receptor transregulation. Biochemistry, 1990, 29, 11024-11028.	2.5	228