Vann Bennett

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8471741/publications.pdf

Version: 2024-02-01

131 papers	17,227 citations	13068 68 h-index	14156 128 g-index
142 all docs	142 docs citations	142 times ranked	10209 citing authors

#	Article	IF	Citations
1	Use of Primary Cultured Hippocampal Neurons to Study the Assembly of Axon Initial Segments. Journal of Visualized Experiments, 2021, , .	0.2	1
2	ANK2 autism mutation targeting giant ankyrin-B promotes axon branching and ectopic connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15262-15271.	3.3	78
3	Î²II-spectrin promotes mouse brain connectivity through stabilizing axonal plasma membranes and enabling axonal organelle transport. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15686-15695.	3.3	48
4	Neurodevelopmental mutation of giant ankyrin-G disrupts a core mechanism for axon initial segment assembly. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19717-19726.	3.3	33
5	Ankyrin-G regulated epithelial phenotype is required for mouse lens morphogenesis and growth. Developmental Biology, 2019, 446, 119-131.	0.9	4
6	Cell-autonomous adiposity through increased cell surface GLUT4 due to ankyrin-B deficiency. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12743-12748.	3.3	21
7	An Adaptable Spectrin/Ankyrin-Based Mechanism for Long-Range Organization of Plasma Membranes in Vertebrate Tissues. Current Topics in Membranes, 2016, 77, 143-184.	0.5	86
8	Common human ANK2 variant confers in vivo arrhythmia phenotypes. Heart Rhythm, 2016, 13, 1932-1940.	0.3	9
9	Ankyrin-B directs membrane tethering of periaxin and is required for maintenance of lens fiber cell hexagonal shape and mechanics. American Journal of Physiology - Cell Physiology, 2016, 310, C115-C126.	2.1	21
10	Ankyrin-G Inhibits Endocytosis of Cadherin Dimers. Journal of Biological Chemistry, 2016, 291, 691-704.	1.6	10
11	Ankyrin-B is a PI3P effector that promotes polarized Î±5Î²1-integrin recycling via recruiting RabGAP1L to early endosomes. ELife, 2016, 5, .	2.8	27
12	Dynamic spectrin/ankyrin-G microdomains promote lateral membrane assembly by opposing endocytosis. Science Advances, 2015, 1, e1500301.	4.7	36
13	Giant ankyrin-G: A critical innovation in vertebrate evolution of fast and integrated neuronal signaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 957-964.	3.3	148
14	Giant ankyrin-G stabilizes somatodendritic GABAergic synapses through opposing endocytosis of GABA _A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1214-1219.	3.3	72
15	Evolution in Action: Giant Ankyrins Awake. Developmental Cell, 2015, 33, 1-2.	3.1	25
16	Ankyrin-B metabolic syndrome combines age-dependent adiposity with pancreatic Î² cell insufficiency. Journal of Clinical Investigation, 2015, 125, 3087-3102.	3.9	21
17	A hierarchy of ankyrin-spectrin complexes clusters sodium channels at nodes of Ranvier. Nature Neuroscience, 2014, 17, 1664-1672.	7.1	94
18	Glial ankyrins facilitate paranodal axoglial junction assembly. Nature Neuroscience, 2014, 17, 1673-1681.	7.1	82

