

Vladimir L Buchman

List of Publications by Year in descending order

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111
papers

7,803
citations

66234

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118
all docs

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docs citations

118
times ranked

8710
citing authors

#	ARTICLE	IF	CITATIONS
1	ALS-linked cytoplasmic FUS assemblies are compositionally different from physiological stress granules and sequester hnRNPA3, a novel modifier of FUS toxicity. <i>Neurobiology of Disease</i> , 2022, 162, 105585.	2.1	19
2	Synaptic vesicle binding of $\hat{1}\pm$ -synuclein is modulated by $\hat{1}^2$ - and $\hat{1}^3$ -synucleins. <i>Cell Reports</i> , 2022, 39, 110675.	2.9	25
3	In a search for efficient treatment for amyotrophic lateral sclerosis: Old drugs for new approaches. <i>Medicinal Research Reviews</i> , 2021, 41, 2804-2822.	5.0	13
4	A bioisostere of Dimebon/Latrepidine delays the onset and slows the progression of pathology in FUS transgenic mice. <i>CNS Neuroscience and Therapeutics</i> , 2021, 27, 765-775.	1.9	4
5	Triple-Knockout, Synuclein-Free Mice Display Compromised Lipid Pattern. <i>Molecules</i> , 2021, 26, 3078.	1.7	2
6	Kinetics of alpha-synuclein depletion in three brain regions following conditional pan-neuronal inactivation of the encoding gene (<i>Snca</i>) by tamoxifen-induced Cre-recombination in adult mice. <i>Transgenic Research</i> , 2021, 30, 867-873.	1.3	2
7	$\hat{1}^2$ -synuclein potentiates synaptic vesicle dopamine uptake and rescues dopaminergic neurons from MPTP-induced death in the absence of other synucleins. <i>Journal of Biological Chemistry</i> , 2021, 297, 101375.	1.6	10
8	Toward a Disease-Modifying Therapy of Alpha-Synucleinopathies: New Molecules and New Approaches Came into the Limelight. <i>Molecules</i> , 2021, 26, 7351.	1.7	6
9	Synuclein Deficiency Results in Age-Related Respiratory and Cardiovascular Dysfunctions in Mice. <i>Brain Sciences</i> , 2020, 10, 583.	1.1	4
10	Reduced complement of dopaminergic neurons in the substantia nigra pars compacta of mice with a constitutive $\hat{1}$ -genetic knockout of alpha-synuclein. <i>Molecular Brain</i> , 2020, 13, 75.	1.3	6
11	Frameshift peptides alter the properties of truncated FUS proteins in ALS-FUS. <i>Molecular Brain</i> , 2020, 13, 77.	1.3	8
12	Alterations in the nigrostriatal system following conditional inactivation of $\hat{1}\pm$ -synuclein in neurons of adult and aging mice. <i>Neurobiology of Aging</i> , 2020, 91, 76-87.	1.5	24
13	Long non-coding RNA <i>Neat1</i> regulates adaptive behavioural response to stress in mice. <i>Translational Psychiatry</i> , 2020, 10, 171.	2.4	38
14	Low Level of Expression of C-Terminally Truncated Human FUS Causes Extensive Changes in the Spinal Cord Transcriptome of Asymptomatic Transgenic Mice. <i>Neurochemical Research</i> , 2020, 45, 1168-1179.	1.6	3
15	Behavioural impairments in mice of a novel FUS transgenic line recapitulate features of frontotemporal lobar degeneration. <i>Genes, Brain and Behavior</i> , 2019, 18, e12607.	1.1	10
16	CRISPR/Cas9-generated mouse model of Duchenne muscular dystrophy recapitulating a newly identified large 430 kb deletion in the human <i>DMD</i> gene. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	1.2	28
17	Stem cells in human breast milk. <i>Human Cell</i> , 2019, 32, 223-230.	1.2	53
18	Antiviral Immune Response as a Trigger of FUS Proteinopathy in Amyotrophic Lateral Sclerosis. <i>Cell Reports</i> , 2019, 29, 4496-4508.e4.	2.9	30

