A Claudio Cuello

List of Publications by Citations

194 papers	8,728 citations	48 h-index	88 g-index
213 ext. papers	9,945 ext. citations	6.7 avg, IF	6.17 L-index

#	Paper	IF	Citations
194	The distribution of substance P immunoreactive fibers in the rat central nervous system. *Journal of Comparative Neurology*, **1978**, 178, 129-56	3.4	687
193	The cholinergic system in the pathophysiology and treatment of Alzheimer's disease. *Brain*, **2018**, 141, 1917-1933	11.2	492
192	Evidence for the existence of substance P-containing fibres in striato-nigral and pallido-nigral pathways in rat brain. *Brain Research*, **1977**, 119, 447-53	3.7	317
191	The central and peripheral ends of the substance P-containing sensory neurones in the rat trigeminal system. *Brain Research*, **1978**, 152, 499-500	3.7	317
190	Translational control of hippocampal synaptic plasticity and memory by the eIF2alpha kinase GCN2. *Nature*, **2005**, 436, 1166-73	50.4	302
189	Activity-dependent release of precursor nerve growth factor, conversion to mature nerve growth factor, and its degradation by a protease cascade. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 6735-40	11.5	270
188	Substance P containing and cholinergic projections from the habenula. *Brain Research*, **1978**, 149, 413-29	3.7	178
187	Reorganization of cholinergic terminals in the cerebral cortex and hippocampus in transgenic mice carrying mutated presenilin-1 and amyloid precursor protein transgenes. *Journal of Neuroscience*, **1999**, 19, 2706-16	6.6	175
186	The anatomy of the CNS cholinergic neurons. *Trends in Neurosciences*, **1984**, 7, 74-78	13.3	170
185	Central distribution of opioid peptides. *British Medical Bulletin*, **1983**, 39, 11-6	5.4	143
184	A novel transgenic rat model with a full Alzheimer's-like amyloid pathology displays pre-plaque intracellular amyloid-beta-associated cognitive impairment. *Journal of Alzheimer's Disease*, **2010**, 20, 113-26	4.3	142
183	Depletion of substance P-containing axons in substantia gelatinosa of patients with diminished pain sensitivity. *Nature*, **1982**, 295, 61-3	50.4	127
182	Choline acetyltransferase-immunoreactive profiles are presynaptic to primary sensory fibers in the rat superficial dorsal horn. *Journal of Comparative Neurology*, **1990**, 295, 370-84	3.4	120
181	Increased matrix metalloproteinase 9 activity in mild cognitive impairment. *Journal of Neuropathology and Experimental Neurology*, **2009**, 68, 1309-18	3.1	110
180	Intracellular A□bligomers and early inflammation in a model of Alzheimer's disease. *Neurobiology of Aging*, **2012**, 33, 1329-42	5.6	105
179	Modeling Alzheimer's disease in transgenic rats. *Molecular Neurodegeneration*, **2013**, 8, 37	19	103
178	The amyloid pathology progresses in a neurotransmitter-specific manner. *Neurobiology of Aging*, **2006**, 27, 1644-57	5.6	102

177	Nerve growth factor metabolic dysfunction in Alzheimer's disease and Down syndrome. *Trends in Pharmacological Sciences*, **2014**, 35, 338-48	13.2	100
176	Neuronal driven pre-plaque inflammation in a transgenic rat model of Alzheimer's disease. *Neurobiology of Aging*, **2014**, 35, 2249-62	5.6	100
175	Immunohistochemical demonstration of some putative neurotransmitters in the lamprey spinal cord and spinal ganglia: 5-hydroxytryptamine-, tachykinin-, and neuropeptide-Y-immunoreactive neurons and fibers. *Journal of Comparative Neurology*, **1985**, 234, 501-22	3.4	100
174	Amyloid beta-induced nerve growth factor dysmetabolism in Alzheimer disease. *Journal of Neuropathology and Experimental Neurology*, **2009**, 68, 857-69	3.1	98