#	Article	IF	Citations
19	A PIK3C3â€“Ankyrin-Bâ€“Dynactin pathway promotes axonal growth and multiorganelle transport. Journal of Cell Biology, 2014, 207, 735-752.	2.3	84
20	Ankyrin-G palmitoylation and Î²II-spectrin binding to phosphoinositide lipids drive lateral membrane assembly. Journal of Cell Biology, 2014, 206, 273-288.	2.3	67
21	Ankyrin-G Coordinates Intercalated Disc Signaling Platform to Regulate Cardiac Excitability In Vivo. Circulation Research, 2014, 115, 929-938.	2.0	114
22	Structural basis of diverse membrane target recognitions by ankyrins. ELife, 2014, 3, .	2.8	84
23	Ankyrin-B structurally defines terminal microdomains of peripheral somatosensory axons. Brain Structure and Function, 2013, 218, 1005-1016.	1.2	16
24	Spectrin- and Ankyrin-Based Membrane Domains and the Evolution of Vertebrates. Current Topics in Membranes, 2013, 72, 1-37.	0.5	137
25	A Single Divergent Exon Inhibits Ankyrin-B Association with the Plasma Membrane. Journal of Biological Chemistry, 2013, 288, 14769-14779.	1.6	27
26	E-cadherin Polarity Is Determined by a Multifunction Motif Mediating Lateral Membrane Retention through Ankyrin-G and Apical-lateral Transcytosis through Clathrin. Journal of Biological Chemistry, 2013, 288, 14018-14031.	1.6	49
27	Mutation of Conserved Histidines Alters Tertiary Structure and Nanomechanics of Consensus Ankyrin Repeats. Journal of Biological Chemistry, 2012, 287, 19115-19121.	1.6	10
28	Cysteine 70 of Ankyrin-G Is S-Palmitoylated and Is Required for Function of Ankyrin-G in Membrane Domain Assembly. Journal of Biological Chemistry, 2012, 287, 43995-44005.	1.6	65
29	Mechanical Anisotropy of Ankyrin Repeats. Biophysical Journal, 2012, 102, 1118-1126.	0.2	20
30	Ank3-Dependent SVZ Niche Assembly Is Required for the Continued Production of New Neurons. Neuron, 2011, 71, 61-75.	3.8	112
31	Nanomechanics of Streptavidin Hubs for Molecular Materials. Advanced Materials, 2011, 23, 5684-5688.	11.1	26
32	Ankyrin-B Interactions with Spectrin and Dynactin-4 Are Required for Dystrophin-based Protection of Skeletal Muscle from Exercise Injury. Journal of Biological Chemistry, 2011, 286, 7370-7378.	1.6	63
33	Cholinergic Augmentation of Insulin Release Requires Ankyrin-B. Science Signaling, 2010, 3, ra19.	1.6	41
34	Full Reconstruction of a Vectorial Protein Folding Pathway by Atomic Force Microscopy and Molecular Dynamics Simulations*. Journal of Biological Chemistry, 2010, 285, 38167-38172.	1.6	36
35	Fast and Forceful Refolding of Stretched Î±-Helical Solenoid Proteins. Biophysical Journal, 2010, 98, 3086-3092.	0.2	49
36	Ankyrin-G Promotes Cyclic Nucleotideâ€“Gated Channel Transport to Rod Photoreceptor Sensory Cilia. Science, 2009, 323, 1614-1617.	6.0	70

