# Enric I. Canela

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Alternatively activated microglia and macrophages in the central nervous system. Progress in Neurobiology, 2015, 131, 65-86. | 5.7 | 561 |
| 2 | Presynaptic Control of Striatal Glutamatergic Neurotransmission by Adenosine A1-A2A Receptor Heteromers. Journal of Neuroscience, 2006, 26, 2080-2087. | 3.6 | 553 |
| 3 | Coaggregation, Cointernalization, and Codesensitization of Adenosine A2A Receptors and Dopamine D2Receptors. Journal of Biological Chemistry, 2002, 277, 18091-18097. | 3.4 | 450 |
| 4 | Dopamine D1 and adenosine A1 receptors form functionally interacting heteromeric complexes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8606-8611. | 7.1 | 419 |
| 5 | Adenosine A2A-Dopamine D2 Receptor-Receptor Heteromerization. Journal of Biological Chemistry, 2003, 278, 46741-46749. | 3.4 | 401 |
| 6 | Building a new conceptual framework for receptor heteromers. Nature Chemical Biology, 2009, 5, 131-134. | 8.0 | 349 |
| 7 | Synergistic interaction between adenosine A2A and glutamate mGlu5 receptors: Implications for striatal neuronal function. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11940-11945. | 7.1 | 345 |
| 8 | Molecular Mechanisms and Therapeutical Implications of Intramembrane Receptor/Receptor Interactions among Heptahelical Receptors with Examples from the Striatopallidal GABA Neurons. Pharmacological Reviews, 2003, 55, 509-550. | 16.0 | 306 |
| 9 | Detection of heteromerization of more than two proteins by sequential BRET-FRET. Nature Methods, 2008, 5, 727-733. | 19.0 | 269 |
| 10 | Metabotropic glutamate type 5, dopamine D<sub>2</sub> and adenosine A<sub>2a</sub> receptors form higherâ€order oligomers in living cells. Journal of Neurochemistry, 2009, 109, 1497-1507. | 3.9 | 249 |
| 11 | Adenosine receptorâ€"dopamine receptor interactions in the basal ganglia and their relevance for brain function. Physiology and Behavior, 2007, 92, 210-217. | 2.1 | 239 |
| 12 | Striatal Adenosine A2A and Cannabinoid CB1 Receptors Form Functional Heteromeric Complexes that Mediate the Motor Effects of Cannabinoids. Neuropsychopharmacology, 2007, 32, 2249-2259. | 5.4 | 229 |
| 13 | Cell surface adenosine deaminase: Much more than an ectoenzyme. Progress in Neurobiology, 1997, 52, 283-294. | 5.7 | 224 |
| 14 | Identification of Dopamine D1â€"D3 Receptor Heteromers. Journal of Biological Chemistry, 2008, 283, 26016-26025. | 3.4 | 216 |
| 15 | Adenosine A<SUB>2A</SUB> and Dopamine D<SUB>2</SUB> Heteromeric Receptor Complexes and Their Function. Journal of Molecular Neuroscience, 2005, 26, 209-220. | 2.3 | 207 |
| 16 | Cannabinoid Receptors CB1 and CB2 Form Functional Heteromers in Brain. Journal of Biological Chemistry, 2012, 287, 20851-20865. | 3.4 | 196 |
| 17 | Combining Mass Spectrometry and Pull-Down Techniques for the Study of Receptor Heteromerization. Direct Epitopeâˆ'Epitope Electrostatic Interactions between Adenosine A2Aand Dopamine D2Receptors. Analytical Chemistry, 2004, 76, 5354-5363. | 6.5 | 195 |
| 18 | Human adenosine deaminase 2 induces differentiation of monocytes into macrophages and stimulates proliferation of T helper cells and macrophages. Journal of Leukocyte Biology, 2010, 88, 279-290. | 3.3 | 192 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Mechanisms of cannabidiol neuroprotection in hypoxicâ€“ischemic newborn pigs: Role of 5HT1A and CB2 receptors. Neuropharmacology, 2013, 71, 282-291. | 4.1 | 182 |