173	Immunoreactivity for substance P in the Gasserian ganglion, ophthalmic nerve and anterior segment of the rabbit eye. *The Histochemical Journal*, **1981**, 13, 435-43		98
172	Early and Late CNS Inflammation in Alzheimer's Disease: Two Extremes of a Continuum?. *Trends in Pharmacological Sciences*, **2017**, 38, 956-966	13.2	93
171	Paradoxical upregulation of glutamatergic presynaptic boutons during mild cognitive impairment. *Journal of Neuroscience*, **2007**, 27, 10810-7	6.6	91
170	Cholinergic involvement in Alzheimer's disease. A link with NGF maturation and degradation. *Journal of Molecular Neuroscience*, **2010**, 40, 230-5	3.3	90
169	ADAM-10 over-expression increases cortical synaptogenesis. *Neurobiology of Aging*, **2008**, 29, 554-65	5.6	89
168	A Path Toward Precision Medicine for Neuroinflammatory Mechanisms in Alzheimer's Disease. *Frontiers in Immunology*, **2020**, 11, 456	8.4	87
167	Purkinje cells of adult rat cerebellum express nerve growth factor receptor immunoreactivity: light microscopic observations. *Brain Research*, **1988**, 455, 182-6	3.7	83
166	Altered synaptic function in Alzheimer's disease. *European Journal of Pharmacology*, **2006**, 545, 11-21	5.3	79
165	Immunocytochemical localization of substance P in the spinal trigeminal nucleus of the rat: a light and electron microscopic study. *Journal of Comparative Neurology*, **1982**, 211, 31-49	3.4	79
164	Does a pro-inflammatory process precede Alzheimer's disease and mild cognitive impairment?. *Current Alzheimer Research*, **2011**, 8, 164-74	3	77
163	Substance P immunoreactive neurons following neonatal administration of capsaicin. *Naunyn-Schmiedebergs Archives of Pharmacology*, **1981**, 315, 185-94	3.4	77
162	Long-lasting rescue of age-associated deficits in cognition and the CNS cholinergic phenotype by a partial agonist peptidomimetic ligand of TrkA. *Journal of Neuroscience*, **2004**, 24, 8009-18	6.6	75
161	Minocycline corrects early, pre-plaque neuroinflammation and inhibits BACE-1 in a transgenic model of Alzheimer's disease-like amyloid pathology. *Journal of Neuroinflammation*, **2012**, 9, 62	10.1	73
160	A TrkA-selective, fast internalizing nerve growth factor-antibody complex induces trophic but not neuritogenic signals. *Journal of Biological Chemistry*, **1998**, 273, 34933-40	5.4	73

159	5-Hydroxytryptamine, substance P, and thyrotropin-releasing hormone in the adult cat spinal cord segment L7: immunohistochemical and chemical studies. *Synapse*, **1990**, 6, 237-70	2.4	73
158	Engagement of the PFC in consolidation and recall of recent spatial memory. *Learning and Memory*, **2010**, 17, 297-305	2.8	70
157	Rat transgenic models with a phenotype of intracellular Abeta accumulation in hippocampus and cortex. *Journal of Alzheimer's Disease*, **2004**, 6, 209-19	4.3	65
156	NGF-cholinergic dependency in brain aging, MCI and Alzheimer's disease. *Current Alzheimer Research*, **2007**, 4, 351-8	3	64
155	Loss of presynaptic and postsynaptic structures is accompanied by compensatory increase in action potential-dependent synaptic input to layer V neocortical pyramidal neurons in aged rats. *Journal of Neuroscience*, **2000**, 20, 8596-606	6.6	64
154	Intracellular A-beta amyloid, a sign for worse things to come?. *Molecular Neurobiology*, **2002**, 26, 299-316	6.2	63
153	Intracellular A pathology and early cognitive impairments in a transgenic rat overexpressing human amyloid precursor protein: a multidimensional study. *Acta Neuropathologica Communications*, **2014**, 2, 61	7.3	62
