

György Kemenes

List of Publications by Year in descending order

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91
papers

2,969
citations

136740

32
h-index

189595

50
g-index

99
all docs

99
docs citations

99
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	A combined bioinformatics and LC-MS-based approach for the development and benchmarking of a comprehensive database of <i>Lymnaea</i> CNS proteins. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	3
2	The Great Pond Snail (<i>Lymnaea stagnalis</i>) as a Model of Aging and Age-Related Memory Impairment: An Overview. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 975-982.	1.7	8
3	Time dependent differential regulation of a novel long non-coding natural antisense RNA during long-term memory formation. <i>Scientific Reports</i> , 2021, 11, 3594.	1.6	3
4	Interneuronal mechanisms for learning-induced switch in a sensory response that anticipates changes in behavioral outcomes. <i>Current Biology</i> , 2021, 31, 1754-1761.e3.	1.8	5
5	Aging and disease-relevant gene products in the neuronal transcriptome of the great pond snail (<i>Lymnaea stagnalis</i>): a potential model of aging, age-related memory loss, and neurodegenerative diseases. <i>Invertebrate Neuroscience</i> , 2020, 20, 9.	1.8	16
6	Proactive and retroactive interference with associative memory consolidation in the snail <i>Lymnaea</i> is time and circuit dependent. <i>Communications Biology</i> , 2019, 2, 242.	2.0	18
7	A CREB2-targeting microRNA is required for long-term memory after single-trial learning. <i>Scientific Reports</i> , 2018, 8, 3950.	1.6	24
8	A central control circuit for encoding perceived food value. <i>Science Advances</i> , 2018, 4, eaau9180.	4.7	23
9	A BK channel-mediated feedback pathway links single-synapse activity with action potential sharpening in repetitive firing. <i>Science Advances</i> , 2018, 4, eaat1357.	4.7	14
10	Subcellular Peptide Localization in Single Identified Neurons by Capillary Microsampling Mass Spectrometry. <i>Scientific Reports</i> , 2018, 8, 12227.	1.6	24
11	Structure-dependent effects of amyloid β on long-term memory in <i>Lymnaea stagnalis</i> . <i>FEBS Letters</i> , 2017, 591, 1236-1246.	1.3	12
12	Cellular and Molecular Mechanisms of Memory in Mollusks. , 2017, , 453-474.		2
13	Behavioral and Circuit Analysis of Learning and Memory in Mollusks , 2017, , 427-440.		1
14	A two-neuron system for adaptive goal-directed decision-making in <i>Lymnaea</i> . <i>Nature Communications</i> , 2016, 7, 11793.	5.8	25
15	A critical role for the self-assembly of Amyloid β 1-42 in neurodegeneration. <i>Scientific Reports</i> , 2016, 6, 30182.	1.6	63
16	PACAP and Learning in Invertebrates. <i>Current Topics in Neurotoxicity</i> , 2016, , 43-50.	0.4	0
17	Effects of β exposure on long-term associative memory and its neuronal mechanisms in a defined neuronal network. <i>Scientific Reports</i> , 2015, 5, 10614.	1.6	27
18	A switch in the mode of the sodium/calcium exchanger underlies an age-related increase in the slow afterhyperpolarization. <i>Neurobiology of Aging</i> , 2015, 36, 2838-2849.	1.5	11

