

Clive R Bramham

List of Publications by Year in descending order

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105
papers

10,415
citations

41344

49
h-index

34986

98
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118
all docs

118
docs citations

118
times ranked

11100
citing authors

#	ARTICLE	IF	CITATIONS
1	BDNF function in adult synaptic plasticity: The synaptic consolidation hypothesis. <i>Progress in Neurobiology</i> , 2005, 76, 99-125.	5.7	1,027
2	Brain-Derived Neurotrophic Factor Induces Long-Term Potentiation in Intact Adult Hippocampus: Requirement for ERK Activation Coupled to CREB and Upregulation of <i>Arc</i> Synthesis. <i>Journal of Neuroscience</i> , 2002, 22, 1532-1540.	3.6	699
3	From Acquisition to Consolidation: On the Role of Brain-Derived Neurotrophic Factor Signaling in Hippocampal-Dependent Learning. <i>Learning and Memory</i> , 2002, 9, 224-237.	1.3	593
4	Dendritic mRNA: transport, translation and function. <i>Nature Reviews Neuroscience</i> , 2007, 8, 776-789.	10.2	553
5	The Immediate Early Gene <i>Arc</i> / <i>Arg3.1</i> : Regulation, Mechanisms, and Function. <i>Journal of Neuroscience</i> , 2008, 28, 11760-11767.	3.6	436
6	Sustained <i>Arc</i> / <i>Arg3.1</i> Synthesis Controls Long-Term Potentiation Consolidation through Regulation of Local Actin Polymerization in the Dentate Gyrus <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2007, 27, 10445-10455.	3.6	431
7	The Arc of synaptic memory. <i>Experimental Brain Research</i> , 2010, 200, 125-140.	1.5	416
8	Antidepressant drugs act by directly binding to TRKB neurotrophin receptors. <i>Cell</i> , 2021, 184, 1299-1313.e19.	28.9	347
9	BDNF mechanisms in late LTP formation: A synthesis and breakdown. <i>Neuropharmacology</i> , 2014, 76, 664-676.	4.1	284
10	Brain-Derived Neurotrophic Factor Triggers Transcription-Dependent, Late Phase Long-Term Potentiation <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2002, 22, 7453-7461.	3.6	279
11	Synaptic plasticity in the hippocampus is modulated by behavioral state. <i>Brain Research</i> , 1989, 493, 74-86.	2.2	271
12	Local protein synthesis, actin dynamics, and LTP consolidation. <i>Current Opinion in Neurobiology</i> , 2008, 18, 524-531.	4.2	258
13	Chronic mild stress inhibits BDNF protein expression and CREB activation in the dentate gyrus but not in the hippocampus proper. <i>Pharmacology Biochemistry and Behavior</i> , 2006, 85, 842-849.	2.9	246
14	Acute Intrahippocampal Infusion of BDNF Induces Lasting Potentiation of Synaptic Transmission in the Rat Dentate Gyrus. <i>Journal of Neurophysiology</i> , 1998, 79, 496-499.	1.8	190
15	Brain-derived neurotrophic factor and control of synaptic consolidation in the adult brain. <i>Biochemical Society Transactions</i> , 2006, 34, 600-604.	3.4	156
16	The Complement Control-Related Genes CSMD1 and CSMD2 Associate to Schizophrenia. <i>Biological Psychiatry</i> , 2011, 70, 35-42.	1.3	149
17	<i>Arc</i> protein: a flexible hub for synaptic plasticity and cognition. <i>Seminars in Cell and Developmental Biology</i> , 2018, 77, 33-42.	5.0	142
18	CREB Family Transcription Factors Are Major Mediators of BDNF Transcriptional Autoregulation in Cortical Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 1405-1426.	3.6	138

