

Philippe De Deurwaerdre

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

4,604
citations

38
h-index

64
g-index

140
ext. papers

5,235
ext. citations

5.4
avg, IF

5.79
L-index

#	Paper	IF	Citations
122	Nicotine modulation of the lateral habenula/ventral tegmental area circuit dynamics: An electrophysiological study in rats. <i>Neuropharmacology</i> , 2022 , 202, 108859	5.5	1
121	Serotonin 2022 , 6356-6363		
120	Simulated Microgravity Subtly Changes Monoamine Function across the Rat Brain. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
119	Lateral Habenula 5-HT Receptor Function Is Altered by Acute and Chronic Nicotine Exposures. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
118	5-HT interaction with other neurotransmitters: An overview. <i>Progress in Brain Research</i> , 2021 , 259, 1-5	2.9	2
117	Serotonin modulation of hippocampal functions: From anatomy to neurotherapeutics. <i>Progress in Brain Research</i> , 2021 , 261, 83-158	2.9	2
116	Serotonin/dopamine interaction: Electrophysiological and neurochemical evidence. <i>Progress in Brain Research</i> , 2021 , 261, 161-264	2.9	2
115	Serotonergic control of the glutamatergic neurons of the subthalamic nucleus. <i>Progress in Brain Research</i> , 2021 , 261, 423-462	2.9	1
114	Multiple facets of serotonergic modulation. <i>Progress in Brain Research</i> , 2021 , 261, 3-39	2.9	2
113	L-DOPA and 5-HTP modulation of air-stepping in newborn rats. <i>Journal of Physiology</i> , 2021 , 599, 4455-4476	3.7	1
112	Acute and Chronic Nicotine Exposures Differentially Affect Central Serotonin 2A Receptor Function: Focus on the Lateral Habenula. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
111	Serotonin in Animal Cognition and Behavior. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	59
110	Lorcaserin Alters Serotonin and Noradrenaline Tissue Content and Their Interaction With Dopamine in the Rat Brain. <i>Frontiers in Pharmacology</i> , 2020 , 11, 962	5.6	5
109	The pesticide fipronil injected into the substantia nigra of male rats decreases striatal dopamine content: A neurochemical, immunohistochemical and behavioral study. <i>Behavioural Brain Research</i> , 2020 , 384, 112562	3.4	10
108	Constitutive activity of 5-HT receptors: Factual analysis. <i>Neuropharmacology</i> , 2020 , 168, 107967	5.5	27
107	Serotonergic control of excitability: from neuron to networks. <i>Handbook of Behavioral Neuroscience</i> , 2020 , 31, 197-215	0.7	2
106	The Noradrenergic System in Parkinson's Disease. <i>Frontiers in Pharmacology</i> , 2020 , 11, 435	5.6	22

105 Motivation and motivational aspects of Parkinson's disease **2020**, 497-509

104 Lorcaserin bidirectionally regulates dopaminergic function site-dependently and disrupts dopamine brain area correlations in rats. *Neuropharmacology*, **2020**, 166, 107915 5.5 14

103 A Subset of Purposeless Oral Movements Triggered by Dopaminergic Agonists Is Modulated by 5-HT Receptors in Rats: Implication of the Subthalamic Nucleus. *International Journal of Molecular Sciences*, **2020**, 21, 6.3 1

102 Chronic Administration of Fipronil Heterogeneously Alters the Neurochemistry of Monoaminergic Systems in the Rat Brain. *International Journal of Molecular Sciences*, **2020**, 21, 6.3 7

101 Early neurochemical modifications of monoaminergic systems in the R6/1 mouse model of Huntington's disease. *Neurochemistry International*, **2019**, 128, 186-195 4.4 14

100 Neurochemical impact of the 5-HT receptor agonist WAY-163909 on monoamine tissue content in the rat brain. *Neurochemistry International*, **2019**, 124, 245-255 4.4 17

99 Reciprocal interaction between monoaminergic systems and the pedunculopontine nucleus: Implication in the mechanism of L-DOPA. *Neurobiology of Disease*, **2019**, 128, 9-18 7.5 2

