Michel Maitre

List of Publications by Year
in descending order

124 papers	5,715 citations	81434 41 h-index	100535 70 g-index
126 all docs	126 docs citations	126 times ranked	2842 citing authors

#	Article	IF	Citations
1	A Role for Xanthurenic Acid in the Control of Brain Dopaminergic Activity. International Journal of Molecular Sciences, 2021, 22, 6974.	1.8	16
2	Tryptophan metabolites modify brain Aβ peptide degradation: A role in Alzheimerâ€™s disease?. Progress in Neurobiology, 2020, 190, 101800.	2.8	34
3	TSPO Ligands Boost Mitochondrial Function and Pregnenolone Synthesis. Journal of Alzheimer's Disease, 2019, 72, 1045-1058.	1.2	38
4	5-HIAA induces neprilysin to ameliorate pathophysiology and symptoms in a mouse model for Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2018, 6, 136.	2.4	26
5	A compound heterozygote case of isolated sulfite oxidase deficiency. Molecular Genetics and Metabolism Reports, 2017, 12, 99-102.	0.4	4
6	Discovery of Imidazoquinazolinone Derivatives as TSPO Ligands Modulating Neurosteroidogenesis and Cellular Bioenergetics in Neuroblastoma Cells Expressing Amyloid Precursor Protein. ChemistrySelect, 2017, 2, 6452-6457.	0.7	9
7	Mechanisms for the Specific Properties of Î³â€Hydroxybutyrate in Brain. Medicinal Research Reviews, 2016, 36, 363-388.	5.0	35
8	Xanthurenic acid is localized in neurons in the central nervous system. Neuroscience, 2016, 329, 226-238.	1.1	14
9	A proposed preventive role for Gamma-hydroxybutyrate (XyremR) in Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2016, 8, 37.	3.0	9
10	Î³-Hydroxybutyrate (Xyrem) ameliorates clinical symptoms and neuropathology in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2015, 36, 832-844.	1.5	30
11	Detecting spatial memory deficits beyond blindness in tg2576 Alzheimer mice. Neurobiology of Aging, 2013, 34, 716-730.	1.5	45
12	The neuroprotector kynurenic acid increases neuronal cell survival through neprilysin induction. Neuropharmacology, 2013, 70, 254-260.	2.0	65
13	Xanthurenic Acid Binds to Neuronal G-Protein-Coupled Receptors That Secondarily Activate Cationic Channels in the Cell Line NCB-20. PLoS ONE, 2012, 7, e48553.	1.1	25
14	Calcium and cAMP signaling induced by gamma-hydroxybutyrate receptor(s) stimulation in NCB-20 neurons. Neuroscience, 2010, 167, 49-59.	1.1	5
15	A single acute pharmacological dose of Î³-hydroxybutyrate modifies multiple gene expression patterns in rat hippocampus and frontal cortex. Physiological Genomics, 2010, 41, 146-160.	1.0	19
16	Pharmacological doses of gamma-hydroxybutyrate (GHB) potentiate histone acetylation in the rat brain by histone deacetylase inhibition. Neuropharmacology, 2009, 57, 137-147.	2.0	23
17	Xanthurenic acid distribution, transport, accumulation and release in the rat brain. Journal of Neurochemistry, 2008, 105, 982-993.	2.1	57
18	Cloning and functional characterization of a gammaâ€hydroxybutyrate receptor identified in the human brain. FASEB Journal, 2007, 21, 885-895.	0.2	82

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19	Immunohistochemical localization of a GHB receptor-like protein isolated from rat brain. Journal of Comparative Neurology, 2006, 498, 508-524.	0.9	21
20	Evidence for a Role of the Parafascicular Nucleus of the Thalamus in the Control of Epileptic Seizures by the Superior Colliculus. Epilepsia, 2005, 46, 141-145.	2.6	32
21	Î³-hydroxybutyrate receptor function determined by stimulation of rubidium and calcium movements from NCB-20 neurons. Neuroscience, 2003, 116, 1021-1031.	1.1	23
