

# Elior Peles

## List of Publications by Year in descending order

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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	Antibodies to Kv1 potassium channel-complex proteins leucine-rich, glioma inactivated 1 protein and contactin-associated protein-2 in limbic encephalitis, Morvan's syndrome and acquired neuromyotonia. <i>Brain</i> , 2010, 133, 2734-2748.	7.6	1,158
2	Absence of CNTNAP2 Leads to Epilepsy, Neuronal Migration Abnormalities, and Core Autism-Related Deficits. <i>Cell</i> , 2011, 147, 235-246.	28.9	870
3	Neu differentiation factor: A transmembrane glycoprotein containing an EGF domain and an immunoglobulin homology unit. <i>Cell</i> , 1992, 69, 559-572.	28.9	562
4	The local differentiation of myelinated axons at nodes of Ranvier. <i>Nature Reviews Neuroscience</i> , 2003, 4, 968-980.	10.2	538
5	Isolation of the NeuHER-2 stimulatory ligand: A 44 kd glycoprotein that induces differentiation of mammary tumor cells. <i>Cell</i> , 1992, 69, 205-216.	28.9	524
6	Contactin Orchestrates Assembly of the Septate-like Junctions at the Paranode in Myelinated Peripheral Nerve. <i>Neuron</i> , 2001, 30, 385-397.	8.1	472
7	Juxtaparanodal clustering of <i>Shaker</i> -like K <sup>+</sup> channels in myelinated axons depends on Caspr2 and TAG-1. <i>Journal of Cell Biology</i> , 2003, 162, 1149-1160.	5.2	462
8	Caspr2, a New Member of the Neurexin Superfamily, Is Localized at the Juxtaparanodes of Myelinated Axons and Associates with K <sup>+</sup> Channels. <i>Neuron</i> , 1999, 24, 1037-1047.	8.1	451
9	The carbonic anhydrase domain of receptor tyrosine phosphatase $\hat{1}^2$ is a functional ligand for the axonal cell recognition molecule contactin. <i>Cell</i> , 1995, 82, 251-260.	28.9	397
10	Investigations of caspr2, an autoantigen of encephalitis and neuromyotonia. <i>Annals of Neurology</i> , 2011, 69, 303-311.	5.3	371
11	The Axonal Membrane Protein Caspr, a Homologue of Neurexin IV, Is a Component of the Septate-like Paranodal Junctions That Assemble during Myelination. <i>Journal of Cell Biology</i> , 1997, 139, 1495-1506.	5.2	333
12	Exogenous and evoked oxytocin restores social behavior in the <i>Cntnap2</i> mouse model of autism. <i>Science Translational Medicine</i> , 2015, 7, 271ra8.	12.4	308
13	Dependence of Nodal Sodium Channel Clustering on Paranodal Axoglial Contact in the Developing CNS. <i>Journal of Neuroscience</i> , 1999, 19, 7516-7528.	3.6	304
14	Gliomedin Mediates Schwann Cell-Axon Interaction and the Molecular Assembly of the Nodes of Ranvier. <i>Neuron</i> , 2005, 47, 215-229.	8.1	279
15	Neu and its ligands: From an oncogene to neural factors. <i>BioEssays</i> , 1993, 15, 815-824.	2.5	269
16	Contactin-Associated Protein (Caspr) and Contactin Form a Complex That Is Targeted to the Paranodal Junctions during Myelination. <i>Journal of Neuroscience</i> , 2000, 20, 8354-8364.	3.6	233
17	Heterodimerization of the erbB-1 and erbB-2 receptors in human breast carcinoma cells: a mechanism for receptor transregulation. <i>Biochemistry</i> , 1990, 29, 11024-11028.	2.5	228
18	A Myelin Galactolipid, Sulfatide, Is Essential for Maintenance of Ion Channels on Myelinated Axon But Not Essential for Initial Cluster Formation. <i>Journal of Neuroscience</i> , 2002, 22, 6507-6514.	3.6	218