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19	Differential regulation of mature and precursor microRNA expression by NMDA and metabotropic glutamate receptor activation during LTP in the adult dentate gyrus <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2010, 31, 636-645.	2.6	130
20	Identification of genes co-upregulated with Arc during BDNF-induced long-term potentiation in adult rat dentate gyrus <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2006, 23, 1501-1511.	2.6	127
21	Unilateral LTP triggers bilateral increases in hippocampal neurotrophin and trk receptor mRNA expression in behaving rats: Evidence for interhemispheric communication. <i>J Neurosci</i> , 1996, 16, 368, 371-382.		122
22	Two-Stage Translational Control of Dentate Gyrus LTP Consolidation Is Mediated by Sustained BDNF-TrkB Signaling to MNK. <i>Cell Reports</i> , 2014, 9, 1430-1445.	6.4	122
23	BDNF-induced LTP in dentate gyrus is impaired with age: analysis of changes in cell signaling events. <i>Neurobiology of Aging</i> , 2004, 25, 1323-1331.	3.1	116
24	Activity-Dependent Local Translation of Matrix Metalloproteinase-9. <i>Journal of Neuroscience</i> , 2012, 32, 14538-14547.	3.6	110
25	Novel Translational Control in Arc-dependent Long Term Potentiation Consolidation <i>In Vivo</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 31498-31511.	3.4	101
26	Postnatal Deamidation of 4E-BP2 in Brain Enhances Its Association with Raptor and Alters Kinetics of Excitatory Synaptic Transmission. <i>Molecular Cell</i> , 2010, 37, 797-808.	9.7	96
27	Endogenous Activation of μ and δ Opioid Receptors Is Required for Long-Term Potentiation Induction in the Lateral Perforant Path: Dependence on GABAergic Inhibition. <i>Journal of Neuroscience</i> , 1996, 16, 8123-8131.	3.6	91
28	Dual regulation of translation initiation and peptide chain elongation during BDNF-induced LTP <i>in vivo</i> : evidence for compartment-specific translation control. <i>Journal of Neurochemistry</i> , 2006, 99, 1328-1337.	3.9	90
29	LTP in the lateral perforant path is β -adrenergic receptor-dependent. <i>NeuroReport</i> , 1997, 8, 719-724.	1.2	89
30	Tuning Specific Translation in Cancer Metastasis and Synaptic Memory: Control at the MNK-eIF4E Axis. <i>Trends in Biochemical Sciences</i> , 2016, 41, 847-858.	7.5	84
31	MicroRNA Regulation of the Synaptic Plasticity-Related Gene Arc. <i>PLoS ONE</i> , 2012, 7, e41688.	2.5	84
32	Brain-derived neurotrophic factor mechanisms and function in adult synaptic plasticity: new insights and implications for therapy. <i>Current Opinion in Drug Discovery & Development</i> , 2006, 9, 580-6.	1.9	84
33	Bursts of high-frequency stimulation trigger rapid delivery of pre-existing β -CaMKII mRNA to synapses: a mechanism in dendritic protein synthesis during long-term potentiation in adult awake rats. <i>European Journal of Neuroscience</i> , 2003, 17, 2679-2689.	2.6	83
34	Chronic Fluoxetine Treatment Induces Brain Region-Specific Upregulation of Genes Associated with BDNF-Induced Long-Term Potentiation. <i>Neural Plasticity</i> , 2007, 2007, 1-9.	2.2	81
35	Naloxone blocks the induction of long-term potentiation in the lateral but not in the medial perforant pathway in the anesthetized rat. <i>Brain Research</i> , 1988, 449, 352-356.	2.2	79
36	Consolidation and translation regulation: Figure 1.. <i>Learning and Memory</i> , 2012, 19, 410-422.	1.3	77

