Patrik Verstreken

List of Publications by Year
in descending order

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Version: 2024-02-01

126	14,427	23567	21540
papers	citations	58 h-index	114 g-index

139	139	139	19430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synaptic proteostasis in Parkinson's disease. Current Opinion in Neurobiology, 2022, 72, 72-79.	4.2	7
2	The Alzheimer susceptibility gene BIN1 induces isoform-dependent neurotoxicity through early endosome defects. Acta Neuropathologica Communications, 2022, 10, 4.	5.2	29
3	Endophilin-B regulates autophagy during synapse development and neurodegeneration. Neurobiology of Disease, 2022, 163, 105595.	4.4	10
4	Do we still need animals? Surveying the role of animalâ€free models in Alzheimerâ€™s and Parkinsonâ€™s disease research. EMBO Journal, 2022, 41, e110002.	7.8	11
5	Molecule-to-Circuit Disease Mechanisms of a Synaptic SNAREopathy. Neuron, 2021, 109, 1-3.	8.1	9
6	Lowering Synaptogyrin-3 expression rescues Tau-induced memory defects and synaptic loss in the presence of microglial activation. Neuron, 2021, 109, 767-777.e5.	8.1	41
7	MAPRE2 mutations result in altered human cranial neural crest migration, underlying craniofacial malformations in CSC-KT syndrome. Scientific Reports, 2021, 11, 4976.	3.3	10
8	Torsin and NEP1R1â€CTDNEP1 phosphatase affect interphase nuclear pore complex insertion by lipidâ€dependent and lipidâ€independent mechanisms. EMBO Journal, 2021, 40, e106914.	7.8	24
9	Maturation of neuronal AD-tau pathology involves site-specific phosphorylation of cytoplasmic and synaptic tau preceding conformational change and fibril formation. Acta Neuropathologica, 2021, 141, 173-192.	7.7	35
10	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (edition	9.1	1,430
11	Synaptic tau and synaptogyrinâ€3 are promising targets to tackle tauopathies. Alzheimer's and Dementia, 2021, 17, e054187.	0.8	3
12	Presynaptic Autophagy and the Connection With Neurotransmission. Frontiers in Cell and Developmental Biology, 2021, 9, 790721.	3.7	13
13	The pathogenic mutation in tau defines the route of tau accumulation at presynapses.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e053728.	0.8	0
14	Need for speed: Super-resolving the dynamic nanoclustering of syntaxin-1 at exocytic fusion sites. Neuropharmacology, 2020, 169, 107554.	4.1	29
15	Excess Lipin enzyme activity contributes to TOR1A recessive disease and DYT-TOR1A dystonia. Brain, 2020, 143, 1746-1765.	7.6	22
16	A structure of substrate-bound Synaptojanin1 provides new insights in its mechanism and the effect of disease mutations. ELife, 2020, 9, .	6.0	11
17	TBC1D24-TLDc-related epilepsy exercise-induced dystonia: rescue by antioxidants in a disease model. Brain, 2019, 142, 2319-2335.	7.6	44
18	Mitochondria Re-set Epilepsy. Neuron, 2019, 102, 907-910.	8.1	8