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19	Molecular domains of myelinated axons. <i>Current Opinion in Neurobiology</i> , 2000, 10, 558-565.	4.2	215
20	Neurofascin as a target for autoantibodies in peripheral neuropathies. <i>Neurology</i> , 2012, 79, 2241-2248.	1.1	211
21	Molecular domains of myelinated axons in the peripheral nervous system. <i>Glia</i> , 2008, 56, 1532-1540.	4.9	191
22	A Glial Signal Consisting of Gliomedin and NrCAM Clusters Axonal Na <sup>+</sup> Channels during the Formation of Nodes of Ranvier. <i>Neuron</i> , 2010, 65, 490-502.	8.1	179
23	A central role for Necl4 (SynCAM4) in Schwann cell-axon interaction and myelination. <i>Nature Neuroscience</i> , 2007, 10, 861-869.	14.8	178
24	Distinct claudins and associated PDZ proteins form different autotypic tight junctions in myelinating Schwann cells. <i>Journal of Cell Biology</i> , 2002, 159, 361-372.	5.2	175
25	Induction of Neurite Outgrowth through Contactin and Nr-CAM by Extracellular Regions of Glial Receptor Tyrosine Phosphatase $\beta$ . <i>Journal of Cell Biology</i> , 1997, 136, 907-918.	5.2	168
26	Mechanisms and Roles of Axon-Schwann Cell Interactions. <i>Journal of Neuroscience</i> , 2004, 24, 9250-9260.	3.6	167
27	Heparan sulfate proteoglycan-dependent induction of axon branching and axon misrouting by the Kallmann syndrome gene <i>kal-1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6346-6351.	7.1	155
28	Interaction of Serotonin 5-Hydroxytryptamine Type 2C Receptors with PDZ10 of the Multi-PDZ Domain Protein MUPP1. <i>Journal of Biological Chemistry</i> , 2001, 276, 12974-12982.	3.4	154
29	Three Mechanisms Assemble Central Nervous System Nodes of Ranvier. <i>Neuron</i> , 2013, 78, 469-482.	8.1	151
30	Spectrins and AnkyrinB Constitute a Specialized Paranodal Cytoskeleton. <i>Journal of Neuroscience</i> , 2006, 26, 5230-5239.	3.6	148
31	Auto-antibodies to contactin-associated protein 1 (Caspr) in two patients with painful inflammatory neuropathy. <i>Brain</i> , 2016, 139, 2617-2630.	7.6	144
32	The Nodes of Ranvier: Molecular Assembly and Maintenance. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a020495.	5.5	136
33	Localization of Caspr2 in Myelinated Nerves Depends on Axon-Glia Interactions and the Generation of Barriers along the Axon. <i>Journal of Neuroscience</i> , 2001, 21, 7568-7575.	3.6	132
34	Caspr regulates the processing of contactin and inhibits its binding to neurofascin. <i>Journal of Cell Biology</i> , 2003, 163, 1213-1218.	5.2	125
35	Cell-contact-dependent signalling in axon growth and guidance: Eph receptor tyrosine kinases and receptor protein tyrosine phosphatase $\beta$ . <i>Current Opinion in Neurobiology</i> , 1998, 8, 117-127.	4.2	121
36	Immune or Genetic-Mediated Disruption of CASPR2 Causes Pain Hypersensitivity Due to Enhanced Primary Afferent Excitability. <i>Neuron</i> , 2018, 97, 806-822.e10.	8.1	119

