Karoly Gulya

List of Publications by Year
in descending order

86 papers	3,372 citations	218677 26 h-index	149698 56 g-index
86 all docs	86 docs citations	86 times ranked	3449 citing authors

#	Article	IF	Citations
1	Kynurenic Acid and Its Analog SZR104 Exhibit Strong Antiinflammatory Effects and Alter the Intracellular Distribution and Methylation Patterns of H3 Histones in Immunochallenged Microglia-Enriched Cultures of Newborn Rat Brains. International Journal of Molecular Sciences, 2022, 23, 1079.	4.1	7
2	Epigenetic Consequences of in Utero Exposure to Rosuvastatin: Alteration of Histone Methylation Patterns in Newborn Rat Brains. International Journal of Molecular Sciences, 2021, 22, 3412.	4.1	4
3	Quantitative morphometric and cell-type-specific population analysis of microglia-enriched cultures subcloned to high purity from newborn rat brains. IBRO Neuroscience Reports, 2021, 10, 119-129.	1.6	3
4	Cellular and Molecular Effects of SARS-CoV-2 Linking Lung Infection to the Brain. Frontiers in Immunology, 2021, 12, 730088.	4.8	12
5	Orofacial skin inflammation increases the number of macrophages in the maxillary subregion of the rat trigeminal ganglion in a corticosteroid-reversible manner. Cell and Tissue Research, 2020, 382, 551-561.	2.9	5
6	Sensitivity of Rodent Microglia to Kynurenines in Models of Epilepsy and Inflammation In Vivo and In Vitro: Microglia Activation Is Inhibited by Kynurenic Acid and the Synthetic Analogue SZR104. International Journal of Molecular Sciences, 2020, 21, 9333.	4.1	8
7	The small molecule AUTEN-99 (autophagy enhancer-99) prevents the progression of neurodegenerative symptoms. Scientific Reports, 2017, 7, 42014.	3.3	37
8	A novel pleiotropic effect of aspirin: Beneficial regulation of pro- and anti-inflammatory mechanisms in microglial cells. Brain Research Bulletin, 2017, 132, 61-74.	3.0	24
9	AUTEN-67 (Autophagy Enhancer-67) Hampers the Progression of Neurodegenerative Symptoms in a Drosophila model of Huntingtonâ€™s Disease. Journal of Huntington's Disease, 2016, 5, 133-147.	1.9	39
10	Rosuvastatin enhances anti-inflammatory and inhibits pro-inflammatory functions in cultured microglial cells. Neuroscience, 2016, 314, 47-63.	2.3	43
11	Calmodulin inhibition regulates morphological and functional changes related to the actin cytoskeleton in pure microglial cells. Brain Research Bulletin, 2016, 120, 41-57.	3.0	14
12	Decrease of mGluR5 receptor density goes parallel with changes in enkephalin and substance P immunoreactivity in Huntingtonâ€™s disease: a preliminary investigation in the postmortem human brain. Brain Structure and Function, 2015, 220, 3043-3051.	2.3	14
13	Development of the microglial phenotype in culture. Neuroscience, 2013, 241, 280-295.	2.3	59
14	Long-term effects of selective immunolesions of cholinergic neurons of the nucleus basalis magnocellularis on the ascending cholinergic pathways in the rat: A model for Alzheimer's disease. Brain Research Bulletin, 2013, 94, 9-16.	3.0	7
15	Disparate changes in the expression of transient receptor potential vanilloid type 1 receptor mRNA and protein in dorsal root ganglion neurons following local capsaicin treatment of the sciatic nerve in the rat. Neuroscience, 2012, 201, 320-330.	2.3	14
16	Distribution and binding of 18F-labeled and 125I-labeled analogues of ACI-80, a prospective molecular imaging biomarker of disease: A whole hemisphere post mortem autoradiography study in human brains obtained from Alzheimerâ€™s disease patients. Neurochemistry International, 2012, 60, 153-162.	3.8	8
17	Adult rat hippocampal slices as in vitro models for neurodegeneration: Studies on cell viability and apoptotic processes. Brain Research Bulletin, 2011, 84, 39-44.	3.0	17
18	Activated MAO-B in the brain of Alzheimer patients, demonstrated by [11C]-l-deprenyl using whole hemisphere autoradiography. Neurochemistry International, 2011, 58, 60-68.	3.8	171