#	Article	IF	Citations
37	Membrane Domains Based on Ankyrin and Spectrin Associated with Cell-Cell Interactions. Cold Spring Harbor Perspectives in Biology, 2009, 1, a003012-a003012.	2.3	167
38	Localization and Structure of the Ankyrin-binding Site on Î²2-Spectrin. Journal of Biological Chemistry, 2009, 284, 6982-6987.	1.6	59
39	AnkyrinG is required to maintain axo-dendritic polarity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17564-17569.	3.3	161
40	Ankyrin-B is required for coordinated expression of beta-2-spectrin, the Na/K-ATPase and the Na/Ca exchanger in the inner segment of rod photoreceptors. Experimental Eye Research, 2009, 88, 57-64.	1.2	37
41	Ankyrin-based Patterning of Membrane Microdomains: New Insights Into a Novel Class of Cardiovascular Diseases. Journal of Cardiovascular Pharmacology, 2009, 54, 106-115.	0.8	6
42	Cell differentiation. Current Opinion in Cell Biology, 2008, 20, 607-608.	2.6	0
43	Organizing the fluid membrane bilayer: diseases linked to spectrin and ankyrin. Trends in Molecular Medicine, 2008, 14, 28-36.	3.5	156
44	An Ankyrin-Based Mechanism for Functional Organization of Dystrophin and Dystroglycan. Cell, 2008, 135, 1189-1200.	13.5	142
45	Being there: cellular targeting of voltage-gated sodium channels in the heart. Journal of Cell Biology, 2008, 180, 13-15.	2.3	6
46	Ankyrin-G and Î²2-Spectrin Collaborate in Biogenesis of Lateral Membrane of Human Bronchial Epithelial Cells. Journal of Biological Chemistry, 2007, 282, 2029-2037.	1.6	118
47	Ankyrin-G Is a Molecular Partner of E-cadherin in Epithelial Cells and Early Embryos. Journal of Biological Chemistry, 2007, 282, 26552-26561.	1.6	127
48	Ankyrin-B Syndrome: Enhanced Cardiac Function Balanced by Risk of Cardiac Death and Premature Senescence. PLoS ONE, 2007, 2, e1051.	1.1	38
49	Ankyrin-G Regulates Inactivation Gating of the Neuronal Sodium Channel, Nav1.6. Journal of Neurophysiology, 2006, 96, 1347-1357.	0.9	36
50	Nanospring behaviour of ankyrin repeats. Nature, 2006, 440, 246-249.	13.7	354
51	Isoform Specificity of Ankyrin-B. Journal of Biological Chemistry, 2006, 281, 5741-5749.	1.6	56
52	A Common Ankyrin-G-Based Mechanism Retains KCNQ and NaV Channels at Electrically Active Domains of the Axon. Journal of Neuroscience, 2006, 26, 2599-2613.	1.7	514
53	Ankyrin-based cardiac arrhythmias: a new class of channelopathies due to loss of cellular targeting. Current Opinion in Cardiology, 2005, 20, 189-193.	0.8	63
54	Ankyrin-B Coordinates the Na/K ATPase, Na/Ca Exchanger, and InsP3 Receptor in a Cardiac T-Tubule/SR Microdomain. PLoS Biology, 2005, 3, e423.	2.6	221

#	Article	IF	Citations
55	The Ammonium Transporter RhBG. Journal of Biological Chemistry, 2005, 280, 8221-8228.	1.6	46
56	Isoform Specificity among Ankyrins. Journal of Biological Chemistry, 2004, 279, 25798-25804.	1.6	44
57	Ankyrin-B Targets Î²2-Spectrin to an Intracellular Compartment in Neonatal Cardiomyocytes. Journal of Biological Chemistry, 2004, 279, 40185-40193.	1.6	84
58	Nav1.5 E1053K mutation causing Brugada syndrome blocks binding to ankyrin-G and expression of Nav1.5 on the surface of cardiomyocytes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17533-17538.	3.3	349
59	Inositol 1,4,5-Trisphosphate Receptor Localization and Stability in Neonatal Cardiomyocytes Requires Interaction with Ankyrin-B. Journal of Biological Chemistry, 2004, 279, 12980-12987.	1.6	78
60	A cardiac arrhythmia syndrome caused by loss of ankyrin-B function. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9137-9142.	3.3	301
61	Lateral Membrane Biogenesis in Human Bronchial Epithelial Cells Requires 190-kDa Ankyrin-G. Journal of Biological Chemistry, 2004, 279, 16706-16714.	1.6	85
62	Ankyrin-Based Subcellular Gradient of Neurofascin, an Immunoglobulin Family Protein, Directs GABAergic Innervation at Purkinje Axon Initial Segment. Cell, 2004, 119, 257-272.	13.5	338
63	Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death. Nature, 2003, 421, 634-639.	13.7	926
64	Î±-Adducin dissociates from F-actin and spectrin during platelet activation. Journal of Cell Biology, 2003, 161, 557-570.	2.3	84
65	L1-dependent neuritogenesis involves ankyrinB that mediates L1-CAM coupling with retrograde actin flow. Journal of Cell Biology, 2003, 163, 1077-1088.	2.3	91
66	Kv3.1b Is a Novel Component of CNS Nodes. Journal of Neuroscience, 2003, 23, 4509-4518.	1.7	136
67	The Ankyrin-B C-terminal Domain Determines Activity of Ankyrin-B/G Chimeras in Rescue of Abnormal Inositol 1,4,5-Trisphosphate and Ryanodine Receptor Distribution in Ankyrin-B (â^'/â^') Neonatal Cardiomyocytes. Journal of Biological Chemistry, 2002, 277, 10599-10607.	1.6	105
68	Developing nodes of Ranvier are defined by ankyrin-G clustering and are independent of paranodal axoglial adhesion. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2303-2308.	3.3	107
69	A New Activity of Doublecortin in Recognition of the Phospho-FIGQY Tyrosine in the Cytoplasmic Domain of Neurofascin. Journal of Neuroscience, 2002, 22, 7948-7958.	1.7	76
70	Ankyrins. Journal of Cell Science, 2002, 115, 1565-1566.	1.2	69
71	Ankyrins. Journal of Cell Science, 2002, 115, 1565-6.	1.2	59
72	Spectrin and Ankyrin-Based Pathways: Metazoan Inventions for Integrating Cells Into Tissues. Physiological Reviews, 2001, 81, 1353-1392.	13.1	846