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19	Reversal of Age-Related Learning Deficiency by the Vertebrate PACAP and IGF-1 in a Novel Invertebrate Model of Aging: The Pond Snail (<i>Lymnaea stagnalis</i>). <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 1331-1338.	1.7	33
20	Interneuronal Mechanism for Tinbergen's Hierarchical Model of Behavioral Choice. <i>Current Biology</i> , 2014, 24, 2018-2024.	1.8	21
21	pT305-CaMKII stabilizes a learning-induced increase in AMPA receptors for ongoing memory consolidation after classical conditioning. <i>Nature Communications</i> , 2014, 5, 3967.	5.8	19
22	Axonal trafficking of an antisense RNA transcribed from a pseudogene is regulated by classical conditioning. <i>Scientific Reports</i> , 2013, 3, 1027.	1.6	17
23	Nonsynaptic Plasticity Underlies a Compartmentalized Increase in Synaptic Efficacy after Classical Conditioning. <i>Current Biology</i> , 2013, 23, 614-619.	1.8	22
24	Molecular and Cellular Mechanisms of Classical Conditioning in the Feeding System of <i>Lymnaea</i> . <i>Handbook of Behavioral Neuroscience</i> , 2013, , 251-264.	0.7	5
25	Single electrode dynamic clamp with StpC. <i>Journal of Neuroscience Methods</i> , 2012, 211, 11-21.	1.3	16
26	Gyárgy Kemenes. <i>Current Biology</i> , 2012, 22, R428-R430.	1.8	0
27	Multi-Neuronal Refractory Period Adapts Centrally Generated Behaviour to Reward. <i>PLoS ONE</i> , 2012, 7, e42493.	1.1	7
28	Dynamic clamp with StpC software. <i>Nature Protocols</i> , 2011, 6, 405-417.	5.5	51
29	Editorial to the thematic series 'Invertebrate Circuitry'. <i>Neural Systems & Circuits</i> , 2011, 1, 10.	1.8	1
30	Pituitary Adenylate Cyclase Activating Polypeptide (PACAP) and Its Receptors Are Present and Biochemically Active in the Central Nervous System of the Pond Snail <i>Lymnaea stagnalis</i> . <i>Journal of Molecular Neuroscience</i> , 2010, 42, 464-471.	1.1	24
31	Sensory driven multi-neuronal activity and associative learning monitored in an intact CNS on a multielectrode array. <i>Journal of Neuroscience Methods</i> , 2010, 186, 171-178.	1.3	17
32	Balanced plasticity and stability of the electrical properties of a molluscan modulatory interneuron after classical conditioning: a computational study. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, 19.	1.0	18
33	What roles do tonic inhibition and disinhibition play in the control of motor programs?. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, 30.	1.0	23
34	A Homolog of the Vertebrate Pituitary Adenylate Cyclase-Activating Polypeptide Is Both Necessary and Instructive for the Rapid Formation of Associative Memory in an Invertebrate. <i>Journal of Neuroscience</i> , 2010, 30, 13766-13773.	1.7	26
35	Analysis of Learning in Invertebrates. , 2010, , 47-64.		0
36	Delayed Intrinsic Activation of an NMDA-Independent CaM-kinase II in a Critical Time Window Is Necessary for Late Consolidation of an Associative Memory. <i>Journal of Neuroscience</i> , 2010, 30, 56-63.	1.7	26

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37	Lymnaea. <i>Current Biology</i> , 2009, 19, R9-R11.	1.8	42
38	Learning and Memory: How Sea Slug Behaviors Become Compulsive. <i>Current Biology</i> , 2009, 19, R515-R517.	1.8	0
39	Behavioral Choice: A Novel Role for Presynaptic Inhibition of Sensory Inputs. <i>Current Biology</i> , 2009, 19, R1087-R1088.	1.8	3
40	Food-aversive classical conditioning increases a persistent sodium current in molluscan withdrawal interneurons in a transcription dependent manner. <i>Neurobiology of Learning and Memory</i> , 2009, 92, 114-119.	1.0	21
41	Persistent Sodium Current Is a Nonsynaptic Substrate for Long-Term Associative Memory. <i>Current Biology</i> , 2008, 18, 1221-1226.	1.8	64
42	Different phases of long-term memory require distinct temporal patterns of PKA activity after single-trial classical conditioning. <i>Learning and Memory</i> , 2008, 15, 694-702.	0.5	28
43	Non-synaptic neuronal mechanisms of learning and memory in gastropod molluscs. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 4051.	3.0	24
44	Dynamic control of a central pattern generator circuit: a computational model of the snail feeding network. <i>European Journal of Neuroscience</i> , 2007, 25, 2805-2818.	1.2	38
45	Computational model of a modulatory cell type in the feeding network of the snail, <i>Lymnaea stagnalis</i> . <i>BMC Neuroscience</i> , 2007, 8, .	0.8	1
46	Requirement of New Protein Synthesis of a Transcription Factor for Memory Consolidation: Paradoxical Changes in mRNA and Protein Levels of C/EBP. <i>Journal of Molecular Biology</i> , 2006, 356, 569-577.	2.0	53
47	Persistent Sodium Current Is a Target for cAMP-Induced Neuronal Plasticity in a State-Setting Modulatory Interneuron. <i>Journal of Neurophysiology</i> , 2006, 95, 453-463.	0.9	39
48	Role of Delayed Nonsynaptic Neuronal Plasticity in Long-Term Associative Memory. <i>Current Biology</i> , 2006, 16, 1269-1279.	1.8	98
49	Phase-Dependent Molecular Requirements for Memory Reconsolidation: Differential Roles for Protein Synthesis and Protein Kinase A Activity. <i>Journal of Neuroscience</i> , 2006, 26, 6298-6302.	1.7	65
50	Fine tuning of olfactory orientation behaviour by the interaction of oscillatory and single neuronal activity. <i>European Journal of Neuroscience</i> , 2005, 22, 2833-2844.	1.2	21
51	Activation of MAPK is necessary for long-term memory consolidation following food-reward conditioning. <i>Learning and Memory</i> , 2005, 12, 538-545.	0.5	49
52	Loss of Self-Inhibition Is a Cellular Mechanism for Episodic Rhythmic Behavior. <i>Current Biology</i> , 2003, 13, 116-124.	1.8	44
53	A Persistent Cellular Change in a Single Modulatory Neuron Contributes to Associative Long-Term Memory. <i>Current Biology</i> , 2003, 13, 1064-1069.	1.8	51
54	Cyclic AMP response element-binding (CREB)-like proteins in a molluscan brain: cellular localization and learning-induced phosphorylation. <i>European Journal of Neuroscience</i> , 2003, 18, 1223-1234.	1.2	62

