

Virginia M Pickel

List of Publications by Year in descending order

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91
papers

5,947
citations

81900

39
h-index

76900

74
g-index

92
all docs

92
docs citations

92
times ranked

4019
citing authors

#	ARTICLE	IF	CITATIONS
1	Prefrontal cortical efferents in the rat synapse on unlabeled neuronal targets of catecholamine terminals in the nucleus accumbens septi and on dopamine neurons in the ventral tegmental area. <i>Journal of Comparative Neurology</i> , 1992, 320, 145-160.	1.6	755
2	Light-microscopic immunocytochemical localization of tyrosine hydroxylase in prenatal rat brain. I. Early ontogeny. <i>Journal of Comparative Neurology</i> , 1981, 199, 233-253.	1.6	387
3	Distribution of dopamine-, noradrenaline-, and adrenaline-containing cell bodies in the rat medulla oblongata: Demonstrated by the immunocytochemical localization of catecholamine biosynthetic enzymes. <i>Journal of Comparative Neurology</i> , 1982, 212, 173-187.	1.6	371
4	Light-microscopic immunocytochemical localization of tyrosine hydroxylase in prenatal rat brain. II. Late ontogeny. <i>Journal of Comparative Neurology</i> , 1981, 199, 255-276.	1.6	346
5	Immunocytochemical localization of enkephalin in the neostriatum of rat brain: A light and electron microscopic study. <i>Journal of Comparative Neurology</i> , 1980, 189, 721-740.	1.6	237
6	Ultrastructure of serotonin-immunoreactive terminals in the core and shell of the rat nucleus accumbens: Cellular substrates for interactions with catecholamine afferents. <i>Journal of Comparative Neurology</i> , 1993, 334, 603-617.	1.6	178
7	Morphine Acutely Regulates Opioid Receptor Trafficking Selectively in Dendrites of Nucleus Accumbens Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 4324-4332.	3.6	130
8	Major coexpression of μ -opioid receptors and the dopamine transporter in nucleus accumbens axonal profiles. <i>Synapse</i> , 2001, 42, 185-192.	1.2	126
9	Cholinergic axon terminals in the ventral tegmental area target a subpopulation of neurons expressing low levels of the dopamine transporter. <i>Journal of Comparative Neurology</i> , 1999, 410, 197-210.	1.6	125
10	Strain-dependent variations in number of midbrain dopaminergic neurones. <i>Nature</i> , 1976, 264, 654-656.	27.8	123
11	Gamma-aminobutyric acid in the medial rat nucleus accumbens: Ultrastructural localization in neurons receiving monosynaptic input from catecholaminergic afferents. <i>Journal of Comparative Neurology</i> , 1988, 272, 1-14.	1.6	114
12	Nox2, Ca ²⁺ , and Protein Kinase C Play a Role in Angiotensin II-Induced Free Radical Production in Nucleus Tractus Solitarius. <i>Hypertension</i> , 2006, 48, 482-489.	2.7	100
13	Plasmalemmal δ -opioid receptor distribution mainly in nondopaminergic neurons in the rat ventral tegmental area. <i>Synapse</i> , 2001, 41, 311-328.	1.2	94
14	Serotonergic terminals: Ultrastructure and synaptic interaction with catecholamine-containing neurons in the medial nuclei of the solitary tracts. <i>Journal of Comparative Neurology</i> , 1984, 225, 291-301.	1.6	93
15	Central Cardiovascular Circuits Contribute to the Neurovascular Dysfunction in Angiotensin II Hypertension. <i>Journal of Neuroscience</i> , 2012, 32, 4878-4886.	3.6	89
16	Energy deficit in parvalbumin neurons leads to circuit dysfunction, impaired sensory gating and social disability. <i>Neurobiology of Disease</i> , 2016, 93, 35-46.	4.4	87
17	Comparative ultrastructural localization of the NMDAR1 glutamate receptor in the rat basolateral amygdala and bed nucleus of the stria terminalis. <i>Journal of Comparative Neurology</i> , 1995, 362, 71-85.	1.6	81
18	Ultrastructural characterization of substance P-like immunoreactive neurons in the rostral ventrolateral medulla in relation to neurons containing catecholamine-synthesizing enzymes. <i>Journal of Comparative Neurology</i> , 1988, 270, 427-445.	1.6	79

