

Dasiel Oscar Borroto Escuela

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#	Paper	IF	Citations
4 ¹⁶	Receptor activity and turnover of dopamine and noradrenaline after neuroleptics. <i>European Journal of Pharmacology</i> , 1970 , 11, 303-14	5.3	890
4 ¹⁵	Evidence for dopamine receptor stimulation by apomorphine. <i>Journal of Pharmacy and Pharmacology</i> , 1967 , 19, 627-9	4.8	804
4 ¹⁴	Adenosine-dopamine receptor-receptor interactions as an integrative mechanism in the basal ganglia. <i>Trends in Neurosciences</i> , 1997 , 20, 482-7	13.3	676
4 ¹³	CELLULAR LOCALIZATION OF MONOAMINES IN THE SPINAL CORD. <i>Acta Physiologica Scandinavica</i> , 1964 , 60, 112-9		469
4 ¹²	On the projections from the locus coeruleus noradrenaline neurons: the cerebellar innervation. <i>Brain Research</i> , 1971 , 28, 165-71	3.7	442
4 ¹¹	Coaggregation, cointernalization, and codesensitization of adenosine A2A receptors and dopamine D2 receptors. <i>Journal of Biological Chemistry</i> , 2002 , 277, 18091-7	5.4	393
4 ¹⁰	Heterogeneity of striatal and limbic dopamine innervation: highly fluorescent islands in developing and adult rats. <i>Brain Research</i> , 1972 , 44, 283-8	3.7	375
4 ⁰⁹	Targeting adenosine A2A receptors in Parkinson's disease. <i>Trends in Neurosciences</i> , 2006 , 29, 647-54	13.3	364
4 ⁰⁸	Evidence for the existence of monoamine neurons in the central nervous system. <i>Cell and Tissue Research</i> , 1965 , 65, 573-596	4.2	363
4 ⁰⁷	Adenosine A2A-dopamine D2 receptor-receptor heteromerization: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46741-9	5.4	353
4 ⁰⁶	Functional role of the nigro-neostriatal dopamine neurons. <i>Acta Pharmacologica Et Toxicologica</i> , 1966 , 24, 263-74		340
4 ⁰⁵	A quantitative study on the nigro-neostriatal dopamine neuron system in the rat. <i>Acta Physiologica Scandinavica</i> , 1966 , 67, 306-12		331
4 ⁰⁴	Building a new conceptual framework for receptor heteromers. <i>Nature Chemical Biology</i> , 2009 , 5, 131-4	11.7	313
4 ⁰³	Direct chemical stimulation of dopaminergic mechanisms in the neostriatum of the rat. <i>Brain Research</i> , 1969 , 14, 461-71	3.7	308
4 ⁰²	Synergistic interaction between adenosine A2A and glutamate mGlu5 receptors: implications for striatal neuronal function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11940-5	11.5	299
4 ⁰¹	CELLULAR LOCALIZATION OF MONOAMINES IN THE MEDIAN EMINENCE AND THE INFUNDIBULAR STEM OF SOME MAMMALS. <i>Cell and Tissue Research</i> , 1964 , 61, 710-24	4.2	299
4 ⁰⁰	Molecular mechanisms and therapeutical implications of intramembrane receptor/receptor interactions among heptahelical receptors with examples from the striatopallidal GABA neurons. <i>Pharmacological Reviews</i> , 2003 , 55, 509-50	22.5	280

399	Distribution of noradrenaline nerve terminals in cortical areas of the rat. <i>Brain Research</i> , 1968 , 8, 125-31	3.7	279
398	Morphological and Functional Aspects of Central Monoamine Neurons. <i>International Review of Neurobiology</i> , 1970 , 93-126	4.4	270
397	Further mapping out of central noradrenaline neuron systems: projections of the "subcoeruleus" area. <i>Brain Research</i> , 1972 , 43, 289-95	3.7	242
396	Detection of heteromerization of more than two proteins by sequential BRET-FRET. <i>Nature Methods</i> , 2008 , 5, 727-33	21.6	241
395	Integrated events in central dopamine transmission as analyzed at multiple levels. Evidence for intramembrane adenosine A2A/dopamine D2 and adenosine A1/dopamine D1 receptor interactions in the basal ganglia. <i>Brain Research Reviews</i> , 1998 , 26, 258-73		238
394	Neurotensin in vitro markedly reduces the affinity in subcortical limbic 3H-N-propylnorapomorphine binding sites. <i>Acta Physiologica Scandinavica</i> , 1983 , 119, 459-61		212
393	The discovery of central monoamine neurons gave volume transmission to the wired brain. <i>Progress in Neurobiology</i> , 2010 , 90, 82-100	10.9	204
392	FURTHER EVIDENCE FOR THE PRESENCE OF NIGRO-NEOSTRIATAL DOPAMINE NEURONS IN THE RAT. <i>American Journal of Anatomy</i> , 1965 , 116, 329-33		201
391	Adenosine receptor-dopamine receptor interactions in the basal ganglia and their relevance for brain function. <i>Physiology and Behavior</i> , 2007 , 92, 210-7	3.5	200
390	Understanding wiring and volume transmission. <i>Brain Research Reviews</i> , 2010 , 64, 137-59		196
389	From the Golgi-Cajal mapping to the transmitter-based characterization of the neuronal networks leading to two modes of brain communication: wiring and volume transmission. <i>Brain Research Reviews</i> , 2007 , 55, 17-54		189
388	Adenosine A2A and dopamine D2 heteromeric receptor complexes and their function. <i>Journal of Molecular Neuroscience</i> , 2005 , 26, 209-20	3.3	187
387	Central nicotinic receptors, neurotrophic factors and neuroprotection. <i>Behavioural Brain Research</i> , 2000 , 113, 21-34	3.4	185
386	Combining mass spectrometry and pull-down techniques for the study of receptor heteromerization. Direct epitope-epitope electrostatic interactions between adenosine A2A and dopamine D2 receptors. <i>Analytical Chemistry</i> , 2004 , 76, 5354-63	7.8	181
385	Role of dopamine receptor mechanisms in the amygdaloid modulation of fear and anxiety: Structural and functional analysis. <i>Progress in Neurobiology</i> , 2010 , 90, 198-216	10.9	176
384	Identification of dopamine D1-D3 receptor heteromers. Indications for a role of synergistic D1-D3 receptor interactions in the striatum. <i>Journal of Biological Chemistry</i> , 2008 , 283, 26016-25	5.4	174
383	The effect of imipramine on central 5-hydroxytryptamine neurons. <i>Journal of Pharmacy and Pharmacology</i> , 1968 , 20, 150-1	4.8	168
382	ET495 and brain catecholamine mechanisms: evidence for stimulation of dopamine receptors. <i>European Journal of Pharmacology</i> , 1972 , 20, 195-204	5.3	157

381	Modulation by cholecystokinins of 3H-spiroperidol binding in rat striatum: evidence for increased affinity and reduction in the number of binding sites. <i>Acta Physiologica Scandinavica</i> , 1981 , 113, 567-9		154
380	Histochemical studies on the effect of (positive)-amphetamine, drugs of the imipramine group and tryptamine on central catecholamine and 5-hydroxytryptamine neurons after intraventricular injection of catecholamines and 5-hydroxytryptamine. <i>European Journal of Pharmacology</i> , 1968 , 4, 135-44	5.3	150
379	Mapping out of catecholamine and 5-hydroxytryptamine neurons innervating the telencephalon and diencephalon. <i>Life Sciences</i> , 1965 , 4, 1275-9	6.8	145
378	Antagonistic cannabinoid CB1/dopamine D2 receptor interactions in striatal CB1/D2 heteromers. A combined neurochemical and behavioral analysis. <i>Neuropharmacology</i> , 2008 , 54, 815-23	5.5	139
377	Gangliosides increase the survival of lesioned nigral dopamine neurons and favour the recovery of dopaminergic synaptic function in striatum of rats by collateral sprouting. <i>Acta Physiologica Scandinavica</i> , 1983 , 119, 347-63		138
376	Behavioral effects of 5, 7-dihydroxytryptamine lesions of ascending 5-hydroxytryptamine pathways. <i>Brain Research</i> , 1976 , 107, 385-99	3.7	137
375	Direct involvement of sigma-1 receptors in the dopamine D1 receptor-mediated effects of cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18676-81	11.5	135
374	Histochemical studies on the distribution of catecholamines and 5-hydroxytryptamine after intraventricular injections. <i>Histochemie Histochemistry Histochemie</i> , 1968 , 13, 16-28		127
373	Adenosine A(2A) receptors, dopamine D(2) receptors and their interactions in Parkinson's disease. <i>Movement Disorders</i> , 2007 , 22, 1990-2017	7	125
372	Receptor-receptor interactions in the central nervous system. A new integrative mechanism in synapses. <i>Medicinal Research Reviews</i> , 1985 , 5, 441-82	14.4	124
371	Adenosine A2A agonists: a potential new type of atypical antipsychotic. <i>Neuropsychopharmacology</i> , 1997 , 17, 82-91	8.7	123
370	Homodimerization of adenosine A2A receptors: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. <i>Journal of Neurochemistry</i> , 2004 , 88, 726-34	6	123
369	Adenosine A2A-dopamine D2 receptor-receptor heteromers. Targets for neuro-psychiatric disorders. <i>Parkinsonism and Related Disorders</i> , 2004 , 10, 265-71	3.6	122
368	Evidence for adenosine/dopamine receptor interactions: indications for heteromerization. <i>Neuropsychopharmacology</i> , 2000 , 23, S50-9	8.7	120
367	Postsynaptic antagonistic interaction between adenosine A1 and dopamine D1 receptors. <i>NeuroReport</i> , 1994 , 6, 73-6	1.7	118
366	Evidence for the existence of dopamine D2-oxytocin receptor heteromers in the ventral and dorsal striatum with facilitatory receptor-receptor interactions. <i>Molecular Psychiatry</i> , 2013 , 18, 849-50	15.1	117
365	Receptor-receptor interactions as an integrative mechanism in nerve cells. <i>Molecular Neurobiology</i> , 1993 , 7, 293-334	6.2	117
364	Depletion of catecholamines in vivo induced by electrical stimulation of central monoamine pathways. <i>Brain Research</i> , 1970 , 24, 471-83	3.7	116

