

Vladimir Dolezal

List of Publications by Year in Descending Order

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

89
papers

1,727
citations

24
h-index

37
g-index

93
ext. papers

1,855
ext. citations

5
avg, IF

4.28
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 89 | Neuroactive steroids, WIN-compounds and cholesterol share a common binding site on muscarinic acetylcholine receptors. <i>Biochemical Pharmacology</i> , 2021 , 192, 114699 | 6 | 0 |
| 88 | Neurosteroids and steroid hormones are allosteric modulators of muscarinic receptors. <i>Neuropharmacology</i> , 2021 , 199, 108798 | 5.5 | 0 |
| 87 | Agonist-Specific Conformations of the M Muscarinic Acetylcholine Receptor Assessed by Molecular Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 2325-2338 | 6.1 | 1 |
| 86 | Novel M -selective, G -biased agonists of muscarinic acetylcholine receptors. <i>British Journal of Pharmacology</i> , 2020 , 177, 2073-2089 | 8.6 | 4 |
| 85 | The operational model of allosteric modulation of pharmacological agonism. <i>Scientific Reports</i> , 2020 , 10, 14421 | 4.9 | 10 |
| 84 | Analysis of equilibrium binding of an orthosteric tracer and two allosteric modulators. <i>PLoS ONE</i> , 2019 , 14, e0214255 | 3.7 | 5 |
| 83 | Applications and limitations of fitting of the operational model to determine relative efficacies of agonists. <i>Scientific Reports</i> , 2019 , 9, 4637 | 4.9 | 8 |
| 82 | Novel long-acting antagonists of muscarinic ACh receptors. <i>British Journal of Pharmacology</i> , 2018 , 175, 1731-1743 | 8.6 | 6 |
| 81 | Role of membrane cholesterol in differential sensitivity of muscarinic receptor subtypes to persistently bound xanomeline. <i>Neuropharmacology</i> , 2018 , 133, 129-144 | 5.5 | 7 |
| 80 | Binding of N-methylscopolamine to the extracellular domain of muscarinic acetylcholine receptors. <i>Scientific Reports</i> , 2017 , 7, 40381 | 4.9 | 9 |
| 79 | Secreted Isoform of Human Lynx1 (SLURP-2): Spatial Structure and Pharmacology of Interactions with Different Types of Acetylcholine Receptors. <i>Scientific Reports</i> , 2016 , 6, 30698 | 4.9 | 24 |
| 78 | Utilization of Superfused Cerebral Slices in Probing Muscarinic Receptor Autoregulation of Acetylcholine Release. <i>Neuromethods</i> , 2016 , 221-233 | 0.4 | 3 |
| 77 | Apolipoprotein E4 reduces evoked hippocampal acetylcholine release in adult mice. <i>Journal of Neurochemistry</i> , 2016 , 136, 503-9 | 6 | 18 |
| 76 | Structural Insight into Specificity of Interactions between Nonconventional Three-finger Weak Toxin from <i>Naja kaouthia</i> (WTX) and Muscarinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2015 , 290, 23616-30 | 5.4 | 28 |
| 75 | Towards predictive docking at aminergic G-protein coupled receptors. <i>Journal of Molecular Modeling</i> , 2015 , 21, 284 | 2 | 17 |
| 74 | Changes in Membrane Cholesterol Differentially Influence Preferential and Non-preferential Signaling of the M1 and M3 Muscarinic Acetylcholine Receptors. <i>Neurochemical Research</i> , 2015 , 40, 2068-77 | 4.6 | 12 |
| 73 | Classical and atypical agonists activate M1 muscarinic acetylcholine receptors through common mechanisms. <i>Pharmacological Research</i> , 2015 , 97, 27-39 | 10.2 | 4 |