22	Cloning and characterization of a rat brain receptor that binds the endogenous neuromodulator Î³â€hydroxybutyrate. FASEB Journal, 2003, 17, 1691-1693.	0.2	110
23	Mss4Gene Is Up-Regulated in Rat Brain after Chronic Treatment with Antidepressant and Down-Regulated When Rats Are Anhedonic. Molecular Pharmacology, 2002, 62, 1332-1338.	1.0	22
24	Gamma-hydroxybutyrate increases tryptophan availability and potentiates serotonin turnover in rat brain. Life Sciences, 2002, 70, 2101-2112.	2.0	40
25	Evidence for a gamma-hydroxybutyrate (GHB) uptake by rat brain synaptic vesicles. Journal of Neurochemistry, 2002, 80, 899-904.	2.1	30
26	Circadian tryptophan hydroxylase levels and serotonin release in the suprachiasmatic nucleus of the rat. European Journal of Neuroscience, 2002, 15, 833-840.	1.2	58
27	Immunohistochemical studies of the localization of neurons containing the enzyme that synthesizes dopamine, GABA, or ?-hydroxybutyrate in the rat substantia nigra and striatum. Journal of Comparative Neurology, 2000, 426, 549-560.	0.9	46
28	Gamma-hydroxybutyric acid as a signaling molecule in brain. Alcohol, 2000, 20, 277-283.	0.8	53
29	Hypoexpression of Benzodiazepine Receptors in the Amygdala of Neophobic BALB/c Mice Compared to C57BL/6 Mice. Pharmacology Biochemistry and Behavior, 2000, 65, 35-38.	1.3	39
30	Reduction of Blood Ethanol Levels by the Gamma-Hydroxybutyric Acid Receptor Antagonist, NCS-382. Alcohol, 1999, 17, 93-95.	0.8	2
31	Î³-hydroxybutyrate receptor function studied by the modulation of nitric oxide synthase activity in rat frontal cortex punches. Biochemical Pharmacology, 1999, 58, 1815-1819.	2.0	20
32	Gamma-Hydroxybutyrate and Cocaine Administration Increases mRNA Expression of Dopamine D1 and D2 Receptors in Rat Brain. Neuropsychopharmacology, 1999, 21, 662-669.	2.8	38
33	Prodynorphin and proenkephalin mRNAs are increased in rat brain after acute and chronic administration of gamma-hydroxybutyrate. Neuroscience Letters, 1999, 262, 65-68.	1.0	15
34	Neurochemical and electrophysiological evidence for the existence of a functional Î³-hydroxybutyrate system in NCB-20 neurons. Neuroscience, 1998, 86, 989-1000.	1.1	36
35	The anxiolytic effect of Î³-hydroxybutyrate in the elevated plus maze is reversed by the benzodiazepine receptor antagonist, flumazenil. European Journal of Pharmacology, 1998, 342, 21-27.	1.7	51
36	Sulpiride, but not haloperidol, up-regulates Î³-hydroxybutyrate receptors in vivo and in cultured cells. European Journal of Pharmacology, 1998, 346, 331-337.	1.7	14

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37	Cloning of a rat brain succinic semialdehyde reductase involved in the synthesis of the neuromodulator Î³-hydroxybutyrate. Biochemical Journal, 1998, 334, 43-50.	1.7	26
38	THE Î³-HYDROXYBUTYRATE SIGNALLING SYSTEM IN BRAIN: ORGANIZATION AND FUNCTIONAL IMPLICATIONS. Progress in Neurobiology, 1997, 51, 337-361.	2.8	444
39	Kinetic characterisation and solubilisation of Î³-hydroxybutyrate receptors from rat brain. Neuroscience Letters, 1996, 209, 25-28.	1.0	9
40	Blockade of the discriminative stimulus effects of Î³-hydroxybutyric acid (GHB) by the GHB receptor antagonist NCS-382. Physiology and Behavior, 1995, 58, 587-590.	1.0	39
41	Î³-Hydroxybutyrate receptor binding in rat brain is inhibited by guanyl nucleotides and pertussis toxin. Neuroscience Letters, 1995, 189, 51-53.	1.0	37