| 20 | Metabotropic Glutamate 1Î± and Adenosine A1 Receptors Assemble into Functionally Interacting Complexes. Journal of Biological Chemistry, 2001, 276, 18345-18351. | 3.4 | 170 |
| 21 | Past, present and future of A2A adenosine receptor antagonists in the therapy of Parkinson's disease. , 2011, 132, 280-299. | | 170 |
| 22 | Aspects of the general biology of adenosine A2A signaling. Progress in Neurobiology, 2007, 83, 263-276. | 5.7 | 168 |
| 23 | Enzymatic and extraenzymatic role of ecto-adenosine deaminase in lymphocytes. Immunological Reviews, 1998, 161, 27-42. | 6.0 | 158 |
| 24 | Interactions between histamine H3 and dopamine D2 receptors and the implications for striatal function. Neuropharmacology, 2008, 55, 190-197. | 4.1 | 157 |
| 25 | Cognitive Impairment Induced by Delta9-tetrahydrocannabinol Occurs through Heteromers between Cannabinoid CB1 and Serotonin 5-HT2A Receptors. PLoS Biology, 2015, 13, e1002194. | 5.6 | 157 |
| 26 | Health Benefits of Methylxanthines in Cacao and Chocolate. Nutrients, 2013, 5, 4159-4173. | 4.1 | 155 |
| 27 | Antagonistic cannabinoid CB1/dopamine D2 receptor interactions in striatal CB1/D2 heteromers. A combined neurochemical and behavioral analysis. Neuropharmacology, 2008, 54, 815-823. | 4.1 | 154 |
| 28 | Direct involvement of Ïƒ-1 receptors in the dopamine D <sub>1</sub> receptor-mediated effects of cocaine. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18676-18681. | 7.1 | 153 |
| 29 | CB2 receptor and amyloid pathology in frontal cortex of Alzheimer's disease patients. Neurobiology of Aging, 2013, 34, 805-808. | 3.1 | 152 |
| 30 | Adenosine deaminase affects ligandâ€induced signalling by interacting with cell surface adenosine receptors. FEBS Letters, 1996, 380, 219-223. | 2.8 | 150 |
| 31 | A<sub>1</sub> Adenosine Receptors Accumulate in Neurodegenerative Structures in Alzheimer's Disease and Mediate Both Amyloid Precursor Protein Processing and Tau Phosphorylation and Translocation. Brain Pathology, 2003, 13, 440-451. | 4.1 | 150 |
| 32 | Evidence for Adenosine/Dopamine Receptor Interactions Indications for Heteromerization. Neuropsychopharmacology, 2000, 23, S50-S59. | 5.4 | 147 |
| 33 | Adenosine A2A receptor stimulation potentiates nitric oxide release by activated microglia. Journal of Neurochemistry, 2005, 95, 919-929. | 3.9 | 140 |
| 34 | Homodimerization of adenosine A2A receptors: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. Journal of Neurochemistry, 2003, 88, 726-734. | 3.9 | 139 |
| 35 | Marked changes in signal transduction upon heteromerization of dopamine D<sub>1</sub> and histamine H<sub>3</sub> receptors. British Journal of Pharmacology, 2009, 157, 64-75. | 5.4 | 138 |
| 36 | Successful therapies for AlzheimerÃ¢â‚¬â„¢s disease: why so many in animal models and none in humans?. Frontiers in Pharmacology, 2014, 5, 146. | 3.5 | 138 |

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| 37 | Functional relevance of neurotransmitter receptor heteromers in the central nervous system. Trends in Neurosciences, 2007, 30, 440-446. | 8.6 | 136 |