363	The selective mGlu(5) receptor agonist CHPG inhibits quinpirole-induced turning in 6-hydroxydopamine-lesioned rats and modulates the binding characteristics of dopamine D(2) receptors in the rat striatum: interactions with adenosine A(2a) receptors. <i>Neuropsychopharmacology</i> , 2001 , 25, 505-13	8.7	115
362	Adenosine-dopamine interactions in the pathophysiology and treatment of CNS disorders. <i>CNS Neuroscience and Therapeutics</i> , 2010 , 16, e18-42	6.8	113
361	Effects of 5-methoxy-N,N-dimethyltryptamine on central monoamine neurons. <i>European Journal of Pharmacology</i> , 1972 , 19, 25-34	5.3	113
360	CELLULAR LOCALIZATION OF MONOAMINES IN THE MEDIAN EMINENCE AND IN THE INFUNDIBULAR STEM OF SOME MAMMALS. <i>Acta Physiologica Scandinavica</i> , 1963 , 58, 383-4		113
359	Metabotropic glutamate mGlu5 receptor-mediated modulation of the ventral striopallidal GABA pathway in rats. Interactions with adenosine A(2A) and dopamine D(2) receptors. <i>Neuroscience Letters</i> , 2002 , 324, 154-8	3.3	110
358	Reciprocal interactions between adenosine A2A and dopamine D2 receptors in Chinese hamster ovary cells co-transfected with the two receptors. <i>Biochemical Pharmacology</i> , 1999 , 58, 1035-45	6	107
357	Chronic nicotine treatment counteracts the disappearance of tyrosine-hydroxylase-immunoreactive nerve cell bodies, dendrites and terminals in the mesostriatal dopamine system of the male rat after partial hemitransection. <i>Brain Research</i> , 1988 , 455, 332-45	3.7	106
356	The G protein-coupled receptor heterodimer network (GPCR-HetNet) and its hub components. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 8570-90	6.3	103
355	Fibroblast growth factor receptor 1- 5-hydroxytryptamine 1A heteroreceptor complexes and their enhancement of hippocampal plasticity. <i>Biological Psychiatry</i> , 2012 , 71, 84-91	7.9	103
354	The effects of modafinil on striatal, pallidal and nigral GABA and glutamate release in the conscious rat: evidence for a preferential inhibition of striato-pallidal GABA transmission. <i>Neuroscience Letters</i> , 1998 , 253, 135-8	3.3	102
353	Adenosine A2A receptor and dopamine D3 receptor interactions: evidence of functional A2A/D3 heteromeric complexes. <i>Molecular Pharmacology</i> , 2005 , 67, 400-7	4.3	101
352	Organization of choroid plexus epithelial and endothelial cell tight junctions and regulation of claudin-1, -2 and -5 expression by protein kinase C. <i>NeuroReport</i> , 2000 , 11, 1427-31	1.7	100
351	Neurotransmitter receptor heteromers and their integrative role in 'local modules': the striatal spine module. <i>Brain Research Reviews</i> , 2007 , 55, 55-67		98
350	Dopamine denervation leads to an increase in the intramembrane interaction between adenosine A2 and dopamine D2 receptors in the neostriatum. <i>Brain Research</i> , 1992 , 594, 124-30	3.7	96
349	Dopamine and noradrenaline releasing action of amantadine in the central and peripheral nervous system: a possible mode of action in Parkinson's disease. <i>European Journal of Pharmacology</i> , 1971 , 16, 27-38	5.3	95
348	Working memory deficits in transgenic rats overexpressing human adenosine A2A receptors in the brain. <i>Neurobiology of Learning and Memory</i> , 2007 , 87, 42-56	3.1	94
347	G protein-coupled receptor heterodimerization in the brain. <i>Methods in Enzymology</i> , 2013 , 521, 281-94	1.7	92
346	Inhibitory role of dopamine and 5-hydroxytryptamine in the sexual behaviour of female rats. <i>European Journal of Pharmacology</i> , 1974 , 29, 187-91	5.3	91

345	On the functional role of coexistence of 5-HT and substance P in bulbospinal 5-HT neurons. Substance P reduces affinity and increases density of 3H-5-HT binding sites. <i>Acta Physiologica Scandinavica</i> , 1983 , 117, 299-301		88
344	Characterization of the A2AR-D2R interface: focus on the role of the C-terminal tail and the transmembrane helices. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 402, 801-7	3-4	84
343	Adenosine A1 receptor-mediated modulation of dopamine D1 receptors in stably cotransfected fibroblast cells. <i>Journal of Biological Chemistry</i> , 1998 , 273, 4718-24	5-4	84
342	On the mechanism of action of the antidepressant drugs amitriptyline and nortriptyline. Evidence for 5-hydroxytryptamine receptor blocking activity. <i>Neuroscience Letters</i> , 1977 , 6, 339-43	3-3	83
341	Understanding the Role of GPCR Heteroreceptor Complexes in Modulating the Brain Networks in Health and Disease. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 37	6.1	82
340	Evidence for specific N-terminal galanin fragment binding sites in the rat brain. <i>European Journal of Pharmacology</i> , 1992 , 224, 203-5	5-3	81
339	The histochemical fluorescence method for the demonstration of catecholamines. Theory, practice and application. <i>Journal of Histochemistry and Cytochemistry</i> , 1973 , 21, 293-311	3-4	81
338	OBSERVATIONS ON THE CELLULAR LOCALIZATION OF DOPAMINE IN THE CAUDATE NUCLEUS OF THE RAT. <i>Cell and Tissue Research</i> , 1964 , 63, 701-6	4.2	81
337	Galanin selectively modulates 5-hydroxytryptamine 1A receptors in the rat ventral limbic cortex. <i>Neuroscience Letters</i> , 1988 , 85, 163-7	3-3	80
336	Galanin receptor-1 modulates 5-hydroxytryptamine-1A signaling via heterodimerization. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 767-72	3-4	79
335	Adenosine A2A receptors modulate the binding characteristics of dopamine D2 receptors in stably cotransfected fibroblast cells. <i>European Journal of Pharmacology</i> , 1996 , 316, 325-31	5-3	79
334	Moonlighting proteins and protein-protein interactions as neurotherapeutic targets in the G protein-coupled receptor field. <i>Neuropsychopharmacology</i> , 2014 , 39, 131-55	8.7	78
333	Evidence for the existence of the A2A-A1 heteroreceptor complex in the rat brain, and comparison of its distribution to that of the A2A-A2A homoreceptor complex. <i>SpringerPlus</i> , 2015 , 4,		78
332	The role of transmitter diffusion and flow versus extracellular vesicles in volume transmission in the brain neural-glia networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	78
331	Involvement of adenosine A2A and dopamine receptors in the locomotor and sensitizing effects of cocaine. <i>Brain Research</i> , 2006 , 1077, 67-80	3-7	78
330	Effect of some phosphodiesterase inhibitors on central dopamine mechanisms. <i>European Journal of Pharmacology</i> , 1976 , 38, 31-8	5-3	78
329	Dopamine D2 and D4 receptor heteromerization and its allosteric receptor-receptor interactions. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 928-34	3-4	75
328	The brain renin-angiotensin system: localization and general significance. <i>Journal of Cardiovascular Pharmacology</i> , 1992 , 19 Suppl 6, S51-62	3.1	75

327	Dopamine D2 and 5-hydroxytryptamine 5-HT(A) receptors assemble into functionally interacting heteromers. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 401, 605-10	3.4	74
326	Effects of acute and long-term treatment with neuroleptics on regional telencephalic neurotensin levels in the male rat. <i>Neurochemistry International</i> , 1986 , 8, 429-34	4.4	74
325	Fluorescence Microscopy in Neuroanatomy 1970 , 275-314		74
324	Basic FGF is present in dopaminergic neurons of the ventral midbrain of the rat. <i>NeuroReport</i> , 1991 , 2, 597-600	1.7	72
323	GPCR heteromers and their allosteric receptor-receptor interactions. <i>Current Medicinal Chemistry</i> , 2012 , 19, 356-63	4.3	71
322	Adenosine receptor heteromers and their integrative role in striatal function. <i>Scientific World Journal, The</i> , 2007 , 7, 74-85	2.2	71
321	On the role of P2X(7) receptors in dopamine nerve cell degeneration in a rat model of Parkinson's disease: studies with the P2X(7) receptor antagonist A-438079. <i>Journal of Neural Transmission</i> , 2010 , 117, 681-7	4.3	70
320	Electroconvulsive stimuli selectively affect behavior and neuropeptide Y (NPY) and NPY Y(1) receptor gene expressions in hippocampus and hypothalamus of Flinders Sensitive Line rat model of depression. <i>European Neuropsychopharmacology</i> , 2007 , 17, 298-308	1.2	70
319	Regulation of heptaspanning-membrane-receptor function by dimerization and clustering. <i>Trends in Biochemical Sciences</i> , 2003 , 28, 238-43	10.3	70
318	Electrophysiological and behavioural evidence for an antagonistic modulatory role of adenosine A2A receptors in dopamine D2 receptor regulation in the rat dopamine-denervated striatum. <i>European Journal of Neuroscience</i> , 2000 , 12, 4033-7	3.5	70
317	Activity changes in the tubero-infundibular dopamine neurons of the rat during various states of the reproductive cycle. <i>Life Sciences</i> , 1967 , 6, 2057-61	6.8	68
316	Bioluminescence resonance energy transfer methods to study G protein-coupled receptor-receptor tyrosine kinase heteroreceptor complexes. <i>Methods in Cell Biology</i> , 2013 , 117, 141-64	1.8	67
315	Dopaminergic transmission in the rat retina: evidence for volume transmission. <i>Journal of Chemical Neuroanatomy</i> , 1996 , 12, 37-50	3.2	67
314	On the existence of a possible A2A-D2- β Arrestin2 complex: A2A agonist modulation of D2 agonist-induced β Arrestin2 recruitment. <i>Journal of Molecular Biology</i> , 2011 , 406, 687-99	6.5	66
313	Adenosine A2A agonist CGS 21680 decreases the affinity of dopamine D2 receptors for dopamine in human striatum. <i>NeuroReport</i> , 2001 , 12, 1831-4	1.7	66
312	Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role of CB and CB receptors and relevance for Alzheimer's disease and levodopa-induced dyskinesia. <i>Brain, Behavior, and Immunity</i> , 2018 , 67, 139-151	16.6	65
311	Adenosine A1 receptor blockade selectively potentiates the motor effects induced by dopamine D1 receptor stimulation in rodents. <i>Neuroscience Letters</i> , 1996 , 218, 209-13	3.3	65
310	Volume Transmission in Central Dopamine and Noradrenaline Neurons and Its Astroglial Targets. <i>Neurochemical Research</i> , 2015 , 40, 2600-14	4.6	64