42	Ultrastructural analysis of tryptophan hydroxylase immunoreactive nerve terminals in the rat cerebral cortex and hippocampus: their associations with local blood vessels. Neuroscience, 1995, 66, 555-569.	1.1	70
43	Î²-Nerve Growth Factor Levels in Newborn Cord Sera. Pediatric Research, 1994, 35, 637-639.	1.1	23
44	Displacement of [3H]Î³-hydroxybutyrate binding by benzamide neuroleptics and prochlorperazine but not by other antipsychotics. European Journal of Pharmacology, 1994, 256, 211-214.	1.7	22
45	Characterization of methionine-enkephalin release in the rat striatum by in vivo dialysis: Effects of gamma-hydroxybutyrate on cellular and extracellular methionine-enkephalin levels. Neuroscience, 1994, 60, 637-648.	1.1	24
46	Selective distribution pattern of Î³-hydroxybutyrate receptors in the rat forebrain and midbrain as revealed by quantitative autoradiography. Brain Research, 1992, 572, 345-348.	1.1	89
47	Isolation of human brain protein kinase C: Evidence for kinase C catalytic fragment modulating G protein-GTPase activity. Biochemical and Biophysical Research Communications, 1991, 174, 593-599.	1.0	5
48	Anti-sedative and anti-cataleptic properties of NCS-382, a Î³-hydroxybutyrate receptor antagonist. European Journal of Pharmacology, 1991, 203, 393-397.	1.7	47
49	Primary dissociated cell culture of embryonic rat metencephalon: presence of GABA in serotonergic neurons. Neuroscience Letters, 1991, 125, 101-106.	1.0	7
50	Extracellular Events Induced by ?-Hydroxybutyrate in Striatum: A Microdialysis Study. Journal of Neurochemistry, 1991, 56, 938-944.	2.1	100
51	Isolation of Monoaminergic Synaptosomes from Rat Brain by Immunomagnetophoresis. Journal of Neurochemistry, 1991, 56, 1569-1580.	2.1	8
52	Tryptophan Hydroxylase Synthesis Is Induced by 3', 5'-Cyclic Adenosine Monophosphate During Circadian Rhythm in the Rat Pineal Gland. Journal of Neurochemistry, 1991, 57, 1516-1521.	2.1	64
53	Purification and characterization of G proteins from human brain: modification of GTPase activity upon phosphorylation. Molecular and Cellular Biochemistry, 1991, 107, 65-77.	1.4	10
54	Effects of phospholipases, proteases and neuraminidase on ?-hydroxybutyrate binding sites. Molecular and Cellular Biochemistry, 1990, 93, 87-94.	1.4	8

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55	Increased Î³-hydroxybutyric acid receptors in thalamus of a genetic animal model of petit mal epilepsy. Epilepsy Research, 1990, 7, 121-128.	0.8	36
56	Trans-Î³-hydroxycrotonic acid binding sites in brain: evidence for a subpopulation of Î³-hydroxybutyrate. Neuroscience Letters, 1990, 110, 204-209.	1.0	15
57	Variation of tryptophan-5-hydroxylase concentration in the rat raphe dorsalis nucleus afterp-chlorophenylalanine administration. I. A model to study the turnover of the enzymatic protein. Brain Research, 1990, 536, 41-45.	1.1	33
58	Variation of tryptophan-5-hydroxylase concentration in the rat raphe dorsalis nucleus afterp-chlorophenylalanine administration. II. Anatomical distribution of the tryptophan-5-hydroxylase protein and regional variation of its turnover rate. Brain Research, 1990, 536, 46-55.	1.1	32
59	The immunolysis, isolation, and properties of subpopulations of mammalian brain synaptosomes. Neurochemical Research, 1989, 14, 301-310.	1.6	9
60	Formal Demonstration of the Phosphorylation of Rat Brain Tryptophan Hydroxylase by Ca2+/Calmodulin-Dependent Protein Kinase. Journal of Neurochemistry, 1989, 52, 1886-1891.	2.1	75