#	Article	IF	Citations
73	Ankyrins and cellular targeting of diverse membrane proteins to physiological sites. Current Opinion in Cell Biology, 2001, 13, 61-67.	2.6	149
74	LAD-1, the Caenorhabditis elegans L1CAM homologue, participates in embryonic and gonadal morphogenesis and is a substrate for fibroblast growth factor receptor pathway-dependent phosphotyrosine-based signaling. Journal of Cell Biology, 2001, 154, 841-856.	2.3	115
75	Ankyrin-G coordinates assembly of the spectrin-based membrane skeleton, voltage-gated sodium channels, and L1 CAMs at Purkinje neuron initial segments. Journal of Cell Biology, 2001, 155, 739-746.	2.3	405
76	FIGQY phosphorylation defines discrete populations of L1 cell adhesion molecules at sites of cell-cell contact and in migrating neurons. Journal of Cell Science, 2001, 114, 3823-3835.	1.2	56
77	Abnormal Cardiac Na ⁺ Channel Properties and QT Heart Rate Adaptation in Neonatal Ankyrin _B Knockout Mice. Circulation Research, 2000, 86, 441-447.	2.0	104
78	Caenorhabditis elegans Î²-G Spectrin Is Dispensable for Establishment of Epithelial Polarity, but Essential for Muscular and Neuronal Function. Journal of Cell Biology, 2000, 149, 915-930.	2.3	98
79	Î±-Actinin is a potent regulator of G protein-coupled receptor kinase activity and substrate specificity in vitro. FEBS Letters, 2000, 473, 280-284.	1.3	39
80	Ankyrin-B Is Required for Intracellular Sorting of Structurally Diverse Ca2+ Homeostasis Proteins. Journal of Cell Biology, 1999, 147, 995-1008.	2.3	117
81	Phosphorylation of Adducin by Rho-Kinase Plays a Crucial Role in Cell Motility. Journal of Cell Biology, 1999, 145, 347-361.	2.3	278
82	A Requirement for Ankyrin Binding to Clathrin during Coated Pit Budding. Journal of Biological Chemistry, 1999, 274, 35908-35913.	1.6	57
83	Physiological roles of axonal ankyrins in survival of premyelinated axons and localization of voltage-gated sodium channels. , 1999, 28, 303-318.		95
84	Regulation of the Association of Adducin with Actin Filaments by Rho-associated Kinase (Rho-kinase) and Myosin Phosphatase. Journal of Biological Chemistry, 1998, 273, 5542-5548.	1.6	186
85	Adducin Preferentially Recruits Spectrin to the Fast Growing Ends of Actin Filaments in a Complex Requiring the MARCKS-related Domain and a Newly Defined Oligomerization Domain. Journal of Biological Chemistry, 1998, 273, 19329-19338.	1.6	101
86	Structural Requirements for Association of Neurofascin with Ankyrin. Journal of Biological Chemistry, 1998, 273, 30785-30794.	1.6	120
87	Adducin Is an In Vivo Substrate for Protein Kinase C: Phosphorylation in the MARCKS-related Domain Inhibits Activity in Promoting Spectrinâ€“Actin Complexes and Occurs in Many Cells, Including Dendritic Spines of Neurons. Journal of Cell Biology, 1998, 142, 485-497.	2.3	201
88	Nervous System Defects of AnkyrinB (â^'/â^') Mice Suggest Functional Overlap between the Cell Adhesion Molecule L1 and 440-kD AnkyrinB in Premyelinated Axons. Journal of Cell Biology, 1998, 143, 1305-1315.	2.3	171
89	Restriction of 480/270-kD Ankyrinâ€‰G to Axon Proximal Segments Requires Multiple Ankyrinâ€‰G-specific Domains. Journal of Cell Biology, 1998, 142, 1571-1581.	2.3	115
90	AnkyrinG Is Required for Clustering of Voltage-gated Na Channels at Axon Initial Segments and for Normal Action Potential Firing. Journal of Cell Biology, 1998, 143, 1295-1304.	2.3	517

