Rie Hosoi

List of Publications by Year
in descending order

54	594	623734	677142
papers	citations	14 h-index	22 g-index

55	55	55	715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rat-PET study without anesthesia: Anesthetics modify the dopamine D1 receptor binding in rat brain. Synapse, 2004, 54, 207-213.	1.2	74
2	Effect of Astrocytic Energy Metabolism Depressant on 14C-Acetate Uptake in Intact Rat Brain. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 188-190.	4.3	40
3	MicroPET detection of enhanced 18F-FDG utilization by PKA inhibitor in awake rat brain. Brain Research, 2005, 1039, 199-202.	2.2	40
4	Ouabain-Induced Cell Proliferation in Cultured Rat Astrocytes. The Japanese Journal of Pharmacology, 1996, 72, 347-353.	1.2	34
5	Isoformâ€Specific Upâ€Regulation by Ouabain of Na⁺,K⁺â€ATPase in Cultured Rat Astrocytes. Journal of Neurochemistry, 1997, 69, 2189-2196.	3.9	32
6	Uncoupling of flow and metabolism by chloral hydrate: a rat in-vivo autoradiographic study. NeuroReport, 2009, 20, 219-222.	1.2	22
7	Sensitive Reduction in 14C-acetate Uptake in a Short-term Ischemic Rat Brain. Journal of Stroke and Cerebrovascular Diseases, 2007, 16, 77-81.	1.6	21
8	Microdialysis with Radiometric Monitoring of L-[Î²-¹¹C]DOPA to Assess Dopaminergic Metabolism: Effect of Inhibitors of L-Amino Acid Decarboxylase, Monoamine Oxidase, and Catechol-O-Methyltransferase on Rat Striatal Dialysate. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 124-131.	4.3	20
9	Discrepancy between cell injury and benzodiazepine receptor binding after transient middle cerebral artery occlusion in rats. Synapse, 2004, 53, 234-239.	1.2	19
10	Role of NMDA receptors in the increase of glucose metabolism in the rat brain induced by fluorocitrate. Neuroscience Letters, 2007, 415, 259-263.	2.1	17
11	In vivo imaging and quantitative analysis of TSPO in rat peripheral tissues using small-animal PET with [18F]FEDAC. Nuclear Medicine and Biology, 2010, 37, 853-860.	0.6	17
12	Involvement of Na⁺,K⁺â€ATPase in the Mitogenic Effect of Insulinâ€Like Growth Factorâ€I on Cultured Rat Astrocytes. Journal of Neurochemistry, 1996, 66, 511-516.	3.9	16
13	Blood flow dependence of the intratumoral distribution of peripheral benzodiazepine receptor binding in intact mouse fibrosarcoma. Nuclear Medicine and Biology, 2006, 33, 971-975.	0.6	16
14	Evaluation of [14C]phenylacetate as a prototype tracer for the measurement of glial metabolism in the rat brain. Nuclear Medicine and Biology, 2006, 33, 985-989.	0.6	15
15	Characterization of 14C-acetate uptake in cultured rat astrocytes. Brain Research, 2009, 1253, 69-73.	2.2	14
16	[14C]Benzyl acetate is a potential radiotracer for the measurement of glial metabolism in the rat brain. Nuclear Medicine and Biology, 2007, 34, 939-944.	0.6	12
17	Methyl ethyl ketone blocks status epilepticus induced by lithiumâ€pilocarpine in rats. British Journal of Pharmacology, 2009, 158, 872-878.	5.4	11
18	Sensitivities of benzodiazepine receptor binding and muscarinic acetylcholine receptor binding for the detection of neural cell death caused by sodium nitroprusside microinjection in rat brain. Synapse, 2003, 49, 134-141.	1.2	10