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| 72 | Lipid-Based Diets Improve Muscarinic Neurotransmission in the Hippocampus of Transgenic APPswe/PS1dE9 Mice. <i>Current Alzheimer Research</i> , 2015 , 12, 923-31 | 3 | 13 |
| 71 | Molecular mechanisms of methoctramine binding and selectivity at muscarinic acetylcholine receptors. <i>Molecular Pharmacology</i> , 2014 , 86, 180-92 | 4.3 | 18 |
| 70 | Long-term activation upon brief exposure to xanomeline is unique to M1 and M4 subtypes of muscarinic acetylcholine receptors. <i>PLoS ONE</i> , 2014 , 9, e88910 | 3.7 | 7 |
| 69 | Outline of therapeutic interventions with muscarinic receptor-mediated transmission. <i>Physiological Research</i> , 2014 , 63, S177-89 | 2.1 | 5 |
| 68 | On homology modeling of the M ₁ muscarinic acetylcholine receptor subtype. <i>Journal of Computer-Aided Molecular Design</i> , 2013 , 27, 525-38 | 4.2 | 16 |
| 67 | Uncoupling of M1 muscarinic receptor/G-protein interaction by amyloid β (1-42). <i>Neuropharmacology</i> , 2013 , 67, 272-83 | 5.5 | 24 |
| 66 | A specific multi-nutrient formulation enhances M1 muscarinic acetylcholine receptor responses in vitro. <i>Journal of Neurochemistry</i> , 2012 , 120, 631-40 | 6 | 18 |
| 65 | Characterization of the Drosophila adenosine receptor: the effect of adenosine analogs on cAMP signaling in Drosophila cells and their utility for in vivo experiments. <i>Journal of Neurochemistry</i> , 2012 , 121, 383-95 | 6 | 5 |
| 64 | NMR structure and action on nicotinic acetylcholine receptors of water-soluble domain of human LYNX1. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10618-27 | 5.4 | 68 |
| 63 | Subtype differences in pre-coupling of muscarinic acetylcholine receptors. <i>PLoS ONE</i> , 2011 , 6, e27732 | 3.7 | 10 |
| 62 | Negative cooperativity in binding of muscarinic receptor agonists and GDP as a measure of agonist efficacy. <i>British Journal of Pharmacology</i> , 2011 , 162, 1029-44 | 8.6 | 12 |
| 61 | Pharmacological evaluation of the long-term effects of xanomeline on the M(1) muscarinic acetylcholine receptor. <i>PLoS ONE</i> , 2010 , 5, e15722 | 3.7 | 5 |
| 60 | Functional cholinergic damage develops with amyloid accumulation in young adult APPswe/PS1dE9 transgenic mice. <i>Neurobiology of Disease</i> , 2010 , 38, 27-35 | 7.5 | 36 |
| 59 | Membrane cholesterol content influences binding properties of muscarinic M2 receptors and differentially impacts activation of second messenger pathways. <i>European Journal of Pharmacology</i> , 2009 , 606, 50-60 | 5.3 | 19 |
| 58 | Divergence of allosteric effects of rapacuronium on binding and function of muscarinic receptors. <i>BMC Pharmacology</i> , 2009 , 9, 15 | | 5 |
| 57 | Weak toxin WTX from Naja kaouthia cobra venom interacts with both nicotinic and muscarinic acetylcholine receptors. <i>FEBS Journal</i> , 2009 , 276, 5065-75 | 5.7 | 32 |
| 56 | Detection of choline transporter-like 1 protein CTL1 in neuroblastoma x glioma cells and in the CNS, and its role in choline uptake. <i>Journal of Neurochemistry</i> , 2009 , 110, 1297-309 | 6 | 27 |
| 55 | Impairment of muscarinic transmission in transgenic APPswe/PS1dE9 mice. <i>Neurobiology of Aging</i> , 2008 , 29, 368-78 | 5.6 | 43 |