98 Effect of the 5-HT Receptor Agonist WAY-163909 on Serotonin and Dopamine Metabolism across the Rat Brain: A Quantitative and Qualitative Neurochemical Study. *International Journal of Molecular Sciences*, **2019**, 20, 6.3 8

97 L-DOPA in Parkinson's Disease: Looking at the "False" Neurotransmitters and Their Meaning. *International Journal of Molecular Sciences*, **2019**, 21, 6.3 32

96 5-HT2A Receptors in the Basal Ganglia **2018**, 273-310 0

95 Role of Serotonin2A (5-HT2A) Receptors in Epilepsy **2018**, 375-394

94 Preferential modulation of the lateral habenula activity by serotonin-2A rather than -2C receptors: Electrophysiological and neuroanatomical evidence. *CNS Neuroscience and Therapeutics*, **2018**, 24, 721-733 6.8 16

93 Inter-individual differences in the impulsive/compulsive dimension: deciphering related dopaminergic and serotonergic metabolisms at rest. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373, 5.8 20

92 Pharmacological Analysis in Favour of a Physiological Role for the Constitutive Activity of 5-HT2A Receptors in Learning **2018**, 3-29

91 TCB-2 [(7R)-3-bromo-2, 5-dimethoxy-bicyclo[4.2.0]octa-1,3,5-trien-7-yl]methanamine]: A hallucinogenic drug, a selective 5-HT receptor pharmacological tool, or none of the above?. *Neuropharmacology*, **2018**, 142, 20-29 5.5 12

90 Lead-Induced Atypical Parkinsonism in Rats: Behavioral, Electrophysiological, and Neurochemical Evidence for a Role of Noradrenaline Depletion. *Frontiers in Neuroscience*, **2018**, 12, 173 5.1 2

89 Exogenous LRRK2G2019S induces parkinsonian-like pathology in a nonhuman primate. *JCI Insight*, **2018**, 3, 9.9 19

88 Does the Serotonin2C receptor segregate circuits of the basal ganglia responding to cingulate cortex stimulation?. *CNS Neuroscience and Therapeutics*, **2018**, 24, 741-744 6.8 8

87	Alteration of nociceptive integration in the spinal cord of a rat model of Parkinson's disease. <i>Movement Disorders</i> , 2018 , 33, 1010-1015	7	16
86	Serotonergic modulation of the activity of mesencephalic dopaminergic systems: Therapeutic implications. <i>Progress in Neurobiology</i> , 2017 , 151, 175-236	10.9	99
85	Expanding the repertoire of L-DOPA's actions: A comprehensive review of its functional neurochemistry. <i>Progress in Neurobiology</i> , 2017 , 151, 57-100	10.9	72
84	Correlative analysis of dopaminergic and serotonergic metabolism across the brain to study monoaminergic function and interaction. <i>Journal of Neuroscience Methods</i> , 2017 , 280, 54-63	3	19
83	Purposeless oral activity induced by meta-chlorophenylpiperazine (m-CPP): Undefined tic-like behaviors?. <i>Journal of Neuroscience Methods</i> , 2017 , 292, 30-36	3	20
82	Cortico-subthalamic inputs from the motor, limbic, and associative areas in normal and dopamine-depleted rats are not fully segregated. <i>Brain Structure and Function</i> , 2017 , 222, 2473-2485	4	12
81	Comparative Analysis of the Neurochemical Profile and MAO Inhibition Properties of N-(Furan-2-ylmethyl)-N-methylprop-2-yn-1-amine. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 1026-1035	5.7	19
80	Impairment of Serotonergic Transmission by the Antiparkinsonian Drug L-DOPA: Mechanisms and Clinical Implications. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 274	6.1	16
79	Antiparkinsonian Treatment for Depression in Parkinson's Disease: Are Selective Serotonin Reuptake Inhibitors Recommended?. <i>Translational Neuroscience and Clinics</i> , 2016 , 2, 138-149		1
78	L-DOPA elicits non-vesicular releases of serotonin and dopamine in hemiparkinsonian rats in vivo. <i>European Neuropsychopharmacology</i> , 2016 , 26, 1297-309	1.2	15
77	New therapeutic opportunities for 5-HT _{2C} receptor ligands in neuropsychiatric disorders. <i>Pharmacology & Therapeutics</i> , 2016 , 157, 125-62	13.9	76
76	Cariprazine: New dopamine biased agonist for neuropsychiatric disorders. <i>Drugs of Today</i> , 2016 , 52, 97-110	10.5	19
75	Monoaminergic Mechanisms in Epilepsy May Offer Innovative Therapeutic Opportunity for Monoaminergic Multi-Target Drugs. <i>Frontiers in Neuroscience</i> , 2016 , 10, 492	5.1	37
74	Monoaminergic and Histaminergic Strategies and Treatments in Brain Diseases. <i>Frontiers in Neuroscience</i> , 2016 , 10, 541	5.1	35
73	Early prenatal exposure to MPTP does not affect nigrostriatal neurons in macaque monkey. <i>Synapse</i> , 2016 , 70, 52-6	2.4	3
72	The acute and long-term L-DOPA effects are independent from changes in the activity of dorsal raphe serotonergic neurons in 6-OHDA lesioned rats. <i>British Journal of Pharmacology</i> , 2016 , 173, 2135-46	8.6	23
71	Prefronto-subcortical imbalance characterizes poor decision-making: neurochemical and neural functional evidences in rats. <i>Brain Structure and Function</i> , 2015 , 220, 3485-96	4	18
70	Pathophysiology of L-dopa-induced motor and non-motor complications in Parkinson's disease. <i>Progress in Neurobiology</i> , 2015 , 132, 96-168	10.9	282

