Boulouard Michel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Object recognition test in mice. Nature Protocols, 2013, 8, 2531-2537.	12.0	854
2	The adhesive removal test: a sensitive method to assess sensorimotor deficits in mice. Nature Protocols, 2009, 4, 1560-1564.	12.0	371
3	Sensorimotor and cognitive deficits after transient middle cerebral artery occlusion in the mouse. Experimental Neurology, 2007, 203, 555-567.	4.1	250
4	Delayed administration of deferoxamine reduces brain damage and promotes functional recovery after transient focal cerebral ischemia in the rat. European Journal of Neuroscience, 2006, 23, 1757-1765.	2.6	107
5	Behavioral deficits after distal focal cerebral ischemia in mice: Usefulness of adhesive removal test Behavioral Neuroscience, 2009, 123, 224-230.	1.2	100
6	Novel Multitarget-Directed Ligands (MTDLs) with Acetylcholinesterase (AChE) Inhibitory and Serotonergic Subtype 4 Receptor (5-HT ₄ R) Agonist Activities As Potential Agents against Alzheimer's Disease: The Design of Donecopride. Journal of Medicinal Chemistry, 2015, 58, 3172-3187.	6.4	100
7	Influence of vestibular input on spatial and nonspatial memory and on hippocampal NMDA receptors. Hippocampus, 2012, 22, 814-826.	1.9	96
8	Design of donecopride, a dual serotonin subtype 4 receptor agonist/acetylcholinesterase inhibitor with potential interest for Alzheimer's disease treatment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3825-30.	7.1	96
9	RS 67333 and D-cycloserine accelerate learning acquisition in the rat. Neuropharmacology, 2001, 41, 517-522.	4.1	93
10	Delayed Hypoxic Postconditioning Protects Against Cerebral Ischemia in the Mouse. Stroke, 2009, 40, 3349-3355.	2.0	92
11	Environmental Enrichment Duration Differentially Affects Behavior and Neuroplasticity in Adult Mice. Cerebral Cortex, 2015, 25, 4048-4061.	2.9	92
12	Therapeutic Potential of 5-HT ₆ Receptor Agonists. Journal of Medicinal Chemistry, 2015, 58, 7901-7912.	6.4	72
13	Anti-NR1 N-terminal-domain vaccination unmasks the crucial action of tPA on NMDA-receptor-mediated toxicity and spatial memory. Journal of Cell Science, 2007, 120, 578-585.	2.0	66
14	Effects of perinatal exposure to waterborne fluoxetine on memory processing in the cuttlefish Sepia officinalis. Aquatic Toxicology, 2013, 132-133, 84-91.	4.0	64
15	Long-term functional outcome following transient middle cerebral artery occlusion in the rat: Correlation between brain damage and behavioral impairment Behavioral Neuroscience, 2006, 120, 1285-1298.	1.2	62
16	Comparison of the effects of erythropoietin and its carbamylated derivative on behaviour and hippocampal neurogenesis in mice. Neuropharmacology, 2011, 60, 354-364.	4.1	58
17	Continuous enriched environment improves learning and memory in adult NMRI mice through theta burst-related-LTP independent mechanisms but is not efficient in advanced aged animals. Mechanisms of Ageing and Development, 2011, 132, 240-248.	4.6	51
18	Inhibition of neuronal nitric oxide synthase by 7-methoxyindazole and related substituted indazoles. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1153-1156.	2.2	50

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19	BIMU 1 and RS 67333, two 5-HT4 receptor agonists, modulate spontaneous alternation deficits induced by scopolamine in the mouse. Naunyn-Schmiedeberg's Archives of Pharmacology, 2003, 367, 621-628.	3.0	50
20	New Benzo[h][1,6]naphthyridine and Azepino[3,2-c]quinoline Derivatives as Selective Antagonists of 5-HT4Receptors:A Binding Profile and Pharmacological Characterization. Journal of Medicinal Chemistry, 2003, 46, 138-147.	6.4	48
21	5-HT6 receptor blockade differentially affects scopolamine-induced deficits of working memory, recognition memory and aversive learning in mice. Psychopharmacology, 2012, 222, 99-115.	3.1	46
22	Rescue of cognitive aging by long-lasting environmental enrichment exposure initiated before median lifespan. Neurobiology of Aging, 2012, 33, 1005.e1-1005.e10.	3.1	43