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19	A comprehensive study on the putative Î´-opioid receptor (sub)types using the highly selective Î´-antagonist, Tyr-Tic-(2S,3R)-Î²-MePhe-Phe-OH. Neurochemistry International, 2011, 59, 192-201.	3.8	3
20	Direct projection from the visual associative cortex to the caudate nucleus in the feline brain. Neuroscience Letters, 2011, 503, 52-57.	2.1	8
21	Pharmacology of a new tritiated endomorphin-2 analog containing the proline mimetic cis-2-aminocyclohexanecarboxylic acid. Peptides, 2011, 32, 722-728.	2.4	6
22	Protective Effects of a Phosphatidylcholine-Enriched Diet in Lipopolysaccharide-Induced Experimental Neuroinflammation in the Rat. Shock, 2011, 36, 458-465.	2.1	30
23	The norepinephrine transporter (NET) radioligand (S,S)-[18F]FMeNER-D2 shows significant decreases in NET density in the human brain in Alzheimer's disease: A post-mortem autoradiographic study. Neurochemistry International, 2010, 56, 789-798.	3.8	62
24	In Vitro Evidence for Competitive TSPO Binding of the Imaging Biomarker Candidates Vinpocetine and Two Iodinated DAA1106 Analogues in Post Mortem Autoradiography Experiments on Whole Hemisphere Human Brain Slices. Current Radiopharmaceuticals, 2009, 2, 42-48.	0.8	4
25	A comparative autoradiography study in post mortem whole hemisphere human brain slices taken from Alzheimer patients and age-matched controls using two radiolabelled DAA1106 analogues with high affinity to the peripheral benzodiazepine receptor (PBR) system. Neurochemistry International, 2009, 54, 28-36.	3.8	66
26	Synthesis and pharmacological characterization of a novel, highly potent, peptidomimetic Î´-opioid radioantagonist, [3H]Tyr-Tic-(2S,3R)-Î²-MePhe-Phe-OH. Neuropeptides, 2008, 42, 57-67.	2.2	5
27	Trans-synaptic regulation of calmodulin gene expression after experimentally induced orofacial inflammation and subsequent corticosteroid treatment in the principal sensory and motor trigeminal nuclei of the rat. Neurochemistry International, 2008, 52, 265-271.	3.8	6
28	Immunohistoblot analysis on whole human hemispheres from normal and Alzheimer diseased brains. Neurochemistry International, 2008, 53, 181-183.	3.8	7
29	Differential calmodulin gene expression in the nuclei of the rat midbrainâ€"brain stem region. Acta Histochemica, 2006, 108, 455-462.	1.8	7
30	Dithranol abolishes UCH-L1 immunoreactivity in the nerve fibers of the rat orofacial skin. Brain Research, 2006, 1121, 216-220.	2.2	4
31	Cloning and characterization of rat importin 9: Implication for its neuronal function. Molecular Brain Research, 2005, 139, 103-114.	2.3	5
32	Multiple calmodulin mRNAs are selectively transported to functionally different neuronal and glial compartments in the rat hippocampus. An electron microscopic in situ hybridization study. Life Sciences, 2005, 77, 1405-1415.	4.3	7
33	Repeated 4-aminopyridine seizures reduce parvalbumin content in the medial mammillary nucleus of the rat brain. Molecular Brain Research, 2004, 131, 110-118.	2.3	9
34	Calmodulin, and various ways to regulate its activity. Life Sciences, 2004, 74, 1065-1070.	4.3	46
35	Calmodulin gene expression in the neural retina of the adult rat. Life Sciences, 2003, 73, 3213-3224.	4.3	7
36	Intracellular Targeting of Calmodulin mRNAs in Primary Hippocampal Cells. Journal of Histochemistry and Cytochemistry, 2003, 51, 541-544.	2.5	9