309	Role of electrostatic interaction in receptor-receptor heteromerization. <i>Journal of Molecular Neuroscience</i> , 2005 , 26, 125-32	3.3	64
308	D1- and D2-receptor antagonists induce catalepsy via different efferent striatal pathways [corrected]. <i>Neuroscience Letters</i> , 1988 , 85, 333-8	3.3	64
307	Hallucinogenic 5-HT _{2A} agonists LSD and DOI enhance dopamine D _{2R} protomer recognition and signaling of D ₂ -5-HT _{2A} heteroreceptor complexes. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 443, 278-84	3.4	63
306	The changing world of G protein-coupled receptors: from monomers to dimers and receptor mosaics with allosteric receptor-receptor interactions. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 272-83	2.6	63
305	Differential effects of selective adenosine A ₁ and A _{2A} receptor agonists on dopamine receptor agonist-induced behavioural responses in rats. <i>European Journal of Pharmacology</i> , 1998 , 347, 153-8	5.3	63
304	The striatal neurotensin receptor modulates striatal and pallidal glutamate and GABA release: functional evidence for a pallidal glutamate-GABA interaction via the pallidal-subthalamic nucleus loop. <i>Journal of Neuroscience</i> , 1998 , 18, 6977-89	6.6	62
303	Subcellular localization of angiotensin II immunoreactivity in the rat cerebellar cortex. <i>Hypertension</i> , 1996 , 28, 818-24	8.5	62
302	Molecular integration via allosteric interactions in receptor heteromers. A working hypothesis. <i>Current Opinion in Pharmacology</i> , 2010 , 10, 14-22	5.1	61
301	Extrasynaptic neurotransmission in the modulation of brain function. Focus on the striatal neuronal-glia networks. <i>Frontiers in Physiology</i> , 2012 , 3, 136	4.6	61
300	A serine point mutation in the adenosine A _{2A} R C-terminal tail reduces receptor heteromerization and allosteric modulation of the dopamine D _{2R} . <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 222-7	3.4	60
299	Galanin-(1-15), but not galanin-(1-29), modulates 5-HT _{1A} receptors in the dorsal hippocampus of the rat brain: possible existence of galanin receptor subtypes. <i>Brain Research</i> , 1994 , 634, 163-7	3.7	60
298	Accumbal and pallidal dopamine, glutamate and GABA overflow during cocaine self-administration and its extinction in rats. <i>Addiction Biology</i> , 2013 , 18, 307-24	4.6	59
297	Receptor-receptor interactions, receptor mosaics, and basic principles of molecular network organization: possible implications for drug development. <i>Journal of Molecular Neuroscience</i> , 2005 , 26, 193-208	3.3	59
296	Dopamine heteroreceptor complexes as therapeutic targets in Parkinson's disease. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 377-98	6.4	58
295	Activation of adenosine A ₁ and A _{2A} receptors modulates dopamine D ₂ receptor-induced responses in stably transfected human neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2000 , 74, 432-9	6	57
294	Adenosine receptor containing oligomers: their role in the control of dopamine and glutamate neurotransmission in the brain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 1245-55	3.8	55
293	How receptor mosaics decode transmitter signals. Possible relevance of cooperativity. <i>Trends in Biochemical Sciences</i> , 2005 , 30, 188-93	10.3	55
292	Hallucinogenic phenylethylamines: interactions with serotonin turnover and receptors. <i>European Journal of Pharmacology</i> , 1974 , 25, 176-84	5.3	55

291	Adenosine A receptor ligand recognition and signaling is blocked by A receptors. <i>Oncotarget</i> , 2018 , 9, 13593-13611	3.3	55
290	Microvesicle and tunneling nanotube mediated intercellular transfer of g-protein coupled receptors in cell cultures. <i>Experimental Cell Research</i> , 2012 , 318, 603-13	4.2	54
289	Increased density of galanin binding sites in the dorsal raphe in a genetic rat model of depression. <i>Neuroscience Letters</i> , 2002 , 317, 101-5	3.3	54
288	Interactions between calmodulin, adenosine A2A, and dopamine D2 receptors. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28058-28068	5.4	53
287	Anxiolytic-like effects of the selective metabotropic glutamate receptor 5 antagonist MPEP after its intra-amygdaloid microinjection in three different non-conditioned rat models of anxiety. <i>European Journal of Neuroscience</i> , 2006 , 23, 2749-59	3.5	52
286	Neurotensin decreases the affinity of dopamine D2 agonist binding by a G protein-independent mechanism. <i>Journal of Neurochemistry</i> , 1991 , 56, 178-83	6	52
285	Receptor-receptor interactions: A novel concept in brain integration. <i>Progress in Neurobiology</i> , 2010 , 90, 157-75	10.9	51
284	On the role of volume transmission and receptor-receptor interactions in social behaviour: focus on central catecholamine and oxytocin neurons. <i>Brain Research</i> , 2012 , 1476, 119-31	3.7	50
283	Long distance pathways of diffusion for dextran along fibre bundles in brain. Relevance for volume transmission. <i>NeuroReport</i> , 1995 , 6, 1005-9	1.7	49
282	Central monoamine neurons and pituitary-adrenal activity. <i>Progress in Brain Research</i> , 1970 , 32, 42-56	2.9	49
281	Moonlighting characteristics of G protein-coupled receptors: focus on receptor heteromers and relevance for neurodegeneration. <i>IUBMB Life</i> , 2011 , 63, 463-72	4.7	48
280	On the existence and function of galanin receptor heteromers in the central nervous system. <i>Frontiers in Endocrinology</i> , 2012 , 3, 127	5.7	48
279	Volume transmission and its different forms in the central nervous system. <i>Chinese Journal of Integrative Medicine</i> , 2013 , 19, 323-9	2.9	47
278	Antagonistic A2a/D2 receptor interactions in the striatum as a basis for adenosine/dopamine interactions in the central nervous system. <i>Drug Development Research</i> , 1993 , 28, 374-380	5.1	47
277	Purinergic signaling in Parkinson's disease. Relevance for treatment. <i>Neuropharmacology</i> , 2016 , 104, 161-8	5.5	46
276	Extracellular-vesicle type of volume transmission and tunnelling-nanotube type of wiring transmission add a new dimension to brain neuro-glial networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	46
275	Increase in A2A receptors in the nucleus accumbens after extended cocaine self-administration and its disappearance after cocaine withdrawal. <i>Brain Research</i> , 2007 , 1143, 208-20	3.7	45
274	Allosteric modulation of dopamine D2 receptors by homocysteine. <i>Journal of Proteome Research</i> , 2006 , 5, 3077-83	5.6	45

273	Mapping the Interface of a GPCR Dimer: A Structural Model of the A Adenosine and D Dopamine Receptor Heteromer. <i>Frontiers in Pharmacology</i> , 2018 , 9, 829	5.6	45
272	Multiple D2 heteroreceptor complexes: new targets for treatment of schizophrenia. <i>Therapeutic Advances in Psychopharmacology</i> , 2016 , 6, 77-94	4.9	44
271	Increased affinity of dopamine for D(2) -like versus D(1) -like receptors. Relevance for volume transmission in interpreting PET findings. <i>Synapse</i> , 2012 , 66, 196-203	2.4	44
270	Anxiolytic effects of intra-amygdaloid injection of the D1 antagonist SCH23390 in the rat. <i>Neuroscience Letters</i> , 2005 , 377, 101-5	3.3	44
269	Heteroreceptor Complexes and their Allosteric Receptor-Receptor Interactions as a Novel Biological Principle for Integration of Communication in the CNS: Targets for Drug Development. <i>Neuropsychopharmacology</i> , 2016 , 41, 380-2	8.7	43
268	Phorbol ester induced changes in tight and adherens junctions in the choroid plexus epithelium and in the ependyma. <i>Brain Research</i> , 2000 , 854, 197-206	3.7	43
267	The semi-quantitative distribution and cellular localization of angiotensinogen mRNA in the rat brain. <i>Journal of Chemical Neuroanatomy</i> , 1992 , 5, 245-62	3.2	43
266	Molecular determinants of A2AR-D2R allosterism: role of the intracellular loop 3 of the D2R. <i>Journal of Neurochemistry</i> , 2012 , 123, 373-84	6	42
265	The intercalated paracapsular islands as a module for integration of signals regulating anxiety in the amygdala. <i>Brain Research</i> , 2012 , 1476, 211-34	3.7	42
264	Kynurenic acid, by targeting $\alpha 7$ nicotinic acetylcholine receptors, modulates extracellular GABA levels in the rat striatum in vivo. <i>European Journal of Neuroscience</i> , 2013 , 37, 1470-7	3.5	42
263	G-protein-coupled receptor heteromer dynamics. <i>Journal of Cell Science</i> , 2010 , 123, 4215-20	5.3	42
262	Differential effects of intrastriatal neurotensin(1-13) and neurotensin(8-13) on striatal dopamine and pallidal GABA release. A dual-probe microdialysis study in the awake rat. <i>European Journal of Neuroscience</i> , 1997 , 9, 1838-46	3.5	42
261	Computer-assisted mapping of basic fibroblast growth factor immunoreactive nerve cell populations in the rat brain. <i>Journal of Chemical Neuroanatomy</i> , 1996 , 11, 13-35	3.2	42
260	Cocaine self-administration specifically increases A2AR-D2R and D2R-sigma1R heteroreceptor complexes in the rat nucleus accumbens shell. Relevance for cocaine use disorder. <i>Pharmacology Biochemistry and Behavior</i> , 2017 , 155, 24-31	3.9	41
259	Diversity and Bias through Receptor-Receptor Interactions in GPCR Heteroreceptor Complexes. Focus on Examples from Dopamine D2 Receptor Heteromerization. <i>Frontiers in Endocrinology</i> , 2014 , 5, 71	5.7	41
258	Biochemical identification of the dopamine D2 receptor domains interacting with the adenosine A2A receptor. <i>Journal of Molecular Neuroscience</i> , 2004 , 24, 173-80	3.3	41
257	Intraventricular beta-endorphin accumulates in DARPP-32 immunoreactive tanycytes. <i>NeuroReport</i> , 1993 , 5, 265-8	1.7	41
256	New concepts on the structure of the neuronal networks: the miniaturization and hierarchical organization of the central nervous system. (Hypothesis). <i>Bioscience Reports</i> , 1984 , 4, 93-8	4.1	41