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19	ALS-linked FUS mutations confer loss and gain of function in the nucleus by promoting excessive formation of dysfunctional paraspeckles. <i>Acta Neuropathologica Communications</i> , 2019, 7, 7.	2.4	103
20	Protective paraspeckle hyper-assembly downstream of TDP-43 loss of function in amyotrophic lateral sclerosis. <i>Molecular Neurodegeneration</i> , 2018, 13, 30.	4.4	70
21	Modulation of p-eIF2 α cellular levels and stress granule assembly/disassembly by trehalose. <i>Scientific Reports</i> , 2017, 7, 44088.	1.6	22
22	Chronically stressed or stress-preconditioned neurons fail to maintain stress granule assembly. <i>Cell Death and Disease</i> , 2017, 8, e2788-e2788.	2.7	38
23	Generation of mouse lines with conditionally or constitutively inactivated Snca gene and Rosa26-stop-lacZ reporter located in cis on the mouse chromosome 6. <i>Transgenic Research</i> , 2017, 26, 301-307.	1.3	6
24	Monomeric Alpha-Synuclein Exerts a Physiological Role on Brain ATP Synthase. <i>Journal of Neuroscience</i> , 2016, 36, 10510-10521.	1.7	142
25	Combinational losses of synucleins reveal their differential requirements for compensating age-dependent alterations in motor behavior and dopamine metabolism. <i>Neurobiology of Aging</i> , 2016, 46, 107-112.	1.5	44
26	A Novel Interaction of the Catalytic Subunit of Protein Phosphatase 2A with the Adaptor Protein CIN85 Suppresses Phosphatase Activity and Facilitates Platelet Outside-in α IIb β 3 Integrin Signaling. <i>Journal of Biological Chemistry</i> , 2016, 291, 17360-17368.	1.6	3
27	Induction of de novo α -synuclein fibrillization in a neuronal model for Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E912-21.	3.3	95
28	Early lethality and neuronal proteinopathy in mice expressing cytoplasm-targeted FUS that lacks the RNA recognition motif. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2015, 16, 402-409.	1.1	17
29	Calcium-responsive transactivator (CREST) protein shares a set of structural and functional traits with other proteins associated with amyotrophic lateral sclerosis. <i>Molecular Neurodegeneration</i> , 2015, 10, 20.	4.4	25
30	Gamma α -synuclein pathology in amyotrophic lateral sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 29-37.	1.7	21
31	Control of ventricular excitability by neurons of the dorsal motor nucleus of the vagus nerve. <i>Heart Rhythm</i> , 2015, 12, 2285-2293.	0.3	82
32	C9ORF72 hexanucleotide repeat expansion in ALS patients from the Central European Russia population. <i>Neurobiology of Aging</i> , 2015, 36, 2908.e5-2908.e9.	1.5	12
33	Hunk/Mak-v is a negative regulator of intestinal cell proliferation. <i>BMC Cancer</i> , 2015, 15, 110.	1.1	15
34	A novel resource for studying function and dysfunction of α -synuclein: mouse lines for modulation of endogenous Snca gene expression. <i>Scientific Reports</i> , 2015, 5, 16615.	1.6	17
35	Multistep process of FUS aggregation in the cell cytoplasm involves RNA-dependent and RNA-independent mechanisms. <i>Human Molecular Genetics</i> , 2014, 23, 5211-5226.	1.4	80
36	Compromised paraspeckle formation as a pathogenic factor in FUSopathies. <i>Human Molecular Genetics</i> , 2014, 23, 2298-2312.	1.4	112

