

# Lucyna Antkiewicz-Michaluk

## List of Publications by Citations

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97  
papers

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35  
g-index

104  
ext. papers

1,876  
ext. citations

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4.49  
L-index

#	Paper	IF	Citations
97	Chronic administration of antidepressant drugs increases the density of cortical [3H]prazosin binding sites in the rat. <i>Brain Research</i> , <b>1984</b> , 310, 360-2	3.7	69
96	Different action on dopamine catabolic pathways of two endogenous 1,2,3,4-tetrahydroisoquinolines with similar antidopaminergic properties. <i>Journal of Neurochemistry</i> , <b>2001</b> , 78, 100-8	6	66
95	Effects of various Ca <sup>2+</sup> channel antagonists on morphine analgesia, tolerance and dependence, and on blood pressure in the rat. <i>European Journal of Pharmacology</i> , <b>1998</b> , 352, 189-97	5.3	58
94	Antidepressant-like effect of tetrahydroisoquinoline amines in the animal model of depressive disorder induced by repeated administration of a low dose of reserpine: behavioral and neurochemical studies in the rat. <i>Neurotoxicity Research</i> , <b>2014</b> , 26, 85-98	4.3	54
93	Reduction of morphine dependence and potentiation of analgesia by chronic co-administration of nifedipine. <i>Psychopharmacology</i> , <b>1993</b> , 111, 457-64	4.7	53
92	The mechanism of neuroprotective action of natural compounds. <i>Pharmacological Reports</i> , <b>2017</b> , 69, 851-860	3.9	49
91	The mechanism of 1,2,3,4-tetrahydroisoquinolines neuroprotection: the importance of free radicals scavenging properties and inhibition of glutamate-induced excitotoxicity. <i>Journal of Neurochemistry</i> , <b>2006</b> , 97, 846-56	6	49
90	Behavioural and biochemical studies of citalopram and WAY 100635 in rat chronic mild stress model. <i>Pharmacology Biochemistry and Behavior</i> , <b>2002</b> , 72, 465-74	3.9	46
89	Protective effect of 1-methyl-1,2,3,4-tetrahydroisoquinoline against dopaminergic neurodegeneration in the extrapyramidal structures produced by intracerebral injection of rotenone. <i>International Journal of Neuropsychopharmacology</i> , <b>2004</b> , 7, 155-63	5.8	44
88	Role of calcium channels in effects of antidepressant drugs on responsiveness to pain. <i>Psychopharmacology</i> , <b>1991</b> , 105, 269-74	4.7	39
87	1-methyl-1,2,3,4-tetrahydroisoquinoline protects against rotenone-induced mortality and biochemical changes in rat brain. <i>European Journal of Pharmacology</i> , <b>2003</b> , 466, 263-9	5.3	38
86	5-Hydroxytryptamine-like properties of m-chlorophenylpiperazine: comparison with quipazine. <i>Journal of Pharmacy and Pharmacology</i> , <b>1980</b> , 32, 220-2	4.8	37
85	A possible physiological role for cerebral tetrahydroisoquinolines. <i>Neurotoxicity Research</i> , <b>2003</b> , 5, 147-54	5.3	37
84	Inhibition of rodent brain monoamine oxidase and tyrosine hydroxylase by endogenous compounds - 1,2,3,4-tetrahydro-isoquinoline alkaloids. <i>Polish Journal of Pharmacology</i> , <b>2004</b> , 56, 727-34		35
83	Antidepressant-like effect of the selective 5-HT <sub>1B</sub> receptor agonist CP 94253: a possible mechanism of action. <i>European Journal of Pharmacology</i> , <b>2005</b> , 516, 46-50	5.3	34
82	Isobolographic analysis of interactions between 1-methyl-1,2,3,4-tetrahydroisoquinoline and four conventional antiepileptic drugs in the mouse maximal electroshock-induced seizure model. <i>European Journal of Pharmacology</i> , <b>2009</b> , 602, 298-305	5.3	33
81	Synthesis, antiarrhythmic, and antihypertensive effects of novel 1-substituted pyrrolidin-2-one and pyrrolidine derivatives with adrenolytic activity. <i>European Journal of Medicinal Chemistry</i> , <b>2002</b> , 37, 183-95	6.8	33