61	?-Hydroxybutyrate Stimulation of the Formation of Cyclic GMP and Inositol Phosphates in Rat Hippocampal Slices. Journal of Neurochemistry, 1989, 52, 1382-1387.	2.1	43
62	Localization studies of Î³-hydroxybutyrate receptors in rat striatum and hippocampus. Brain Research Bulletin, 1989, 23, 129-135.	1.4	15
63	A rapid and sensitive method for the determination of Î³-hydroxybutyric acid andtrans-Î³-hydroxycrotonic acid in rat brain tissue by gas chromatography/mass spectrometry with negative ion detection. Biomedical & Environmental Mass Spectrometry, 1988, 15, 521-524.	1.6	14
64	Is the anticonvulsant mechanism of valproate linked to its interaction with the cerebral Î³-hydroxybutyrate system?. Trends in Pharmacological Sciences, 1988, 9, 127-129.	4.0	29
65	Gamma hydroxybutyrate distribution and turnover rates in discrete brain regions of the rat. Neurochemistry International, 1988, 12, 53-59.	1.9	66
66	Sequence of Two mRNAs Encoding Active Rat Tryptophan Hydroxylase. Journal of Neurochemistry, 1988, 51, 312-316.	2.1	125
67	Analogs of .gamma.-hydroxybutyric acid. Synthesis and binding studies. Journal of Medicinal Chemistry, 1988, 31, 893-897.	2.9	63
68	Regional differences in depolarization-induced release of Î³-hydroxybutyrate from rat brain slices. Neuroscience Letters, 1988, 87, 99-103.	1.0	21
69	Function of <i>Î³</i>-hydroxybutyrate: a putative neurotransmitter. Biochemical Society Transactions, 1987, 15, 215-217.	1.6	18
70	Regional distribution in rat brain of tryptophan hydroxylase apoenzyme determined by enzyme-linked immunoassay. Neuroscience Letters, 1987, 73, 71-76.	1.0	14
71	3â€²â€“5â€² cyclic-guanosine monophosphate increase in rat brain hippocampus after gamma-hydroxybutyrate administration. Prevention by valproate and naloxone. Life Sciences, 1987, 41, 605-610.	2.0	34
72	Gamma-hydroxybutyrate, a possible neurotransmitter. Life Sciences, 1987, 41, 1547-1557.	2.0	168

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73	Immunohistochemistry of tryptophan hydroxylase in the rat brain. Neuroscience, 1987, 23, 291-304.	1.1	85
74	Î³-Aminobutyric acid and 5-hydroxytryptamine interrelationship in the rat nucleus raphe dorsalis: Combination of radioautographic and immunocytochemical techniques at light and electron microscopy levels. Neuroscience, 1987, 21, 237-251.	1.1	112
75	Effect of Anticonvulsant Drugs on 7-Hydroxybutyrate Release from Hippocampal Slices: Inhibition by Valproate and Ethosuximide. Journal of Neurochemistry, 1987, 49, 1022-1024.	2.1	12
76	Regional Distribution of High-Affinity ?-[3H] Hydroxybutyrate Binding Sites as Determined by Quantitative Autoradiography. Journal of Neurochemistry, 1987, 49, 1025-1032.	2.1	57
77	Isolation of a rat pineal gland cDNA clone homologous to tyrosine and phenylalanine hydroxylases. FEBS Letters, 1986, 206, 43-46.	1.3	36
78	?-Hydroxybutyrate uptake by rat brain striatal slices. Neurochemical Research, 1985, 10, 387-396.	1.6	42
79	Conversion of ?-Hydroxybutyrate to ?-Aminobutyrate In Vitro. Journal of Neurochemistry, 1985, 45, 810-814.	2.1	57
80	Tryptophan 5-hydroxylase. Rapid purification from whole rat brain and production of a specific antiserum. FEBS Journal, 1985, 149, 239-245.	0.2	71
81	Natural occurrence of trans-gamma hydroxycrotonic acid in rat brain. Biochemical Pharmacology, 1985, 34, 2401-2404.	2.0	20
82	Specific immunolysis of serotonergic nerve terminals using an antiserum against tryptophan hydroxylase. FEBS Letters, 1985, 182, 489-492.	1.3	11