255	Determinations of catecholamine half-lives and turnover rates in discrete catecholamine nerve terminal systems of the hypothalamus, the preoptic region and the forebrain by quantitative histofluorimetry. <i>Acta Physiologica Scandinavica</i> , 1985 , 123, 411-26		41
254	Evidence for the existence of FGFR1-5-HT1A heteroreceptor complexes in the midbrain raphe 5-HT system. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 456, 489-93	3.4	40
253	Architectural organization of the african elephant diencephalon and brainstem. <i>Brain, Behavior and Evolution</i> , 2013 , 82, 83-128	1.5	40
252	Trafficking of adenosine A2A and dopamine D2 receptors. <i>Journal of Molecular Neuroscience</i> , 2005 , 25, 191-200	3.3	40
251	New methods to evaluate colocalization of fluorophores in immunocytochemical preparations as exemplified by a study on A2A and D2 receptors in Chinese hamster ovary cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2005 , 53, 941-53	3.4	40
250	Basic fibroblast growth factor (bFGF, FGF-2) immunoreactivity exists in the noradrenaline, adrenaline and 5-HT nerve cells of the rat brain. <i>Neuroscience Letters</i> , 1993 , 160, 171-6	3.3	40
249	Nuclear organization and morphology of cholinergic, putative catecholaminergic and serotonergic neurons in the brains of two species of African mole-rat. <i>Journal of Chemical Neuroanatomy</i> , 2008 , 35, 371-87	3.2	39
248	Heterodimers and receptor mosaics of different types of G-protein-coupled receptors. <i>Physiology</i> , 2008 , 23, 322-32	9.8	39
247	Rat prolactin and hypothalamic catecholamine nerve terminal systems. Evidence for rapid and discrete increases in dopamine and noradrenaline turnover in the hypophysectomized male rat. <i>European Journal of Pharmacology</i> , 1981 , 76, 261-5	5.3	39
246	Effects of bromocriptine on 3H-spiroperidol binding sites in rat striatum. Evidence for actions of dopamine receptors not linked to adenylate cyclase. <i>Life Sciences</i> , 1978 , 23, 465-9	6.8	39
245	A2A-D2 receptor-receptor interaction modulates gliotransmitter release from striatal astrocyte processes. <i>Journal of Neurochemistry</i> , 2017 , 140, 268-279	6	38
244	How calmodulin interacts with the adenosine A(2A) and the dopamine D(2) receptors. <i>Journal of Proteome Research</i> , 2008 , 7, 3428-34	5.6	38
243	Neurotensin increases endogenous glutamate release in the neostriatum of the awake rat. <i>Synapse</i> , 1995 , 20, 362-4	2.4	38
242	Effects of Long-Term Alcohol Drinking on the Dopamine D2 Receptor: Gene Expression and Heteroreceptor Complexes in the Striatum in Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2018 , 42, 338-351	3.7	38
241	Integrated signaling in heterodimers and receptor mosaics of different types of GPCRs of the forebrain: relevance for schizophrenia. <i>Journal of Neural Transmission</i> , 2009 , 116, 923-39	4.3	37
240	Experimental studies and theoretical aspects on A2A/D2 receptor interactions in a model of Parkinson's disease. Relevance for L-dopa induced dyskinesias. <i>Journal of the Neurological Sciences</i> , 2006 , 248, 16-22	3.2	37
239	Dopamine receptors and ergot drugs. Evidence that an ergolene derivative is a differential agonist at subcortical limbic dopamine receptors. <i>Brain Research</i> , 1978 , 146, 295-311	3.7	37
238	Dopamine D2 receptor signaling dynamics of dopamine D2-neurotensin 1 receptor heteromers. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 435, 140-6	3.4	36

237	On the role of receptor-receptor interactions and volume transmission in learning and memory. <i>Brain Research Reviews</i> , 2007 , 55, 119-33		36
236	The distribution and morphological characteristics of catecholaminergic cells in the diencephalon and midbrain of the bottlenose dolphin (<i>Tursiops truncatus</i>). <i>Brain, Behavior and Evolution</i> , 2004 , 64, 42-60	1.5	36
235	On the regional distribution of heparan sulfate proteoglycan immunoreactivity in the rat brain. <i>Brain Research</i> , 1994 , 636, 131-8	3.7	36
234	Galanin (1-15) enhances the antidepressant effects of the 5-HT _{1A} receptor agonist 8-OH-DPAT: involvement of the raphe-hippocampal 5-HT neuron system. <i>Brain Structure and Function</i> , 2016 , 221, 4491-4504	4	35
233	Fluorescence resonance energy transfer-based technologies in the study of protein-protein interactions at the cell surface. <i>Methods</i> , 2012 , 57, 467-72	4.6	35
232	A role for galanin N-terminal fragment (1-15) in anxiety- and depression-related behaviors in rats. <i>International Journal of Neuropsychopharmacology</i> , 2014 , 18,	5.8	34
231	Disruption of A _{2A} R-D ₂ R Heteroreceptor Complexes After A _{2A} R Transmembrane 5 Peptide Administration Enhances Cocaine Self-Administration in Rats. <i>Molecular Neurobiology</i> , 2018 , 55, 7038-7048	6.3	34
230	Dopamine D ₂ heteroreceptor complexes and their receptor-receptor interactions in ventral striatum: novel targets for antipsychotic drugs. <i>Progress in Brain Research</i> , 2014 , 211, 113-39	2.9	34
229	Existence of Brain 5-HT _{1A} -5-HT _{2A} Isoreceptor Complexes with Antagonistic Allosteric Receptor-Receptor Interactions Regulating 5-HT _{1A} Receptor Recognition. <i>ACS Omega</i> , 2017 , 2, 4779-4789	3.9	34
228	Computer-assisted image analysis of caveolin-1 involvement in the internalization process of adenosine A _{2A} -dopamine D ₂ receptor heterodimers. <i>Journal of Molecular Neuroscience</i> , 2005 , 26, 177-84	2.3	34
227	Neurotensin-induced modulation of dopamine D ₂ receptors and their function in rat striatum: counteraction by a NTR1-like receptor antagonist. <i>NeuroReport</i> , 2002 , 13, 763-6	1.7	34
226	Systemic oxytocin treatment modulates alpha 2-adrenoceptors in telencephalic and diencephalic regions of the rat. <i>Brain Research</i> , 2000 , 887, 421-5	3.7	34
225	Different classes of volume transmission signals exist in the central nervous system and are affected by metabolic signals, temperature gradients and pressure waves. <i>NeuroReport</i> , 1994 , 6, 9-12	1.7	34
224	FGFR1-5-HT _{1A} Heteroreceptor Complexes: Implications for Understanding and Treating Major Depression. <i>Trends in Neurosciences</i> , 2016 , 39, 5-15	13.3	33
223	Role of the amygdaloid cholecystokinin (CCK)/gastrin-2 receptors and terminal networks in the modulation of anxiety in the rat. Effects of CCK-4 and CCK-8S on anxiety-like behaviour and [3H]GABA release. <i>European Journal of Neuroscience</i> , 2007 , 26, 3614-30	3.5	33
222	Evidence for an exclusive localization of 3H-ADTN binding sites to postsynaptic nerve cells in the striatum of the rat. <i>European Journal of Pharmacology</i> , 1979 , 58, 515-7	5.3	33
221	Preferential activation by galanin 1-15 fragment of the GalR1 protomer of a GalR1-GalR2 heteroreceptor complex. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 452, 347-53	3.4	32
220	Understanding neuronal molecular networks builds on neuronal cellular network architecture. <i>Brain Research Reviews</i> , 2008 , 58, 379-99		32

219	Detection of beta-endorphin in the cerebrospinal fluid after intrastriatal microinjection into the rat brain. <i>Brain Research</i> , 2005 , 1041, 167-80	3.7	32
218	Intraventricular galanin produces a time-dependent modulation of 5-HT1A receptors in the dorsal raphe of the rat. <i>NeuroReport</i> , 2000 , 11, 3943-8	1.7	32
217	Prolonged effects of intraventricular galanin on a 5-hydroxytryptamine(1A) receptor mediated function in the rat. <i>Neuroscience Letters</i> , 2001 , 299, 145-9	3.3	32
216	Enhancement of the FGFR1 signaling in the FGFR1-5-HT1A heteroreceptor complex in midbrain raphe 5-HT neuron systems. Relevance for neuroplasticity and depression. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 463, 180-6	3.4	31
215	Cocaine self-administration differentially affects allosteric A2A-D2 receptor-receptor interactions in the striatum. Relevance for cocaine use disorder. <i>Pharmacology Biochemistry and Behavior</i> , 2016 , 144, 85-91	3.9	31
214	Understanding the Role of Adenosine A2AR Heteroreceptor Complexes in Neurodegeneration and Neuroinflammation. <i>Frontiers in Neuroscience</i> , 2018 , 12, 43	5.1	31
213	G-protein-coupled receptor type A heteromers as an emerging therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 265-83	6.4	31
212	Effects of intracerebral injections of 6-hydroxydopamine on sleep and waking in the rat. <i>Journal of Pharmacy and Pharmacology</i> , 1973 , 25, 84-7	4.8	31
211	International Workshop at the Nobel Forum, Karolinska Institutet on G protein-coupled receptors: finding the words to describe monomers, oligomers, and their molecular mechanisms and defining their meaning. Can a consensus be reached?. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 284-6	2.6	31
210	Distribution and morphology of catecholaminergic and serotonergic neurons in the brain of the highveld gerbil, <i>Tatera brantsii</i> . <i>Journal of Chemical Neuroanatomy</i> , 2007 , 34, 134-44	3.2	31
209	Quantitative dual-probe microdialysis: evaluation of [3H]mannitol diffusion in agar and rat striatum. <i>Journal of Neurochemistry</i> , 2002 , 81, 80-93	6	31
208	Galanin and 5-HT1A receptor interactions as an integrative mechanism in 5-HT neurotransmission in the brain. <i>Annals of the New York Academy of Sciences</i> , 1996 , 780, 193-212	6.5	31
207	Functional role of striatal A2A, D2, and mGlu5 receptor interactions in regulating striatopallidal GABA neuronal transmission. <i>Journal of Neurochemistry</i> , 2016 , 138, 254-64	6	31
206	A2AR-D2R Heteroreceptor Complexes in Cocaine Reward and Addiction. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 1008-1020	13.2	31
205	Existence of muscarinic acetylcholine receptor (mAChR) and fibroblast growth factor receptor (FGFR) heteroreceptor complexes and their enhancement of neurite outgrowth in neural hippocampal cultures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 235-245	4	30
204	On the role of A α and D β receptors in control of cocaine and food-seeking behaviors in rats. <i>Psychopharmacology</i> , 2015 , 232, 1767-78	4.7	30
203	Signaling in dopamine D2 receptor-oxytocin receptor heterocomplexes and its relevance for the anxiolytic effects of dopamine and oxytocin interactions in the amygdala of the rat. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 2075-2085	6.9	30
202	Effects of cocaine self-administration and extinction on D2-like and A2A receptor recognition and D2-like/Gi protein coupling in rat striatum. <i>Addiction Biology</i> , 2013 , 18, 455-66	4.6	30