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19	Ultrastructural view of central catecholaminergic transmission: immunocytochemical localization of synthesizing enzymes, transporters and receptors. <i>Journal of Neurocytology</i> , 1996, 25, 843-856.	1.5	77
20	Early prenatal development of substance P and enkephalin-containing neurons in the rat. <i>Journal of Comparative Neurology</i> , 1982, 210, 411-422.	1.6	75
21	Vesicular monoamine transporter-2: Immunogold localization in striatal axons and terminals. , 1997, 26, 194-198.		74
22	Immunocytochemical localization of tyrosine hydroxylase in the human fetal nervous system. <i>Journal of Comparative Neurology</i> , 1980, 194, 465-474.	1.6	72
23	Neuropeptide Y in Cortex and Striatum.. <i>Annals of the New York Academy of Sciences</i> , 1990, 611, 186-205.	3.8	70
24	?-opioid receptors are present in vagal afferents and their dendritic targets in the medial nucleus tractus solitarius. , 2000, 422, 181-190.		69
25	Ultrastructural immunocytochemical localization of ? opioid receptors and Leu5-enkephalin in the patch compartment of the rat caudate-putamen nucleus. , 1996, 375, 659-674.		68
26	Cannabinoid modulation of the dopaminergic circuitry: Implications for limbic and striatal output. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2012, 38, 21-29.	4.8	68
27	Localization of the ?-opioid receptor and dopamine transporter in the nucleus accumbens shell: Implications for opiate and psychostimulant cross-sensitization. <i>Synapse</i> , 1999, 34, 1-10.	1.2	62
28	Morphologically heterogeneous met-enkephalin terminals form synapses with tyrosine hydroxylase-containing dendrites in the rat nucleus locus coeruleus. <i>Journal of Comparative Neurology</i> , 1995, 363, 423-438.	1.6	61
29	Chronic Intermittent Hypoxia Induces NMDA Receptor-Dependent Plasticity and Suppresses Nitric Oxide Signaling in the Mouse Hypothalamic Paraventricular Nucleus. <i>Journal of Neuroscience</i> , 2010, 30, 12103-12112.	3.6	61
30	Dynorphin-immunoreactive terminals in the rat nucleus accumbens: Cellular sites for modulation of target neurons and interactions with catecholamine afferents. <i>Journal of Comparative Neurology</i> , 1994, 341, 1-15.	1.6	58
31	Presynaptic dopamine D4 receptor localization in the rat nucleus accumbens shell. <i>Synapse</i> , 2000, 36, 222-232.	1.2	55
32	Targeting of serotonin 1a receptors to dopaminergic neurons within the parabrachial subdivision of the ventral tegmental area in rat brain. <i>Journal of Comparative Neurology</i> , 2001, 433, 390-400.	1.6	55
33	Analysis of synaptic inputs and targets of physiologically characterized neurons in rat frontal cortex: Combined in vivo intracellular recording and immunolabeling. <i>Synapse</i> , 1994, 17, 101-114.	1.2	53
34	Pre- and postsynaptic sites for serotonin modulation of GABA-containing neurons in the shell region of the rat nucleus accumbens. , 1996, 371, 116-128.		51
35	Angiotensin II slow-pressor hypertension enhances NMDA currents and NOX2-dependent superoxide production in hypothalamic paraventricular neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R1096-R1106.	1.8	51
36	Neuropeptide Y and dynorphin-immunoreactive large dense-core vesicles are strategically localized for presynaptic modulation in the hippocampal formation and substantia nigra. <i>Synapse</i> , 1995, 19, 160-169.	1.2	50