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37	Branching-pattern analysis of the dendritic arborization in the thalamic nuclei of the rat brain. Acta Biologica Hungarica, 2002, 53, 177-186.	0.7	2
38	Differential calmodulin gene expression in the rodent brain. Life Sciences, 2002, 70, 2829-2855.	4.3	33
39	Differential expression of multiple calmodulin genes in cells of the white matter of the rat spinal cord. Molecular Brain Research, 2002, 102, 28-34.	2.3	10
40	Ontogeny of calmodulin gene expression in rat brain. Neuroscience, 2002, 114, 301-316.	2.3	9
41	Somato-dendritic synapses in the nucleus reticularis thalami of the rat. Acta Biologica Hungarica, 2002, 53, 33-41.	0.7	5
42	Methods for quantification of in situ hybridization signals obtained by film autoradiography and phosphorimaging applied for estimation of regional levels of calmodulin mRNA classes in the rat brain. Brain Research Protocols, 2001, 8, 32-44.	1.6	12
43	Postischemic calmodulin gene expression in the rat hippocampus. Life Sciences, 2001, 68, 2373-2381.	4.3	18
44	Calculation of Maximal Hybridization Capacity (Hmax) for Quantitative In Situ Hybridization: A Case Study for Multiple Calmodulin mRNAs. Journal of Histochemistry and Cytochemistry, 2000, 48, 893-904.	2.5	12
45	Multiple calmodulin genes exhibit systematically differential responses to chronic ethanol treatment and withdrawal in several regions of the rat brain. Molecular Brain Research, 2000, 83, 63-71.	2.3	15
46	Calmodulin gene expression in an immortalized striatal GABAergic cell line. Acta Biologica Hungarica, 2000, 51, 65-71.	0.7	4
47	Differential Distribution and Intracellular Targeting of mRNAs Corresponding to the Three Calmodulin Genes in Rat Brain: A Quantitative In Situ Hybridization Study. Journal of Histochemistry and Cytochemistry, 1999, 47, 583-600.	2.5	28
48	Water deprivation upregulates the three calmodulin genes in exclusively the supraoptic nucleus of the rat brain. Molecular Brain Research, 1999, 74, 111-116.	2.3	16
49	Differential regulation of vasopressin gene expression in the hypothalamus of endotoxin-treated 14-day-old rat. Life Sciences, 1999, 65, PL47-PL52.	4.3	0
50	Î²-Amyloid(Phe(SO3H)24)25â€“35 in rat nucleus basalis induces behavioral dysfunctions, impairs learning and memory and disrupts cortical cholinergic innervation. Behavioural Brain Research, 1998, 90, 133-145.	2.2	101
51	Slide-binding characterization and autoradiographic localization of delta opioid receptors in rat and mouse brains with the tetrapeptide antagonist [3H]TIPP. Life Sciences, 1998, 63, 1377-1385.	4.3	4
52	A New Quantitative Film Autoradiographic Method of Quantifying mRNA Transcripts for In Situ Hybridization. Journal of Histochemistry and Cytochemistry, 1998, 46, 1141-1149.	2.5	23
53	The cholinergic system in Alzheimer's disease. Progress in Neurobiology, 1997, 52, 511-535.	5.7	362
54	Retinopathy induced in mice by targeted disruption of the rhodopsin gene. Nature Genetics, 1997, 15, 216-219.	21.4	552