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19	p13 protects against Parkinson's disease. EMBO Reports, 2018, 19, .	4.5	1
20	Synaptogyrin-3 Mediates Presynaptic Dysfunction Induced by Tau. Neuron, 2018, 97, 823-835.e8.	8.1	151
21	Reprogramming neurodegeneration in the big data era. Current Opinion in Neurobiology, 2018, 48, 167-173.	4.2	5
22	Trapping of Syntaxin1a in Presynaptic Nanoclusters by a Clinically Relevant General Anesthetic. Cell Reports, 2018, 22, 427-440.	6.4	45
23	Î±-Synuclein and Tau: Mitochondrial Kill Switches. Neuron, 2018, 97, 3-4.	8.1	9
24	In Vivo Single-Molecule Tracking at the Drosophila Presynaptic Motor Nerve Terminal. Journal of Visualized Experiments, 2018, , .	0.3	10
25	Hsp90 Mediates Membrane Deformation and Exosome Release. Molecular Cell, 2018, 71, 689-702.e9.	9.7	103
26	Deficiency of parkin and PINK1 impairs age-dependent mitophagy in Drosophila. ELife, 2018, 7, .	6.0	167
27	Parkinson's disease: convergence on synaptic homeostasis. EMBO Journal, 2018, 37, .	7.8	76
28	Imaging mitophagy in the fruit fly. Autophagy, 2018, 14, 1656-1657.	9.1	9
29	Assaying Mutants of Clathrin-Mediated Endocytosis in the Fly Eye. Methods in Molecular Biology, 2018, 1847, 109-119.	0.9	2
30	ER Lipid Defects in Neuropeptidergic Neurons Impair Sleep Patterns in Parkinsonâ€™s Disease. Neuron, 2018, 98, 1155-1169.e6.	8.1	77
31	A Single-Cell Transcriptome Atlas of the Aging Drosophila Brain. Cell, 2018, 174, 982-998.e20.	28.9	616
32	Purification of Soluble Recombinant Human Tau Protein from Bacteria Using Double-tag Affinity Purification. Bio-protocol, 2018, 8, e3043.	0.4	1
33	Cardiolipin promotes electron transport between ubiquinone and complex I to rescue PINK1 deficiency. Journal of Cell Biology, 2017, 216, 695-708.	5.2	48
34	Presynaptic protein homeostasis and neuronal function. Current Opinion in Genetics and Development, 2017, 44, 38-46.	3.3	56
35	EndoA/Endophilin-A creates docking stations for autophagic proteins at synapses. Autophagy, 2017, 13, 971-972.	9.1	32
36	Tau association with synaptic vesicles causes presynaptic dysfunction. Nature Communications, 2017, 8, 15295.	12.8	289

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37	Autophagy in the presynaptic compartment in health and disease. Journal of Cell Biology, 2017, 216, 1895-1906.	5.2	148
38	The <scp>SAC</scp>1 domain in synaptojanin is required forÂautophagosome maturation at presynapticÂterminals. EMBO Journal, 2017, 36, 1392-1411.	7.8	174
39	Neurons eat glutamate to stay alive. Journal of Cell Biology, 2017, 216, 863-865.	5.2	15
40	Dual loss of succinate dehydrogenase (SDH) and complex I activity is necessary to recapitulate the metabolic phenotype of SDH mutant tumors. Metabolic Engineering, 2017, 43, 187-197.	7.0	64
41	In vivo single-molecule imaging of syntaxin1A reveals polyphosphoinositide- and activity-dependent trapping in presynaptic nanoclusters. Nature Communications, 2016, 7, 13660.	12.8	55
42	Membrane Lipids in Presynaptic Function and Disease. Neuron, 2016, 90, 11-25.	8.1	158
43	Skywalker-TBC1D24 has a lipid-binding pocket mutated in epilepsy and required for synaptic function. Nature Structural and Molecular Biology, 2016, 23, 965-973.	8.2	55
44	A LRRK2-Dependent EndophilinA Phosphoswitch Is Critical for Macroautophagy at Presynaptic Terminals. Neuron, 2016, 92, 829-844.	8.1	202
45	Endophilin-A Deficiency Induces the Foxo3a-Fbxo32 Network in the Brain and Causes Dysregulation of Autophagy and the Ubiquitin-Proteasome System. Cell Reports, 2016, 17, 1071-1086.	6.4	100
46	Mitochondrial uncouplers inhibit clathrin-mediated endocytosis largely through cytoplasmic acidification. Nature Communications, 2016, 7, 11710.	12.8	98
47	Torsins Are Essential Regulators of Cellular Lipid Metabolism. Developmental Cell, 2016, 38, 235-247.	7.0	88
48	Loss of Bin1 Promotes the Propagation of Tau Pathology. Cell Reports, 2016, 17, 931-940.	6.4	206
49	TBC1D24 genotypeâ€“phenotype correlation. Neurology, 2016, 87, 77-85.	1.1	97
50	De novo loss-of-function mutations in WAC cause a recognizable intellectual disability syndrome and learning deficits in Drosophila. European Journal of Human Genetics, 2016, 24, 1145-1153.	2.8	34
51	Shawn, theDrosophilaHomolog of SLC25A39/40, Is a Mitochondrial Carrier That Promotes Neuronal Survival. Journal of Neuroscience, 2016, 36, 1914-1929.	3.6	33
52	LRRK2 functions in synaptic vesicle endocytosis through a kinase-dependent mechanism. Journal of Cell Science, 2015, 128, 541â€“52.	2.0	134
53	Stimulation of electron transport as potential novel therapy in Parkinson's disease with mitochondrial dysfunction. Biochemical Society Transactions, 2015, 43, 275-279.	3.4	10
54	Synaptic Contacts Enhance Cell-to-Cell Tau Pathology Propagation. Cell Reports, 2015, 11, 1176-1183.	6.4	206