201	Neurotensin receptors as modulators of glutamatergic transmission. <i>Brain Research Reviews</i> , 2008 , 58, 365-73		30
200	Cholecystinin/dopamine/GABA interactions in the nucleus accumbens: biochemical and functional correlates. <i>Peptides</i> , 2001 , 22, 1229-34	3.8	30
199	Basimglurant for treatment of major depressive disorder: a novel negative allosteric modulator of metabotropic glutamate receptor 5. <i>Expert Opinion on Investigational Drugs</i> , 2015 , 24, 1247-60	5.9	29
198	Nuclear organization and morphology of cholinergic, putative catecholaminergic and serotonergic neurons in the brain of the Cape porcupine (<i>Hystrix africaeaustralis</i>): increased brain size does not lead to increased organizational complexity. <i>Journal of Chemical Neuroanatomy</i> , 2008 , 36, 33-52	3.2	29
197	Theory relating in vitro and in vivo microdialysis with one or two probes. <i>Journal of Neurochemistry</i> , 2002 , 81, 108-21	6	29
196	Volume transmission and receptor-receptor interactions in heteroreceptor complexes: understanding the role of new concepts for brain communication. <i>Neural Regeneration Research</i> , 2016 , 11, 1220-3	4.5	29
195	Dynamic modulation of FGFR1-5-HT1A heteroreceptor complexes. Agonist treatment enhances participation of FGFR1 and 5-HT1A homodimers and recruitment of β arrestin2. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 441, 387-92	3.4	28
194	Galanin (1-15) enhancement of the behavioral effects of Fluoxetine in the forced swimming test gives a new therapeutic strategy against depression. <i>Neuropharmacology</i> , 2017 , 118, 233-241	5.5	27
193	Brain Dopamine Transmission in Health and Parkinson's Disease: Modulation of Synaptic Transmission and Plasticity Through Volume Transmission and Dopamine Heteroreceptors. <i>Frontiers in Synaptic Neuroscience</i> , 2018 , 10, 20	3.5	27
192	Studies on the relationship of tyrosine hydroxylase, dopamine and cyclic amp-regulated phosphoprotein-32 immunoreactive neuronal structures and d1 receptor antagonist binding sites in various brain regions of the male rat-mismatches indicate a role of d1 receptors in volume transmission. <i>Neurochemistry International</i> , 1988 , 13, 179-97	4.4	27
191	L-Glutamate reduces the affinity of [3H]N-propyl norapomorphine binding sites in striatal membranes. <i>European Journal of Pharmacology</i> , 1984 , 100, 127-30	5.3	27
190	Understanding the Functional Plasticity in Neural Networks of the Basal Ganglia in Cocaine Use Disorder: A Role for Allosteric Receptor-Receptor Interactions in A2A-D2 Heteroreceptor Complexes. <i>Neural Plasticity</i> , 2016 , 2016, 4827268	3.3	27
189	On the role of adenosine (A)A receptors in cocaine-induced reward: a pharmacological and neurochemical analysis in rats. <i>Psychopharmacology</i> , 2015 , 232, 421-35	4.7	26
188	In vitro effects of cocaine on tunneling nanotube formation and extracellular vesicle release in glioblastoma cell cultures. <i>Journal of Molecular Neuroscience</i> , 2015 , 55, 42-50	3.3	26
187	Dopamine D4 receptor oligomerization--contribution to receptor biogenesis. <i>FEBS Journal</i> , 2011 , 278, 1333-44	5.7	26
186	An integrated view on the role of receptor mosaics at perisynaptic level: focus on adenosine A(2A), dopamine D(2), cannabinoid CB(1), and metabotropic glutamate mGlu(5) receptors. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 355-69	2.6	26
185	Galanin-(1-16) modulates 5-HT1A receptors in the ventral limbic cortex of the rat. <i>NeuroReport</i> , 2000 , 11, 515-9	1.7	26
184	Antagonistic regulation of alpha 2-adrenoceptors by neuropeptide Y receptor subtypes in the nucleus tractus solitarii. <i>European Journal of Pharmacology</i> , 1994 , 271, 201-12	5.3	26

183	Antiparkinsonian drugs and central dopamine neurons. <i>Life Sciences</i> , 1970 , 9, 811-24	6.8	26
182	Receptor?Receptor Interactions in Multiple 5-HT1A Heteroreceptor Complexes in Raphe-Hippocampal 5-HT Transmission and Their Relevance for Depression and Its Treatment. <i>Molecules</i> , 2018 , 23,	4.8	25
181	G protein-coupled receptor oligomerization and brain integration: focus on adenosinergic transmission. <i>Brain Research</i> , 2012 , 1476, 86-95	3.7	25
180	One century of progress in neuroscience founded on Golgi and Cajal's outstanding experimental and theoretical contributions. <i>Brain Research Reviews</i> , 2007 , 55, 167-89		25
179	How proteins come together in the plasma membrane and function in macromolecular assemblies: focus on receptor mosaics. <i>Journal of Molecular Neuroscience</i> , 2005 , 26, 133-54	3.3	25
178	Neurotensin and cholecystokinin octapeptide control synergistically dopamine release and dopamine D2 receptor affinity in rat neostriatum. <i>European Journal of Pharmacology</i> , 1993 , 230, 159-66	5.3	25
177	Potentialiation of cannabinoid signaling in microglia by adenosine A receptor antagonists. <i>Glia</i> , 2019 , 67, 2410-2423	9	24
176	Nuclear organization of cholinergic, putative catecholaminergic, serotonergic and orexinergic systems in the brain of the African pygmy mouse (<i>Mus minutoides</i>): organizational complexity is preserved in small brains. <i>Journal of Chemical Neuroanatomy</i> , 2012 , 44, 45-56	3.2	24
175	On the molecular basis of the receptor mosaic hypothesis of the engram. <i>Cellular and Molecular Neurobiology</i> , 2004 , 24, 501-16	4.6	24
174	Dopamine D1 receptors are involved in the modulation of D2 receptors induced by cholecystokinin receptor subtypes in rat neostriatal membranes. <i>Brain Research</i> , 1994 , 650, 289-98	3.7	24
173	Adenosine heteroreceptor complexes in the basal ganglia are implicated in Parkinson's disease and its treatment. <i>Journal of Neural Transmission</i> , 2019 , 126, 455-471	4.3	24
172	Dual disruption of aldehyde dehydrogenases 1 and 3 promotes functional changes in the glutathione redox system and enhances chemosensitivity in nonsmall cell lung cancer. <i>Oncogene</i> , 2020 , 39, 2756-2771	9.2	23
171	Neurotensin: A role in substance use disorder?. <i>Journal of Psychopharmacology</i> , 2016 , 30, 112-27	4.6	23
170	The zinc binding receptor GPR39 interacts with 5-HT1A and GalR1 to form dynamic heteroreceptor complexes with signaling diversity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 2585-92	6.9	23
169	Cocaine produces D2R-mediated conformational changes in the adenosine A(2A)R-dopamine D2R heteromer. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 988-92	3.4	23
168	Oxytocin increases the density of high affinity alpha(2)-adrenoceptors within the hypothalamus, the amygdala and the nucleus of the solitary tract in ovariectomized rats. <i>Brain Research</i> , 2005 , 1049, 234-9	3.7	23
167	Diversity and bias through dopamine D2R heteroreceptor complexes. <i>Current Opinion in Pharmacology</i> , 2017 , 32, 16-22	5.1	22
166	Agonist-specific voltage sensitivity at the dopamine D2S receptor--molecular determinants and relevance to therapeutic ligands. <i>Neuropharmacology</i> , 2011 , 61, 937-49	5.5	22

165	On the expanding terminology in the GPCR field: the meaning of receptor mosaics and receptor heteromers. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 287-303	2.6	22
164	Central nervous system and computation. <i>Quarterly Review of Biology</i> , 2011 , 86, 265-85	5.4	22
163	Muscarinic receptor family interacting proteins: role in receptor function. <i>Journal of Neuroscience Methods</i> , 2011 , 195, 161-9	3	22
162	Nanomolar concentrations of cocaine enhance D2-like agonist-induced inhibition of the K ⁺ -evoked [3H]-dopamine efflux from rat striatal synaptosomes: a novel action of cocaine. <i>Journal of Neural Transmission</i> , 2010 , 117, 593-7	4.3	22
161	Chronic A2A antagonist treatment alleviates parkinsonian locomotor deficiency in MitoPark mice. <i>Neurobiology of Disease</i> , 2010 , 40, 460-6	7.5	22
160	On the relationship of 5-hydroxytryptamine neurons to 5-hydroxytryptamine 2A receptor-immunoreactive neuronal processes in the brain stem of rats. A double immunolabelling analysis. <i>NeuroReport</i> , 1998 , 9, 2505-11	1.7	22
159	Autoradiographic evidence for a bradykinin/angiotensin II receptor-receptor interaction in the rat brain. <i>Neuroscience Letters</i> , 1993 , 163, 58-62	3.3	22
158	Dopamine receptor agonists in brain research and as therapeutic agents. <i>Trends in Neurosciences</i> , 1979 , 2, 1-4	13.3	22
157	On the Role of the Balance of GPCR Homo/ Heteroreceptor Complexes in the Brain 2015 , 2, 36-44		22
156	Role of iso-receptors in receptor-receptor interactions with a focus on dopamine iso-receptor complexes. <i>Reviews in the Neurosciences</i> , 2016 , 27, 1-25	4.7	21
155	Dopamine D receptor stimulation prevents nigrostriatal dopamine pathway activation by morphine: relevance for drug addiction. <i>Addiction Biology</i> , 2017 , 22, 1232-1245	4.6	21
154	In Situ Proximity Ligation Assay to Study and Understand the Distribution and Balance of GPCR Homo- and Heteroreceptor Complexes in the Brain. <i>NeuroMethods</i> , 2016 , 109-124	0.4	21
153	The neuropeptides Galanin and Galanin(1-15) in depression-like behaviours. <i>Neuropeptides</i> , 2017 , 64, 39-45	3.3	20
152	Striatal adenosine-cannabinoid receptor interactions in rats over-expressing adenosine A2A receptors. <i>Journal of Neurochemistry</i> , 2016 , 136, 907-17	6	20
151	Extrasynaptic neurotransmission as a way of modulating neuronal functions. <i>Frontiers in Physiology</i> , 2012 , 3, 16	4.6	20
150	Agonist-induced formation of FGFR1 homodimers and signaling differ among members of the FGF family. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 409, 764-8	3.4	20
149	Galanin receptor/Neuropeptide Y receptor interactions in the dorsal raphe nucleus of the rat. <i>Neuropharmacology</i> , 2011 , 61, 80-6	5.5	20
148	Effect of acute and continuous morphine treatment on transcription factor expression in subregions of the rat caudate putamen. Marked modulation by D4 receptor activation. <i>Brain Research</i> , 2011 , 1407, 47-61	3.7	20