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55	Critical Time-Window for NO-cGMP-Dependent Long-Term Memory Formation after One-Trial Appetitive Conditioning. <i>Journal of Neuroscience</i> , 2002, 22, 1414-1425.	1.7	137
56	Endogenous and Network Properties of <i>Lymnaea</i> Feeding Central Pattern Generator Interneurons. <i>Journal of Neurophysiology</i> , 2002, 88, 1569-1583.	0.9	73
57	Suppression of Nitric Oxide (NO)-Dependent Behavior by Double-Stranded RNA-Mediated Silencing of a Neuronal NO Synthase Gene. <i>Journal of Neuroscience</i> , 2002, 22, RC227-RC227.	1.7	41
58	Voltage-gated ionic currents in an identified modulatory cell type controlling molluscan feeding. <i>European Journal of Neuroscience</i> , 2002, 15, 109-119.	1.2	39
59	Development of the nitric oxide/cGMP system in the embryonic and juvenile pond snail, <i>Lymnaea stagnalis</i> L. A comparative in situ hybridization, histochemical and immunohistochemical study. <i>Journal of Neurocytology</i> , 2002, 31, 131-147.	1.6	12
60	Selective Expression of Electrical Correlates of Differential Appetitive Classical Conditioning in a Feeding Network. <i>Journal of Neurophysiology</i> , 2001, 85, 89-97.	0.9	15
61	Multiple Types of Control by Identified Interneurons in a Sensory-Activated Rhythmic Motor Pattern. <i>Journal of Neuroscience</i> , 2001, 21, 2903-2911.	1.7	52
62	A Systems Approach to the Cellular Analysis of Associative Learning in the Pond Snail <i>Lymnaea</i> . <i>Learning and Memory</i> , 2000, 7, 124-131.	0.5	162
63	Cellular Traces of Behavioral Classical Conditioning Can Be Recorded at Several Specific Sites in a Simple Nervous System. <i>Journal of Neuroscience</i> , 1999, 19, 347-357.	1.7	65
64	Electrophysiological and Behavioral Analysis of Lip Touch as a Component of the Food Stimulus in the Snail <i>Lymnaea</i> . <i>Journal of Neurophysiology</i> , 1999, 81, 1261-1273.	0.9	30
65	Neural Modulation of Gut Motility by Myomodulin Peptides and Acetylcholine in the Snail <i>Lymnaea</i> . <i>Journal of Neurophysiology</i> , 1998, 79, 2460-2474.	0.9	43
66	Neurophysiological Correlates of Unconditioned and Conditioned Feeding Behavior in the Pond Snail <i>Lymnaea stagnalis</i> . <i>Journal of Neurophysiology</i> , 1998, 79, 3030-3040.	0.9	41
67	Pattern-Generating Role for Motoneurons in a Rhythmically Active Neuronal Network. <i>Journal of Neuroscience</i> , 1998, 18, 3669-3688.	1.7	65
68	In Vitro Appetitive Classical Conditioning of the Feeding Response in the Pond Snail <i>Lymnaea stagnalis</i> . <i>Journal of Neurophysiology</i> , 1997, 78, 2351-2362.	0.9	66
69	In Vivo neuropharmacological and In vitro laser ablation techniques as tools in the analysis of neuronal circuits underlying behavior in a molluscan model system. <i>General Pharmacology</i> , 1997, 29, 7-15.	0.7	25
70	Opioid peptides in the nervous system of <i>Aplysia</i> : A combined biochemical, immunocytochemical, and electrophysiological study. <i>Cellular and Molecular Neurobiology</i> , 1995, 15, 239-256.	1.7	13
71	Novel interneuron having hybrid modulatory-central pattern generator properties in the feeding system of the snail, <i>Lymnaea stagnalis</i> . <i>Journal of Neurophysiology</i> , 1995, 73, 112-124.	0.9	42
72	Behavioral role for nitric oxide in chemosensory activation of feeding in a mollusc. <i>Journal of Neuroscience</i> , 1995, 15, 7653-7664.	1.7	171