#	Article	IF	Citations
91	Palmitoylation of Neurofascin at a Site in the Membraneâ€Spanning Domain Highly Conserved Among the L1 Family of Cell Adhesion Molecules. Journal of Neurochemistry, 1998, 70, 1839-1849.	2.1	55
92	Tyrosine Phosphorylation at a Site Highly Conserved in the L1 Family of Cell Adhesion Molecules Abolishes Ankyrin Binding and Increases Lateral Mobility of Neurofascin. Journal of Cell Biology, 1997, 137, 703-714.	2.3	231
93	Morphogenesis of the Node of Ranvier: Co-Clusters of Ankyrin and Ankyrin-Binding Integral Proteins Define Early Developmental Intermediates. Journal of Neuroscience, 1997, 17, 7025-7036.	1.7	201
94	Chapter 7 Axonal Ankyrins and Ankyrin-Binding Proteins: Potential Participants in Lateral Membrane Domains and Transcellular Connections at the Node of Ranvier. Current Topics in Membranes, 1996, 43, 129-145.	0.5	5
95	Adducin Regulation. Journal of Biological Chemistry, 1996, 271, 25157-25166.	1.6	144
96	A New Function for Adducin. Journal of Biological Chemistry, 1996, 271, 7986-7991.	1.6	174
97	Identification of the Spectrin Subunit and Domains Required for Formation of Spectrin/Adducin/Actin Complexes. Journal of Biological Chemistry, 1996, 271, 15695-15702.	1.6	57
98	Identification of O-Linked N-Acetylglucosamine Modification of AnkyrinG Isoforms Targeted to Nodes of Ranvier. Journal of Biological Chemistry, 1996, 271, 31391-31398.	1.6	57
99	The ANK Repeats of Erythrocyte Ankyrin Form Two Distinct but Cooperative Binding Sites for the Erythrocyte Anion Exchanger. Journal of Biological Chemistry, 1995, 270, 22050-22057.	1.6	101
100	Mechanism for Binding Site Diversity on Ankyrin:. Journal of Biological Chemistry, 1995, 270, 31298-31302.	1.6	82
101	Adducin: a Physical Model with Implications for Function in Assembly of Spectrin-Actin Complexes. Journal of Biological Chemistry, 1995, 270, 18990-18996.	1.6	150
102	Ankyrin. Journal of Biological Chemistry, 1995, 270, 2352-2359.	1.6	442
103	Chromosomal Localization of the AnkyrinG Gene (ANK3/Ank3) to Human 10q21 and Mouse 10. Genomics, 1995, 27, 189-191.	1.3	26
104	Assignment of the Human Î²-Adducin Gene (ADD2) to 2p13-p14 by in Situ Hybridization. Genomics, 1995, 28, 610-612.	1.3	12
105	From anemia to cerebellar dysfunction. A review of the ankyrin gene family. FEBS Journal, 1993, 211, 1-6.	0.2	55
106	The Spectrin-Based Membrane Skeleton and Micron-Scale Organization of the Plasma Membrane. Annual Review of Cell Biology, 1993, 9, 27-66.	26.0	449
107	The ANK repeat: a ubiquitous motif involved in macromolecular recognition. Trends in Cell Biology, 1992, 2, 127-129.	3.6	252
108	Immunofluorescence localization of an adducin-like protein in the chromosomes of mouse oocytes. Developmental Biology, 1991, 146, 301-311.	0.9	14