69	Serotonin, but not dopamine, controls the stress response and anxiety-like behavior in the crayfish <i>Procambarus clarkii</i> . <i>Journal of Experimental Biology</i> , 2015 , 218, 2745-52	3	37
68	The impact of combined administration of paraquat and maneb on motor and non-motor functions in the rat. <i>Neuroscience</i> , 2015 , 311, 118-29	3.9	22
67	Widespread Monoaminergic Dysregulation of Both Motor and Non-Motor Circuits in Parkinsonism and Dyskinesia. <i>Cerebral Cortex</i> , 2015 , 25, 2783-92	5.1	38
66	Monoamine content during the reproductive cycle of <i>Perna perna</i> depends on site of origin on the Atlantic Coast of Morocco. <i>Scientific Reports</i> , 2015 , 5, 13715	4.9	15
65	The 5-HT4 Agonist Prucalopride Stimulates L-DOPA-Induced Dopamine Release in Restricted Brain Regions of the Hemiparkinsonian Rat In Vivo. <i>CNS Neuroscience and Therapeutics</i> , 2015 , 21, 745-7	6.8	16
64	Blood withdrawal affects iron store dynamics in primates with consequences on monoaminergic system function. <i>Neuroscience</i> , 2015 , 290, 621-35	3.9	23
63	Noradrenergic terminals regulate L-DOPA-derived dopamine extracellular levels in a region-dependent manner in Parkinsonian rats. <i>CNS Neuroscience and Therapeutics</i> , 2014 , 20, 671-8	6.8	21
62	N-(furan-2-ylmethyl)-N-methylprop-2-yn-1-amine (F2MPA): A potential cognitive enhancer with MAO inhibitor properties. <i>CNS Neuroscience and Therapeutics</i> , 2014 , 20, 633-40	6.8	8
61	Comparative behavior. Anxiety-like behavior in crayfish is controlled by serotonin. <i>Science</i> , 2014 , 344, 1293-7	33.3	115
60	NMDA receptor antagonism potentiates the L-DOPA-induced extracellular dopamine release in the subthalamic nucleus of hemi-parkinson rats. <i>Neuropharmacology</i> , 2014 , 85, 198-205	5.5	13
59	L-dopa-induced dyskinesia: beyond an excessive dopamine tone in the striatum. <i>Scientific Reports</i> , 2014 , 4, 3730	4.9	53
58	Monoaminergic control of spinal locomotor networks in SOD1G93A newborn mice. <i>Frontiers in Neural Circuits</i> , 2014 , 8, 77	3.5	11
57	Predicting dopaminergic effects of L-DOPA in the treatment for Parkinson's disease. <i>CNS Neuroscience and Therapeutics</i> , 2014 , 20, 699-701	6.8	8
56	Role(s) of the 5-HT2C receptor in the development of maximal dentate activation in the hippocampus of anesthetized rats. <i>CNS Neuroscience and Therapeutics</i> , 2014 , 20, 651-61	6.8	33
55	Manganese-induced atypical parkinsonism is associated with altered Basal Ganglia activity and changes in tissue levels of monoamines in the rat. <i>PLoS ONE</i> , 2014 , 9, e98952	3.7	28
54	Role of Central Serotonin Receptors in Nicotine Addiction 2014 , 279-305		1
53	L-DOPA and the Brain Pattern of Dopamine Extracellular Levels 2014 , 251		
52	Role of 5-HT2C receptors in the enhancement of c-Fos expression induced by a 5-HT2B/2C inverse agonist and 5-HT 2 agonists in the rat basal ganglia. <i>Experimental Brain Research</i> , 2013 , 230, 525-35	2.3	22