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73	Modulatory role for the serotonergic cerebral giant cells in the feeding system of the snail, <i>Lymnaea</i> . II. Photoinactivation. <i>Journal of Neurophysiology</i> , 1994, 72, 1372-1382.	0.9	69
74	Processing of mechano- and chemosensory information in the lip nerve and cerebral ganglia of the snail <i>Helix pomatia</i> L. <i>Neuroscience and Behavioral Physiology</i> , 1994, 24, 77-87.	0.2	8
75	Training in a novel environment improves the appetitive learning performance of the snail, <i>Lymnaea stagnalis</i> . <i>Behavioral and Neural Biology</i> , 1994, 61, 139-149.	2.3	51
76	Neurophysiological correlates of tactile stimulus-induced whole-body eversion, a novel type of behavior in the snail <i>Helix pomatia</i> L. <i>Brain Research</i> , 1993, 612, 16-27.	1.1	5
77	Cholinergic interneurons in the feeding system of the pond snail <i>Lymnaea stagnalis</i> . II. N1 interneurons make cholinergic synapses with feeding motoneurons. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1992, 336, 167-180.	1.8	32
78	Ultrastructural, biochemical and electrophysiological changes induced by 5,6-dihydroxytryptamine in the CNS of the snail <i>Helix pomatia</i> L. <i>Brain Research</i> , 1992, 578, 221-234.	1.1	26
79	Distinct receptors for Leu- and Met-enkephalin on the metacerebral giant cell of <i>Aplysia</i> . <i>Cellular and Molecular Neurobiology</i> , 1992, 12, 107-119.	1.7	16
80	Interneuronal monosynaptic peptidergic contact responsible for the bursting activity generation in the pedal neuron of the snail <i>Helix pomatia</i> L. is axo-axonal. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1991, 99, 371-373.	0.7	4
81	Photoinactivation of neurones axonally filled with the fluorescent dye 5(6)-carboxyfluorescein in the pond snail, <i>Lymnaea stagnalis</i> . <i>Journal of Neuroscience Methods</i> , 1991, 39, 207-216.	1.3	17
82	The modulatory peptide SCPb inhibits feeding in the mollusc, <i>Lymnaea stagnalis</i> . <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1991, 100, 615-618.	0.2	2
83	Dopamine-immunoreactive neurones in the central nervous system of the pond snail <i>Lymnaea stagnalis</i> . <i>Journal of Comparative Neurology</i> , 1991, 307, 214-224.	0.9	61
84	Behavioural and biochemical changes in the feeding system of <i>Lymnaea</i> induced by the dopamine and serotonin neurotoxins 6-hydroxydopamine and 5,6-dihydroxytryptamine. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1990, 329, 243-255.	1.8	49
85	A comparison of four techniques for mapping the distribution of serotonin and serotonin-containing neurons in fixed and living ganglia of the snail, <i>Lymnaea</i> . <i>Journal of Neurocytology</i> , 1989, 18, 193-208.	1.6	83
86	Central and peripheral connections of an identified pedal neurone modifying pneumostome movements in <i>Helix</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989, 94, 735-741.	0.7	6
87	Goal-tracking behavior in the pond snail, <i>Lymnaea stagnalis</i> . <i>Behavioral and Neural Biology</i> , 1989, 52, 260-270.	2.3	23
88	Appetitive learning in snails shows characteristics of conditioning in vertebrates. <i>Brain Research</i> , 1989, 489, 163-166.	1.1	66
89	Monosynaptic connections between serotonin-containing neurones labelled by 5,6-dihydroxytryptamine-induced pigmentation in the snail <i>Helix pomatia</i> L. <i>Brain Research</i> , 1989, 484, 404-407.	1.1	21
90	Sensory responses and axonal morphology of two different types of cerebral neurones in <i>Helix pomatia</i> L. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1987, 88, 641-646.	0.7	3

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91	Selective in vivo labelling of serotonergic neurones by 5,6-dihydroxytryptamine in the snail <i>Helix pomatia</i> L. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1986, 85, 419-425.	0.2	11