147	G protein-coupled receptor oligomerization for what?. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 322-30	2.6	20
146	Dopamine D(4) receptor activation decreases the expression of mu-opioid receptors in the rat striatum. <i>Journal of Comparative Neurology</i> , 2007 , 502, 358-66	3.4	20
145	Wiring and volume transmission in rat amygdala. Implications for fear and anxiety. <i>Neurochemical Research</i> , 2008 , 33, 1618-33	4.6	20
144	On the Nested Hierarchical Organization of CNS: Basic Characteristics of Neuronal Molecular Networks. <i>Lecture Notes in Computer Science</i> , 2004 , 24-54	0.9	20
143	Quantitative dual-probe microdialysis: mathematical model and analysis. <i>Journal of Neurochemistry</i> , 2002 , 81, 94-107	6	20
142	Regulation of dopamine D2 receptor affinity by cholecystinin octapeptide in fibroblast cells cotransfected with human CCKB and D2L receptor cDNAs. <i>Molecular Brain Research</i> , 1996 , 36, 292-9		20
141	Strong effects of NT/NN peptides on DA D2 receptors in rat neostriatal sections. <i>NeuroReport</i> , 1994 , 5, 1621-4	1.7	20
140	Cocaine modulates allosteric D- β -receptor-receptor interactions on dopamine and glutamate nerve terminals from rat striatum. <i>Cellular Signalling</i> , 2017 , 40, 116-124	4.9	19
139	Glutamate heteroreceptor complexes in the brain. <i>Pharmacological Reports</i> , 2018 , 70, 936-950	3.9	19
138	A novel mechanism of cocaine to enhance dopamine d2-like receptor mediated neurochemical and behavioral effects. An in vivo and in vitro study. <i>Neuropsychopharmacology</i> , 2012 , 37, 1856-66	8.7	19
137	Impaired M(3) muscarinic acetylcholine receptor signal transduction through blockade of binding of multiple proteins to its third intracellular loop. <i>Cellular Physiology and Biochemistry</i> , 2010 , 25, 397-408	3.9	19
136	Existence and theoretical aspects of homomeric and heteromeric dopamine receptor complexes and their relevance for neurological diseases. <i>NeuroMolecular Medicine</i> , 2005 , 7, 61-78	4.6	19
135	The Role of Central Serotonin Neurons and 5-HT Heteroreceptor Complexes in the Pathophysiology of Depression: A Historical Perspective and Future Prospects. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	19
134	Galanin receptor 2-neuropeptide Y Y1 receptor interactions in the amygdala lead to increased anxiolytic actions. <i>Brain Structure and Function</i> , 2015 , 220, 2289-301	4	18
133	Disturbances in the FGFR1-5-HT1A Heteroreceptor Complexes in the Raphe-Hippocampal 5-HT System Develop in a Genetic Rat Model of Depression. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 309	6.1	18
132	Possible new targets for GPCR modulation: allosteric interactions, plasma membrane domains, intercellular transfer and epigenetic mechanisms. <i>Journal of Receptor and Signal Transduction Research</i> , 2011 , 31, 315-31	2.6	18
131	Differential sensitivity of A2A and especially D2 receptor trafficking to cocaine compared with lipid rafts in cotransfected CHO cell lines. Novel actions of cocaine independent of the DA transporter. <i>Journal of Molecular Neuroscience</i> , 2010 , 41, 347-57	3.3	18
130	The M(5) muscarinic acetylcholine receptor third intracellular loop regulates receptor function and oligomerization. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010 , 1803, 813-25	4.9	18

129	Oxytocin/alpha(2)-Adrenoceptor interactions in feeding responses. <i>Neuroendocrinology</i> , 2000 , 71, 209-18	3.6	18
128	Adenosine as a volume transmission signal. A feedback detector of neuronal activation. <i>Progress in Brain Research</i> , 2000 , 125, 353-61	2.9	18
127	Coinjections of NPY(1-36) or [Leu31,Pro34]NPY with adrenaline in the nucleus tractus solitarius of the rat counteract the vasodepressor responses to adrenaline. <i>Neuroscience Letters</i> , 1994 , 171, 27-31	3.3	18
126	Evidence for interactions between striatal cholecystokinin and glutamate receptors. CCK-8 in vitro produces a marked downregulation of 3H-glutamate binding sites in striatal membranes. <i>Acta Physiologica Scandinavica</i> , 1983 , 118, 75-7		18
125	Neurotensin NTS1-dopamine D2 receptor-receptor interactions in putative receptor heteromers: relevance for Parkinson's disease and schizophrenia. <i>Current Protein and Peptide Science</i> , 2014 , 15, 681-90	2.8	18
124	Telocytes in their context with other intercellular communication agents. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 55, 9-13	7.5	18
123	Oligomeric Receptor Complexes and Their Allosteric Receptor-Receptor Interactions in the Plasma Membrane Represent a New Biological Principle for Integration of Signals in the CNS. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 230	6.1	17
122	Adenosine (A)(2A)receptor modulation of nicotine-induced locomotor sensitization. A pharmacological and transgenic approach. <i>Neuropharmacology</i> , 2014 , 81, 318-26	5.5	17
121	Brain receptor mosaics and their intramembrane receptor-receptor interactions: molecular integration in transmission and novel targets for drug development. <i>JAMS Journal of Acupuncture and Meridian Studies</i> , 2009 , 2, 1-25	1.2	17
120	The C-terminal neurotensin-(8-13) fragment potently modulates rat neostriatal dopamine D2 receptors. <i>European Journal of Pharmacology</i> , 1993 , 234, 125-8	5.3	17
119	Possible genetic and epigenetic links between human inner speech, schizophrenia and altruism. <i>Brain Research</i> , 2012 , 1476, 38-57	3.7	16
118	Galanin-neuropeptide Y (NPY) interactions in central cardiovascular control: involvement of the NPY Y receptor subtype. <i>European Journal of Neuroscience</i> , 2006 , 24, 499-508	3.5	16
117	The receptor mosaic hypothesis of the engram: possible relevance of Boolean network modeling. <i>International Journal of Neural Systems</i> , 1996 , 7, 363-8	6.2	16
116	Involvement of cholecystokinin receptors in the control of striatal dopamine autoreceptors. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1990 , 342, 300-4	3.4	16
115	Distribution of neurophysin II immunoreactive nerve fibers within the subnuclei of the nucleus of the tractus solitarius of the rat. <i>Brain Research</i> , 1984 , 321, 71-82	3.7	16
114	Interactions between cholinergic and fibroblast growth factor receptors in brain trophism and plasticity. <i>Current Protein and Peptide Science</i> , 2014 , 15, 691-702	2.8	16
113	Understanding the balance and integration of volume and synaptic transmission. Relevance for psychiatry. <i>Neurology Psychiatry and Brain Research</i> , 2013 , 19, 141-158	2.1	15
112	Neuronal correlates to consciousness. The "Hall of Mirrors" metaphor describing consciousness as an epiphenomenon of multiple dynamic mosaics of cortical functional modules. <i>Brain Research</i> , 2012 , 1476, 3-21	3.7	15

111	A(2A)/D(2) receptor heteromerization in a model of Parkinson's disease. Focus on striatal aminoacidergic signaling. <i>Brain Research</i> , 2012 , 1476, 96-107	3.7	15
110	Striatal NTS1 , dopamine D2 and NMDA receptor regulation of pallidal GABA and glutamate release--a dual-probe microdialysis study in the intranigral 6-hydroxydopamine unilaterally lesioned rat. <i>European Journal of Neuroscience</i> , 2012 , 35, 207-20	3.5	15
109	Muscarinic acetylcholine receptor-interacting proteins (mAChRIPs): targeting the receptorsome. <i>Current Drug Targets</i> , 2012 , 13, 53-71	3	15
108	Adenosine A2A-D2 receptor-receptor interactions in putative heteromers in the regulation of the striato-pallidal gaba pathway: possible relevance for parkinson's disease and its treatment. <i>Current Protein and Peptide Science</i> , 2014 , 15, 673-80	2.8	15
107	Attenuation of Oxytocin and Serotonin 2A Receptor Signaling through Novel Heteroreceptor Formation. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3225-3240	5.7	14
106	Galanin receptor 2-neuropeptide Y Y1 receptor interactions in the dentate gyrus are related with antidepressant-like effects. <i>Brain Structure and Function</i> , 2016 , 221, 4129-4139	4	14
105	Dopamine D1 and D2 receptor immunoreactivities in the arcuate-median eminence complex and their link to the tubero-infundibular dopamine neurons. <i>European Journal of Histochemistry</i> , 2014 , 58, 2400	2.1	14
104	Voltage sensitivities and deactivation kinetics of histamine H ₁ and H ₂ receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 3081-9	3.8	14
103	On the g-protein-coupled receptor heteromers and their allosteric receptor-receptor interactions in the central nervous system: focus on their role in pain modulation. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013 , 2013, 563716	2.3	14
102	Multiple Adenosine-Dopamine (A2A-D2 Like) Heteroreceptor Complexes in the Brain and Their Role in Schizophrenia. <i>Cells</i> , 2020 , 9,	7.9	13
101	Existence of FGFR1-5-HT1AR heteroreceptor complexes in hippocampal astrocytes. Putative link to 5-HT and FGF2 modulation of hippocampal gamma oscillations. <i>Neuropharmacology</i> , 2020 , 170, 108070	5.5	13
100	Information handling by the brain: proposal of a new "paradigm" involving the roamer type of volume transmission and the tunneling nanotube type of wiring transmission. <i>Journal of Neural Transmission</i> , 2014 , 121, 1431-49	4.3	13
99	Dopamine D ₁ receptor counteracts morphine-induced changes in μ opioid receptor signaling in the striosomes of the rat caudate putamen. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 1481-98	6.3	13
98	Potential of caveolae in the therapy of cardiovascular and neurological diseases. <i>Frontiers in Physiology</i> , 2014 , 5, 370	4.6	13
97	Neurotensin regulates cortical glutamate transmission by modulating N-methyl-D-aspartate receptor functional activity: an in vivo microdialysis study. <i>Journal of Neuroscience Research</i> , 2011 , 89, 1618-26	4.4	13
96	Dissecting the conserved NPxxY motif of the M3 muscarinic acetylcholine receptor: critical role of Asp-7.49 for receptor signaling and multiprotein complex formation. <i>Cellular Physiology and Biochemistry</i> , 2011 , 28, 1009-22	3.9	13
95	Altered trafficking and unfolded protein response induction as a result of M3 muscarinic receptor impaired N-glycosylation. <i>Glycobiology</i> , 2011 , 21, 1663-72	5.8	13
94	Dopamine D Receptor Supersensitivity as a Spectrum of Neurotoxicity and Status in Psychiatric Disorders. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018 , 366, 519-526	4.7	12