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37	μ-Opioid receptors in the ventral tegmental area are targeted to presynaptically and directly modulate mesocortical projection neurons. <i>Synapse</i> , 2001, 41, 221-229.	1.2	48
38	Neurotensin in the rat parabrachial region: Ultrastructural localization and extrinsic sources of immunoreactivity. <i>Journal of Comparative Neurology</i> , 1986, 247, 326-343.	1.6	45
39	Dynorphin-immunoreactive neurons in the rat nucleus accumbens: Ultrastructure and synaptic input from terminals containing substance P and/or dynorphin. <i>Journal of Comparative Neurology</i> , 1995, 351, 117-133.	1.6	45
40	Ultrastructural localization of neurotensin-like immunoreactivity within dense core vesicles in perikarya, but not terminals, colocalizing tyrosine hydroxylase in the rat ventral tegmental area. <i>Journal of Comparative Neurology</i> , 1991, 311, 179-196.	1.6	44
41	Localization of tyrosine hydroxylase in neuronal targets and efferents of the area postrema in the nucleus tractus solitarii of the rat. <i>Journal of Comparative Neurology</i> , 1993, 329, 337-353.	1.6	43
42	Dual ultrastructural localization of δ -opiate receptors and substance p in the dorsal horn. , 2000, 36, 12-20.		43
43	Organic cation transporter 3 (OCT3) is localized to intracellular and surface membranes in select glial and neuronal cells within the basolateral amygdaloid complex of both rats and mice. <i>Brain Structure and Function</i> , 2017, 222, 1913-1928.	2.3	43
44	Region-specific targeting of dopamine D2-receptors and somatodendritic vesicular monoamine transporter 2 (VMAT2) within ventral tegmental area subdivisions. <i>Synapse</i> , 2002, 45, 113-124.	1.2	41
45	Y1 receptors in the nucleus accumbens: Ultrastructural localization and association with neuropeptide Y. , 1998, 52, 54-68.		40
46	Dendritic spines containing δ -opioid receptors in rat striatal patches receive asymmetric synapses from prefrontal corticostriatal afferents. <i>Journal of Comparative Neurology</i> , 1998, 396, 223-237.	1.6	40
47	Membrane Trafficking of NADPH Oxidase p47 ^{phox} in Paraventricular Hypothalamic Neurons Parallels Local Free Radical Production in Angiotensin II Slow-Pressor Hypertension. <i>Journal of Neuroscience</i> , 2013, 33, 4308-4316.	3.6	40
48	Pyramidal neurons in rat prefrontal cortex show a complex synaptic response to single electrical stimulation of the locus coeruleus region: Evidence for antidromic activation and GABAergic inhibition using in vivo intracellular recording and electron microscopy. , 1996, 22, 313-331.		39
49	NMDA Receptor Plasticity in the Hypothalamic Paraventricular Nucleus Contributes to the Elevated Blood Pressure Produced by Angiotensin II. <i>Journal of Neuroscience</i> , 2015, 35, 9558-9567.	3.6	39
50	Immunocytochemical localization of enkephalin and substance P in the dorsal tegmental nuclei in human fetal brain. <i>Journal of Comparative Neurology</i> , 1980, 193, 805-814.	1.6	37
51	Subcellular localization of β -2A-adrenergic receptors in the rat medial nucleus tractus solitarius: Regional targeting and relationship with catecholamine neurons. <i>Journal of Comparative Neurology</i> , 2001, 433, 193-207.	1.6	37
52	Ultrastructural localization of sorcin, a 22 kDa calcium binding protein, in the rat caudate-putamen nucleus: Association with ryanodine receptors and intracellular calcium release. , 1997, 386, 625-634.		36
53	Immunohistochemical localization of the catecholamine-synthesizing enzymes, substance P and enkephalin in the human fetal sympathetic ganglion. <i>Cell and Tissue Research</i> , 1981, 214, 33-42.	2.9	34
54	Ultrastructural immunocytochemical localization of neurotensin and the dopamine D2 receptor in the rat nucleus accumbens. <i>Journal of Comparative Neurology</i> , 1996, 371, 552-566.	1.6	34