83	Evidence for a role of high K m aldehyde reductase in the degradation of endogenous Î³-hydroxybutyrate from rat brain. FEBS Letters, 1985, 190, 55-60.	1.3	23
84	A comparative study of L[3H]-glutamate and L[3H]-cysteine sulfinate binding sites in subcellular fractions of rat brain. Journal of Neuroscience Research, 1984, 11, 157-169.	1.3	12
85	Immunocytochemical evidence for the presence of enzymes synthesizing GABA and GHB in the same neuron. Neurochemistry International, 1984, 6, 333-338.	1.9	11
86	Depolarization-Evoked Release of Î³-Hydroxybutyrate from Rat Brain Slices. Journal of Neurochemistry, 1983, 41, 287-290.	2.1	50
87	Positive cooperativity in high affinity binding sites for ?-hydroxybutyric acid in rat brain. Neurochemical Research, 1983, 8, 113-120.	1.6	11
88	Immunohistochemical evidence for neuronal and non-neuronal synthesis of GABA in the rat subcommissural organ. Neurochemistry International, 1983, 5, 785-791.	1.9	17
89	Immunohistochemical evidence for the presence of Î³-aminobutyric acid and serotonin in one nerve cell. A study on the raphe nuclei of the rat using antibodies to glutamate decarboxylase and serotonin. Brain Research, 1983, 275, 329-339.	1.1	205
90	Subcellular distribution of Î³-Hydroxybutyrate binding sites in rat brain principal localization in the synaptosomal fraction. Biochemical and Biophysical Research Communications, 1983, 110, 262-265.	1.0	43

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91	Immunocytochemical localization in rat brain of the enzyme that synthesizes Î3-hydroxybutyric acid. Neurochemistry International, 1982, 4, 523-529.	1.9	23
92	A radioautographic and immunocytochemical study of the GABA systems of the habenula complex in the rat. Neurochemistry International, 1982, 4, 303-312.	1.9	13
93	Immunocytochemical evidence for the existence of GABAergic neurons in the nucleus raphe dorsalis. possible existence of neurons containing serotonin and GABA. Brain Research, 1982, 232, 375-389.	1.1	142
94	High affinity binding site for Î3-hydroxybutyric acid in rat brain. Life Sciences, 1982, 30, 953-961.	2.0	191
95	Ontogeny and distribution of specific succinic semialdehyde reductase apoenzyme in the rat brain. Neurochemical Research, 1982, 7, 555-561.	1.6	13
96	A High-Affinity, Na+-Dependent Uptake System for ?-Hydroxybutyrate in Membrane Vesicles Prepared from Rat Brain. Journal of Neurochemistry, 1982, 38, 1570-1575.	2.1	80
97	Evidence that a specific succinic semialdehyde reductase is responsible for Î»-hydroxybutyrate synthesis in brain tissue slices. FEBS Letters, 1981, 134, 96-98.	1.3	39
98	Multiple effects of repeated administration of Î3-acetylenic gaba on rat brain metabolism. Biochemical Pharmacology, 1981, 30, 305-312.	2.0	11
99	Regional and Subcellular Localization in Rat Brain of the Enzymes That Can Synthesize ?-Hydroxybutyric Acid. Journal of Neurochemistry, 1981, 36, 1433-1438.	2.1	58
100	Glutamate decarboxylase activity in brain regions of differentially-housed mice; a difference in the olfactory bulb. Experientia, 1980, 36, 853-854.	1.2	4
101	Turnover Numbers of ?-Aminobutyrate Aminotransferase in Some Regions of Rat Brain. Journal of Neurochemistry, 1980, 34, 293-296.	2.1	12
102	Brucella endocarditis on double valvular prosthesis.. Postgraduate Medical Journal, 1980, 56, 119-120.	0.9	21
103	Specific and non-specific succinic semialdehyde reductases from rat brain: Isolation and properties. FEBS Letters, 1980, 117, 111-116.	1.3	57