93	Integrin triplets of marine sponges in human brain receptor heteromers. <i>Journal of Molecular Neuroscience</i> , 2012 , 48, 154-60	3.3	12
92	Bioinformatics and mathematical modelling in the study of receptor-receptor interactions and receptor oligomerization: focus on adenosine receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 1267-83	3.8	12
91	Influence of Central Catecholamines on LHRH-Containing Pathways. <i>Clinics in Obstetrics and Gynaecology</i> , 1978 , 5, 251-269		12
90	Differential allosteric modulation within dopamine DR - neurotensin NTS1R and DR - serotonin 5-HT ₂ receptor complexes gives bias to intracellular calcium signalling. <i>Scientific Reports</i> , 2019 , 9, 16312	4.9	11
89	A new theoretical approach to the functional meaning of sleep and dreaming in humans based on the maintenance of 'predictive psychic homeostasis'. <i>Communicative and Integrative Biology</i> , 2011 , 4, 640-54	1.7	11
88	Modafinil does not affect serotonin efflux from rat frontal cortex synaptosomes: comparison with known serotonergic drugs. <i>Brain Research</i> , 2001 , 894, 307-10	3.7	11
87	Neuromedin N is a potent modulator of dopamine D ₂ receptor agonist binding in rat neostriatal membranes. <i>Neuroscience Letters</i> , 1993 , 155, 121-4	3.3	11
86	Modulation of Dopamine D ₁ and D ₂ Transmission Lines in the Central Nervous System 1990 , 203-243		11
85	Galanin (1-15)-fluoxetine interaction in the novel object recognition test. Involvement of 5-HT _{1A} receptors in the prefrontal cortex of the rats. <i>Neuropharmacology</i> , 2019 , 155, 104-112	5.5	10
84	On the origin of the triplet puzzle of homologies in receptor heteromers: immunoglobulin triplets in different types of receptors. <i>Journal of Molecular Neuroscience</i> , 2012 , 46, 616-21	3.3	10
83	Classic and Modern Meridian Studies: A Review of Low Hydraulic Resistance Channels along Meridians and Their Relevance for Therapeutic Effects in Traditional Chinese Medicine. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015 , 2015, 410979	2.3	10
82	The non-peptide neuropeptide Y Y ₁ receptor antagonist BIBP3226 blocks the [Leu ³¹ ,Pro ³⁴]neuropeptide Y-induced modulation of alpha 2-adrenoceptors in the nucleus tractus solitarius of the rat. <i>NeuroReport</i> , 1996 , 7, 2701-5	1.7	10
81	Adenosine A _{2A} Receptors in Substance Use Disorders: A Focus on Cocaine. <i>Cells</i> , 2020 , 9,	7.9	9
80	Alterations in ventral and dorsal striatal allosteric A _{2A} R-D ₂ R receptor-receptor interactions after amphetamine challenge: Relevance for schizophrenia. <i>Life Sciences</i> , 2016 ,	6.8	9
79	Evidence for the existence of dopamine D ₂ R and Sigma 1 allosteric receptor-receptor interaction in the rat brain: role in brain plasticity and cocaine action. <i>SpringerPlus</i> , 2015 , 4,		9
78	Integrin triplets of marine sponges in human D ₂ receptor heteromers. <i>Journal of Receptor and Signal Transduction Research</i> , 2012 , 32, 202-8	2.6	9
77	Early modulation by the dopamine D ₄ receptor of morphine-induced changes in the opioid peptide systems in the rat caudate putamen. <i>Journal of Neuroscience Research</i> , 2013 , 91, 1533-40	4.4	9
76	Conventional and Novel Pharmacological Approaches to Treat Dopamine-Related Disorders: Focus on Parkinson's Disease and Schizophrenia. <i>Neuroscience</i> , 2020 , 439, 301-318	3.9	9

75	Acute Cocaine Enhances Dopamine DR Recognition and Signaling and Counteracts DR Internalization in Sigma1R-DR Heteroreceptor Complexes. <i>Molecular Neurobiology</i> , 2019 , 56, 7045-7055	6.2	8
74	Heterodimerization of Mu Opioid Receptor Protomer with Dopamine D Receptor Modulates Agonist-Induced Internalization of Mu Opioid Receptor. <i>Biomolecules</i> , 2019 , 9,	5.9	8
73	On the origin of the triplet puzzle of homologies in receptor heteromers: Toll-like receptor triplets in different types of receptors. <i>Journal of Neural Transmission</i> , 2012 , 119, 517-23	4.3	8
72	Differential expression of muscarinic acetylcholine receptor subtypes in Jurkat cells and their signaling. <i>Journal of Neuroimmunology</i> , 2011 , 237, 13-22	3.5	8
71	The effect of mepiprazole on central monoamine neurons. Evidence for increased 5-hydroxytryptamine and dopamine receptor activity. <i>European Journal of Pharmacology</i> , 1976 , 35, 93-108	5.3	8
70	Effect of desmethylimipramine, protriptyline and (+)-amphetamine on fluorescence of central adrenergic neurons of rats pretreated with alpha-methyl-DOPA and tetrabenazine or reserpine. <i>European Journal of Pharmacology</i> , 1967 , 2, 196-201	5.3	8
69	G-protein-coupled receptors oligomerization: emerging signaling units and new opportunities for drug design. <i>Current Protein and Peptide Science</i> , 2014 , 15, 648-58	2.8	8
68	Neuronal adenosine A receptor overexpression is neuroprotective towards 3-nitropropionic acid-induced striatal toxicity: a rat model of Huntington's disease. <i>Purinergic Signalling</i> , 2018 , 14, 235-243	3.8	8
67	The Galanin N-terminal fragment (1-15) interacts with neuropeptide Y in central cardiovascular control: Involvement of the NPY Y2 receptor subtype. <i>Regulatory Peptides</i> , 2010 , 163, 130-6		7
66	Molecular, biochemical and behavioural evidence for a novel oxytocin receptor and serotonin 2C receptor heterocomplex. <i>Neuropharmacology</i> , 2021 , 183, 108394	5.5	7
65	Effects of intra-accumbal or intra-prefrontal cortex microinjections of adenosine 2A receptor ligands on responses to cocaine reward and seeking in rats. <i>Psychopharmacology</i> , 2018 , 235, 3509-3523	4.7	7
64	Role of the galanin N-terminal fragment (1-15) in anhedonia: Involvement of the dopaminergic mesolimbic system. <i>Journal of Psychopharmacology</i> , 2019 , 33, 737-747	4.6	6
63	Acute cocaine treatment enhances the antagonistic allosteric adenosine A2A-dopamine D2 receptor-receptor interactions in rat dorsal striatum without increasing significantly extracellular dopamine levels. <i>Pharmacological Reports</i> , 2020 , 72, 332-339	3.9	6
62	Differential activation of arginine-vasopressin receptor subtypes in the amygdaloid modulation of anxiety in the rat by arginine-vasopressin. <i>Psychopharmacology</i> , 2018 , 235, 1015-1027	4.7	6
61	A Novel Integrative Mechanism in Anxiolytic Behavior Induced by Galanin 2/Neuropeptide Y Y1 Receptor Interactions on Medial Paracapsular Intercalated Amygdala in Rats. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 119	6.1	6
60	IL1R2, CCR2, and CXCR4 May Form Heteroreceptor Complexes with NMDAR and D2R: Relevance for Schizophrenia. <i>Frontiers in Psychiatry</i> , 2017 , 8, 24	5	6
59	Acute isoproterenol induces anxiety-like behavior in rats and increases plasma content of extracellular vesicles. <i>Physiology and Behavior</i> , 2015 , 142, 79-84	3.5	6
58	"Neuro-semeiotics" and "free-energy minimization" suggest a unified perspective for integrative brain actions: focus on receptor heteromers and Roamer type of volume transmission. <i>Current Protein and Peptide Science</i> , 2014 , 15, 703-18	2.8	6