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55	Flies with Parkinson's disease. Experimental Neurology, 2015, 274, 42-51.	4.1	29
56	Conditional depletion of intellectual disability and Parkinsonism candidate gene ATP6AP2 in fly and mouse induces cognitive impairment and neurodegeneration. Human Molecular Genetics, 2015, 24, 6736-6755.	2.9	64
57	Hsc70-4 Deforms Membranes to Promote Synaptic Protein Turnover by Endosomal Microautophagy. Neuron, 2015, 88, 735-748.	8.1	140
58	Therapeutic strategies in Parkinson's disease: what we have learned from animal models. Annals of the New York Academy of Sciences, 2015, 1338, 16-37.	3.8	27
59	PIWIL1 protein power targets tau therapy. Nature Neuroscience, 2014, 17, 334-335.	14.8	11
60	Reduced synaptic vesicle protein degradation at lysosomes curbs TBC1D24/sky-induced neurodegeneration. Journal of Cell Biology, 2014, 207, 453-462.	5.2	78
61	Fast and EfficientDrosophila melanogasterGene Knock-Ins Using MiMIC Transposons. G3: Genes, Genomes, Genetics, 2014, 4, 2381-2387.	1.8	17
62	PINK1 Loss-of-Function Mutations Affect Mitochondrial Complex I Activity via NdufA10 Ubiquinone Uncoupling. Science, 2014, 344, 203-207.	12.6	300
63	Ultrafast Synaptic Endocytosis Cycles to the Center Stage. Developmental Cell, 2014, 28, 5-6.	7.0	4
64	HDAC6 Is a Bruchpilot Deacetylase that Facilitates Neurotransmitter Release. Cell Reports, 2014, 8, 94-102.	6.4	38
65	Dynamin photoinactivation blocks Clathrin and Î±-adaptin recruitment and induces bulk membrane retrieval. Journal of Cell Biology, 2014, 204, 1141-1156.	5.2	38
66	Chronological requirements of TDP-43 function in synaptic organization and locomotive control. Neurobiology of Disease, 2014, 71, 95-109.	4.4	36
67	The deubiquitinase USP15 antagonizes Parkin-mediated mitochondrial ubiquitination and mitophagy. Human Molecular Genetics, 2014, 23, 5227-5242.	2.9	264
68	Chaperoning the synapseâ€"NMNAT protects Bruchpilot from crashing. EMBO Reports, 2013, 14, 5-6.	4.5	2
69	Development of an enzyme-linked immunosorbent assay for detection of cellular and in vivo LRRK2 S935 phosphorylation. Journal of Pharmaceutical and Biomedical Analysis, 2013, 76, 49-58.	2.8	21
70	Synaptic PI(3,4,5)P3 Is Required for Syntaxin1A Clustering and Neurotransmitter Release. Neuron, 2013, 77, 1097-1108.	8.1	91
71	Mutations in the Intellectual Disability Gene Ube2a Cause Neuronal Dysfunction and Impair Parkin-Dependent Mitophagy. Molecular Cell, 2013, 50, 831-843.	9.7	80
72	Aconitase Causes Iron Toxicity in Drosophila pink1 Mutants. PLoS Genetics, 2013, 9, e1003478.	3.5	63