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37	Simultaneous and independent detection of C9ORF72 alleles with low and high number of GGGGCC repeats using an optimised protocol of Southern blot hybridisation. <i>Molecular Neurodegeneration</i> , 2013, 8, 12.	4.4	52
38	Endogenous alpha-synuclein influences the number of dopaminergic neurons in mouse substantia nigra. <i>Experimental Neurology</i> , 2013, 248, 541-545.	2.0	60
39	Chronic Administration of Dimebon does not Ameliorate Amyloid- β^2 Pathology in 5xFAD Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2013, 36, 589-596.	1.2	26
40	Residual association at C9orf72 suggests an alternative amyotrophic lateral sclerosis-causing hexanucleotide repeat. <i>Neurobiology of Aging</i> , 2013, 34, 2234.e1-2234.e7.	1.5	22
41	Fused in Sarcoma (FUS) Protein Lacking Nuclear Localization Signal (NLS) and Major RNA Binding Motifs Triggers Proteinopathy and Severe Motor Phenotype in Transgenic Mice. <i>Journal of Biological Chemistry</i> , 2013, 288, 25266-25274.	1.6	95
42	Recruitment into stress granules prevents irreversible aggregation of FUS protein mislocalized to the cytoplasm. <i>Cell Cycle</i> , 2013, 12, 3383-3391.	1.3	55
43	Chronic Administration of Dimebon Ameliorates Pathology in TauP301S Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2013, 33, 1041-1049.	1.2	48
44	<i>C9ORF72</i> transcription in a frontotemporal dementia case with two expanded alleles. <i>Neurology</i> , 2013, 81, 1719-1721.	1.5	25
45	β^3 -synuclein is a novel player in the control of body lipid metabolism. <i>Adipocyte</i> , 2013, 2, 276-280.	1.3	9
46	Contrasting Effects of β^1 -Synuclein and β^3 -Synuclein on the Phenotype of Cysteine String Protein β^1 (CSP β^1) Null Mutant Mice Suggest Distinct Function of these Proteins in Neuronal Synapses. <i>Journal of Biological Chemistry</i> , 2012, 287, 44471-44477.	1.6	24
47	Increased lipolysis and altered lipid homeostasis protect β^1 -synuclein-null mutant mice from diet-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20943-20948.	3.3	26
48	Increased levels of the HER1 adaptor protein Ruk I /CIN85 contribute to breast cancer malignancy. <i>Carcinogenesis</i> , 2012, 33, 1976-1984.	1.3	31
49	Dimebon Slows Progression of Proteinopathy in β^3 -Synuclein Transgenic Mice. <i>Neurotoxicity Research</i> , 2012, 22, 33-42.	1.3	43
50	Deletion of alpha β^1 -synuclein decreases impulsivity in mice. <i>Genes, Brain and Behavior</i> , 2012, 11, 137-146.	1.1	31
51	Selective pattern of motor system damage in gamma-synuclein transgenic mice mirrors the respective pathology in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2012, 48, 124-131.	2.1	32
52	Identification of Nedd4 E3 Ubiquitin Ligase as a Binding Partner and Regulator of MAK-V Protein Kinase. <i>PLoS ONE</i> , 2012, 7, e39505.	1.1	5
53	Lipid Classes and Fatty Acid Patterns are Altered in the Brain of β^1 -Synuclein Null Mutant Mice. <i>Lipids</i> , 2011, 46, 121-130.	0.7	14
54	Functional Alterations to the Nigrostriatal System in Mice Lacking All Three Members of the Synuclein Family. <i>Journal of Neuroscience</i> , 2011, 31, 7264-7274.	1.7	158

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55	Dimebon Does Not Ameliorate Pathological Changes Caused by Expression of Truncated (1 ^Δ 20) Human Alpha-Synuclein in Dopaminergic Neurons of Transgenic Mice. <i>Neurodegenerative Diseases</i> , 2011, 8, 430-437.	0.8	12
56	Myelination transition zone astrocytes are constitutively phagocytic and have synuclein dependent reactivity in glaucoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1176-1181.	3.3	189
57	Emerging Roles of Ruk/CIN85 in Vesicle-Mediated Transport, Adhesion, Migration and Malignancy. <i>Traffic</i> , 2010, 11, 721-731.	1.3	50
58	Pro-survival activity of the MAK-V protein kinase in PC12 cells. <i>Cell Cycle</i> , 2010, 9, 4248-4249.	1.3	6
59	1 ^Δ 20-Synuclein triple knockout mice reveal age-dependent neuronal dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19573-19578.	3.3	261
60	1 ^Δ -Synuclein Promotes SNARE-Complex Assembly in Vivo and in Vitro. <i>Science</i> , 2010, 329, 1663-1667.	6.0	1,476
61	Lack of involvement of alpha-synuclein in unconditioned anxiety in mice. <i>Behavioural Brain Research</i> , 2010, 209, 234-240.	1.2	30
62	Absence of 1 ^Δ -synuclein affects dopamine metabolism and synaptic markers in the striatum of aging mice. <i>Neurobiology of Aging</i> , 2010, 31, 796-804.	1.5	106
63	1 ^Δ -Synuclein and dopamine at the crossroads of Parkinson's disease. <i>Trends in Neurosciences</i> , 2010, 33, 559-568.	4.2	233
64	Differential Expression of Sarcoplasmic and Myofibrillar Proteins of Rat Soleus Muscle during Denervation Atrophy. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 1748-1756.	0.6	32
65	Methylene blue and dimebon inhibit aggregation of TDP ^Δ 43 in cellular models. <i>FEBS Letters</i> , 2009, 583, 2419-2424.	1.3	102
66	Intersectin 1 forms a complex with adaptor protein Ruk/CIN85 in vivo independently of epidermal growth factor stimulation. <i>Cellular Signalling</i> , 2009, 21, 753-759.	1.7	27
67	Hindering of proteinopathy-induced neurodegeneration as a new mechanism of action for neuroprotectors and cognition enhancing compounds. <i>Doklady Biochemistry and Biophysics</i> , 2009, 428, 235-238.	0.3	24
68	1 ^Δ -Synucleinopathy: neurodegeneration associated with overexpression of the mouse protein. <i>Human Molecular Genetics</i> , 2009, 18, 1779-1794.	1.4	101
69	Modulation of 1 ^Δ -synuclein expression in transgenic animals for modelling synucleinopathies "is the juice worth the squeeze?". <i>Neurotoxicity Research</i> , 2008, 14, 329-341.	1.3	25
70	Localization of Synucleins in the Mammalian Cochlea. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2008, 9, 452-463.	0.9	19
71	Adaptor Protein Ruk/CIN85 is Associated with a Subset of COPI-Coated Membranes of the Golgi Complex. <i>Traffic</i> , 2008, 9, 798-812.	1.3	20
72	Increased striatal dopamine release and hyperdopaminergic-like behaviour in mice lacking both alpha ^Δ -synuclein and gamma ^Δ -synuclein. <i>European Journal of Neuroscience</i> , 2008, 27, 947-957.	1.2	138