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55	Conditional deletion of the NMDA-NR1 receptor subunit gene in the central nucleus of the amygdala inhibits naloxone-induced conditioned place aversion in morphine-dependent mice. <i>Experimental Neurology</i> , 2008, 213, 57-70.	4.1	34
56	Neurokinin 1 receptor distribution in cholinergic neurons and targets of substance P terminals in the rat nucleus accumbens. <i>Journal of Comparative Neurology</i> , 2000, 423, 500-511.	1.6	33
57	Slow-pressor angiotensin II hypertension and concomitant dendritic NMDA receptor trafficking in estrogen receptor β -containing neurons of the mouse hypothalamic paraventricular nucleus are sex and age dependent. <i>Journal of Comparative Neurology</i> , 2014, 522, 3075-3090.	1.6	33
58	High-affinity neurotensin receptors in the rat nucleus accumbens: Subcellular targeting and relation to endogenous ligand. <i>Journal of Comparative Neurology</i> , 2001, 435, 142-155.	1.6	31
59	Female protection from slow-pressor effects of angiotensin II involves prevention of ROS production independent of NMDA receptor trafficking in hypothalamic neurons expressing angiotensin 1A receptors. <i>Synapse</i> , 2015, 69, 148-165.	1.2	30
60	Dendritic and axonal targeting of the vesicular acetylcholine transporter to membranous cytoplasmic organelles in laterodorsal and pedunclopontine tegmental nuclei. , 2000, 419, 32-48.		26
61	Electrical stimulation of cerebellar fastigial nucleus protects rat brain, in vitro, from staurosporine-induced apoptosis. <i>Journal of Neurochemistry</i> , 2008, 79, 328-338.	3.9	25
62	Presence of δ -opioid receptors in targets of efferent projections from the central nucleus of the amygdala to the nucleus of the solitary tract. <i>Synapse</i> , 1999, 33, 141-152.	1.2	24
63	Rostrocaudal variation in targeting of N-methyl-D-aspartate and mu-opioid receptors in the rat medial nucleus of the solitary tract. <i>Journal of Comparative Neurology</i> , 2000, 421, 400-411.	1.6	24
64	Subcellular distributions of adenosine A1 and A2A receptors in the rat dorsomedial nucleus of the solitary tract at the level of the area postrema. <i>Synapse</i> , 2006, 60, 496-509.	1.2	24
65	Ultrastructural characterization of neurons recorded intracellularly in vivo and injected with lucifer yellow: Advantages of immunogold-silver vs. immunoperoxidase labeling. <i>Microscopy Research and Technique</i> , 1995, 30, 427-436.	2.2	23
66	Redistribution of NMDA Receptors in Estrogen-Receptor- β -Containing Paraventricular Hypothalamic Neurons following Slow-pressor Angiotensin II Hypertension in Female Mice with Accelerated Ovarian Failure. <i>Neuroendocrinology</i> , 2017, 104, 239-256.	2.5	22
67	Ultrastructural localization of cannabinoid CB1 and mGluR5 receptors in the prefrontal cortex and amygdala. <i>Journal of Comparative Neurology</i> , 2019, 527, 2730-2741.	1.6	22
68	Immunocytochemical localization of the renal neutral and basic amino acid transporter in rat adrenal gland, brainstem, and spinal cord. <i>Journal of Comparative Neurology</i> , 1995, 356, 505-522.	1.6	21
69	Chapter 12 Electron microscopic immunolabeling of transporters and receptors identifies transmitter-specific functional sites envisioned in Cajal's neuron. <i>Progress in Brain Research</i> , 2002, 136, 145-155.	1.4	21
70	Angiotensin II type 2 receptor-coupled nitric oxide production modulates free radical availability and voltage-gated Ca ²⁺ currents in NTS neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R1076-R1083.	1.8	21
71	Vesicular acetylcholine transporter in the rat nucleus accumbens shell: Subcellular distribution and association with δ -opioid receptors. <i>Synapse</i> , 2001, 40, 184-192.	1.2	20
72	Endocannabinoid genetic variation enhances vulnerability to THC reward in adolescent female mice. <i>Science Advances</i> , 2020, 6, eaay1502.	10.3	19