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| 54 | Muscarinic M2 receptors directly activate Gq/11 and Gs G-proteins. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 320, 607-14 | 4-7 | 39 |
| 53 | Wash-resistantly bound xanomeline inhibits acetylcholine release by persistent activation of presynaptic M(2) and M(4) muscarinic receptors in rat brain. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 322, 316-23 | 4-7 | 8 |
| 52 | Differences in kinetics of xanomeline binding and selectivity of activation of G proteins at M(1) and M(2) muscarinic acetylcholine receptors. <i>Molecular Pharmacology</i> , 2006 , 70, 656-66 | 4-3 | 42 |
| 51 | The transcriptional repressor REST is a critical regulator of the neurosecretory phenotype. <i>Journal of Neurochemistry</i> , 2006 , 98, 1828-40 | 6 | 38 |
| 50 | Determinants of positive cooperativity between strychnine-like allosteric modulators and N-methylscopolamine at muscarinic receptors. <i>Journal of Molecular Neuroscience</i> , 2006 , 30, 111-2 | 3-3 | 1 |
| 49 | Docosahexaenoic acid supports cell growth and expression of choline acetyltransferase and muscarinic receptors in NG108-15 cell line. <i>Journal of Molecular Neuroscience</i> , 2006 , 30, 25-6 | 3-3 | 4 |
| 48 | The increase of choline acetyltransferase activity by docosahexaenoic acid in NG108-15 cells grown in serum-free medium is independent of its effect on cell growth. <i>Neurochemical Research</i> , 2006 , 31, 1239-46 | 4-6 | 4 |
| 47 | Chronic treatment with amyloid beta(1-42) inhibits non-cholinergic high-affinity choline transport in NG108-15 cells through protein kinase C signaling. <i>Brain Research</i> , 2005 , 1062, 101-10 | 3-7 | 14 |
| 46 | Asparagine, valine, and threonine in the third extracellular loop of muscarinic receptor have essential roles in the positive cooperativity of strychnine-like allosteric modulators. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 313, 688-96 | 4-7 | 24 |
| 45 | Thiochrome enhances acetylcholine affinity at muscarinic M4 receptors: receptor subtype selectivity via cooperativity rather than affinity. <i>Molecular Pharmacology</i> , 2004 , 65, 257-66 | 4-3 | 89 |
| 44 | Multiple promoters drive tissue-specific expression of the human M muscarinic acetylcholine receptor gene. <i>Journal of Neurochemistry</i> , 2004 , 91, 88-98 | 6 | 9 |
| 43 | Beta-amyloid and cholinergic neurons. <i>Neurochemical Research</i> , 2003 , 28, 499-506 | 4-6 | 23 |
| 42 | Nicotine indirectly increases acetylcholine release in rat striatum. <i>Journal of Neurochemistry</i> , 2003 , 85, 16-16 | 6 | |
| 41 | More than one way to toy with ChAT and VAcHT. <i>Journal of Physiology (Paris)</i> , 2002 , 96, 61-72 | | 20 |
| 40 | Chronic exposure of NG108-15 cells to amyloid beta peptide (A beta(1-42)) abolishes calcium influx via N-type calcium channels. <i>Neurochemical Research</i> , 2001 , 26, 1079-84 | 4-6 | 8 |
| 39 | Differentiation of NG108-15 cells induced by the combined presence of dbcAMP and dexamethasone brings about the expression of N and P/Q types of calcium channels and the inhibitory influence of muscarinic receptors on calcium influx. <i>Brain Research</i> , 2001 , 910, 134-41 | 3-7 | 11 |
| 38 | Stimuli that induce a cholinergic neuronal phenotype of NG108-15 cells upregulate ChAT and VAcHT mRNAs but fail to increase VAcHT protein. <i>Brain Research Bulletin</i> , 2001 , 54, 363-73 | 3-9 | 24 |
| 37 | Calcium channels involved in the inhibition of acetylcholine release by presynaptic muscarinic receptors in rat striatum. <i>British Journal of Pharmacology</i> , 1999 , 127, 1627-32 | 8-6 | 14 |