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37	BDNF-induced LTP is associated with rapid Arc/Arg3.1-dependent enhancement in adult hippocampal neurogenesis. <i>Scientific Reports</i> , 2016, 6, 21222.	3.3	74
38	Impairment of in vivo theta-burst long-term potentiation and network excitability in the dentate gyrus of synaptopodin-deficient mice lacking the spine apparatus and the cisternal organelle. <i>Hippocampus</i> , 2009, 19, 130-140.	1.9	69
39	Arc is a flexible modular protein capable of reversible self-oligomerization. <i>Biochemical Journal</i> , 2015, 468, 145-158.	3.7	69
40	Î Opioid receptor activation is required to induce LTP of synaptic transmission in the lateral perforant path in vivo. <i>Brain Research</i> , 1991, 567, 42-50.	2.2	68
41	Control of synaptic consolidation in the dentate gyrus: mechanisms, functions, and therapeutic implications. <i>Progress in Brain Research</i> , 2007, 163, 453-471.	1.4	68
42	Balancing Arc Synthesis, mRNA Decay, and Proteasomal Degradation. <i>Journal of Biological Chemistry</i> , 2012, 287, 22354-22366.	3.4	68
43	The coupling of a trkB tyrosine residue to LTP. <i>Trends in Neurosciences</i> , 2003, 26, 171-173.	8.6	64
44	Induction of long-term depression and potentiation by low- and high-frequency stimulation in the dentate area of the anesthetized rat: magnitude, time course and EEG. <i>Brain Research</i> , 1987, 405, 100-107.	2.2	62
45	Activation of AP5-sensitive NMDA Receptors is Not Required to Induce LTP of Synaptic Transmission in the Lateral Perforant Path. <i>European Journal of Neuroscience</i> , 1991, 3, 1300-1308.	2.6	62
46	Sleep and protein synthesis-dependent synaptic plasticity: impacts of sleep loss and stress. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 224.	2.0	62
47	Dynamic Arc SUMOylation and Selective Interaction with F-Actin-Binding Protein Drebrin A in LTP Consolidation In Vivo. <i>Frontiers in Synaptic Neuroscience</i> , 2017, 9, 8.	2.5	61
48	The RNA-Binding Protein hnRNP K Mediates the Effect of BDNF on Dendritic mRNA Metabolism and Regulates Synaptic NMDA Receptors in Hippocampal Neurons. <i>ENeuro</i> , 2017, 4, ENEURO.0268-17.2017.	1.9	57
49	Acute cold stress leading to elevated corticosterone neither enhances synaptic efficacy nor impairs LTP in the dentate gyrus of freely moving rats. <i>Brain Research</i> , 1998, 789, 245-255.	2.2	55
50	Unique patterns of FOS, phospho-CREB and BrdU immunoreactivity in the female rat brain following chronic stress and citalopram treatment. <i>Neuropharmacology</i> , 2006, 50, 428-440.	4.1	54
51	Paraneoplastic CDR2 and CDR2L antibodies affect Purkinje cell calcium homeostasis. <i>Acta Neuropathologica</i> , 2014, 128, 835-852.	7.7	51
52	PKR Inhibition Rescues Memory Deficit and ATF4 Overexpression in ApoE Îµ4 Human Replacement Mice. <i>Journal of Neuroscience</i> , 2015, 35, 12986-12993.	3.6	51
53	Arc/Arg3.1 function in long-term synaptic plasticity: Emerging mechanisms and unresolved issues. <i>European Journal of Neuroscience</i> , 2021, 54, 6696-6712.	2.6	51
54	Object-Place Recognition Learning Triggers Rapid Induction of Plasticity-Related Immediate Early Genes and Synaptic Proteins in the Rat Dentate Gyrus. <i>Neural Plasticity</i> , 2008, 2008, 1-12.	2.2	49