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73	Chronic adolescent exposure to Δ^9 -tetrahydrocannabinol decreases NMDA current and extrasynaptic plasmalemmal density of NMDA GluN1 subunits in the prelimbic cortex of adult male mice. <i>Neuropsychopharmacology</i> , 2020, 45, 374-383.	5.4	17
74	Tumor Necrosis Factor α Receptor Type 1 Activation in the Hypothalamic Paraventricular Nucleus Contributes to Glutamate Signaling and Angiotensin II-Dependent Hypertension. <i>Journal of Neuroscience</i> , 2021, 41, 1349-1362.	3.6	17
75	Changes in the subcellular distribution of NADPH oxidase subunit p47 ^{phox} in dendrites of rat dorsomedial nucleus tractus solitarius neurons in response to chronic administration of hypertensive agents. <i>Experimental Neurology</i> , 2007, 205, 383-395.	4.1	16
76	Characterization of chemically defined neurons and their cellular relationships by combined immunocytochemistry and radioautographic localization of transmitter uptake sites. <i>Journal of Electron Microscopy Technique</i> , 1986, 4, 21-39.	1.1	15
77	Alterations in the subcellular distribution of NADPH oxidase p47 ^{phox} in hypothalamic paraventricular neurons following slow α -pressor angiotensin II hypertension in female mice with accelerated ovarian failure. <i>Journal of Comparative Neurology</i> , 2016, 524, 2251-2265.	1.6	11
78	Sex and age differentially affect GABAergic neurons in the mouse prefrontal cortex and hippocampus following chronic intermittent hypoxia. <i>Experimental Neurology</i> , 2020, 325, 113075.	4.1	9
79	Ultrastructural characterization of tumor necrosis factor alpha receptor type 1 distribution in the hypothalamic paraventricular nucleus of the mouse. <i>Neuroscience</i> , 2017, 352, 262-272.	2.3	8
80	Adolescent isolation rearing produces a prepulse inhibition deficit correlated with expression of the NMDA GluN1 subunit in the nucleus accumbens. <i>Brain Structure and Function</i> , 2018, 223, 3169-3181.	2.3	8
81	Enkephalin levels and the number of neuropeptide Y-containing interneurons in the hippocampus are decreased in female cannabinoid-receptor 1 knock-out mice. <i>Neuroscience Letters</i> , 2016, 620, 97-103.	2.1	7
82	Electron microscopic localization of M2 μ -muscarinic receptors in cholinergic and noncholinergic neurons of the laterodorsal tegmental and pedunculopontine nuclei of the rat mesopontine tegmentum. <i>Journal of Comparative Neurology</i> , 2016, 524, 3084-3103.	1.6	4
83	Dopamine D4 Receptors Are Strategically Localized for Primary Involvement in the Presynaptic Effects of Dopamine in the Rat Nucleus Accumbens Shell. <i>Annals of the New York Academy of Sciences</i> , 1999, 877, 679-683.	3.8	3
84	Adolescent administration of Δ^9 -THC decreases the expression and function of muscarinic-1 receptors in prelimbic prefrontal cortical neurons of adult male mice. <i>IBRO Neuroscience Reports</i> , 2021, 11, 144-155.	1.6	3
85	Localization of the μ -opioid receptor and dopamine transporter in the nucleus accumbens shell: Implications for opiate and psychostimulant cross α -sensitization. <i>Synapse</i> , 1999, 34, 1-10.	1.2	1
86	Neurokinin 1 receptor distribution in cholinergic neurons and targets of substance P terminals in the rat nucleus accumbens. <i>Journal of Comparative Neurology</i> , 2000, 423, 500-511.	1.6	1
87	Prefrontal cortical distribution of muscarinic M2 and cannabinoid-1 (CB1) receptors in adult male mice with or without chronic adolescent exposure to Δ^9 -tetrahydrocannabinol. <i>Cerebral Cortex</i> , 2022, . .	2.9	1
88	Activation of angiotensin II (AngII) type α 2 receptors (AT2R) modulates voltage α -gated Ca ²⁺ currents in dorsomedial NTS (dmNTS) neurons through nitric oxide (NO). <i>FASEB Journal</i> , 2008, 22, 1168.7.	0.5	0
89	Chronic intermittent hypoxia (CIH) disrupts neurovascular coupling and endothelium dependent responses in the mouse cerebral microcirculation. <i>FASEB Journal</i> , 2009, 23, 993.4.	0.5	0
90	Phospholipases A2 (PLA2) and cyclooxygenase 1 (COX α 1) are critical for angiotensin II (Ang α II) α -induced reactive oxygen species (ROS) production and L α -type Ca ²⁺ current in subfornical organ (SFO) neurons. <i>FASEB Journal</i> , 2012, 26, .	0.5	0

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91	Angiotensin II (ANG II) slow pressor hypertension enhances NMDA receptor (NMDAR)-mediated currents and Nox2-dependent superoxide (O ₂ ⁻) production in spinally-projecting (SP) neurons of hypothalamic paraventricular nucleus (PVN). FASEB Journal, 2013, 27, 695.5.	0.5	0