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| 36 | The effects of brucine and alcuronium on the inhibition of [³ H]acetylcholine release from rat striatum by muscarinic receptor agonists. <i>British Journal of Pharmacology</i> , 1998 , 124, 1213-8 | 8.6 | 35 |
| 35 | Positive effects of allosteric modulators on the binding properties and the function of muscarinic acetylcholine receptors. <i>Journal of Physiology (Paris)</i> , 1998 , 92, 241-3 | | 5 |
| 34 | Influence of retinoic acid and of cyclic AMP on the expression of choline acetyltransferase and of vesicular acetylcholine transporter in NG108-15 cells. <i>Journal of Physiology (Paris)</i> , 1998 , 92, 379-84 | | 13 |
| 33 | 27 Tacrine inhibits L-type calcium channels in the cholinergic SN56 cell line. <i>Journal of Physiology (Paris)</i> , 1998 , 92, 426-427 | | |
| 32 | Differential effects of the M1-M5 muscarinic acetylcholine receptor subtypes on intracellular calcium and on the incorporation of choline into membrane lipids in genetically modified Chinese hamster ovary cell lines. <i>Brain Research Bulletin</i> , 1997 , 42, 71-8 | 3.9 | 12 |
| 31 | Effect of tacrine on intracellular calcium in cholinergic SN56 neuronal cells. <i>Brain Research</i> , 1997 , 769, 219-24 | 3.7 | 13 |
| 30 | Effects of Nitric Oxide on the Catecholamine Release from cultured Bovine Adrenal Chromaffin Cells 1997 , 987-992 | | |
| 29 | 3,4-Diaminopyridine masks the inhibition of noradrenaline release from chick sympathetic neurons via presynaptic alpha 2-adrenoceptors: insights into the role of N- and L-type calcium channels. <i>Brain Research</i> , 1996 , 721, 101-10 | 3.7 | 13 |
| 28 | The influx of Ca ²⁺ and the release of noradrenaline evoked by the stimulation of presynaptic nicotinic receptors of chick sympathetic neurons in culture are not mediated via L-, N-, or P-type calcium channels. <i>Brain Research</i> , 1996 , 740, 75-80 | 3.7 | 14 |
| 27 | Presynaptic nicotinic receptors stimulate increases in intraterminal calcium of chick sympathetic neurons in culture. <i>Journal of Neurochemistry</i> , 1995 , 65, 1874-9 | 6 | 14 |
| 26 | Differences of the electrical and nicotinic receptor stimulation-evoked liberation of norepinephrine from chicken sympathetic neurons in culture: possible involvement of different pools of the transmitter. <i>Neurochemical Research</i> , 1995 , 20, 261-7 | 4.6 | 9 |
| 25 | Allosteric modulation of muscarinic acetylcholine receptors. <i>Trends in Pharmacological Sciences</i> , 1995 , 16, 205-12 | 13.2 | 137 |
| 24 | Presynaptic alpha 2-adrenoceptors inhibit calcium influx in terminals of chicken sympathetic neurons and noradrenaline release evoked by nicotinic stimulation. <i>Neuroscience Letters</i> , 1994 , 180, 63-6 ^{3.3} | | 11 |
| 23 | Chapter 25 The non-quantal release of acetylcholine from motor nerve terminals: comment on its likely size. <i>Progress in Brain Research</i> , 1993 , 98, 209-212 | 2.9 | |
| 22 | Effect of N,NRdicyclohexylcarbodiimide on compartmentation and release of newly synthesized and preformed acetylcholine in Torpedo synaptosomes. <i>Journal of Neurochemistry</i> , 1993 , 61, 1454-60 | 6 | 9 |
| 21 | Presynaptic muscarinic receptors and the release of acetylcholine from cerebrocortical prisms: roles of Ca ²⁺ and K ⁺ concentrations. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1993 , 348, 228-33 ^{3.4} | | 13 |
| 20 | Tacrine (Tetrahydroaminoacridine) and the Metabolism of Acetylcholine and Choline 1993 , 341-351 | | |
| 19 | Investigation of the mechanism of the effect of tacrine (tetrahydroaminoacridine) on the metabolism of acetylcholine and choline in brain cortical prisms. <i>Journal of Neural Transmission Parkinsons Disease and Dementia Section</i> , 1992 , 4, 303-18 | | 5 |