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37	Postsynaptic Density-93 Clusters Kv1 Channels at Axon Initial Segments Independently of Caspr2. <i>Journal of Neuroscience</i> , 2008, 28, 5731-5739.	3.6	114
38	ADAM22, A Kv1 Channel-Interacting Protein, Recruits Membrane-Associated Guanylate Kinases to Juxtaparanodes of Myelinated Axons. <i>Journal of Neuroscience</i> , 2010, 30, 1038-1048.	3.6	111
39	Synaptic abnormalities and cytoplasmic glutamate receptor aggregates in contactin associated protein-like 2 <i>&lt;i&gt;/i&gt;</i> Caspr2 <i>&lt;/i&gt;</i> knockout neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6176-6181.	7.1	108
40	G protein-coupled receptor 37 is a negative regulator of oligodendrocyte differentiation and myelination. <i>Nature Communications</i> , 2016, 7, 10884.	12.8	107
41	Multiple Molecular Interactions Determine the Clustering of Caspr2 and Kv1 Channels in Myelinated Axons. <i>Journal of Neuroscience</i> , 2008, 28, 14213-14222.	3.6	106
42	Development of nodes of Ranvier. <i>Current Opinion in Neurobiology</i> , 2002, 12, 476-485.	4.2	104
43	Ermin, A Myelinating Oligodendrocyte-Specific Protein That Regulates Cell Morphology. <i>Journal of Neuroscience</i> , 2006, 26, 757-762.	3.6	104
44	Myelinating Schwann cells determine the internodal localization of Kv1.1, Kv1.2, Kvbeta2, and Caspr. <i>Journal of Neurocytology</i> , 1999, 28, 333-347.	1.5	103
45	Genetic Dysmyelination Alters the Molecular Architecture of the Nodal Region. <i>Journal of Neuroscience</i> , 2002, 22, 1726-1737.	3.6	103
46	K <sup>+</sup> channel distribution and clustering in developing and hypomyelinated axons of the optic nerve. <i>Journal of Neurocytology</i> , 1999, 28, 319-331.	1.5	100
47	The tyrosine phosphatase Shp2 (PTPN11) directs Neuregulin-1/ErbB signaling throughout Schwann cell development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16704-16709.	7.1	100
48	Secreted gliomedin is a perinodal matrix component of peripheral nerves. <i>Journal of Cell Biology</i> , 2007, 177, 551-562.	5.2	97
49	Multi-ligand interactions with receptor-like protein tyrosine phosphatase $\hat{1}^2$ ; implications for intercellular signaling. <i>Trends in Biochemical Sciences</i> , 1998, 23, 121-124.	7.5	96
50	Organization of Myelinated Axons by Caspr and Caspr2 Requires the Cytoskeletal Adapter Protein 4.1B. <i>Journal of Neuroscience</i> , 2010, 30, 2480-2489.	3.6	95
51	Retention of a cell adhesion complex at the paranodal junction requires the cytoplasmic region of Caspr. <i>Journal of Cell Biology</i> , 2002, 157, 1247-1256.	5.2	91
52	Mechanisms of node of Ranvier assembly. <i>Nature Reviews Neuroscience</i> , 2021, 22, 7-20.	10.2	89
53	Comprehensive Analysis of the 16p11.2 Deletion and Null Cntnap2 Mouse Models of Autism Spectrum Disorder. <i>PLoS ONE</i> , 2015, 10, e0134572.	2.5	85
54	Caspr3 and Caspr4, Two Novel Members of the Caspr Family Are Expressed in the Nervous System and Interact with PDZ Domains. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 283-297.	2.2	83

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55	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. <i>Journal of Neurochemistry</i> , 2007, 100, 154-166.	3.9	83
56	Clustering of neuronal potassium channels is independent of their interaction with PSD-95. <i>Journal of Cell Biology</i> , 2002, 159, 663-672.	5.2	79
57	Somatodendritic Expression of JAM2 Inhibits Oligodendrocyte Myelination. <i>Neuron</i> , 2016, 91, 824-836.	8.1	79
58	N-WASP is required for membrane wrapping and myelination by Schwann cells. <i>Journal of Cell Biology</i> , 2011, 192, 243-250.	5.2	78
59	Biochemical analysis of the ligand for the neu oncogenic receptor. <i>Biochemistry</i> , 1991, 30, 3543-3550.	2.5	71
60	Junctional protein MAGI-3 interacts with receptor tyrosine phosphatase <sup>Î²</sup> (RPTP <sup>Î²</sup> ) and tyrosine-phosphorylated proteins. <i>Journal of Cell Science</i> , 2003, 116, 1279-1289.	2.0	71
61	Loss of <i>Cntnap2</i> Causes Axonal Excitability Deficits, Developmental Delay in Cortical Myelination, and Abnormal Stereotyped Motor Behavior. <i>Cerebral Cortex</i> , 2019, 29, 586-597.	2.9	65
62	Genetic Deletion of <i>Cadm4</i> Results in Myelin Abnormalities Resembling Charcot-Marie-Tooth Neuropathy. <i>Journal of Neuroscience</i> , 2013, 33, 10950-10961.	3.6	63
63	Neuronal Ig/Caspr Recognition Promotes the Formation of Axoaxonic Synapses in Mouse Spinal Cord. <i>Neuron</i> , 2014, 81, 120-129.	8.1	63
64	The paranodal cytoskeleton clusters Na <sup>+</sup> channels at nodes of Ranvier. <i>ELife</i> , 2017, 6, .	6.0	57
65	Schwann cell spectrins modulate peripheral nerve myelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8009-8014.	7.1	56
66	Long-Term Maintenance of Na <sup>+</sup> Channels at Nodes of Ranvier Depends on Glial Contact Mediated by Gliomedin and NrCAM. <i>Journal of Neuroscience</i> , 2014, 34, 5089-5098.	3.6	55
67	Altered expression of ion channel isoforms at the node of Ranvier in P0-deficient myelin mutants. <i>Molecular and Cellular Neurosciences</i> , 2004, 25, 83-94.	2.2	54
68	Direct Genesis of Functional Rodent and Human Schwann Cells from Skin Mesenchymal Precursors. <i>Stem Cell Reports</i> , 2014, 3, 85-100.	4.8	53
69	Cellular Form of Prion Protein Inhibits Reelin-Mediated Shedding of Caspr from the Neuronal Cell Surface to Potentiate Caspr-Mediated Inhibition of Neurite Outgrowth. <i>Journal of Neuroscience</i> , 2010, 30, 9292-9305.	3.6	51
70	Myelin-associated glycoprotein gene mutation causes Pelizaeus-Merzbacher disease-like disorder. <i>Brain</i> , 2015, 138, 2521-2536.	7.6	50
71	Axoglial Adhesion by <i>Cadm4</i> Regulates CNS Myelination. <i>Neuron</i> , 2019, 101, 224-231.e5.	8.1	49
72	Glial tumor cell adhesion is mediated by binding of the FNIII domain of receptor protein tyrosine phosphatase <sup>Î²</sup> (RPTP <sup>Î²</sup> ) to tenascin C. <i>Oncogene</i> , 2001, 20, 609-618.	5.9	48