152	Impact of the NGF maturation and degradation pathway on the cortical cholinergic system phenotype. *Journal of Neuroscience*, **2012**, 32, 2002-12	6.6	62
151	An inflammatory and trophic disconnect biomarker profile revealed in Down syndrome plasma: Relation to cognitive decline and longitudinal evaluation. *Alzheimer's and Dementia*, **2016**, 12, 1132-1148	1.2	62
150	Precision pharmacology for Alzheimer's disease. *Pharmacological Research*, **2018**, 130, 331-365	10.2	60
149	Nerve growth factor metabolic dysfunction in Down's syndrome brains. *Brain*, **2014**, 137, 860-72	11.2	59
148	The failure in NGF maturation and its increased degradation as the probable cause for the vulnerability of cholinergic neurons in Alzheimer's disease. *Neurochemical Research*, **2007**, 32, 1041-5	4.6	58
147	Intracellular and extracellular Abeta, a tale of two neuropathologies. *Brain Pathology*, **2005**, 15, 66-71	6	53
146	Glycosphingolipids that can regulate nerve growth and repair. *Advances in Pharmacology*, **1990**, 21, 1-50	5.7	48
145	A progressive deposition of paired helical filaments (PHF) in the brain characterizes the evolution of dementia in Alzheimer's disease. An immunocytochemical study with a monoclonal antibody against the PHF core. *Journal of Neuropathology and Experimental Neurology*, **1991**, 50, 474-90	3.1	47
144	Differential deregulation of NGF and BDNF neurotrophins in a transgenic rat model of Alzheimer's disease. *Neurobiology of Disease*, **2017**, 108, 307-323	7.5	46
143	Peripheral nerve injury leads to the establishment of a novel pattern of sympathetic fibre innervation in the rat skin. *Journal of Comparative Neurology*, **2000**, 422, 287-96	3.4	46
142	Abeta immunoreactive material is present in several intracellular compartments in transfected, neuronally differentiated, P19 cells expressing the human amyloid beta-protein precursor. *Journal of Alzheimer's Disease*, **2000**, 2, 207-22	4.3	46

141	Longitudinal analysis of the behavioral phenotype in a novel transgenic rat model of early stages of Alzheimer's disease. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 321	3.5	45
140	Ectopic substance P and calcitonin gene-related peptide immunoreactive fibres in the spinal cord of transgenic mice over-expressing nerve growth factor. *European Journal of Neuroscience*, **1995**, 7, 2021-35	3.5	45
139	Neurotransmitter-specific projection neurons revealed by combining PAP immunohistochemistry with retrograde transport of HRP. *Brain Research*, **1981**, 220, 231-40	3.7	44
138	Analysis of matrix metallo-proteases and the plasminogen system in mild cognitive impairment and Alzheimer's disease cerebrospinal fluid. *Journal of Alzheimer's Disease*, **2014**, 40, 667-78	4.3	43
137	The NGF Metabolic Pathway in the CNS and its Dysregulation in Down Syndrome and Alzheimer's Disease. *Current Alzheimer Research*, **2016**, 13, 53-67	3	43
136	Early-stage inflammation and experimental therapy in transgenic models of the Alzheimer-like amyloid pathology. *Neurodegenerative Diseases*, **2010**, 7, 96-8	2.3	43
135	Tau function and dysfunction in neurons: its role in neurodegenerative disorders. *Molecular Neurobiology*, **2002**, 25, 213-31	6.2	43
134	The Brain NGF Metabolic Pathway in Health and in Alzheimer's Pathology. *Frontiers in Neuroscience*, **2019**, 13, 62	5.1	42
133	NLRP3-dependent synaptic plasticity deficit in an Alzheimer's disease amyloidosis model in vivo. *Neurobiology of Disease*, **2018**, 114, 24-30	7.5	42
132	Mitochondrial abnormalities in neuroectodermal cells stably expressing human amyloid precursor protein (hAPP751). *NeuroReport*, **1999**, 10, 41-6	1.7	41