80	Anticonvulsant activity of some xanthone derivatives. <i>Bioorganic and Medicinal Chemistry</i> , <b>2008</b> , 16, 7234-44	5.4	32
79	Cortical dihydropyridine binding sites and a behavioral syndrome in morphine-abstinent rats. <i>European Journal of Pharmacology</i> , <b>1990</b> , 180, 129-35	5.3	32
78	1-Methyl-1,2,3,4-tetrahydroisoquinoline, an endogenous amine with unexpected mechanism of action: new vistas of therapeutic application. <i>Neurotoxicity Research</i> , <b>2014</b> , 25, 1-12	4.3	31
77	Increase in salsolinol level in the cerebrospinal fluid of parkinsonian patients is related to dementia: advantage of a new high-performance liquid chromatography methodology. <i>Biological Psychiatry</i> , <b>1997</b> , 42, 514-8	7.9	30
76	Increase in rat cortical [3H]naloxone binding site density after chronic administration of antidepressant agents. <i>European Journal of Pharmacology</i> , <b>1984</b> , 102, 179-81	5.3	29
75	Different effects of intranigral and intrastriatal administration of the proteasome inhibitor lactacystin on typical neurochemical and histological markers of Parkinson's disease in rats. <i>Neurochemistry International</i> , <b>2011</b> , 58, 839-49	4.4	28
74	Dopamine receptors in the striatum and limbic system of various strains of mice: relation to differences in responses to apomorphine. <i>Pharmacology Biochemistry and Behavior</i> , <b>1982</b> , 17, 1115-8	3.9	28
73	1-Methyl-1,2,3,4-tetrahydroisoquinoline antagonizes a rise in brain dopamine metabolism, glutamate release in frontal cortex and locomotor hyperactivity produced by MK-801 but not the disruptions of prepulse inhibition, and impairment of working memory in rat. <i>Neurotoxicity Research</i> , <b>2009</b> , 15, 15-23	4.3	27
72	Synthesis and pharmacological activity of new carbonyl derivatives of 1-aryl-2-iminoimidazolidine: part 2. Synthesis and pharmacological activity of 1,6-diaryl-5,7(1H)dioxo-2,3-dihydroimidazo[1,2-a][1,3,5]triazines. <i>European Journal of Medicinal Chemistry</i> , <b>2002</b> , 37, 761-72	6.8	24
71	3-Methoxytyramine, an extraneuronal dopamine metabolite plays a physiological role in the brain as an inhibitory regulator of catecholaminergic activity. <i>European Journal of Pharmacology</i> , <b>2008</b> , 599, 32-5	5.3	22
70	Antidepressant-like activity of the endogenous amine, 1-methyl-1,2,3,4-tetrahydroisoquinoline in the behavioral despair test in the rat, and its neurochemical correlates: a comparison with the classical antidepressant, imipramine. <i>European Journal of Pharmacology</i> , <b>2013</b> , 700, 110-7	5.3	21
69	1-Benzyl-1,2,3,4-tetrahydroisoquinoline, an endogenous parkinsonism-inducing toxin, strongly potentiates MAO-dependent dopamine oxidation and impairs dopamine release: ex vivo and in vivo neurochemical studies. <i>Neurotoxicity Research</i> , <b>2009</b> , 15, 15-23	4.3	21
68	The Effect of Chronic Mild Stress and Imipramine on the Markers of Oxidative Stress and Antioxidant System in Rat Liver. <i>Neurotoxicity Research</i> , <b>2016</b> , 30, 173-84	4.3	20
67	Chronic impairment of the vagus nerve function leads to inhibition of dopamine but not serotonin neurons in rat brain structures. <i>Pharmacological Reports</i> , <b>2012</b> , 64, 1359-67	3.9	20
66	Synthesis and pharmacological activity of new carbonyl derivatives of 1-aryl-2-iminoimidazolidine. Part 3. Synthesis and pharmacological activity of 1-aryl-5,6(1H)dioxo-2,3-dihydroimidazo[1,2-a]imidazoles. <i>European Journal of Medicinal Chemistry</i> , <b>2002</b> , 37, 845-53	6.8	20
65	Synthesis and pharmacological activity of new carbonyl derivatives of 1-aryl-2-iminoimidazolidine. Part 1. Synthesis and pharmacological activity of chain derivatives of 1-aryl-2-iminoimidazolidine containing urea moiety. <i>European Journal of Medicinal Chemistry</i> , <b>2001</b> , 36, 783-97	6.8	19
64	The Ca <sup>2+</sup> channel blockade changes the behavioral and biochemical effects of immobilization stress. <i>Neuropsychopharmacology</i> , <b>1999</b> , 20, 248-54	8.7	19
63	Effect of repetitive electroconvulsive treatment on sensitivity to pain and on [3H]nitrendipine binding sites in cortical and hippocampal membranes. <i>Psychopharmacology</i> , <b>1990</b> , 101, 240-3	4.7	19