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73	Identification of <i>Tmem10/Opalin</i> as an oligodendrocyte enriched gene using expression profiling combined with genetic cell ablation. <i>Glia</i> , 2008, 56, 1176-1186.	4.9	48
74	The neurexin superfamily of <i>Caenorhabditis elegans</i> . <i>Gene Expression Patterns</i> , 2011, 11, 144-150.	0.8	46
75	Expression of <i>Cntnap2 (Caspr2)</i> in multiple levels of sensory systems. <i>Molecular and Cellular Neurosciences</i> , 2016, 70, 42-53.	2.2	45
76	Two adhesive systems cooperatively regulate axon ensheathment and myelin growth in the CNS. <i>Nature Communications</i> , 2019, 10, 4794.	12.8	45
77	Cellular junctions of myelinated nerves (Review). <i>Molecular Membrane Biology</i> , 2002, 19, 95-101.	2.0	44
78	The cytoskeletal adapter protein 4.1G organizes the internodes in peripheral myelinated nerves. <i>Journal of Cell Biology</i> , 2012, 196, 337-344.	5.2	44
79	Internodal specializations of myelinated axons in the central nervous system. <i>Cell and Tissue Research</i> , 2001, 305, 53-66.	2.9	42
80	The making of a node: a co-production of neurons and glia. <i>Current Opinion in Neurobiology</i> , 2013, 23, 1049-1056.	4.2	41
81	<i>Kv7.2</i> regulates the function of peripheral sensory neurons. <i>Journal of Comparative Neurology</i> , 2014, 522, 3262-3280.	1.6	39
82	Loss of Glial Neurofascin155 Delays Developmental Synapse Elimination at the Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2014, 34, 12904-12918.	3.6	39
83	Close Similarity between <i>Drosophila</i> Neurexin IV and Mammalian Caspr Protein Suggests a Conserved Mechanism for Cellular Interactions. <i>Cell</i> , 1997, 88, 745-746.	28.9	38
84	Perlecan is recruited by dystroglycan to nodes of Ranvier and binds the clustering molecule gliomedin. <i>Journal of Cell Biology</i> , 2015, 208, 313-329.	5.2	37
85	<i>Caspr</i> and <i>Caspr2</i> Are Required for Both Radial and Longitudinal Organization of Myelinated Axons. <i>Journal of Neuroscience</i> , 2014, 34, 14820-14826.	3.6	36
86	Coordinated internodal and paranodal adhesion controls accurate myelination by oligodendrocytes. <i>Journal of Cell Biology</i> , 2019, 218, 2887-2895.	5.2	34
87	Thrombin receptor PAR-1 on myelin at the node of Ranvier: a new anatomy and physiology of conduction block. <i>Brain</i> , 2008, 131, 1113-1122.	7.6	33
88	A Novel <i>Caspr</i> Mutation Causes the Shambling Mouse Phenotype by Disrupting Axoglia Interactions of Myelinated Nerves. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 1207-1218.	1.7	33
89	Interaction proteomics of canonical <i>Caspr2 (CNTNAP2)</i> reveals the presence of two <i>Caspr2</i> isoforms with overlapping interactomes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 827-833.	2.3	32
90	Assembly of CNS Nodes of Ranvier in Myelinated Nerves Is Promoted by the Axon Cytoskeleton. <i>Current Biology</i> , 2017, 27, 1068-1073.	3.9	32