131	Loss of substance P and enkephalin immunoreactivity in the human substantia nigra after striato-pallidal infarction. *Brain Research*, **1984**, 292, 339-47	3.7	41
130	Sex differences in functional and molecular neuroimaging biomarkers of Alzheimer's disease in cognitively normal older adults with subjective memory complaints. *Alzheimer's and Dementia*, **2018**, 14, 1204-1215	1.2	40
129	Skin blood vessels are simultaneously innervated by sensory, sympathetic, and parasympathetic fibers. *Journal of Comparative Neurology*, **2002**, 448, 323-36	3.4	40
128	Aging causes a preferential loss of cholinergic innervation of characterized neocortical pyramidal neurons. *Cerebral Cortex*, **2002**, 12, 329-37	5.1	40
127	A□induced vulnerability propagates via the brain's default mode network. *Nature Communications*, **2019**, 10, 2353	17.4	39
126	Glutamate-like immunoreactivity in medulla oblongata catecholamine/substance P neurons. *NeuroReport*, **1990**, 1, 235-8	1.7	39
125	Transgenic mice as a model of pre-clinical Alzheimer's disease. *Current Alzheimer Research*, **2011**, 8, 4-23	3	38
124	Serotonin-containing projections to the thalamus in the rat revealed by a horseradish peroxidase and peroxidase antiperoxidase double-staining technique. *Brain Research*, **1984**, 322, 233-43	3.7	36

123	Evidence of intraneuronal Aβ accumulation preceding tau pathology in the entorhinal cortex. *Acta Neuropathologica*, **2018**, 136, 901-917	14.3	36
122	Early dysregulation of hippocampal proteins in transgenic rats with Alzheimer's disease-linked mutations in amyloid precursor protein and presenilin 1. *Molecular Brain Research*, **2004**, 132, 241-59		35
121	Synaptosomal bioenergetic defects are associated with cognitive impairment in a transgenic rat model of early Alzheimer's disease. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 69-84	7.3	34
120	Early intraneuronal amyloid triggers neuron-derived inflammatory signaling in APP transgenic rats and human brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 6844-6854	11.5	33
119	Intraneuronal Amyloid Beta Accumulation Disrupts Hippocampal CRTC1-Dependent Gene Expression and Cognitive Function in a Rat Model of Alzheimer Disease. *Cerebral Cortex*, **2017**, 27, 1501-1511	5.1	33
118	Effects of trophic factors on the CNS cholinergic phenotype. *Progress in Brain Research*, **1996**, 109, 347-58	2.9	33
117	MicroPET imaging and transgenic models: a blueprint for Alzheimer's disease clinical research. *Trends in Neurosciences*, **2014**, 37, 629-41	13.3	32
116	Cognitive impairment and transmitter-specific pre- and postsynaptic changes in the rat cerebral cortex during ageing. *European Journal of Neuroscience*, **2007**, 26, 3583-96	3.5	32
115	Rescue of Early bace-1 and Global DNA Demethylation by S-Adenosylmethionine Reduces Amyloid Pathology and Improves Cognition in an Alzheimer's Model. *Scientific Reports*, **2016**, 6, 34051	4.9	31
114	Association of cerebrospinal fluid α-synuclein with total and phospho-tau protein concentrations and brain amyloid load in cognitively normal subjective memory complainers stratified by Alzheimer's disease biomarkers. *Alzheimer's and Dementia*, **2018**, 14, 1623-1631	1.2	30
113	Effects of nerve growth factor on cortical and striatal acetylcholine and dopamine release in rats with cortical devascularizing lesions. *Brain Research*, **1992**, 577, 300-5	3.7	30
112	Trigeminal antidromic vasodilatation and plasma extravasation in the rat: effects of sensory, autonomic and motor denervation. *Brain Research*, **1985**, 346, 108-14	3.7	29