23	Modulation of 5-HT7 receptor: effect on object recognition performances in mice. Psychopharmacology, 2014, 231, 393-400.	3.1	40
24	Tetrahydroisoquinolines as dopaminergic ligands: 1-Butyl-7-chloro-6-hydroxy-tetrahydroisoquinoline, a new compound with antidepressant-like activity in mice. Bioorganic and Medicinal Chemistry, 2009, 17, 4968-4980.	3.0	39
25	Synergistic effect of acetylcholinesterase inhibition (donepezil) and 5-HT4 receptor activation (RS67333) on object recognition in mice. Behavioural Brain Research, 2012, 230, 304-308.	2.2	39
26	Synthesis and biological evaluation as AChE inhibitors of new indanones and thiaindanones related to donepezil. European Journal of Medicinal Chemistry, 2005, 40, 1222-1245.	5.5	36
27	Selective 5-HT6 Receptor Blockade Improves Spatial Recognition Memory and Reverses Age-Related Deficits in Spatial Recognition Memory in the Mouse. Neuropsychopharmacology, 2009, 34, 488-500.	5.4	36
28	Chronic activation of 5-HT4 receptors or blockade of 5-HT6 receptors improve memory performances. Behavioural Brain Research, 2015, 293, 10-17.	2.2	36
29	Increased particulate phosphodiesterase 4 in the prefrontal cortex supports 5-HT4 receptor-induced improvement of object recognition memory in the rat. Psychopharmacology, 2009, 202, 125-139.	3.1	34
30	<i>In vitro</i> and <i>in vivo</i> pharmacological profile of UFPâ€512, a novel selective δâ€opioid receptor agonist; correlations between desensitization and tolerance. British Journal of Pharmacology, 2007, 152, 1312-1324.	5.4	33
31	Design, synthesis, and pharmacological evaluation of multitarget-directed ligands with both serotonergic subtype 4 receptor (5-HT4R) partial agonist and 5-HT6R antagonist activities, as potential treatment of Alzheimer's disease. European Journal of Medicinal Chemistry, 2016, 121, 283-293.	5.5	33
32	4-Substituted indazoles as new inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3177-3180.	2.2	32
33	Environmental Enrichment Enhances Episodic-Like Memory in Association with a Modified Neuronal Activation Profile in Adult Mice. PLoS ONE, 2012, 7, e48043.	2.5	32
34	Serotonin 5-HT6 receptor blockade reverses the age-related deficits of recognition memory and working memory in mice. Behavioural Brain Research, 2011, 222, 134-140.	2.2	31
35	On the importance of long-term functional assessment after stroke to improve translation from bench to bedside. Experimental & Translational Stroke Medicine, 2011, 3, 6.	3.2	31
36	Environmental enrichment improves recent but not remote memory in association with a modified brain metabolic activation profile in adult mice. Behavioural Brain Research, 2012, 228, 22-29.	2.2	31

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37	Age-dependent effects of chronic fluoxetine treatment on the serotonergic system one week following treatment. Psychopharmacology, 2012, 221, 329-339.	3.1	30
38	Novel antagonists of serotonin-4 receptors: Synthesis and biological evaluation of pyrrolothienopyrazines. Bioorganic and Medicinal Chemistry, 2009, 17, 2607-2622.	3.0	29
39	Spatial memory deficit across aging: current insights of the role of 5-HT7 receptors. Frontiers in Behavioral Neuroscience, 2014, 8, 448.	2.0	28
40	Synthesis of New 2-(Aminomethyl)-4-phenylpyrrolo[1,2-a]-quinoxalines and their Preliminary In-vivo Central Dopamine Antagonist Activity Evaluation in Mice. Journal of Pharmacy and Pharmacology, 2010, 52, 1369-1375.	2.4	27
41	Dual Histamine H ₃ R/Serotonin 5-HT ₄ R Ligands with Antiamnesic Properties: Pharmacophore-Based Virtual Screening and Polypharmacology. Journal of Chemical Information and Modeling, 2014, 54, 1773-1784.	5.4	27
42	5-HT6 receptor antagonists as treatment for age-related cognitive decline. Reviews in the Neurosciences, 2014, 25, 417-27.	2.9	26
43	Chronic ethanol consumption induces tolerance to the spatial memory impairing effects of acute ethanol administration in rats. Behavioural Brain Research, 2002, 136, 239-246.	2.2	23
44	Interactions of buprenorphine and dipotassium clorazepate on anxiety and memory functions in the mouse. Drug and Alcohol Dependence, 2006, 85, 103-113.	3.2	23