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55	Social Defeat during Adolescence and Adulthood Differentially Induce BDNF-Regulated Immediate Early Genes. <i>Frontiers in Behavioral Neuroscience</i> , 2011, 5, 72.	2.0	48
56	Stimulus-evoked ERK-dependent phosphorylation of activity-regulated cytoskeleton-associated protein (Arc) regulates its neuronal subcellular localization. <i>Neuroscience</i> , 2017, 360, 68-80.	2.3	47
57	Dynamic expression of long noncoding RNAs and repeat elements in synaptic plasticity. <i>Frontiers in Neuroscience</i> , 2015, 9, 351.	2.8	46
58	Synaptic activity-induced global gene expression patterns in the dentate gyrus of adult behaving rats: Induction of immunity-linked genes. <i>Neuroscience</i> , 2007, 148, 925-936.	2.3	44
59	Enhanced cognitive function and antidepressant-like effects after krill oil supplementation in rats. <i>Lipids in Health and Disease</i> , 2013, 12, 6.	3.0	44
60	Phasic Boosting of Medial Perforant Path-Evoked Granule Cell Output Time-Locked to Spontaneous Dentate EEG Spikes in Awake Rats. <i>Journal of Neurophysiology</i> , 1998, 79, 2825-2832.	1.8	40
61	Variants in Doublecortin- and Calmodulin Kinase Like 1, a Gene Up-Regulated by BDNF, Are Associated with Memory and General Cognitive Abilities. <i>PLoS ONE</i> , 2009, 4, e7534.	2.5	38
62	Persistent, membrane-associated protein kinase C: From model membranes to synaptic long-term potentiation. <i>Cellular Signalling</i> , 1993, 5, 695-708.	3.6	37
63	BDNF regulation of synaptic structure, function, and plasticity. <i>Neuropharmacology</i> , 2014, 76, 601-602.	4.1	33
64	GSK3 ^{1±} and GSK3 ² Phosphorylate Arc and Regulate its Degradation. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 192.	2.9	33
65	Bidirectional Dysregulation of AMPA Receptor-Mediated Synaptic Transmission and Plasticity in Brain Disorders. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 26.	2.5	32
66	Chronic fluoxetine induces region-specific changes in translation factor eIF4E and eEF2 activity in the rat brain. <i>European Journal of Neuroscience</i> , 2006, 23, 2814-2818.	2.6	31
67	DCLK1 Variants Are Associated across Schizophrenia and Attention Deficit/Hyperactivity Disorder. <i>PLoS ONE</i> , 2012, 7, e35424.	2.5	30
68	State-dependent suppression of LTP induction after learning: Relation to phasic hippocampal network events. <i>Behavioral and Brain Sciences</i> , 1997, 20, 614-615.	0.7	26
69	Post-transcriptional effects and interactions between chronic mild stress and acute sleep deprivation: Regulation of translation factor and cytoplasmic polyadenylation element-binding protein phosphorylation. <i>Behavioural Brain Research</i> , 2012, 235, 251-262.	2.2	26
70	Widespread promoter methylation of synaptic plasticity genes in long-term potentiation in the adult brain in vivo. <i>BMC Genomics</i> , 2017, 18, 250.	2.8	26
71	Structure of monomeric full-length <sc>ARC</sc> sheds light on molecular flexibility, protein interactions, and functional modalities. <i>Journal of Neurochemistry</i> , 2018, 147, 323-343.	3.9	26
72	Selective Survival and Maturation of Adult-Born Dentate Granule Cells Expressing the Immediate Early Gene Arc/Arg3.1. <i>PLoS ONE</i> , 2009, 4, e4885.	2.5	25

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73	Arc self-association and formation of virus-like capsids are mediated by an N-terminal helical coil motif. <i>FEBS Journal</i> , 2021, 288, 2930-2955.	4.7	25
74	Fragile X (fmr1) mRNA expression is differentially regulated in two adult models of activity-dependent gene expression. <i>Molecular Brain Research</i> , 2000, 75, 337-341.	2.3	22
75	eEF2/eEF2K Pathway in the Mature Dentate Gyrus Determines Neurogenesis Level and Cognition. <i>Current Biology</i> , 2020, 30, 3507-3521.e7.	3.9	21
76	NMDA receptor-dependent regulation of miRNA expression and association with Argonaute during LTP in vivo. <i>Frontiers in Cellular Neuroscience</i> , 2014, 7, 285.	3.7	19
77	No Escaping the Rat Race: Simulated Night Shift Work Alters the Time-of-Day Variation in BMAL1 Translational Activity in the Prefrontal Cortex. <i>Frontiers in Neural Circuits</i> , 2017, 11, 70.	2.8	17
78	Modulation of neuronal calcium signaling by neurotrophic factors. <i>International Journal of Developmental Neuroscience</i> , 2002, 20, 199-207.	1.6	16
79	Localization and regulation of PML bodies in the adult mouse brain. <i>Brain Structure and Function</i> , 2016, 221, 2511-2525.	2.3	15
80	Stability of long term facilitation and expression of zif268 and Arc in the spinal cord dorsal horn is modulated by conditioning stimulation within the physiological frequency range of primary afferent fibers. <i>Neuroscience</i> , 2008, 154, 1568-1575.	2.3	13
81	Implication of the APP Gene in Intellectual Abilities. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 723-735.	2.6	13
82	A simple DMSO-based method for cryopreservation of primary hippocampal and cortical neurons. <i>Journal of Neuroscience Methods</i> , 2020, 333, 108578.	2.5	13
83	Environmental Control of Adult Neurogenesis: From Hippocampal Homeostasis to Behavior and Disease. <i>Neural Plasticity</i> , 2014, 2014, 1-3.	2.2	12
84	Arc Interacts with the Integral Endoplasmic Reticulum Protein, Calnexin. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 294.	3.7	12
85	Structural properties and peptide ligand binding of the capsid homology domains of human Arc. <i>Biochemistry and Biophysics Reports</i> , 2021, 26, 100975.	1.3	12
86	MicroRNA-34a Acutely Regulates Synaptic Efficacy in the Adult Dentate Gyrus In Vivo. <i>Molecular Neurobiology</i> , 2020, 57, 1432-1445.	4.0	11
87	Time Course of Immediate Early Gene Protein Expression in the Spinal Cord following Conditioning Stimulation of the Sciatic Nerve in Rats. <i>PLoS ONE</i> , 2015, 10, e0123604.	2.5	10
88	Cognitive function and brain plasticity in a rat model of shift work: role of daily rhythms, sleep and glucocorticoids. <i>Scientific Reports</i> , 2020, 10, 13141.	3.3	8
89	Common variants in the ARC gene are not associated with cognitive abilities. <i>Brain and Behavior</i> , 2015, 5, e00376.	2.2	7
90	Crystal and solution structures reveal oligomerization of individual capsid homology domains of Drosophila Arc. <i>PLoS ONE</i> , 2021, 16, e0251459.	2.5	7