111	Multimodal Imaging in Rat Model Recapitulates Alzheimer's Disease Biomarkers Abnormalities. *Journal of Neuroscience*, **2017**, 37, 12263-12271	6.6	28
110	Acidic FGF induces NGF and its mRNA in the injured neocortex of adult animals. *Molecular Brain Research*, **1995**, 33, 1-6		28
109	Derivatives of ganglioside GM1 as neuronotrophic agents: comparison of in vivo and in vitro effects. *Brain Research*, **1990**, 513, 286-94	3.7	28
108	AF710B, an M1/sigma-1 receptor agonist with long-lasting disease-modifying properties in a transgenic rat model of Alzheimer's disease. *Alzheimer's and Dementia*, **2018**, 14, 811-823	1.2	26
107	Therapeutic benefits of the methyl donor S-adenosylmethionine on nerve injury-induced mechanical hypersensitivity and cognitive impairment in mice. *Pain*, **2017**, 158, 802-810	8	25
106	Parasympathetic nerve fibers invade the upper dermis following sensory denervation of the rat lower lip skin. *Journal of Comparative Neurology*, **2004**, 469, 83-95	3.4	25

105	Trophic responses of forebrain cholinergic neurons: a discussion. *Progress in Brain Research*, **1993**, 98, 265-77	2.9	25
104	BACE1 inhibition by microdose lithium formulation NP03 rescues memory loss and early stage amyloid neuropathology. *Translational Psychiatry*, **2017**, 7, e1190	8.6	24
103	Longitudinal testing of hippocampal plasticity reveals the onset and maintenance of endogenous human A□nduced synaptic dysfunction in individual freely behaving pre-plaque transgenic rats: rapid reversal by anti-A□agents. *Acta Neuropathologica Communications*, **2014**, 2, 175	7.3	24
102	Imbalance towards inhibition as a substrate of aging-associated cognitive impairment. *Neuroscience Letters*, **2006**, 397, 64-8	3.3	24
101	Light and electron microscopic study of the distribution of substance P-immunoreactive fibers and neurokinin-1 receptors in the skin of the rat lower lip. *Journal of Comparative Neurology*, **2001**, 432, 466-80	2.4	24
100	Uptake of [3H]dopamine in periglomerular cells of the rat olfactory bulb: an autoradiographic study. *Brain Research*, **1979**, 165, 149-55	3.7	24
99	Worsening of memory deficit induced by energy-dense diet in a rat model of early-Alzheimer's disease is associated to neurotoxic A□species and independent of neuroinflammation. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 731-743	6.9	22
98	Perturbed mitochondria-ER contacts in live neurons that model the amyloid pathology of Alzheimer's disease. *Journal of Cell Science*, **2019**, 132,	5.3	22
97	Effects of coencapsulated NGF and GM1 in rats with cortical lesions. *NeuroReport*, **1993**, 4, 971-4	1.7	22
96	Correlation of cognitive performance and morphological changes in neocortical pyramidal neurons in aging. *Neurobiology of Aging*, **2012**, 33, 1466-80	5.6	20
95	Neocortical infarction in subhuman primates leads to restricted morphological damage of the cholinergic neurons in the nucleus basalis of Meynert. *Brain Research*, **1994**, 648, 1-8	3.7	20
94	MK-801 affects the potassium-induced increase of glial fibrillary acidic protein immunoreactivity in rat brain. *Brain Research*, **1992**, 598, 286-93	3.7	20
93	Ultrastructural and neurochemical analysis of synaptic input to trigemino-thalamic projection neurones in lamina I of the rat: a combined immunocytochemical and retrograde labelling study. *Journal of Comparative Neurology*, **1989**, 285, 467-86	3.4	20
92	Evolution of neuroinflammation across the lifespan of individuals with Down syndrome. *Brain*, **2020** , 143, 3653-3671	11.2	20