45	Effects of long-term methylphenidate treatment in adolescent and adult rats on hippocampal shape, functional connectivity and adult neurogenesis. Neuroscience, 2015, 309, 243-258.	2.3	23
46	Predicting sensorimotor and memory deficits after neonatal ischemic stroke with reperfusion in the rat. Behavioural Brain Research, 2010, 212, 56-63.	2.2	22
47	Longâ€Lasting Effects of Chronic Intermittent Alcohol Exposure in Adolescent Mice on Object Recognition and Hippocampal Neuronal Activity. Alcoholism: Clinical and Experimental Research, 2016, 40, 2591-2603.	2.4	22
48	Long-term evaluation of sensorimotor and mnesic behaviour following striatal NMDA-induced unilateral excitotoxic lesion in the mouse. Behavioural Brain Research, 2007, 178, 235-243.	2.2	20
49	Vezatin Is Essential for Dendritic Spine Morphogenesis and Functional Synaptic Maturation. Journal of Neuroscience, 2012, 32, 9007-9022.	3.6	20
50	Inhibiting Acetylcholinesterase to Activate Pleiotropic Prodrugs with Therapeutic Interest in Alzheimer's Disease. Molecules, 2019, 24, 2786.	3.8	20
51	A Novel in vivo Anti-amnesic Agent, Specially Designed to Express Both Acetylcholinesterase (AChE) Inhibitory, Serotonergic Subtype 4 Receptor (5-HT4R) Agonist and Serotonergic Subtype 6 Receptor (5-HT6R) Inverse Agonist Activities, With a Potential Interest Against Alzheimer's Disease. Frontiers in Aging Neuroscience, 2019, 11, 148	3.4	20
52	Pleiotropic prodrugs: Design of a dual butyrylcholinesterase inhibitor and 5-HT6 receptor antagonist with therapeutic interest in Alzheimer's disease. European Journal of Medicinal Chemistry, 2021, 210, 113059.	5.5	20
53	Characterizing age-related decline of recognition memory and brain activation profile in mice. Experimental Gerontology, 2018, 106, 222-231.	2.8	19
54	Donecopride, a Swiss army knife with potential against Alzheimer's disease. British Journal of Pharmacology, 2020, 177, 1988-2005.	5.4	19

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55	Review of 5-HT4R Ligands: State of Art and Clinical Applications. Current Topics in Medicinal Chemistry, 2010, 10, 527-553.	2.1	17
56	Repeated mild hypoxic exposures decrease anxiety-like behavior in the adult mouse together with an increased brain adrenomedullin gene expression. Behavioural Brain Research, 2012, 230, 78-84.	2.2	16
57	New arylhexahydropyrimidinediones: Synthesis, benzodiazepine receptor affinity and anticonvulsant activity. European Journal of Medicinal Chemistry, 1996, 31, 335-339.	5.5	15
58	New hypotheses for the binding mode of 4- and 7-substituted indazoles in the active site of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2012, 20, 5296-5304.	3.0	15
59	A Biphasic and Brain-Region Selective Down-Regulation of Cyclic Adenosine Monophosphate Concentrations Supports Object Recognition in the Rat. PLoS ONE, 2012, 7, e32244.	2.5	15
60	The effects of DHEA, 3β-hydroxy-5α-androstane-6,17-dione, and 7-amino-DHEA analogues on short term and long term memory in the mouse. Steroids, 2009, 74, 931-937.	1.8	13
61	Maternal hypertension during pregnancy modifies the response of the immature brain to hypoxia–ischemia: Sequential MRI and behavioral investigations. Experimental Neurology, 2012, 233, 264-272.	4.1	13
62	LPâ€211, a selective 5â€HT ₇ receptor agonist, increases noveltyâ€preference and promotes riskâ€prone behavior in rats. Synapse, 2017, 71, e21995.	1.2	13
63	Genomic transcriptional profiling in LOU/C/Jall rats identifies genes for successful aging. Brain Structure and Function, 2013, 218, 1501-1512.	2.3	12
64	Co-modulation of an allosteric modulator of nicotinic receptor-cholinesterase inhibitor (galantamine) and a 5-HT4 receptor agonist (RS-67333): effect on scopolamine-induced memory deficit in the mouse. Psychopharmacology, 2017, 234, 2365-2374.	3.1	12
65	Pyrrolothieno[1,4]diazepines part III: Synthesis of amino, hydrazino and mercapto derivatives. Journal of Heterocyclic Chemistry, 1996, 33, 87-91.	2.6	10