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| 18 | Positive and negative effects of tacrine (tetrahydroaminoacridine) and methoxytacrine on the metabolism of acetylcholine in brain cortical prisms incubated under "resting" conditions. <i>Journal of Neurochemistry</i> , 1991 , 56, 1207-15 | 6 | 15 |
| 17 | Negative effects of tacrine (tetrahydroaminoacridine) and methoxytacrine on the metabolism of acetylcholine in brain slices incubated under conditions stimulating neurotransmitter release. <i>Journal of Neurochemistry</i> , 1991 , 56, 1216-21 | 6 | 15 |
| 16 | Effects of atropine on the release of newly synthesized acetylcholine from rat striatal slices at various concentrations of calcium ions. <i>Neurochemical Research</i> , 1990 , 15, 41-5 | 4.6 | 7 |
| 15 | Effects of Pertussis Toxin Suggest a Role for G-Proteins in the Inhibition of Acetylcholine Release from Rat Myenteric Plexus by Opioid and Presynaptic Muscarinic Receptors. <i>European Journal of Neuroscience</i> , 1989 , 1, 127-131 | 3.5 | 10 |
| 14 | Calcium-independent release of acetylcholine from electric organ synaptosomes and its changes by depolarization and cholinergic drugs. <i>Journal of Neurochemistry</i> , 1988 , 50, 406-13 | 6 | 11 |
| 13 | Acetylcholine and choline in rat adrenals and brain cortex prisms incubated at elevated concentrations of choline in the medium. <i>Brain Research</i> , 1988 , 449, 244-52 | 3.7 | 7 |
| 12 | Failure of the calcium channel activator, Bay K 8644, to increase the release of acetylcholine from nerve terminals in brain and diaphragm. <i>British Journal of Pharmacology</i> , 1987 , 91, 475-9 | 8.6 | 16 |
| 11 | Effect of lanthanum on the release of acetylcholine from the myenteric plexus and on its activation by ouabain and electrical stimulation. <i>Journal of Neurochemistry</i> , 1987 , 49, 503-6 | 6 | 8 |
| 10 | Is an acetylcholine transport system responsible for nonquantal release of acetylcholine at the rodent myoneural junction?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 3514-8 | 11.5 | 92 |
| 9 | Regulation of acetylcholine synthesis in presynaptic endings of cholinergic CNS neurons. <i>Neurophysiology</i> , 1984 , 16, 453-460 | 0.6 | |
| 8 | Activation of muscarinic receptors stimulates the release of choline from brain slices. <i>Biochemical and Biophysical Research Communications</i> , 1984 , 120, 1002-7 | 3.4 | 35 |
| 7 | Decrease of the spontaneous non-quantal release of acetylcholine from the phrenic nerve in botulinum-poisoned rat diaphragm. <i>Pflugers Archiv European Journal of Physiology</i> , 1983 , 397, 319-22 | 4.6 | 28 |
| 6 | The synthesis and release of acetylcholine in normal and denervated rat diaphragms during incubation in vitro. <i>Journal of Physiology</i> , 1983 , 334, 461-74 | 3.9 | 39 |
| 5 | The effects of 4-aminopyridine and tetrodotoxin on the release of acetylcholine from rat striatal slices. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1983 , 323, 90-5 | 3.4 | 50 |
| 4 | Effects of choline and glucose on atropine-induced alterations of acetylcholine synthesis and content in the caudate nuclei of rats. <i>Brain Research</i> , 1982 , 240, 285-93 | 3.7 | 56 |
| 3 | Utilization of citrate, acetylcarnitine, acetate, pyruvate and glucose for the synthesis of acetylcholine in rat brain slices. <i>Journal of Neurochemistry</i> , 1981 , 36, 1323-30 | 6 | 114 |
| 2 | Inhibition of the synthesis of acetylcholine in rat brain slices by (-)-hydroxycitrate and citrate. <i>Journal of Neurochemistry</i> , 1981 , 36, 1331-7 | 6 | 28 |
| 1 | Steroids as the novel class of high-affinity allosteric modulators of muscarinic receptors | | 2 |