62	Endogenous risk factors in Parkinson's disease: dopamine and tetrahydroisoquinolines. <i>Polish Journal of Pharmacology</i> , <b>2002</b> , 54, 567-72		19
61	Purification of a novel DBI processing product, DBI39-75, and characterization of its binding site in rat brain. <i>Regulatory Peptides</i> , <b>1994</b> , 50, 29-35		17
60	1-Methyl-1,2,3,4-tetrahydroisoquinoline enhances the anticonvulsant action of carbamazepine and valproate in the mouse maximal electroshock seizure model. <i>Neuropharmacology</i> , <b>2006</b> , 50, 133-42	5.5	16
59	Comparison of the effects of 1MeTIQ and olanzapine on performance in the elevated plus maze test and monoamine metabolism in the brain after ketamine treatment. <i>Pharmacology Biochemistry and Behavior</i> , <b>2019</b> , 181, 17-27	3.9	15
58	Salsolinol, an endogenous compound triggers a two-phase opposing action in the central nervous system. <i>Neurotoxicity Research</i> , <b>2015</b> , 27, 300-13	4.3	15
57	1,2,3,4-Tetrahydroisoquinoline produces an antidepressant-like effect in the forced swim test and chronic mild stress model of depression in the rat: Neurochemical correlates. <i>European Journal of Pharmacology</i> , <b>2014</b> , 729, 107-15	5.3	15
56	Search for new antiarrhythmic and hypotensive compounds. Synthesis, antiarrhythmic, antihypertensive, and alpha-adrenoceptor blocking activity of novel 1-[(2-hydroxy-3-amino)]-propylpyrrolidin-2-one derivatives. <i>Archiv Der Pharmazie</i> , <b>1997</b> , 330, 225-31	4.3	15
55	1-Methyl-1,2,3,4-tetrahydroisoquinoline, an endogenous Neuroprotectant and MAO inhibitor with antidepressant-like properties in the rat. <i>Neurotoxicity Research</i> , <b>2014</b> , 25, 323-34	4.3	14
54	Anticonvulsant evaluation of aminoalkanol derivatives of 2- and 4-methylxanthone. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 1190-8	3.4	14
53	1-Methyl-1,2,3,4-tetrahydroisoquinoline and established uncompetitive NMDA receptor antagonists induce tolerance to excitotoxicity. <i>Pharmacological Reports</i> , <b>2010</b> , 62, 1041-50	3.9	14
52	Important role of 3-methoxytyramine in the inhibition of cocaine sensitization by 1-methyl-1,2,3,4-tetrahydroisoquinoline: an in vivo microdialysis study. <i>Pharmacological Reports</i> , <b>2010</b> , 62, 983-97	3.9	13
51	Ca <sup>2+</sup> channel blockade prevents lysergic acid diethylamide-induced changes in dopamine and serotonin metabolism. <i>European Journal of Pharmacology</i> , <b>1997</b> , 332, 9-14	5.3	13
50	Nicotine produces antidepressant-like actions: Behavioral and neurochemical evidence. <i>European Journal of Pharmacology</i> , <b>2005</b> , 515, 128-33	5.3	13
49	Study of a mechanism responsible for potential antidepressant activity of EMD 386088, a 5-HT <sub>6</sub> partial agonist in rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2016</b> , 389, 839-49	3.4	13
48	Antidepressant-Like Effect of the Endogenous Neuroprotective Amine, 1MeTIQ in Clonidine-Induced Depression: Behavioral and Neurochemical Studies in Rats. <i>Neurotoxicity Research</i> , <b>2017</b> , 32, 94-106	4.3	12
47	Interactions of 1-methyl-1,2,3,4-tetrahydroisoquinoline with lamotrigine, oxcarbazepine, pregabalin, and topiramate in the mouse maximal electroshock-induced seizure model: a type I isobolographic analysis. <i>Epilepsy Research</i> , <b>2010</b> , 89, 207-19	3	12
46	Differences between haloperidol- and pimozide-induced withdrawal syndrome: a role for Ca <sup>2+</sup> channels. <i>European Journal of Pharmacology</i> , <b>1995</b> , 294, 459-67	5.3	12
45	Modification of effects of chronic electroconvulsive shock by voltage-dependent Ca <sup>2+</sup> channel blockade with nifedipine. <i>European Journal of Pharmacology</i> , <b>1994</b> , 254, 9-16	5.3	12