51	Multiple controls exerted by 5-HT _{2C} receptors upon basal ganglia function: from physiology to pathophysiology. <i>Experimental Brain Research</i> , 2013 , 230, 477-511	2-3	32
50	The enhanced oral response to the 5-HT ₂ agonist Ro 60-0175 in parkinsonian rats involves the entopeduncular nucleus: electrophysiological correlates. <i>Experimental Brain Research</i> , 2013 , 230, 513-24 ²⁻³		13
49	Multisite intracerebral microdialysis to study the mechanism of L-DOPA induced dopamine and serotonin release in the parkinsonian brain. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 680-92	5-7	41
48	Intrapallidal administration of 6-hydroxydopamine mimics in large part the electrophysiological and behavioral consequences of major dopamine depletion in the rat. <i>Neuroscience</i> , 2013 , 236, 289-97	3-9	21
47	Catecholamine/Serotonin interactions: systems thinking for brain function and disease. <i>Advances in Pharmacology</i> , 2013 , 68, 167-97	5-7	45
46	Monoamines tissue content analysis reveals restricted and site-specific correlations in brain regions involved in cognition. <i>Neuroscience</i> , 2013 , 255, 233-45	3-9	44
45	A tobacco extract containing alkaloids induces distinct effects compared to pure nicotine on dopamine release in the rat. <i>Neuroscience Letters</i> , 2013 , 544, 85-8	3-3	9
44	Serotonin _{2C} ligands exhibiting full negative and positive intrinsic activity elicit purposeless oral movements in rats: distinct effects of agonists and inverse agonists in a rat model of Parkinson's disease. <i>International Journal of Neuropsychopharmacology</i> , 2013 , 16, 593-606	5-8	28
43	Serotonin _{2C} Receptors and the Motor Control of Oral Activity. <i>Current Neuropharmacology</i> , 2013 , 11, 160-70	7-6	14
42	Serotonin _{2c} receptor constitutive activity: in vivo direct and indirect evidence and functional significance. <i>Central Nervous System Agents in Medicinal Chemistry</i> , 2013 , 13, 98-107	1-8	10
41	Diverse effects of 5-HT _{2C} receptor blocking agents on c-Fos expression in the rat basal ganglia. <i>European Journal of Pharmacology</i> , 2012 , 689, 8-16	5-3	10
40	Emerging dysfunctions consequent to combined monoaminergic depletions in Parkinsonism. <i>Neurobiology of Disease</i> , 2012 , 45, 763-73	7-5	82
39	Contribution of serotonergic transmission to the motor and cognitive effects of high-frequency stimulation of the subthalamic nucleus or levodopa in Parkinson's disease. <i>Molecular Neurobiology</i> , 2012 , 45, 173-85	6-2	32
38	Lead intoxication induces noradrenaline depletion, motor nonmotor disabilities, and changes in the firing pattern of subthalamic nucleus neurons. <i>Neuroscience</i> , 2012 , 210, 375-83	3-9	18
37	What can we expect from the serotonergic side of L-DOPA?. <i>Revue Neurologique</i> , 2012 , 168, 927-38	3	3
36	Imbalanced Dopaminergic Transmission Mediated by Serotonergic Neurons in L-DOPA-Induced Dyskinesia. <i>Parkinson's Disease</i> , 2012 , 2012, 323686	2-6	31
35	Chronic L-DOPA therapy alters central serotonergic function and L-DOPA-induced dopamine release in a region-dependent manner in a rat model of Parkinson's disease. <i>Neurobiology of Disease</i> , 2011 , 41, 585-90	7-5	83
34	Presynaptic control of serotonin on striatal dopamine function. <i>Psychopharmacology</i> , 2011 , 213, 213-42	4-7	81