| 38 | Allosteric interactions between agonists and antagonists within the adenosine A <sub>2A</sub> receptor-dopamine D <sub>2</sub> receptor heterotetramer. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3609-18. | 7.1 | 135 |
| 39 | Binding and Signaling Studies Disclose a Potential Allosteric Site for Cannabidiol in Cannabinoid CB2 Receptors. Frontiers in Pharmacology, 2017, 8, 744. | 3.5 | 134 |
| 40 | Adenosine A2A-dopamine D2 receptorâ€“receptor heteromers. Targets for neuro-psychiatric disorders. Parkinsonism and Related Disorders, 2004, 10, 265-271. | 2.2 | 132 |
| 41 | Circadian-Related Heteromerization of Adrenergic and Dopamine D4 Receptors Modulates Melatonin Synthesis and Release in the Pineal Gland. PLoS Biology, 2012, 10, e1001347. | 5.6 | 132 |
| 42 | Adenosine A<sub>2A</sub> Receptor-Antagonist/Dopamine D<sub>2</sub> Receptor-Agonist Bivalent Ligands as Pharmacological Tools to Detect A<sub>2A</sub>-D<sub>2</sub> Receptor Heteromers. Journal of Medicinal Chemistry, 2009, 52, 5590-5602. | 6.4 | 129 |
| 43 | A1Râ€“A2AR heteromers coupled to Gs and Gi/0 proteins modulate GABA transport into astrocytes. Purinergic Signalling, 2013, 9, 433-449. | 2.2 | 123 |
| 44 | Immunological identification of A1adenosine receptors in brain cortex. Journal of Neuroscience Research, 1995, 42, 818-828. | 2.9 | 121 |
| 45 | Expression of the mRNA coding the cannabinoid receptor 2 in the pallidal complex of<i>Macaca fascicularis</i>. Journal of Psychopharmacology, 2011, 25, 97-104. | 4.0 | 120 |
| 46 | Adenosine A2A Receptor and Dopamine D3 Receptor Interactions: Evidence of Functional A2A/D3 Heteromeric Complexes. Molecular Pharmacology, 2005, 67, 400-407. | 2.3 | 119 |
| 47 | Working memory deficits in transgenic rats overexpressing human adenosine A2A receptors in the brain. Neurobiology of Learning and Memory, 2007, 87, 42-56. | 1.9 | 115 |
| 48 | Striatal Pre- and Postsynaptic Profile of Adenosine A2A Receptor Antagonists. PLoS ONE, 2011, 6, e16088. | 2.5 | 115 |
| 49 | Functional Selectivity of Allosteric Interactions within G Proteinâ€“Coupled Receptor Oligomers: The Dopamine D<sub>1</sub>-D<sub>3</sub> Receptor Heterotetramer. Molecular Pharmacology, 2014, 86, 417-429. | 2.3 | 114 |
| 50 | Adenosineâ€“cannabinoid receptor interactions. Implications for striatal function. British Journal of Pharmacology, 2010, 160, 443-453. | 5.4 | 113 |
| 51 | Neurotransmitter receptor heteromers and their integrative role in â€˜local modulesâ€™: The striatal spine module. Brain Research Reviews, 2007, 55, 55-67. | 9.0 | 112 |
| 52 | Cocaine Inhibits Dopamine D2 Receptor Signaling via Sigma-1-D2 Receptor Heteromers. PLoS ONE, 2013, 8, e61245. | 2.5 | 112 |
| 53 | Dopamine D1-histamine H3 Receptor Heteromers Provide a Selective Link to MAPK Signaling in GABAergic Neurons of the Direct Striatal Pathway. Journal of Biological Chemistry, 2011, 286, 5846-5854. | 3.4 | 109 |
| 54 | Immunodensity and mRNA expression of A2A adenosine, D2 dopamine, and CB1 cannabinoid receptors in postmortem frontal cortex of subjects with schizophrenia: effect of antipsychotic treatment. Psychopharmacology, 2009, 206, 313-324. | 3.1 | 108 |

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| 55 | Targeting Cannabinoid CB2 Receptors in the Central Nervous System. Medicinal Chemistry Approaches with Focus on Neurodegenerative Disorders. Frontiers in Neuroscience, 2016, 10, 406. | 2.8 | 108 |