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91	Essential Function of Protein 4.1G in Targeting of Membrane Protein Palmitoylated 6 into Schmidt-Lanterman Incisures in Myelinated Nerves. <i>Molecular and Cellular Biology</i> , 2012, 32, 199-205.	2.3	29
92	An essential role of MAG in mediating axon-myelin attachment in Charcot-Marie-Tooth 1A disease. <i>Neurobiology of Disease</i> , 2013, 49, 221-231.	4.4	29
93	Signal transduction by the neu/erbB-2 receptor: A potential target for anti-tumor therapy. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1992, 43, 95-103.	2.5	23
94	Differential clustering of Caspr by oligodendrocytes and Schwann cells. <i>Journal of Neuroscience Research</i> , 2009, 87, 3492-3501.	2.9	23
95	The myelin proteolipid plasmalogen forms oligomers and induces liquid-ordered membranes in the Golgi complex. <i>Journal of Cell Science</i> , 2015, 128, 2293-2302.	2.0	21
96	N-Wasp Regulates Oligodendrocyte Myelination. <i>Journal of Neuroscience</i> , 2020, 40, 6103-6111.	3.6	21
97	Neuronal deletion of <i>Wwox</i> , associated with WOREE syndrome, causes epilepsy and myelin defects. <i>Brain</i> , 2021, 144, 3061-3077.	7.6	21
98	Molecular organization of the nodal region is not altered in spontaneously diabetic BB-Wistar rats. <i>Journal of Neuroscience Research</i> , 2001, 65, 139-149.	2.9	18
99	Identification of novel cell-adhesion molecules in peripheral nerves using a signal-sequence trap. <i>Neuron Glia Biology</i> , 2006, 2, 27-38.	1.6	18
100	Glial M6B stabilizes the axonal membrane at peripheral nodes of Ranvier. <i>Glia</i> , 2018, 66, 801-812.	4.9	17
101	The clustering of voltage-gated sodium channels in various excitable membranes. <i>Developmental Neurobiology</i> , 2020, 81, 427-437.	3.0	17
102	A New Player in CNS Myelination. <i>Neuron</i> , 2006, 49, 777-778.	8.1	15
103	Dependence of paranodal junctional gap width on transverse bands. <i>Journal of Comparative Neurology</i> , 2012, 520, 2774-2784.	1.6	14
104	TDP-43 maximizes nerve conduction velocity by repressing a cryptic exon for paranodal junction assembly in Schwann cells. <i>ELife</i> , 2021, 10, .	6.0	14
105	A novel method for isolating Schwann cells using the extracellular domain of Necl1. <i>Journal of Neuroscience Research</i> , 2009, 87, 3288-3296.	2.9	12
106	Paranodal permeability in myelin mutants. <i>Glia</i> , 2011, 59, 1447-1457.	4.9	12
107	Differential Contribution of Cadm1-Cadm3 Cell Adhesion Molecules to Peripheral Myelinated Axons. <i>Journal of Neuroscience</i> , 2021, 41, 1393-1400.	3.6	12
108	Accumulation of Neurofascin at Nodes of Ranvier Is Regulated by a Paranodal Switch. <i>Journal of Neuroscience</i> , 2020, 40, 5709-5723.	3.6	10

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109	A <i>CADM3</i> variant causes Charcot-Marie-Tooth disease with marked upper limb involvement. <i>Brain</i> , 2021, 144, 1197-1213.	7.6	10
110	Precise Spatiotemporal Control of Nodal Na <sup>+</sup> Channel Clustering by Bone Morphogenetic Protein-1/Tolloid-like Proteinases. <i>Neuron</i> , 2020, 106, 806-815.e6.	8.1	9
111	Specific inhibition of secreted NRG1 types I&II by heparin enhances Schwann Cell myelination. <i>Glia</i> , 2016, 64, 1227-1234.	4.9	7
112	Functional Organization of the Nodes of Ranvier. , 2004, , 89-116.		6
113	Axonal spectrins: All-purpose fences. <i>Journal of Cell Biology</i> , 2013, 203, 381-383.	5.2	4
114	Schwann-cell-derived CMTM6 restricts radial axonal growth. <i>Nature Communications</i> , 2020, 11, 5044.	12.8	4
115	Localization of the paranodal protein Caspr in the mammalian retina. <i>Molecular Vision</i> , 2010, 16, 1854-63.	1.1	2
116	Molecular Specializations at the Glia-Axon Interface. , 2005, , 45-56.		1