44	Neuroprotective Effect of the Endogenous Amine 1MeTIQ in an Animal Model of Parkinson's Disease. <i>Neurotoxicity Research</i> , <b>2016</b> , 29, 351-63	4.3	11
43	Resilient Phenotype in Chronic Mild Stress Paradigm Is Associated with Altered Expression Levels of miR-18a-5p and Serotonin 5-HT Receptor in Dorsal Part of the Hippocampus. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 7680-7693	6.2	11
42	Acute treatment with doxorubicin induced neurochemical impairment of the function of dopamine system in rat brain structures. <i>Pharmacological Reports</i> , <b>2016</b> , 68, 627-30	3.9	11
41	Effect of 1,2,3,4-tetrahydroisoquinoline administration under conditions of CYP2D inhibition on dopamine metabolism, level of tyrosine hydroxylase protein and the binding of [3H]GBR 12,935 to dopamine transporter in the rat nigrostriatal, dopaminergic system. <i>Brain Research</i> , <b>2004</b> , 1009, 67-81	3.7	11
40	Concentration-dependent opposite effects of 1-benzyl-1,2,3,4-tetrahydroisoquinoline on markers of apoptosis: in vitro and ex vivo studies. <i>Neurotoxicity Research</i> , <b>2014</b> , 25, 90-9	4.3	10
39	Different effects of chronic administration of haloperidol and pimozide on dopamine metabolism in the rat brain. <i>European Journal of Pharmacology</i> , <b>1996</b> , 313, 181-6	5.3	10
38	Multiple Administration of Endogenous Amines TIQ and 1MeTIQ Protects Against a 6-OHDA-Induced Essential Fall of Dopamine Release in the Rat Striatum: In Vivo Microdialysis Study. <i>Neurotoxicity Research</i> , <b>2018</b> , 33, 523-531	4.3	9
37	The significance of rotational behavior and sensitivity of striatal dopamine receptors in hemiparkinsonian rats: A comparative study of lactacystin and 6-OHDA. <i>Neuroscience</i> , <b>2017</b> , 340, 308-318	3.9	9
36	1MeTIQ provides protection against Aβ-induced reduction of surface expression of synaptic proteins and inhibits H <sub>2</sub> O <sub>2</sub> -induced oxidative stress in primary hippocampal neurons. <i>Neurotoxicity Research</i> , <b>2014</b> , 25, 348-57	4.3	9
35	Effects of the noradrenergic neurotoxin DSP-4 on the expression of α-adrenoceptor subtypes after antidepressant treatment. <i>Pharmacological Reports</i> , <b>2011</b> , 63, 1349-58	3.9	9
34	Pro-cognitive effect of 1MeTIQ on recognition memory in the ketamine model of schizophrenia in rats: the behavioural and neurochemical effects. <i>Psychopharmacology</i> , <b>2020</b> , 237, 1577-1593	4.7	8
33	Regulation of somatostatin receptor 2 in the context of antidepressant treatment response in chronic mild stress in rat. <i>Psychopharmacology</i> , <b>2018</b> , 235, 2137-2149	4.7	8
32	Comparative behavioral and neurochemical studies of R- and S-1-methyl-1,2,3,4-tetrahydroisoquinoline stereoisomers in the rat. <i>Pharmacological Reports</i> , <b>2012</b> , 64, 857-69	3.9	8
31	Synthesis, physicochemical properties, anticonvulsant activities, and GABA-ergic and voltage-sensitive calcium channel receptor affinities of alpha-substituted N-benzylamides of gamma-hydroxybutyric acid. Part 4: Search for new anticonvulsant compounds. <i>Archiv Der Pharmazie</i> , <b>1999</b> , 332, 167-74	4.3	8
30	The impact of 1MeTIQ on the dopaminergic system function in the 6-OHDA model of Parkinson's disease. <i>Pharmacological Reports</i> , <b>2016</b> , 68, 1205-1213	3.9	8
29	Antidepressant-like effect of 1,2,3,4-tetrahydroisoquinoline and its methyl derivative in animal models of depression. <i>Pharmacological Reports</i> , <b>2017</b> , 69, 566-574	3.9	7
28	Comparison of the Effects of Acute and Chronic Administration of Tetrahydroisoquinoline Amines on the In Vivo Dopamine Release: A Microdialysis Study in the Rat Striatum. <i>Neurotoxicity Research</i> , <b>2016</b> , 30, 648-657	4.3	7
27	Both stereoselective (R)- and (S)-1-Methyl-1,2,3,4-tetrahydroisoquinoline enantiomers protect striatal terminals against rotenone-induced suppression of dopamine release. <i>Neurotoxicity Research</i> , <b>2011</b> , 20, 134-49	4.3	7