| 56 | Adenosine receptor-mediated modulation of dopamine release in the nucleus accumbens depends on glutamate neurotransmission and N-methyl-d-aspartate receptor stimulation. Journal of Neurochemistry, 2004, 91, 873-880. | 3.9 | 107 |
| 57 | Detection of Heteromers Formed by Cannabinoid CB<sub>1</sub>, Dopamine D<sub>2</sub>, and Adenosine A<sub>2A</sub>G-Protein-Coupled Receptors by Combining Bimolecular Fluorescence Complementation and Bioluminescence Energy Transfer. Scientific World Journal, The, 2008, 8, 1088-1097. | 2.1 | 105 |
| 58 | Evidence for functional pre-coupled complexes of receptor heteromers and adenylyl cyclase. Nature Communications, 2018, 9, 1242. | 12.8 | 103 |
| 59 | Interactions between Intracellular Domains as Key Determinants of the Quaternary Structure and Function of Receptor Heteromers. Journal of Biological Chemistry, 2010, 285, 27346-27359. | 3.4 | 102 |
| 60 | The Adenosine A2A Receptor Interacts with the Actin-binding Protein Î±-Actinin. Journal of Biological Chemistry, 2003, 278, 37545-37552. | 3.4 | 100 |
| 61 | The relevance of theobromine for the beneficial effects of cocoa consumption. Frontiers in Pharmacology, 2015, 6, 30. | 3.5 | 100 |
| 62 | Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role of CB1 and CB2 receptors and relevance for Alzheimerâ€™s disease and levodopa-induced dyskinesia. Brain, Behavior, and Immunity, 2018, 67, 139-151. | 4.1 | 99 |
| 63 | Role of Cannabinoid Receptor CB2 in HER2 Pro-oncogenic Signaling in Breast Cancer. Journal of the National Cancer Institute, 2015, 107, djv077. | 6.3 | 98 |
| 64 | Basic Pharmacological and Structural Evidence for Class A G-Protein-Coupled Receptor Heteromerization. Frontiers in Pharmacology, 2016, 7, 76. | 3.5 | 98 |
| 65 | Quaternary structure of a G-protein-coupled receptor heterotetramer in complex with Gi and Gs. BMC Biology, 2016, 14, 26. | 3.8 | 97 |
| 66 | Targeting CB2-GPR55 Receptor Heteromers Modulates Cancer Cell Signaling. Journal of Biological Chemistry, 2014, 289, 21960-21972. | 3.4 | 95 |
| 67 | Adenosine Deaminase and A1 Adenosine Receptors Internalize Together following Agonist-induced Receptor Desensitization. Journal of Biological Chemistry, 1998, 273, 17610-17617. | 3.4 | 93 |
| 68 | The Endocannabinoid System as a Target in Cancer Diseases: Are We There Yet?. Frontiers in Pharmacology, 2019, 10, 339. | 3.5 | 91 |
| 69 | Involvement of adenosine A2A and dopamine receptors in the locomotor and sensitizing effects of cocaine. Brain Research, 2006, 1077, 67-80. | 2.2 | 90 |
| 70 | Comodulation of CXCR4 and CD26 in Human Lymphocytes. Journal of Biological Chemistry, 2001, 276, 19532-19539. | 3.4 | 89 |
| 71 | Adenosine Receptor Heteromers and their Integrative Role in Striatal Function. Scientific World Journal, The, 2007, 7, 74-85. | 2.1 | 89 |
| 72 | Detection of higherâ€order G proteinâ€coupled receptor oligomers by a combined BRETâ€“BiFC technique. FEBS Letters, 2008, 582, 2979-2984. | 2.8 | 89 |

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| 73 | Cannabigerol Action at Cannabinoid CB1 and CB2 Receptors and at CB1â€“CB2 Heteroreceptor Complexes. Frontiers in Pharmacology, 2018, 9, 632. | 3.5 | 88 |
| 74 | The Fractal Structure of Glycogen: A Clever Solution to Optimize Cell Metabolism. Biophysical Journal, 1999, 77, 1327-1332. | 0.5 | 86 |