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73	Human Intellectual Disability Genes Form Conserved Functional Modules in Drosophila. PLoS Genetics, 2013, 9, e1003911.	3.5	39
74	CEP89 is required for mitochondrial metabolism and neuronal function in man and fly. Human Molecular Genetics, 2013, 22, 3138-3151.	2.9	38
75	New Approaches for Studying Synaptic Development, Function, and Plasticity UsingDrosophilaas a Model System. Journal of Neuroscience, 2013, 33, 17560-17568.	3.6	28
76	Near-Infrared 808 nm Light Boosts Complex IV-Dependent Respiration and Rescues a Parkinson-Related pink1 Model. PLoS ONE, 2013, 8, e78562.	2.5	39
77	Ubiquitin Ligase HUWE1 Regulates Axon Branching through the Wnt/Î²-Catenin Pathway in a Drosophila Model for Intellectual Disability. PLoS ONE, 2013, 8, e81791.	2.5	23
78	Alternative oxidase rescues mitochondria-mediated dopaminergic cell loss in Drosophila. Human Molecular Genetics, 2012, 21, 2698-2712.	2.9	51
79	The Yeast Complex I Equivalent NADH Dehydrogenase Rescues pink1 Mutants. PLoS Genetics, 2012, 8, e1002456.	3.5	86
80	Sub-diffraction imaging on standard microscopes through Photobleaching Microscopy with non-linear Processing. Journal of Cell Science, 2012, 125, 2257-66.	2.0	24
81	Vitamin K ₂ Is a Mitochondrial Electron Carrier That Rescues Pink1 Deficiency. Science, 2012, 336, 1306-1310.	12.6	304
82	LRRK2 Controls an EndoA Phosphorylation Cycle in Synaptic Endocytosis. Neuron, 2012, 75, 1008-1021.	8.1	312
83	Phosphoinositides at the Neuromuscular Junction of Drosophila melanogaster: A Genetic Approach. Methods in Cell Biology, 2012, 108, 227-247.	1.1	5
84	Drosophila rugoseIs a Functional Homolog of MammalianNeurobeachinand Affects Synaptic Architecture, Brain Morphology, and Associative Learning. Journal of Neuroscience, 2012, 32, 15193-15204.	3.6	34
85	Synaptic vesicle trafficking and Parkinson's disease. Developmental Neurobiology, 2012, 72, 134-144.	3.0	83
86	Studying Synaptic Transmission at the Drosophila Neuromuscular Junction Using Advanced FM 1-43 Technology. Neuromethods, 2012, , 127-141.	0.3	0
87	Loss of Skywalker Reveals Synaptic Endosomes as Sorting Stations for Synaptic Vesicle Proteins. Cell, 2011, 145, 117-132.	28.9	445
88	ELP3 Controls Active Zone Morphology by Acetylating the ELKS Family Member Bruchpilot. Neuron, 2011, 72, 776-788.	8.1	94
89	FlAsH-FALI Inactivation of a Protein at the Third-Instar Neuromuscular Junction: Figure 1.. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot5597.	0.3	5
90	Construction and Expression of Tetracysteine-Tagged Proteins for FlAsH-FALI. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot5596.	0.3	2

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91	Neurons Generated from APP/APLP1/APLP2 Triple Knockout Embryonic Stem Cells Behave Normally in Vitro and in Vivo: Lack of Evidence for a Cell Autonomous Role of the Amyloid Precursor Protein in Neuronal Differentiation. Stem Cells, 2010, 28, 399-406.	3.2	35
92	Synaptic mitochondria in synaptic transmission and organization of vesicle pools in health and disease. Frontiers in Synaptic Neuroscience, 2010, 2, 139.	2.5	206
93	Impaired Autonomic Regulation of Resistance Arteries in Mice With Low Vascular Endothelial Growth Factor or Upon Vascular Endothelial Growth Factor Trap Delivery. Circulation, 2010, 122, 273-281.	1.6	37
94	Neurologic Dysfunction and Male Infertility in Drosophila porin Mutants. Journal of Biological Chemistry, 2010, 285, 11143-11153.	3.4	32
95	WASP is activated by phosphatidylinositol-4,5-bisphosphate to restrict synapse growth in a pathway parallel to bone morphogenetic protein signaling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17379-17384.	7.1	325
96	Variants of the elongator protein 3 (ELP3) gene are associated with motor neuron degeneration. Human Molecular Genetics, 2009, 18, 472-481.	2.9	512
97	Parkinson's disease mutations in PINK1 result in decreased Complex I activity and deficient synaptic function. EMBO Molecular Medicine, 2009, 1, 99-111.	6.9	360
98	Tweek, an Evolutionarily Conserved Protein, Is Required for Synaptic Vesicle Recycling. Neuron, 2009, 63, 203-215.	8.1	104
99	Conditional Mutagenesis in Drosophila. Science, 2009, 324, 54-54.	12.6	51
100	Suppression of Neurodegeneration and Increased Neurotransmission Caused by Expanded Full-Length Huntingtin Accumulating in the Cytoplasm. Neuron, 2008, 57, 27-40.	8.1	143
101	Inactivation of clathrin heavy chain inhibits synaptic recycling but allows bulk membrane uptake. Journal of Cell Biology, 2008, 182, 1007-1016.	5.2	121
102	Recombineering-mediated tagging of Drosophila genomic constructs for in vivo localization and acute protein inactivation. Nucleic Acids Research, 2008, 36, e114-e114.	14.5	91
103	straightjacket is required for the synaptic stabilization of cacophony, a voltage-gated calcium channel Î±1 subunit. Journal of Cell Biology, 2008, 181, 157-170.	5.2	61
104	FM 1-43 Labeling of Synaptic Vesicle Pools at the Drosophila Neuromuscular Junction. Methods in Molecular Biology, 2008, 440, 349-369.	0.9	100
105	Synaptic Vesicle Endocytosis. , 2008, , 207-238.		0
106	Huntingtin-interacting protein 14, a palmitoyl transferase required for exocytosis and targeting of CSP to synaptic vesicles. Journal of Cell Biology, 2007, 179, 1481-1496.	5.2	97
107	Mitochondria at the Synapse. Neuroscientist, 2006, 12, 291-299.	3.5	180
108	Activity-Independent Prespecification of Synaptic Partners in the Visual Map of Drosophila. Current Biology, 2006, 16, 1835-1843.	3.9	96