33	Noradrenaline and Parkinson's disease. <i>Frontiers in Systems Neuroscience</i> , 2011 , 5, 31	3.5	139
32	L-DOPA and serotonergic neurons: functional implication and therapeutic perspectives in Parkinson's disease. <i>Central Nervous System Agents in Medicinal Chemistry</i> , 2011 , 11, 305-20	1.8	19
31	The Constitutive Activity of 5-HT _{2C} Receptors as an Additional Modality of Interaction of the Serotonergic System. <i>Receptors</i> , 2011 , 187-213		3
30	Physiological and Pathophysiological Aspects of 5-HT _{2c} Receptors in Basal Ganglia. <i>Receptors</i> , 2011 , 351-382		1
29	High-frequency stimulation of the subthalamic nucleus and L-3,4-dihydroxyphenylalanine inhibit in vivo serotonin release in the prefrontal cortex and hippocampus in a rat model of Parkinson's disease. <i>Journal of Neuroscience</i> , 2010 , 30, 2356-64	6.6	82
28	Selective blockade of serotonin 2C receptor enhances Fos expression specifically in the striatum and the subthalamic nucleus within the basal ganglia. <i>Neuroscience Letters</i> , 2010 , 469, 251-5	3.3	20
27	Stimulation of serotonin _{2C} receptors elicits abnormal oral movements by acting on pathways other than the sensorimotor one in the rat basal ganglia. <i>Neuroscience</i> , 2010 , 169, 158-70	3.9	37
26	Serotonergic neurons mediate ectopic release of dopamine induced by L-DOPA in a rat model of Parkinson's disease. <i>Neurobiology of Disease</i> , 2010 , 38, 136-43	7.5	149
25	Clozapine and haloperidol differentially alter the constitutive activity of central serotonin _{2C} receptors in vivo. <i>Biological Psychiatry</i> , 2006 , 59, 568-75	7.9	44
24	Regionally and functionally distinct serotonin ₃ receptors control in vivo dopamine outflow in the rat nucleus accumbens. <i>Journal of Neurochemistry</i> , 2005 , 94, 140-9	6	43
23	In vivo evidence that 5-HT _{2C} receptor antagonist but not agonist modulates cocaine-induced dopamine outflow in the rat nucleus accumbens and striatum. <i>Neuropsychopharmacology</i> , 2004 , 29, 319-26	8.7	85
22	Constitutive activity of the serotonin _{2C} receptor inhibits in vivo dopamine release in the rat striatum and nucleus accumbens. <i>Journal of Neuroscience</i> , 2004 , 24, 3235-41	6.6	266
21	Inhibition of 5-HT neurotransmission increases clonidine protective effects on naloxone-induced conditioned place aversion in morphine-dependent rats. <i>Neuropsychopharmacology</i> , 2003 , 28, 276-83	8.7	12
20	Conditional involvement of striatal serotonin ₃ receptors in the control of in vivo dopamine outflow in the rat striatum. <i>European Journal of Neuroscience</i> , 2003 , 17, 771-81	3.5	48
19	Selective serotonin reuptake inhibitors enhance cocaine-induced locomotor activity and dopamine release in the nucleus accumbens. <i>Neuropharmacology</i> , 2003 , 44, 342-53	5.5	49
18	Intrastriatal administration of sigma ligands inhibits basal dopamine release in vivo. <i>Neuropharmacology</i> , 2003 , 45, 945-53	5.5	28
17	Central 5-HT ₄ receptors and dopamine-dependent motor behaviors: searching for a functional role. <i>Pharmacology Biochemistry and Behavior</i> , 2002 , 71, 627-33	3.9	10
16	5-HT _{2A} and 5-HT _{2C/2B} receptor subtypes modulate dopamine release induced in vivo by amphetamine and morphine in both the rat nucleus accumbens and striatum. <i>Neuropsychopharmacology</i> , 2002 , 26, 311-24	8.7	166