26	Differential involvement of voltage-dependent calcium channels in apomorphine-induced hypermotility and stereotypy. <i>Psychopharmacology</i> , <b>1994</b> , 113, 555-60	4.7	7
25	The effect of chronic imipramine and electroconvulsive shock treatment on [3H]DADLE binding to cortical membranes of rats pretreated with chronic reserpine or 6-hydroxydopamine. <i>Pharmacology Biochemistry and Behavior</i> , <b>1987</b> , 26, 203-6	3.9	7
24	Changes in Monoaminergic Neurotransmission in an Animal Model of Osteoarthritis: The Role of Endocannabinoid Signaling. <i>Frontiers in Molecular Neuroscience</i> , <b>2018</b> , 11, 466	6.1	7
23	1-Benzyl-1,2,3,4-tetrahydroisoquinoline, an endogenous neurotoxic compound, disturbs the behavioral and biochemical effects of L-DOPA: in vivo and ex vivo studies in the rat. <i>Neurotoxicity Research</i> , <b>2014</b> , 26, 240-54	4.3	6
22	The adenosinergic system is involved in sensitization to morphine withdrawal signs in rats-neurochemical and molecular basis in dopaminergic system. <i>Psychopharmacology</i> , <b>2016</b> , 233, 2383-97	4.7	6
21	Withdrawal from repeated administration of a low dose of reserpine induced opposing adaptive changes in the noradrenaline and serotonin system function: a behavioral and neurochemical ex vivo and in vivo studies in the rat. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2017</b> , 77, 115-24	5.5	5
20	Novel antagonists of 5-HT and/or 5-HT receptors affect the brain monoamines metabolism and enhance the anti-immobility activity of different antidepressants in rats. <i>Behavioural Brain Research</i> , <b>2019</b> , 359, 9-16	3.4	5
19	Role of noradrenergic system in the mechanism of action of endogenous neurotoxin 1,2,3,4-tetrahydroisoquinoline: biochemical and functional studies. <i>Polish Journal of Pharmacology</i> , <b>2002</b> , 54, 19-25		5
18	Repeated Transcranial Direct Current Stimulation Induces Behavioral, Metabolic and Neurochemical Effects in Rats on High-Calorie Diet. <i>Frontiers in Behavioral Neuroscience</i> , <b>2017</b> , 11, 262	3.5	4
17	Conditioned rewarding stimulus associated with cocaine self-administration reverses the depression of catecholamine brain systems following cocaine withdrawal in rats. <i>International Journal of Neuropsychopharmacology</i> , <b>2006</b> , 9, 37-50	5.8	4
16	Plasticity of extrapyramidal dopamine system in Parkinson's disease - A postmortem study. <i>Neuroscience Research Communications</i> , <b>1999</b> , 25, 97-109		4
15	1-Methyl-1,2,3,4-tetrahydroisoquinoline - The toxicological research on an exo/endogenous amine with antidepressant-like activity - In vivo, in vitro and in silico studies. <i>Pharmacological Reports</i> , <b>2019</b> , 71, 1140-1146	3.9	3
14	Effect of 1-methyl-1,2,3,4-tetrahydroisoquinoline on the protective action of various antiepileptic drugs in the maximal electroshock-induced seizure model: a type II isobolographic analysis. <i>Journal of Neural Transmission</i> , <b>2013</b> , 120, 1651-63	4.3	3
13	Differences in effects of Ca <sup>2+</sup> channel antagonists on dopamine metabolism in the limbic and extrapyramidal dopaminergic structures. <i>Psychopharmacology</i> , <b>1996</b> , 128, 39-44	4.7	3
12	Serotonin, dopamine, noradrenaline and their metabolites: levels in the brain of the house cricket ( <i>Acheta domesticus</i> L.) during a 24-hour period and after administration of quipazine--a 5-HT <sub>2</sub> receptor agonist. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , <b>1991</b> , 100, 365-71		3
11	Chronic salsolinol administration prevents the behavioral and neurochemical effects of L-DOPA in rats. <i>Neurotoxicity Research</i> , <b>2015</b> , 27, 399-410	4.3	2
10	Combined brain Fe, Cu, Zn and neurometabolite analysis - a new methodology for unraveling the efficacy of transcranial direct current stimulation (tDCS) in appetite control. <i>Metallomics</i> , <b>2018</b> , 10, 397-405	4.5	2
9	Effects of chronically administered antidepressants and electroconvulsive treatment on cerebral neurotransmitter receptors in rodents with T model depression. <i>Novartis Foundation Symposium</i> , <b>1986</b> , 123, 234-45		2