| 75 | Involvement of Caveolin in Ligand-Induced Recruitment and Internalization of A<sub>1</sub>Adenosine Receptor and Adenosine Deaminase in an Epithelial Cell Line. Molecular Pharmacology, 2001, 59, 1314-1323. | 2.3 | 84 |
| 76 | GPCR homomers and heteromers: A better choice as targets for drug development than GPCR monomers?. , 2009, 124, 248-257. | | 84 |
| 77 | Basic Concepts in G-Protein-Coupled Receptor Homo- and Heterodimerization. Scientific World Journal, The, 2007, 7, 48-57. | 2.1 | 83 |
| 78 | l-DOPA-treatment in primates disrupts the expression of A2A adenosineâ€“CB1 cannabinoidâ€“D2 dopamine receptor heteromers in the caudate nucleus. Neuropharmacology, 2014, 79, 90-100. | 4.1 | 83 |
| 79 | Looking for the role of cannabinoid receptor heteromers in striatal function. Neuropharmacology, 2009, 56, 226-234. | 4.1 | 82 |
| 80 | Detection of cannabinoid receptors CB1 and CB2 within basal ganglia output neurons in macaques: changes following experimental parkinsonism. Brain Structure and Function, 2015, 220, 2721-2738. | 2.3 | 82 |
| 81 | Ligand-Induced Phosphorylation, Clustering, and Desensitization of A<sub>1</sub>Adenosine Receptors. Molecular Pharmacology, 1997, 52, 788-797. | 2.3 | 80 |
| 82 | Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. II. complex systems. Mathematical Biosciences, 1989, 94, 289-309. | 1.9 | 79 |
| 83 | Dopamine in Health and Disease: Much More Than a Neurotransmitter. Biomedicines, 2021, 9, 109. | 3.2 | 78 |
| 84 | l-DOPA disrupts adenosine A2Aâ€“cannabinoid CB1â€“dopamine D2 receptor heteromer cross-talk in the striatum of hemiparkinsonian rats: Biochemical and behavioral studies. Experimental Neurology, 2014, 253, 180-191. | 4.1 | 77 |
| 85 | Adenosine A2A receptor ligand recognition and signaling is blocked by A2B receptors. Oncotarget, 2018, 9, 13593-13611. | 1.8 | 77 |
| 86 | Adenosine/A2B Receptor Signaling Ameliorates the Effects of Aging and Counteracts Obesity. Cell Metabolism, 2020, 32, 56-70.e7. | 16.2 | 77 |
| 87 | The Two-State Dimer Receptor Model: A General Model for Receptor Dimers. Molecular Pharmacology, 2006, 69, 1905-1912. | 2.3 | 76 |
| 88 | Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. I. unbranched pathways. Mathematical Biosciences, 1989, 94, 271-288. | 1.9 | 74 |
| 89 | Regulation of heptaspanning-membrane-receptor function by dimerization and clustering. Trends in Biochemical Sciences, 2003, 28, 238-243. | 7.5 | 74 |
| 90 | Role of Electrostatic Interaction in Receptorâ€“Receptor Heteromerization. Journal of Molecular Neuroscience, 2005, 26, 125-132. | 2.3 | 74 |

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| 91 | Cannabidiol skews biased agonism at cannabinoid CB1 and CB2 receptors with smaller effect in CB1-CB2 heteroreceptor complexes. Biochemical Pharmacology, 2018, 157, 148-158. | 4.4 | 74 |
| 92 | Old and new ways to calculate the affinity of agonists and antagonists interacting with G-protein-coupled monomeric and dimeric receptors: The receptorâ€“dimer cooperativity index. , 2007, 116, 343-354. | | 70 |
| 93 | Cross-communication between Gi and Gs in a G-protein-coupled receptor heterotetramer guided by a receptor C-terminal domain. BMC Biology, 2018, 16, 24. | 3.8 | 70 |
| 94 | Receptorâ€“receptor interactions involving adenosine A1 or dopamine D1 receptors and accessory proteins. Journal of Neural Transmission, 2007, 114, 93-104. | 2.8 | 69 |