#	Article	IF	Citations
19	Glial metabolic dysfunction caused neural damage by short-term ischemia in brain. Annals of Nuclear Medicine, 2006, 20, 377-380.	2.2	10
20	Rolipram depresses [3H]2-deoxyglucose uptake in mouse brain and heart in vivo. European Journal of Nuclear Medicine and Molecular Imaging, 2002, 29, 1212-1215.	6.4	9
21	Lactate is an alternative energy fuel to glucose in neurons under anesthesia. NeuroReport, 2009, 20, 1538-1542.	1.2	9
22	Production and purification of the positron emitter zincâ€63. Journal of Labelled Compounds and Radiopharmaceuticals, 2012, 55, 5-9.	1.0	9
23	ExÂvivo imaging and analysis of ROS generation correlated with microglial activation in rat model with acute neuroinflammation induced by intrastriatal injection of LPS. Biochemical and Biophysical Research Communications, 2021, 584, 101-106.	2.1	9
24	Intrastriatal microinjection of sodium nitroprusside induces cell death and reduces binding of dopaminergic receptors. Synapse, 2003, 50, 137-143.	1.2	8
25	Anticonvulsant effects of methyl ethyl ketone and diethyl ketone in several types of mouse seizure models. European Journal of Pharmacology, 2010, 642, 66-71.	3.5	8
26	Remarkable selectivity of the in vivo binding of [3H]Ro15-4513 to Î±5 subtype of benzodiazepine receptor in the living mouse brain. Synapse, 2010, 64, 928-936.	1.2	8
27	Glucose utilization in the brain during acute seizure is a useful biomarker for the evaluation of anticonvulsants: effect of methyl ethyl ketone in lithium-pilocarpine status epilepticus rats. Nuclear Medicine and Biology, 2009, 36, 949-954.	0.6	7
28	Remarkable increase in 14C-acetate uptake in an epilepsy model rat brain induced by lithiumâ€“pilocarpine. Brain Research, 2010, 1311, 158-165.	2.2	7
29	The role of the cAMP-PKA system in the short-term regulation of striatal [14C]-2-deoxyglucose uptake in freely moving rats. Brain Research, 2001, 921, 260-263.	2.2	6
30	Changes in Histological Construction and Decrease in 3H-QNB Binding in the Rat Brain after Prenatal X-irradiation. Journal of Radiation Research, 2002, 43, 277-282.	1.6	6
31	Uncoupling of flow and metabolism induced by sodium nitroprusside in rat cerebral cortex. NeuroReport, 2004, 15, 141-145.	1.2	6
32	Role of NMDA receptor upon [14C]acetate uptake into intact rat brain. Annals of Nuclear Medicine, 2009, 23, 143-147.	2.2	6
33	Improvement of brain uptake for in vivo PET imaging of astrocytic oxidative metabolism using benzyl [1-11C]acetate. Applied Radiation and Isotopes, 2013, 78, 102-107.	1.5	6
34	A Simple Ex Vivo Semiquantitative Fluorescent Imaging Utilizing Planar Laser Scanner: Detection of Reactive Oxygen Species Generation in Mouse Brain and Kidney. Molecular Imaging, 2019, 18, 153601211882042.	1.4	6
35	Different sensitivities to competitive inhibition of benzodiazepine receptor binding of11C-iomazenil and11C-flumazenil in rhesus monkey brain. Annals of Nuclear Medicine, 2001, 15, 137-139.	2.2	5
36	In vivo monitoring of extracellular 13N-glutamine derived from blood-borne 13N-ammonia in rat striatum using microdialysis with radio-LC method. Journal of Neuroscience Methods, 2009, 184, 37-41.	2.5	5

#	Article	IF	Citations
37	Increment of in vivo binding of [3H]SCH 23390, a dopamine D1 receptor ligand, induced by cyclic AMP-dependent protein kinase in rat brain. Brain Research, 2002, 952, 211-217.	2.2	4
38	The apparent positive cooperativity of in vivo [3H]PK-11195 binding in mouse fibrosarcoma. Nuclear Medicine and Biology, 2006, 33, 797-800.	0.6	4
39	De-coupling of blood flow and metabolism in the rat brain induced by glutamate. Annals of Nuclear Medicine, 2009, 23, 293-300.	2.2	4
40	PK11195 might selectively suppress the quinolinic acid-induced enhancement of anaerobic glycolysis in glial cells. Brain Research, 2010, 1340, 18-23.	2.2	4
41	Opposing effects of clomipramine on [125I]RTI-55 and [3H]N-methylspiperone binding in mouse striatum: Important role of other factors than endogenous dopamine?. , 1998, 30, 338-340.		3
42	Enhancement of the relative uptake of18F-FDG in mouse fibrosarcoma by rolipram. Annals of Nuclear Medicine, 2002, 16, 507-510.	2.2	3
43	Evaluation of intracellular processes in quinolinic acid-induced brain damage by imaging reactive oxygen species generation and mitochondrial complex I activity. EJNMMI Research, 2021, 11, 99.	2.5	3
44	Effects of the GABAergic system on in vivo binding of [3H]N-methylspiperone. Neuropharmacology, 1998, 37, 375-381.	4.1	2
45	Distinct different intra-tumor distribution of FDG between early phase and late phase in mouse fibrosarcoma. Annals of Nuclear Medicine, 2005, 19, 655-659.	2.2	2
46	Changes in in vivo [3H]-Ro15-4513 binding induced by forced swimming in mice. Synapse, 2005, 58, 23-29.	1.2	2
47	Effect of sabcomeline on muscarinic and dopamine receptor binding in intact mouse brain. Annals of Nuclear Medicine, 2003, 17, 123-130.	2.2	1
48	Effect of rolipram on relative 14C-deoxyglucose uptake in inflammatory lesions and skeletal muscle. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, 163-166.	6.4	1
49	Comparative Measurement of In Vivo and In Vitro Receptor Binding in the Same Rat Brain. Radioisotopes, 2006, 55, 29-33.	0.2	1
50	Ionic interaction of [11C]-N, Î±-dimethylbenzylamine (DMBA) in rodent brain. Annals of Nuclear Medicine, 2003, 17, 469-473.	2.2	0
51	Inhibitory effect of methyl ethyl ketone upon the enhancement of cerebral blood flow during status epilepticus induced by lithium-pilocarpine. Neuroscience Letters, 2009, 462, 300-302.	2.1	0
52	Kinetic study of benzyl [1-14C]acetate as a potential probe for astrocytic energy metabolism in the rat brain: Comparison with benzyl [2-14C]acetate. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 442-450.	4.3	0
53	Mapping of glial metabolism in intact rat brain using 14C-acetate. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S26-S26.	4.3	0
54	Effect of Glial Metabolism Inhibition upon Retention of 99mTc-HMPAO in Rat Brain. Radioisotopes, 2009, 58, 649-654.	0.2	0