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109	Drosophila NMNAT Maintains Neural Integrity Independent of Its NAD Synthesis Activity. PLoS Biology, 2006, 4, e416.	5.6	160
110	Aberrant lysosomal carbohydrate storage accompanies endocytic defects and neurodegeneration inDrosophila benchwarmer. Journal of Cell Biology, 2005, 170, 127-139.	5.2	128
111	The v-ATPase V 0 Subunit a1 Is Required for a Late Step in Synaptic Vesicle Exocytosis in Drosophila. Cell, 2005, 121, 607-620.	28.9	297
112	Mutations in Drosophila sec15 Reveal a Function in Neuronal Targeting for a Subset of Exocyst Components. Neuron, 2005, 46, 219-232.	8.1	129
113	Synaptic Mitochondria Are Critical for Mobilization of Reserve Pool Vesicles at Drosophila Neuromuscular Junctions. Neuron, 2005, 47, 365-378.	8.1	734
114	Drosophila parkinmutants have decreased mass and cell size and increased sensitivity to oxygen radical stress. Development (Cambridge), 2004, 131, 2183-2194.	2.5	387
115	Dap160/Intersectin Acts as a Stabilizing Scaffold Required for Synaptic Development and Vesicle Endocytosis. Neuron, 2004, 43, 193-205.	8.1	225
116	Synaptojanin Is Recruited by Endophilin to Promote Synaptic Vesicle Uncoating. Neuron, 2003, 40, 733-748.	8.1	376
117	Mapping Drosophila mutations with molecularly defined P element insertions. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10860-10865.	7.1	89
118	Endophilin Promotes a Late Step in Endocytosis at Glial Invaginations inDrosophilaPhotoreceptor Terminals. Journal of Neuroscience, 2003, 23, 10732-10744.	3.6	86
119	Metabolic Channeling of Carbamoyl Phosphate, a Thermolabile Intermediate. Journal of Biological Chemistry, 2002, 277, 18517-18522.	3.4	20
120	Shar-pei mediates cell proliferation arrest during imaginal disc growth inDrosophila. Development (Cambridge), 2002, 129, 5719-5730.	2.5	302
121	Endophilin Mutations Block Clathrin-Mediated Endocytosis but Not Neurotransmitter Release. Cell, 2002, 109, 101-112.	28.9	305
122	Drosophila Fragile X Protein, DFXR, Regulates Neuronal Morphology and Function in the Brain. Neuron, 2002, 34, 961-972.	8.1	215
123	Meaningless minis? Mechanisms of neurotransmitter-receptor clustering. Trends in Neurosciences, 2002, 25, 383-385.	8.6	15
124	Synaptic vesicle retrieval: still time for a kiss. Nature Cell Biology, 2002, 4, E245-E248.	10.3	15
125	NEUROSCIENCE: The Meaning of a Mini. Science, 2001, 293, 443-444.	12.6	6
126	A Genome-Wide Search for Synaptic Vesicle Cycle Proteins in Drosophila. Neuron, 2000, 26, 45-50.	8.1	105