104	Rapid purification by affinity chromatography of rat brain pyridoxal kinase and pyridoxamine-5-phosphate oxidase. Biochemical and Biophysical Research Communications, 1980, 96, 1755-1760.	1.0	31
105	Antiserum to gangliosides inhibits [3H]GABA binding to a synaptosome-enriched fraction of rat cerebral cortex. General Pharmacology, 1980, 11, 251-254.	0.7	12
106	Comparison of high-affinity binding of [3H]GABA to subcellular particles of rat brain and liver. Neurochemical Research, 1979, 4, 365-376.	1.6	5
107	PURIFICATION FROM HUMAN BRAIN AND SOME PROPERTIES OF TWO NADPH-LINKED ALDEHYDE REDUCTASES WHICH REDUCE SUCCINIC SEMIALDEHYDE TO 4-HYDROXYBUTYRATE. Journal of Neurochemistry, 1979, 33, 1169-1175.	2.1	92
108	A difference in glutamate-decarboxylase activity between isolated and grouped mice. Journal of Neurochemistry, 1979, 32, 1357-1359.	2.1	29

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109	Apoenzyme concentration and turnover number of l-glutamate decarboxylase in some regions of rat brain. Journal of Neurochemistry, 1979, 32, 245-246.	2.1	16
110	Bicuculline-sensitive GABA binding to a synaptosome-enriched fraction of rat cerebral cortex in the presence of a physiological concentration of sodium. General Pharmacology, 1979, 10, 193-194.	0.7	2
111	Bicuculline-sensitive Î³-aminobutyrate binding processes in a synaptosome-enriched fraction of rat cerebral cortex. Neuroscience, 1979, 4, 897-912.	1.1	20
112	Purification and Some Properties of l-Glutamate Decarboxylase from Human Brain. FEBS Journal, 1978, 86, 143-152.	0.2	124
113	Comparison of the structures of L-glutamate decarboxylases from human and rat brains. Biochemical and Biophysical Research Communications, 1978, 85, 885-890.	1.0	39
114	Comparison of the structural characteristics of the 4-aminobutyrate:2-oxoglutarate transaminases from rat and human brain, and of their affinities for certain inhibitors. Biochimica Et Biophysica Acta - Biomembranes, 1978, 522, 385-399.	1.4	38
115	Purification and properties of two succinate semialdehyde dehydrogenases from human brain. Biochimica Et Biophysica Acta - Biomembranes, 1978, 524, 26-36.	1.4	28
116	Purification and properties of rat brain succinic semialdehyde dehydrogenase. Biochimie, 1977, 59, 257-268.	1.3	29
117	In vitro studies into the effect of inhibition of rat brain succinic semialdehyde dehydrogenase on GABA synthesis and degradation. FEBS Letters, 1976, 72, 53-57.	1.3	41
118	Effects of 2-propyl 2-pentenoic acid on the acquisition of conditioned behavior with negative reinforcement in mice. Psychopharmacology, 1976, 50, 53-54.	1.5	4
119	Purification and Studies on Some Properties of the 4-Aminobutyrate: 2-Oxoglutarate Transaminase from Rat Brain. FEBS Journal, 1975, 52, 157-169.	0.2	73
120	Regional distribution in brain and effect of cerebral mitochondrial respiration of the anticonvulsive drug n-diproylacetate. Biochemical Pharmacology, 1975, 24, 1055-1058.	2.0	31
121	Protective effect of adenosine and nicotinamide against audiogenic seizure. Biochemical Pharmacology, 1974, 23, 2807-2816.	2.0	165
122	Effect of 2-methyl 2-ethyl caproic acid and 2-2-dimethyl valeric acid on audiogenic seizures and brain gamma aminobutyric acid. Biochemical Pharmacology, 1974, 23, 2363-2368.	2.0	32
123	Purification and partial characterisation of 4-aminobutyrate 2-ketoglutarate transaminase from human brain. FEBS Letters, 1974, 47, 199-203.	1.3	32
124	Effect of sodium n-dipropylacetate on audiogenic seizures and brain Î³-aminobutyric acid level. Biochemical Pharmacology, 1973, 22, 1701-1708.	2.0	292