| 95 | Purinergic signaling in Parkinson's disease. Relevance for treatment. Neuropharmacology, 2016, 104, 161-168. | 4.1 | 68 |
| 96 | Abnormal calcium handling in atrial fibrillation is linked to up-regulation of adenosine A2A receptors. European Heart Journal, 2011, 32, 721-729. | 2.2 | 67 |
| 97 | Cocaine Disrupts Histamine H<sub>3</sub>Receptor Modulation of Dopamine D<sub>1</sub>Receptor Signaling: Ïƒ<sub>1</sub>-D<sub>1</sub>-H<sub>3</sub>Receptor Complexes as Key Targets for Reducing Cocaine's Effects. Journal of Neuroscience, 2014, 34, 3545-3558. | 3.6 | 66 |
| 98 | Orexinâ€“Corticotropin-Releasing Factor Receptor Heteromers in the Ventral Tegmental Area as Targets for Cocaine. Journal of Neuroscience, 2015, 35, 6639-6653. | 3.6 | 66 |
| 99 | Heterogeneous localization of some purine enzymes in subcellular fractions of rat brain and cerebellum. Neurochemical Research, 1986, 11, 423-435. | 3.3 | 65 |
| 100 | Ligand-induced caveolae-mediated internalization of A1 adenosine receptors: morphological evidence of endosomal sorting and receptor recycling. Experimental Cell Research, 2003, 285, 72-90. | 2.6 | 65 |
| 101 | Interactions between Calmodulin, Adenosine A2A, and Dopamine D2 Receptors. Journal of Biological Chemistry, 2009, 284, 28058-28068. | 3.4 | 65 |
| 102 | Solubilization of A1adenosine receptor from pig brain: Characterization and evidence of the role of the cell membrane on the coexistence of high- and low-affinity states. Journal of Neuroscience Research, 1990, 26, 461-473. | 2.9 | 64 |
| 103 | Heteromeric Nicotinic Acetylcholineâ€“Dopamine Autoreceptor Complexes Modulate Striatal Dopamine Release. Neuropsychopharmacology, 2007, 32, 35-42. | 5.4 | 63 |
| 104 | The Heat Shock Cognate Protein hsc73 Assembles with A 1 Adenosine Receptors To Form Functional Modules in the Cell Membrane. Molecular and Cellular Biology, 2000, 20, 5164-5174. | 2.3 | 62 |
| 105 | Dimer-based model for heptaspanning membrane receptors. Trends in Biochemical Sciences, 2005, 30, 360-366. | 7.5 | 60 |
| 106 | Gâ€proteinâ€coupled receptor heteromers: function and ligand pharmacology. British Journal of Pharmacology, 2008, 153, S90-8. | 5.4 | 60 |
| 107 | Oligomerization of G-protein-coupled receptors: A reality. Current Opinion in Pharmacology, 2010, 10, 1-5. | 3.5 | 60 |
| 108 | Structures for G-Protein-Coupled Receptor Tetramers in Complex with G Proteins. Trends in Biochemical Sciences, 2015, 40, 548-551. | 7.5 | 60 |

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|---|---|---|---|
| 109 | Adenosine deaminase potentiates the generation of effector, memory, and regulatory CD4+ T cells. Journal of Leukocyte Biology, 2010, 89, 127-136. | 3.3 | 59 |
| 110 | Adenosine Deaminase Interacts with A<sub>1</sub> Adenosine Receptors in Pig Brain Cortical Membranes. Journal of Neurochemistry, 1996, 66, 1675-1682. | 3.9 | 58 |
| 111 | Neurochemical evidence supporting dopamine D1â€“D2 receptor heteromers in the striatum of the long-tailed macaque: changes following dopaminergic manipulation. Brain Structure and Function, 2017, 222, 1767-1784. | 2.3 | 58 |
| 112 | A free derivate program for non-linear regression analysis of enzyme kinetics to be used on small computers. International Journal of Bio-medical Computing, 1984, 15, 121-130. | 0.5 | 57 |