- 8 The Protective Effect of Repeated 1MeTIQ Administration on the Lactacystin-Induced Impairment of Dopamine Release and Decline in TH Level in the Rat Brain. *Neurotoxicity Research*, **2018**, 34, 706-716 <sup>4.3</sup> 2
- 7 1-Methyl-1,2,3,4-Tetrahydroisoquinoline: A Potent Neuroprotecting Agent **2012**, 45-56 2
- 6 Isoquinolines as Neurotoxins: Action and Molecular Mechanism **2012**, 31-43 1
- 5 1MeTIQ and olanzapine, despite their neurochemical impact, did not ameliorate performance in fear conditioning and social interaction tests in an MK-801 rat model of schizophrenia. *Pharmacological Reports*, **2021**, 73, 490-505 3.9 1
- 4 Antidopaminergic Effects of Putative Endogenous MPTP-Like Agents: 1,2,3,4-Tetrahydroisoquinoline and 1-Methyl-6,7-Dihydroxy-1,2,3,4-Tetrahydroisoquinoline **2000**, 105-110
- 3 1-Methyl-1,2,3,4-Tetrahydroisoquinoline and Addiction: Experimental Studies **2012**, 57-74
- 2 Psychiatric Disorders in Animal Models of Depression **2021**, 1-13
- 1 Nicotine potentiates imipramine-induced effects on catecholamine metabolism: possible relation to antidepressant activity. *Pharmacological Reports*, **2006**, 58, 836-45 3.9