57	OSU-6162, a Sigma1R Ligand in Low Doses, Can Further Increase the Effects of Cocaine Self-Administration on Accumbal D2R Heteroreceptor Complexes. <i>Neurotoxicity Research</i> , 2020 , 37, 433-444	4.3	6
56	Characterization of the interaction between the dopamine D4 receptor, KLHL12 and Barrestins. <i>Cellular Signalling</i> , 2016 , 28, 1001-14	4.9	6
55	The triplet puzzle theory indicates extensive formation of heteromers between opioid and chemokine receptor subtypes. <i>Journal of Neural Transmission</i> , 2015 , 122, 1509-14	4.3	5
54	Bioinformatics aggregation predictors in the study of protein conformational diseases of the human nervous system. <i>Electrophoresis</i> , 2012 , 33, 3669-79	3.6	5
53	Vectors and P64k gene targeting for tandem affinity purification in Neisseria meningitidis. <i>Journal of Microbiological Methods</i> , 2006 , 65, 187-93	2.8	5
52	A new interpretative paradigm for Conformational Protein Diseases. <i>Current Protein and Peptide Science</i> , 2013 , 14, 141-60	2.8	5
51	Volume Transmission and the Russian-Doll Organization of Brain Cell Networks: Aspects of Their Integrative Actions 2014 , 103-119		5
50	The Balance of MU-Opioid, Dopamine D2 and Adenosine A2A Heteroreceptor Complexes in the Ventral Striatal-Pallidal GABA Antireward Neurons May Have a Significant Role in Morphine and Cocaine Use Disorders. <i>Frontiers in Pharmacology</i> , 2021 , 12, 627032	5.6	5
49	Galanin and neuropeptide Y interactions elicit antidepressant activity linked to neuronal precursor cells of the dentate gyrus in the ventral hippocampus. <i>Journal of Cellular Physiology</i> , 2021 , 236, 3565-3578	7.8	5
48	Transcriptomic integration of DR and MOR signaling in the rat caudate putamen. <i>Scientific Reports</i> , 2018 , 8, 7337	4.9	4
47	Co-immunoprecipitation from Brain. <i>Neuromethods</i> , 2016 , 19-29	0.4	4
46	Central administration of galanin N-terminal fragment 1-15 decreases the voluntary alcohol intake in rats. <i>Addiction Biology</i> , 2019 , 24, 76-87	4.6	4
45	On the G Protein-Coupled Receptor Neuromodulation of the Claustrum. <i>Neurochemical Research</i> , 2020 , 45, 5-15	4.6	4
44	The coming together of allosteric and phosphorylation mechanisms in the molecular integration of A2A heteroreceptor complexes in the dorsal and ventral striatal-pallidal GABA neurons. <i>Pharmacological Reports</i> , 2021 , 73, 1096-1108	3.9	4
43	Is There Volume Transmission Along Extracellular Fluid Pathways Corresponding to the Acupuncture Meridians?. <i>JAMS Journal of Acupuncture and Meridian Studies</i> , 2017 , 10, 5-19	1.2	3
42	Evidence for the existence of A2AR-TrkB heteroreceptor complexes in the dorsal hippocampus of the rat brain: Potential implications of A2AR and TrkB interplay upon ageing. <i>Mechanisms of Ageing and Development</i> , 2020 , 190, 111289	5.6	3
41	The multi-facet aspects of cell sentience and their relevance for the integrative brain actions: role of membrane protein energy landscape. <i>Reviews in the Neurosciences</i> , 2016 , 27, 347-63	4.7	3
40	Overproduction of human Muscarinic acetylcholine receptor: an approach toward structural studies. <i>Biotechnology Progress</i> , 2011 , 27, 838-45	2.8	3

39	Existence of striatal nerve cells coexpressing CCK(B) and D2 receptor mRNAs. <i>NeuroReport</i> , 1998 , 9, 2035-8	3
38	Galanin(1-15) Potentiates the Antidepressant-like Effects Induced by Escitalopram in a Rat Model of Depression. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3 3
37	Detection, Analysis, and Quantification of GPCR Homo- and Heteroreceptor Complexes in Specific Neuronal Cell Populations Using the In Situ Proximity Ligation Assay. <i>Neuromethods</i> , 2018 , 299-315	0.4 3
36	Small Interference RNA Knockdown Rats in Behavioral Functions: GALR1/GALR2 Heteroreceptor in Anxiety and Depression-Like Behavior. <i>Neuromethods</i> , 2018 , 133-148	0.4 3
35	Participation of protein kinases in cytotoxic and proapoptotic effects of ethylene glycol ethers and their metabolites in SH-SY5Y cells. <i>Toxicology in Vitro</i> , 2016 , 36, 153-163	3.6 3
34	A2AR Transmembrane 2 Peptide Administration Disrupts the A2AR-A2AR Homoreceptor but Not the A2AR-D2R Heteroreceptor Complex: Lack of Actions on Rodent Cocaine Self-Administration. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3 3
33	Serotonin Heteroreceptor Complexes and Their Integration of Signals in Neurons and Astroglia-Relevance for Mental Diseases. <i>Cells</i> , 2021 , 10,	7.9 3
32	Increased Ethanol Consumption and Locomotion Develop upon Ethanol Deprivation in Rats Overexpressing the Adenosine (A) Receptor. <i>Neuroscience</i> , 2019 , 418, 133-148	3.9 2
31	Increase of the FGFR1 signaling in the FGFR1-5-HT1A heteroreceptor complex in midbrain raphe 5-HT neuron systems via allosteric receptor-receptor interaction. <i>SpringerPlus</i> , 2015 , 4,	2
30	Studies on the cholinergic and dopaminergic innervation of the neostriatum with the help of intraneostriatal injections of drugs. <i>Pharmacology & Therapeutics</i> , 1976 , 2, 29-36	2
29	Molecular Integration in Adenosine Heteroreceptor Complexes Through Allosteric and De-Phosphorylation (STEP) Mechanisms and its Role in Brain Disease.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 781381	5.6 2
28	Role of dimerization in dopamine D(4) receptor biogenesis. <i>Current Protein and Peptide Science</i> , 2014 , 15, 659-65	2.8 2
27	Electrophysiological Approach to GPCR/BTK Interaction Study in Hippocampus of Adult Rats. <i>Neuromethods</i> , 2018 , 71-90	0.4 2
26	Adenosine and Kynurenic Acid Interactions: Possible Relevance for Schizophrenia Treatment?. <i>Frontiers in Pharmacology</i> , 2021 , 12, 654426	5.6 2
25	Methods to Identify the Signature of Trimers Formed by Three G Protein-Coupled Receptors or by Two G Protein-Coupled and One Ionotropic Receptor with Special Emphasis in the Functional Role in the Central Nervous System. <i>Neuromethods</i> , 2018 , 187-203	0.4 1
24	Desipramine restores the alterations in circadian entrainment induced by prenatal exposure to glucocorticoids. <i>Translational Psychiatry</i> , 2019 , 9, 263	8.6 1
23	Heteroreceptor Complexes Implicated in Parkinson Disease 2017 , 477-501	1
22	Cholecystinin receptor subtypes regulate dopamine D2 receptors in rat neostriatal membranes. Involvement of D1 receptors. <i>Annals of the New York Academy of Sciences</i> , 1994 , 713, 386-7	6.5 1

21	Co-immunoprecipitation (Co-IP) of G Protein-Coupled Receptor (GPCR)-Receptor Tyrosine Kinase (RTK) Complexes from the Dorsal Hippocampus of the Rat Brain. <i>Neuromethods</i> , 2019 , 157-164	0.4	1
20	Intranasal Delivery of Galanin 2 and Neuropeptide Y1 Agonists Enhanced Spatial Memory Performance and Neuronal Precursor Cells Proliferation in the Dorsal Hippocampus in Rats.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 820210	5.6	1
19	GALANIN (1-15) ENHANCES THE BEHAVIORAL EFFECTS OF FLUOXETINE IN THE OLFACTORY BULBECTOMY RAT SUGGESTING A NEW AUGMENTATION STRATEGY IN DEPRESSION. <i>International Journal of Neuropsychopharmacology</i> , 2021 ,	5.8	1
18	Galanin and Neuropeptide Y Interaction Enhances Proliferation of Granule Precursor Cells and Expression of Neuroprotective Factors in the Rat Hippocampus with Consequent Augmented Spatial Memory. <i>Biomedicines</i> , 2022 , 10, 1297	4.8	1
17	Use of Superfused Synaptosomes to Understand the Role of Receptor-Receptor Interactions as Integrative Mechanisms in Nerve Terminals from Selected Brain Region. <i>Neuromethods</i> , 2018 , 41-55	0.4	0
16	Dysfunctional Heteroreceptor Complexes as Novel Targets for the Treatment of Major Depressive and Anxiety Disorders. <i>Cells</i> , 2022 , 11, 1826	7.9	0
15	Can Allosteric Receptor-Protein Interactions in Receptor Complexes Be a Molecular Mechanism Involved in Cancer Immune Therapy?. <i>Frontiers in Endocrinology</i> , 2019 , 10, 574	5.7	
14	Adenosine Receptors as a Paradigm to Identify Dimer/Oligomers of G-Protein-Coupled Receptors and as Targets in Parkinson Disease and Schizophrenia 2018 , 239-258		
13	Analysis and Quantification of GPCR Allosteric Receptor-Receptor Interactions Using Radioligand Binding Assays: The A2AR-D2R Heteroreceptor Complex Example. <i>Neuromethods</i> , 2018 , 1-14	0.4	
12	Life without glutamate: the epigenetic effects of glutamate deletion. <i>Frontiers in Molecular Neuroscience</i> , 2014 , 7, 14	6.1	
11	Analysis and Quantification of GPCR Heteroreceptor Complexes and Their Allosteric Receptor-Receptor Interactions Using Radioligand Binding Autoradiography. <i>Neuromethods</i> , 2018 , 15-23	0.4	
10	Searching the GPCR Heterodimer Network (GPCR-hetnet) Database for Information to Deduce the Receptor-Receptor Interface and Its Role in the Integration of Receptor Heterodimer Functions. <i>Neuromethods</i> , 2018 , 283-298	0.4	
9	On the Study of D4R-MOR Receptor-Receptor Interaction in the Rat Caudate Putamen: Relevance on Morphine Addiction. <i>Neuromethods</i> , 2018 , 25-39	0.4	
8	Detection of Fibroblast Growth Factor Receptor 1 (FGFR1) Transactivation by Muscarinic Acetylcholine Receptors (mAChRs) in Primary Neuronal Hippocampal Cultures Through Use of Biochemical and Morphological Approaches. <i>Neuromethods</i> , 2018 , 57-70	0.4	
7	Behavioral Methods to Study the Impact of Receptor-Receptor Interactions in Fear and Anxiety. <i>Neuromethods</i> , 2018 , 109-131	0.4	
6	In Vivo Microdialysis Technique Applications to Understand the Contribution of Receptor-Receptor Interactions to the Central Nervous System Signaling. <i>Neuromethods</i> , 2018 , 91-107	0.4	
5	Coimmunoprecipitation (co-IP) Analysis for Protein-Protein Interactions in the Neurons of the Cerebral Ganglia of the Land Snails of the Genus <i>Polymita</i> During Aestivation. <i>Neuromethods</i> , 2019 , 147-156	0.4	
4	Isolation and Detection of G Protein-Coupled Receptor (GPCR) Heteroreceptor Complexes in Rat Brain Synaptosomal Preparation Using a Combined Brain Subcellular Fractionation/Co-immunoprecipitation (Co-IP) Procedures. <i>Neuromethods</i> , 2019 , 123-135	0.4	

- 3 Role of D₂-like Heteroreceptor Complexes in the Effects of Cocaine, Morphine, and Hallucinogens
2016, 93-101
- 2 The integrative role of G protein-coupled receptor heterocomplexes in Parkinson's disease.. *Neural
Regeneration Research*, **2022**, 17, 2211-2212 4.5
- 1 Increased density and antagonistic allosteric interactions in A2AR-D2R heterocomplexes in
extinction from cocaine use, lost in cue induced reinstatement of cocaine seeking.. *Pharmacology
Biochemistry and Behavior*, **2022**, 215, 173375 3.9