| 113 | Calcium mobilization in Jurkat cells via A2b adenosine receptors. British Journal of Pharmacology, 1997, 122, 1075-1082. | 5.4 | 57 |
| 114 | Pharmacological data of cannabidiol- and cannabigerol-type phytocannabinoids acting on cannabinoid CB1, CB2 and CB1/CB2 heteromer receptors. Pharmacological Research, 2020, 159, 104940. | 7.1 | 57 |
| 115 | Molecular mechanisms involved in the adenosine A1 and A2A receptor-induced neuronal differentiation in neuroblastoma cells and striatal primary cultures. Journal of Neurochemistry, 2005, 92, 337-348. | 3.9 | 56 |
| 116 | Moonlighting Adenosine Deaminase: A Target Protein for Drug Development. Medicinal Research Reviews, 2015, 35, 85-125. | 10.5 | 54 |
| 117 | Molecular Evidence of Adenosine Deaminase Linking Adenosine A2A Receptor and CD26 Proteins. Frontiers in Pharmacology, 2018, 9, 106. | 3.5 | 54 |
| 118 | Allosteric Modulation of Dopamine D2Receptors by Homocysteine. Journal of Proteome Research, 2006, 5, 3077-3083. | 3.7 | 53 |
| 119 | Enzymatic and Extraenzymatic Role of Adenosine Deaminase 1 in T-Cell-Dendritic Cell Contacts and in Alterations of the Immune Function. Critical Reviews in Immunology, 2007, 27, 495-509. | 0.5 | 53 |
| 120 | Increase in A2A receptors in the nucleus accumbens after extended cocaine self-administration and its disappearance after cocaine withdrawal. Brain Research, 2007, 1143, 208-220. | 2.2 | 52 |
| 121 | Singular Location and Signaling Profile of Adenosine A2A-Cannabinoid CB1 Receptor Heteromers in the Dorsal Striatum. Neuropsychopharmacology, 2018, 43, 964-977. | 5.4 | 52 |
| 122 | Intracellular Calcium Levels Determine Differential Modulation of Allosteric Interactions within G Protein-Coupled Receptor Heteromers. Chemistry and Biology, 2014, 21, 1546-1556. | 6.0 | 51 |
| 123 | Fatty acid amide hydrolase inhibition for the symptomatic relief of Parkinsonâ€™s disease. Brain, Behavior, and Immunity, 2016, 57, 94-105. | 4.1 | 51 |
| 124 | Reinforcing and neurochemical effects of cannabinoid CB1 receptor agonists, but not cocaine, are altered by an adenosine A2A receptor antagonist. Addiction Biology, 2011, 16, 405-415. | 2.6 | 50 |
| 125 | Stronger Dopamine D1 Receptor-Mediated Neurotransmission in Dyskinesia. Molecular Neurobiology, 2015, 52, 1408-1420. | 4.0 | 49 |
| 126 | Targeting the dopamine D3 receptor: an overview of drug design strategies. Expert Opinion on Drug Discovery, 2016, 11, 641-664. | 5.0 | 49 |

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| 127 | Molecular and functional interaction between GPR18 and cannabinoid CB2 G-protein-coupled receptors. Relevance in neurodegenerative diseases. Biochemical Pharmacology, 2018, 157, 169-179. | 4.4 | 47 |
| 128 | G Protein-Coupled Receptor Heteromers as New Targets for Drug Development. Progress in Molecular Biology and Translational Science, 2010, 91, 41-52. | 1.7 | 46 |
| 129 | Adenosine A2A Receptor Antagonists in Neurodegenerative Diseases: Huge Potential and Huge Challenges. Frontiers in Psychiatry, 2018, 9, 68. | 2.6 | 46 |
| 130 | ROLE OF ADENOSINE IN THE CONTROL OF HOMOSYNAPTIC PLASTICITY IN STRIATAL EXCITATORY SYNAPSES. Journal of Integrative Neuroscience, 2005, 04, 445-464. | 1.7 | 45 |