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55	Cholinotoxic effects of Î²-amyloid(1â€“42) peptide on cortical projections of the rat nucleus basalis magnocellularis. Brain Research, 1995, 695, 71-75.	2.2	61
56	Î²-Amyloid(1â€“42) affects cholinergic but not parvalbumin-containing neurons in the septal complex of the rat. Brain Research, 1995, 698, 270-274.	2.2	62
57	[d-Pen2,d-Pen5]Enkephalin, a Î´ opioid agonist, reduces endogenous aluminum content in the rat central nervous system. Neuroscience, 1995, 66, 499-506.	2.3	6
58	Prodynorphin and vasopressin mRNA levels are differentially affected by chronic ethanol ingestion in the mouse. Molecular Brain Research, 1993, 20, 1-8.	2.3	40
59	Partial depletion of endogenous zinc level by (D-Pen2,D-Pen5) enkephalin in the rat brain. Life Sciences, 1991, 48, PL57-PL62.	4.3	18
60	Chronic ethanol ingestion decreases vasopressin mRNA in hypothalamic and extrahypothalamic nuclei of mouse brain. Brain Research, 1991, 557, 129-135.	2.2	223
61	Brain regional specificity and time-course of changes in the NMDA receptor-ionophore complex during ethanol withdrawal. Brain Research, 1991, 547, 130-134.	2.2	112
62	Cholinotoxic Effects of Aluminum in Rat Brain. Journal of Neurochemistry, 1990, 54, 1020-1026.	3.9	107
63	The Role of Arginine Vasopressin in Alcohol Tolerance. Annals of Medicine, 1990, 22, 269-274.	3.8	26
64	Effects of ischemia on cholinergic neurotransmission and electrolyte content in newborn pig lumbar spinal cord. Life Sciences, 1990, 46, 811-817.	4.3	5
65	The opioid system in neurologic and psychiatric disorders and in their experimental models. , 1990, 46, 395-428.		27
66	Transport of Muscarinic Cholinergic Marker Protein Activities in Regenerating Sciatic Nerve of Rat. Journal of Neurochemistry, 1989, 53, 179-182.	3.9	2
67	Muscarinic cholinergic components in the carp brain. Neurochemistry International, 1989, 15, 511-516.	3.8	6
68	Muscarinic autoreceptors are differentially affected by selective muscarinic antagonists in rat hippocampus. Neurochemistry International, 1989, 15, 153-156.	3.8	6
69	Effect of a selective - opioid agonist, d-pen2-d-pen5 - enkephalin (DPDPE), on grooming and sniffing activity. International Journal of Psychophysiology, 1989, 7, 275-276.	1.0	0
70	Changes in acetylcholine content, release and muscarinic receptors in rat hippocampus under cold stress. Life Sciences, 1989, 45, 143-149.	4.3	14
71	Analgesic and tolerance-inducing effects of the highly selective Î´ opioid agonist enkephalin in mice. European Journal of Pharmacology, 1988, 150, 347-353.	3.5	22
72	Central effects of the potent and highly selective Î¼ opioid antagonist (CTOP) in mice. European Journal of Pharmacology, 1988, 150, 355-360.	3.5	56

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73	Autoradiographic localization of [3H][MePhe3,D-Pro4]morphiceptin ([3H]PL017) to Î¼ opioid receptors in rat brain. European Journal of Pharmacology, 1987, 133, 351-352.	3.5	22
74	[3H]AF-DX 116 labels subsets of muscarinic cholinergic receptors in rat brain and heart. Life Sciences, 1987, 41, 1751-1760.	4.3	44
75	Cyclic somatostatin octapeptide analogues with high affinity and selectivity toward mu opioid receptors. Life Sciences, 1986, 38, 2221-2229.	4.3	92
76	Design and synthesis of conformationally constrained somatostatin analogs with high potency and specificity for .mu. opioid receptors. Journal of Medicinal Chemistry, 1986, 29, 2370-2375.	6.4	189
77	Conformationally restricted analogs of somatostatin with high mu-opiate receptor specificity.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 236-239.	7.1	100
78	Modulation of the Acetylcholine System in the Superior Cervical Ganglion of Rat: Effects of GABA and Hypoglossal Nerve Implantation After In Vivo GABA Treatment. Journal of Neurochemistry, 1985, 44, 1363-1372.	3.9	17
79	Conformationally restricted cyclic analogues of substance P: Insight into the receptor binding process. Biochemical and Biophysical Research Communications, 1985, 127, 656-662.	2.1	21
80	Somatostatin analogs with affinity for opiate receptors in rat brain binding assay. Peptides, 1985, 6, 159-163.	2.4	28
81	Autoradiographic localization of Î´ opioid receptors in the rat brain using a highly selective bis-penicillamine cyclic enkephalin analog. European Journal of Pharmacology, 1985, 111, 285-286.	3.5	17
82	In Vivo Effects of ?-Bungarotoxin on the Acetylcholine System in Different Brain Areas of the Rat. Journal of Neurochemistry, 1984, 43, 112-119.	3.9	10
83	Transport of muscarinic cholinergic receptors in the sciatic nerve of rat. Neurochemistry International, 1984, 6, 123-126.	3.8	14
84	The effect of 4-(1-naphthylvinyl)-pyridine on the acetylcholine system and on the number of synaptic vesicles in the central nervous system of the rat. Neurochemistry International, 1982, 4, 185-193.	3.8	11
85	Ultrastructural changes and diffusion of acetylcholine in rat brain after microwave irradiation. Journal of Neuroscience Methods, 1982, 5, 215-220.	2.5	7
86	Postnatal Development of the Acetylcholine System in Different Parts of the Rat Cerebellum. Journal of Neurochemistry, 1982, 39, 1726-1732.	3.9	24