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73	Î³-Synuclein Is an Adipocyte-Neuron Gene Coordinately Expressed with Leptin and Increased in Human Obesity. <i>Journal of Nutrition</i> , 2008, 138, 841-848.	1.3	23
74	HD-PTP and Alix share some membrane-traffic related proteins that interact with their Bro1 domains or proline-rich regions. <i>Archives of Biochemistry and Biophysics</i> , 2007, 457, 142-149.	1.4	58
75	Whole genome expression analyses of single- and double-knock-out mice implicate partially overlapping functions of alpha- and gamma-synuclein. <i>Neurogenetics</i> , 2007, 8, 71-81.	0.7	30
76	Autoantibodies to alpha-synuclein in inherited Parkinson's disease. <i>Journal of Neurochemistry</i> , 2006, 101, 749-756.	2.1	161
77	Peripheral Sensory Neurons Survive in the Absence of Î±- and Î³-Synucleins. <i>Journal of Molecular Neuroscience</i> , 2005, 25, 157-164.	1.1	17
78	Protein Aggregation in Retinal Cells and Approaches to Cell Protection. <i>Cellular and Molecular Neurobiology</i> , 2005, 25, 1051-1066.	1.7	61
79	Developmental loss and resistance to MPTP toxicity of dopaminergic neurones in substantia nigra pars compacta of gamma-synuclein, alpha-synuclein and double alpha/gamma-synuclein null mutant mice. <i>Journal of Neurochemistry</i> , 2004, 89, 1126-1136.	2.1	135
80	Cloning and developmental expression of MARK/Par-1/MELK-related protein kinase xMAK-V in <i>Xenopus laevis</i> . <i>Development Genes and Evolution</i> , 2004, 214, 139-143.	0.4	7
81	Multiple Domains of Ruk/CIN85/SETA/CD2BP3 are Involved in Interaction with p85Î± Regulatory Subunit of PI 3-kinase. <i>Journal of Molecular Biology</i> , 2004, 343, 1135-1146.	2.0	22
82	Parkinson's disease Î±-synuclein mutations exhibit defective axonal transport in cultured neurons. <i>Journal of Cell Science</i> , 2004, 117, 1017-1024.	1.2	163
83	Part II: Î±-synuclein and its molecular pathophysiological role in neurodegenerative disease. <i>Neuropharmacology</i> , 2003, 45, 14-44.	2.0	254
84	Neurons Expressing the Highest Levels of Î³-Synuclein Are Unaffected by Targeted Inactivation of the Gene. <i>Molecular and Cellular Biology</i> , 2003, 23, 8233-8245.	1.1	65
85	Expression pattern of dd4, a sole member of the d4 family of transcription factors in <i>Drosophila melanogaster</i> . <i>Mechanisms of Development</i> , 2002, 114, 119-123.	1.7	15
86	Organization of the mouse Ruk locus and expression of isoforms in mouse tissues. <i>Gene</i> , 2002, 295, 13-17.	1.0	38
87	Ruk is ubiquitinated but not degraded by the proteasome. <i>FEBS Journal</i> , 2002, 269, 3402-3408.	0.2	26
88	Role of STAT3 and PI 3-Kinase/Akt in Mediating the Survival Actions of Cytokines on Sensory Neurons. <i>Molecular and Cellular Neurosciences</i> , 2001, 18, 270-282.	1.0	135
89	Cerd4, third member of the d4 gene family: expression and organization of genomic locus. <i>Mammalian Genome</i> , 2001, 12, 862-866.	1.0	17
90	Role of PI 3-kinase, Akt and Bcl-2-related proteins in sustaining the survival of neurotrophic factor-independent adult sympathetic neurons. <i>Journal of Cell Biology</i> , 2001, 154, 995-1006.	2.3	109