15	Central serotonin ₄ receptors selectively regulate the impulse-dependent exocytosis of dopamine in the rat striatum: in vivo studies with morphine, amphetamine and cocaine. <i>Neuropharmacology</i> , 2002 , 43, 1099-109	5.5	47
14	D-amphetamine-induced behavioral sensitization: effect of lesioning dopaminergic terminals in the medial prefrontal cortex, the amygdala and the entorhinal cortex. <i>Neuroscience</i> , 2002 , 109, 499-516	3.9	50
13	Neurochemical and electrophysiological evidence that 5-HT ₄ receptors exert a state-dependent facilitatory control in vivo on nigrostriatal, but not mesoaccumbal, dopaminergic function. <i>European Journal of Neuroscience</i> , 2001 , 13, 889-98	3.5	40
12	The nigrostriatal dopamine system: a neglected target for 5-HT _{2C} receptors. <i>Trends in Pharmacological Sciences</i> , 2001 , 22, 502-4	13.2	34
11	Nigrostriatal lesions alter oral dyskinesia and c-Fos expression induced by the serotonin agonist 1-(m-chlorophenyl)piperazine in adult rats. <i>Journal of Neuroscience</i> , 2000 , 20, 5170-8	6.6	41
10	Endogenous serotonin enhances the release of dopamine in the striatum only when nigro-striatal dopaminergic transmission is activated. <i>Neuropharmacology</i> , 2000 , 39, 1984-95	5.5	44
9	The effect of serotonergic agents on haloperidol-induced striatal dopamine release in vivo: opposite role of 5-HT _{2A} and 5-HT _{2C} receptor subtypes and significance of the haloperidol dose used. <i>Neuropharmacology</i> , 2000 , 39, 1053-63	5.5	68
8	Role of serotonin _{2A} and serotonin _{2B/2C} receptor subtypes in the control of accumbal and striatal dopamine release elicited in vivo by dorsal raphe nucleus electrical stimulation. <i>Journal of Neurochemistry</i> , 1999 , 73, 1033-42	6	128
7	Selective blockade of serotonin _{2C/2B} receptors enhances mesolimbic and mesostriatal dopaminergic function: a combined in vivo electrophysiological and microdialysis study. <i>Neuroscience</i> , 1999 , 91, 587-97	3.9	188
6	Opposite change of in vivo dopamine release in the rat nucleus accumbens and striatum that follows electrical stimulation of dorsal raphe nucleus: role of 5-HT ₃ receptors. <i>Journal of Neuroscience</i> , 1998 , 18, 6528-38	6.6	126
5	8-OH-DPAT, a 5-HT _{1A} agonist and ritanserin, a 5-HT _{2A/C} antagonist, reverse haloperidol-induced catalepsy in rats independently of striatal dopamine release. <i>Psychopharmacology</i> , 1997 , 131, 57-63	4.7	91
4	Serotonin stimulation of 5-HT ₄ receptors indirectly enhances in vivo dopamine release in the rat striatum. <i>Journal of Neurochemistry</i> , 1997 , 68, 195-203	6	49
3	Serotonin enhances striatal dopamine outflow in vivo through dopamine uptake sites. <i>Journal of Neurochemistry</i> , 1996 , 66, 210-5	6	55
2	d-fenfluramine increases striatal extracellular dopamine in vivo independently of serotonergic terminals or dopamine uptake sites. <i>Journal of Neurochemistry</i> , 1995 , 65, 1100-8	6	44
1	Evidence for 5-HT ₄ receptor subtype involvement in the enhancement of striatal dopamine release induced by serotonin: a microdialysis study in the halothane-anesthetized rat. <i>Neuropharmacology</i> , 1995 , 34, 269-79	5.5	120