#	Article	IF	Citations
109	Spectrin-Based Membrane Skeleton: A Multipotential Adaptor Between Plasma Membrane and Cytoplasm. Physiological Reviews, 1991, 71, 330-330.	13.1	243
110	Chapter 5 Ankyrins: A Family of Proteins that Link Diverse Membrane Proteins to the Spectrin Skeleton. Current Topics in Membranes, 1991, 38, 65-77.	0.5	3
111	Analysis of cDNA for human erythrocyte ankyrin indicates a repeated structure with homology to tissue-differentiation and cell-cycle control proteins. Nature, 1990, 344, 36-42.	13.7	545
112	Hereditary spherocytosis associated with deletion of human erythrocyte ankyrin gene on chromosome 8. Nature, 1990, 345, 736-739.	13.7	206
113	Ankyrin and spectrin associate with voltage-dependent sodium channels in brain. Nature, 1988, 333, 177-180.	13.7	424
114	Modulation of spectrinâ€“actin assembly by erythrocyte adducin. Nature, 1987, 328, 359-362.	13.7	252
115	[7] Purification of brain analogs of red blood cell membrane skeletal proteins: Ankyrin, protein 4.1 (synapsin), spectrin, and spectrin subunits. Methods in Enzymology, 1986, 134, 55-69.	0.4	70
116	Synapsin I is a microtubule-bundling protein. Nature, 1986, 319, 145-147.	13.7	145
117	Partial deficiency of erythrocyte spectrin in hereditary spherocytosis. Nature, 1985, 314, 380-383.	13.7	196
118	Synapsin I is a spectrin-binding protein immunologically related to erythrocyte protein 4.1. Nature, 1985, 315, 410-413.	13.7	203
119	Ankyrin and synapsin: Spectrin-binding proteins associated with brain membranes. Journal of Cellular Biochemistry, 1985, 29, 157-169.	1.2	26
120	[25] Proteins involved in membraneâ€”cytoskeleton association in human erythrocytes: Spectrin, ankyrin, and band 3. Methods in Enzymology, 1983, 96, 313-324.	0.4	228
121	The Molecular Basis for Membrane - Cytoskeleton Association in Human Erythrocytes. Journal of Cellular Biochemistry, 1982, 18, 49-65.	1.2	144
122	Brain spectrin, a membrane-associated protein related in structure and function to erythrocyte spectrin. Nature, 1982, 299, 126-131.	13.7	347
123	Proteolytic domains of the epidermal growth factor receptor of human placenta. Journal of Supramolecular Structure and Cellular Biochemistry, 1981, 15, 15-27.	1.4	13
124	The membrane attachment protein for spectrin is associated with band 3 in human erythrocyte membranes. Nature, 1979, 280, 468-473.	13.7	424
125	Immunoreactive forms of human erythrocyte ankyrin are present in diverse cells and tissues. Nature, 1979, 281, 597-599.	13.7	131
126	Association of spectrin with its membrane attachment site restricts lateral mobility of human erythrocyte integral membrane proteins. Journal of Supramolecular Structure, 1978, 8, 215-221.	2.3	68

#	Article	IF	Citations
127	Human erythrocyte spectrin: Phosphorylation in intact cells and purification of the 32P-labeled protein in a non-aggregated state. Life Sciences, 1977, 21, 433-440.	2.0	14
128	Irreversible activation of adenylate cyclase of toad erythrocyte plasma membrane by 5â€²-guanylylimidodiphosphate. Journal of Membrane Biology, 1976, 27, 207-232.	1.0	14
129	Mechanism of action ofVibrio cholerae enterotoxin. Journal of Membrane Biology, 1975, 22, 1-28.	1.0	57
130	Mechanism of activation of adenylate cyclase byVibrio cholerae enterotoxin. Journal of Membrane Biology, 1975, 24, 107-129.	1.0	31
131	Irreversible stimulation of adenylate cyclase activity of fat cell membranes by phosphoramidate and phosphonate analogs of GTP. Journal of Membrane Biology, 1975, 23, 249-278.	1.0	30