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91	Induction of neuronal death by α -synuclein. <i>European Journal of Neuroscience</i> , 2000, 12, 3073-3077.	1.2	151
92	Negative regulation of PI 3-kinase by Ruk, a novel adaptor protein. <i>EMBO Journal</i> , 2000, 19, 4015-4025.	3.5	123
93	Structure and expression of two members of the d4 gene family in mouse. <i>Mammalian Genome</i> , 2000, 11, 72-74.	1.0	11
94	Chicken synucleins: cloning and expression in the developing embryo. <i>Mechanisms of Development</i> , 2000, 99, 195-198.	1.7	19
95	Mutations in the gene encoding human persyn are not associated with amyotrophic lateral sclerosis or familial Parkinson's disease. <i>Neuroscience Letters</i> , 1999, 274, 21-24.	1.0	16
96	Developmentally Regulated Expression of Persyn, a Member of the Synuclein Family, in Skin. <i>Experimental Cell Research</i> , 1999, 246, 308-311.	1.2	28
97	Genomic Structure and Chromosomal Localization of the Mouse Persyn Gene. <i>Genomics</i> , 1999, 56, 224-227.	1.3	4
98	Persyn, a member of the synuclein family, influences neurofilament network integrity. <i>Nature Neuroscience</i> , 1998, 1, 101-103.	7.1	107
99	GFR α -4 and the tyrosine kinase Ret form a functional receptor complex for persephin. <i>Current Biology</i> , 1998, 8, 1019-1022.	1.8	143
100	GFR α -4, a New GDNF Family Receptor. <i>Molecular and Cellular Neurosciences</i> , 1998, 11, 117-126.	1.0	89
101	Persyn, a Member of the Synuclein Family, Has a Distinct Pattern of Expression in the Developing Nervous System. <i>Journal of Neuroscience</i> , 1998, 18, 9335-9341.	1.7	148
102	TrkB Variants with Deletions in the Leucine-rich Motifs of the Extracellular Domain. <i>Journal of Biological Chemistry</i> , 1997, 272, 13019-13025.	1.6	55
103	Molecular cloning and expression pattern of rpr-1, a resiniferatoxin-binding, phosphotriesterase-related protein, expressed in rat kidney tubules 1. <i>FEBS Letters</i> , 1997, 410, 378-382.	1.3	9
104	Rat and chicken s-rex/NSP mRNA: nucleotide sequence of main transcripts and expression of splice variants in rat tissues. <i>Gene</i> , 1997, 184, 205-210.	1.0	20
105	Neurturin responsiveness requires a GPI-linked receptor and the Ret receptor tyrosine kinase. <i>Nature</i> , 1997, 387, 721-724.	13.7	281
106	Intracellular Compartmentalization of Two Differentially Spliced s-rex/NSP mRNAs in Neurons. <i>Molecular and Cellular Neurosciences</i> , 1996, 7, 289-303.	1.0	27
107	The d4 Gene Family in the Human Genome. <i>Genomics</i> , 1996, 36, 174-177.	1.3	25
108	Subtractive cDNA Cloning from Limited Amounts of Biological Material. <i>Analytical Biochemistry</i> , 1996, 237, 155-157.	1.1	2

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109	GDNF is an age-specific survival factor for sensory and autonomic neurons. <i>Neuron</i> , 1995, 15, 821-828.	3.8	385
110	Differential splicing creates a diversity of transcripts from a neurospecific developmentally regulated gene encoding a protein with new zinc-finger motifs. <i>Nucleic Acids Research</i> , 1992, 20, 5579-5585.	6.5	25
111	Antiviral Immune Response as a Trigger of FUS Proteinopathy in Amyotrophic Lateral Sclerosis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0