| 131 | Human adenosine deaminase as an allosteric modulator of human A<sub>1</sub> adenosine receptor: abolishment of negative cooperativity for [<sup>3</sup>H](R)â€•pia binding to the caudate nucleus. Journal of Neurochemistry, 2008, 107, 161-170. | 3.9 | 45 |
| 132 | CCR5/CD4/CXCR4 oligomerization prevents HIV-1 gp120<sub>IIIB</sub>binding to the cell surface. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1960-9. | 7.1 | 45 |
| 133 | Dynamic Regulation of CXCR1 and CXCR2 Homo- and Heterodimers. Journal of Immunology, 2009, 183, 7337-7346. | 0.8 | 44 |
| 134 | Adenosine A2A Receptors and A2A Receptor Heteromers as Key Players in Striatal Function. Frontiers in Neuroanatomy, 2011, 5, 36. | 1.7 | 44 |
| 135 | Heteroreceptor Complexes Formed by Dopamine D1, Histamine H3, and N-Methyl-D-Aspartate Glutamate Receptors as Targets to Prevent Neuronal Death in Alzheimerâ€™s Disease. Molecular Neurobiology, 2017, 54, 4537-4550. | 4.0 | 44 |
| 136 | Understanding the Role of Adenosine A2AR Heteroreceptor Complexes in Neurodegeneration and Neuroinflammation. Frontiers in Neuroscience, 2018, 12, 43. | 2.8 | 44 |
| 137 | Adenosine A1 Receptor in Cultured Neurons from Rat Cerebral Cortex. Journal of Neurochemistry, 2002, 75, 656-664. | 3.9 | 43 |
| 138 | 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. Journal of Histochemistry and Cytochemistry, 2005, 53, 941-953. | 2.5 | 43 |
| 139 | Brain Dopamine Transmission in Health and Parkinson's Disease: Modulation of Synaptic Transmission and Plasticity Through Volume Transmission and Dopamine Heteroreceptors. Frontiers in Synaptic Neuroscience, 2018, 10, 20. | 2.5 | 43 |
| 140 | Trafficking of Adenosine A<SUB>2A</SUB> and Dopamine D<SUB>2</SUB> Receptors. Journal of Molecular Neuroscience, 2005, 25, 191-200. | 2.3 | 42 |
| 141 | How Calmodulin Interacts with the Adenosine A<sub>2A</sub> and the Dopamine D<sub>2</sub> Receptors. Journal of Proteome Research, 2008, 7, 3428-3434. | 3.7 | 42 |
| 142 | Potential of GPCRs to modulate MAPK and mTOR pathways in Alzheimerâ€™s disease. Progress in Neurobiology, 2017, 149-150, 21-38. | 5.7 | 42 |
| 143 | A model of the pentose phosphate pathway in rat liver cells. Molecular and Cellular Biochemistry, 1995, 142, 9-17. | 3.1 | 41 |
| 144 | Plasma membrane diffusion of g protein-coupled receptor oligomers. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 2262-2268. | 4.1 | 41 |

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| 145 | A Significant Role of the Truncated Ghrelin Receptor GHS-R1b in Ghrelin-induced Signaling in Neurons. Journal of Biological Chemistry, 2016, 291, 13048-13062. | 3.4 | 41 |
| 146 | Therapeutic targeting of HER2â€“CB <sub>2</sub> R heteromers in HER2-positive breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3863-3872. | 7.1 | 40 |
| 147 | A new strategy for the evaluation of force parameters from quantum mechanical computations. Journal of Computational Chemistry, 1991, 12, 664-674. | 3.3 | 39 |
| 148 | Novel Ergopeptides as Dual Ligands for Adenosine and Dopamine Receptors. Journal of Medicinal Chemistry, 2007, 50, 3062-3069. | 6.4 | 39 |
| 149 | Useful pharmacological parameters for G-protein-coupled receptor homodimers obtained from competition experiments. Agonistâ€“antagonist binding modulation. Biochemical Pharmacology, 2009, 78, 1456-1463. | 4.4 | 39 |
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