66	Effects of acute administration of melatonin on attentional, executive, and working memory processes in rats. Fundamental and Clinical Pharmacology, 2015, 29, 472-477.	1.9	9
67	Pyrrolothieno[1,4]diazepines: Synthesis of alkoxy derivatives. Journal of Heterocyclic Chemistry, 1995, 32, 1719-1724.	2.6	8
68	New orally effective 3-(2-nitro)phenylpropanamide analgesic derivatives: Synthesis and antinociceptive evaluation. European Journal of Medicinal Chemistry, 2013, 69, 728-734.	5.5	8
69	Thiazolo[4,3-c][1,4]benzodiazepines. I. Synthesis of amidine derivatives. Journal of Heterocyclic Chemistry, 1995, 32, 1741-1745.	2.6	7
70	Thiazolo[4,3â€ <i>c</i>][1,4]benzodiazepines. II. Synthesis of fused[<i>a</i>]triazolo, tetrazolo and oxadiazolo derivatives. Journal of Heterocyclic Chemistry, 1996, 33, 275-279.	2.6	7
71	Synthesis of new 6â€(4â€chlorophenyl)perhydroâ€1,3â€diazepineâ€2,4â€diones <i>via</i> ureidobutyric acids. Journal of Heterocyclic Chemistry, 1998, 35, 535-539.	2.6	7
72	Synthesis and preliminary behavioural evaluation in mice of new 3-aryl-3-pyrrol-1-ylpropanamides, analogues of FGIN-1–27 and FGIN-1–43. Journal of Pharmacy and Pharmacology, 2010, 53, 1561-1568.	2.4	7

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73	Repeated dexamphetamine treatment alters the dopaminergic system and increases the phMRI response to methylphenidate. PLoS ONE, 2017, 12, e0172776.	2.5	7
74	Synthesis of new thienocyclopenta[3,2â€ <i>d</i>]â€oxazole and thiazole derivatives. Journal of Heterocyclic Chemistry, 1993, 30, 799-802.	2.6	6
75	Pyirolothieno[1,4]diazepines. Part IV . First synthesis of pyrroloâ€{1,2â€ <i>a</i>]thieno[2,3â€ <i>f</i>][1,4]diazepine Derivatives. Journal of Heterocyclic Chemistry, 1996, 33, 1743-1749.	2.6	6
76	Synthesis and CNS Activity of New 3-Amino-3-arylpropionic Acid Derivatives. Pharmacy and Pharmacology Communications, 1999, 5, 217-223.	0.3	6
77	Deletion of the serotonin receptor type 7 disrupts the acquisition of allocentric but not egocentric navigation strategies in mice. Behavioural Brain Research, 2017, 320, 179-185.	2.2	6
78	Cerebral Antihypoxic Activity of New Thienyldihydropyridines Chemical and Pharmaceutical Bulletin, 1995, 43, 162-165.	1.3	5
79	Pyrrolothieno[1,4]diazepines. Part V. Study of their chemical reactivity and first synthesis of oxazino[4,3-c]pyrrolo[1,2-a]thieno[2,3-f] [1,4]diazepines. Journal of Heterocyclic Chemistry, 1997, 34, 1219-1225.	2.6	4
80	2-Oxo-2-(phen-2-ylpyrrol-2-yl)acetamides as potential anxiolytic agents: Synthesis and affinity at the central benzodiazepine receptor. European Journal of Medicinal Chemistry, 1998, 33, 201-207.	5.5	3
81	Synthesis and Evaluation of the CNS Activity of New 4-Alkoxyphenylimidazolidin-2-ones Chemical and Pharmaceutical Bulletin, 1998, 46, 711-714.	1.3	3
82	Synthesis and preliminaryin vivoevaluation of new 2-Aryl-6-methyl-1,2-dihydro-1H-pyridin-4-ones and 2-Aryl-6-methylpiperidin-4-ols, as potential anti-amnesiant agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 551-556.	5.2	3
83	In vitro and in vivo pharmacological profile of UFP-512, a novel selective δ-opioid receptor agonist; correlations between desensitization and tolerance. British Journal of Pharmacology, 2007, 152, 1325-1325.	5.4	3
84	Novel Object Recognition Test in Rodents:. Handbook of Behavioral Neuroscience, 2018, , 391-402.	0.7	2
85	Synthesis and psychotrope evaluation of new 3-ureidopropan-2-ols using the skin conductance reaction (SCR)-habituation test. European Journal of Medicinal Chemistry, 1994, 29, 761-766.	5.5	1
86	Combination of MAP6 deficit, maternal separation and MK801 in female mice: A 3-hit animal model of neurodevelopmental disorder with cognitive deficits. Behavioural Brain Research, 2021, 413, 113473.	2.2	1
87	Synthesis and Pharmacological Evaluation of New 3-Aryl-3-hydroxyaminopropionic Acids. Pharmacy and Pharmacology Communications, 1999, 5, 239-242.	0.3	0
88	Pharmacological Evaluation of New Baclofen Derivatives. Pharmacy and Pharmacology Communications, 1999, 5, 243-247.	0.3	0