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91	Activation-induced chromatin reorganization in neurons depends on HDAC1 activity. <i>Cell Reports</i> , 2022, 38, 110352.	6.4	7
92	LTP & learning: lessons from short-term plasticity. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, 3.	2.0	6
93	Development and Validation of Arc Nanobodies: New Tools for Probing Arc Dynamics and Function. <i>Neurochemical Research</i> , 2022, 47, 2656-2666.	3.3	6
94	High-affinity anti-Arc nanobodies provide tools for structural and functional studies. <i>PLoS ONE</i> , 2022, 17, e0269281.	2.5	5
95	Herpes Simplex Virus Type 1 Neuronal Infection Triggers the Disassembly of Key Structural Components of Dendritic Spines. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 580717.	3.7	3
96	Stimulation-induced expression of immediate early gene proteins in the dorsal horn is increased in neuropathy. <i>Scandinavian Journal of Pain</i> , 2016, 10, 43-51.	1.3	2
97	BDNF Function in Long-Term Synaptic Plasticity in the Dentate Gyrus In Vivo: Methods for Local Drug Delivery and Biochemical Analysis of Translation. <i>Neuromethods</i> , 2017, , 241-256.	0.3	2
98	Unilateral LTP triggers bilateral increases in hippocampal neurotrophin and trk receptor mRNA expression in behaving rats: Evidence for interhemispheric communication. <i>Journal of Comparative Neurology</i> , 1996, 368, 371-382.	1.6	2
99	Regulation of Protein Synthesis by eIF4E in the Brain. , 0, , 3-22.		2
100	Additive viability-loss following hsp70/hsc70 double interference and Hsp90 inhibition in two breast cancer cell lines. <i>Oncology Reports</i> , 2007, 17, 1501.	2.6	1
101	Neurotrophic factors and synaptic plasticity in the adult hippocampus. , 2002, , 61-77.		1
102	Molecular mechanisms of synaptic consolidation during sleep: BDNF function and dendritic protein synthesis. <i>Behavioral and Brain Sciences</i> , 2005, 28, 65-66.	0.7	0
103	BDNF as a Trigger for Transsynaptic Consolidation in the Adult Brain. , 2005, , 159-184.		0
104	The Changes of the Nuclear Landscape Upon Stimulation of Neuronal Cells are Dependent on the Histone Deacetylase HSAC1. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
105	Editorial: Coordination of mRNA Transport and Translation With Vesicle and Organelle Trafficking and Dynamics. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 800136.	3.7	0