91	A Link Between Nerve Growth Factor Metabolic Deregulation and Amyloid-□Driven Inflammation in Down Syndrome. *CNS and Neurological Disorders - Drug Targets*, **2016**, 15, 434-47	2.6	20
90	Identification and Preliminary Validation of a Plasma Profile Associated with Cognitive Decline in Dementia and At-Risk Individuals: A Retrospective Cohort Analysis. *Journal of Alzheimer's Disease*, **2019**, 67, 327-341	4.3	20
89	Compromise of cortical proNGF maturation causes selective retrograde atrophy in cholinergic nucleus basalis neurons. *Neurobiology of Aging*, **2018**, 67, 10-20	5.6	19
88	Immunoelectron microscopic evidence of nerve growth factor receptor metabolism and internalization in rat nucleus basalis neurons. *Brain Research*, **1990**, 527, 109-15	3.7	19

87	Immunocytochemistry and neurobiology. *Quarterly Journal of Experimental Physiology (Cambridge, England)*, **1983**, 68, 545-78		19
86	Targeting glutamatergic and cellular prion protein mechanisms of amyloid β-mediated persistent synaptic plasticity disruption: Longitudinal studies. *Neuropharmacology*, **2017**, 121, 231-246	5.5	18
85	The Multi-Target Drug M30 Shows Pro-Cognitive and Anti-Inflammatory Effects in a Rat Model of Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2015**, 47, 373-83	4.3	18
84	Connecting the "Dots": From Free Radical Lipid Autoxidation to Cell Pathology and Disease. *Chemical Reviews*, **2020**, 120, 12757-12787	68.1	18
83	Changes with aging in the dopaminergic and noradrenergic innervation of rat neocortex. *Neurobiology of Aging*, **2011**, 32, 2244-53	5.6	17
82	Intraventricular application of BDNF and NT-3 failed to protect nucleus basalis magnocellularis cholinergic neurones. *NeuroReport*, **1994**, 5, 1105-9	1.7	17
81	Similarities in the ultrastructural distribution of nerve growth factor receptor-like immunoreactivity in cerebellar Purkinje cells of the neonatal and colchicine-treated adult rat. *Journal of Comparative Neurology*, **1991**, 305, 189-200	3.4	17
80	Effects of microencapsulated monosialoganglioside GM1 on cholinergic neurons. *Brain Research*, **1989**, 496, 165-72	3.7	17
79	Organization of peptidergic neurons in the dorsal horn of the spinal cord: anatomical and functional correlates. *Progress in Brain Research*, **1995**, 104, 41-59	2.9	16
78	Recovery of nucleus basalis cholinergic neurons by grafting NGF secretor fibroblasts. *NeuroReport*, **1992**, 3, 353-6	1.7	16
77	NP03, a Microdose Lithium Formulation, Blunts Early Amyloid Post-Plaque Neuropathology in McGill-R-Thy1-APP Alzheimer-Like Transgenic Rats. *Journal of Alzheimer's Disease*, **2020**, 73, 723-739	4.3	16
76	The human brain NGF metabolic pathway is impaired in the pre-clinical and clinical continuum of Alzheimers disease. *Molecular Psychiatry*, **2020**,	15.1	15
75	New patterns of intraneuronal accumulation of the microtubular binding domain of tau in granulovacuolar degeneration. *Topics in Geriatrics*, **1992**, 5, 132-41		15
74	eIF2B controls memory consolidation via excitatory and somatostatin neurons. *Nature*, **2020**, 586, 412-416	50.4	15
73	Cortical peroxynitration of nerve growth factor in aged and cognitively impaired rats. *Neurobiology of Aging*, **2012**, 33, 1927-37	5.6	14
72	Hippocampal Proteomic Analysis Reveals Distinct Pathway Deregulation Profiles at Early and Late Stages in a Rat Model of Alzheimer's-Like Amyloid Pathology. *Molecular Neurobiology*, **2018**, 55, 3451-3476	6.2	13
71	Trophic factor therapy in the adult CNS: remodelling of injured basalo-cortical neurons. *Progress in Brain Research*, **1994**, 100, 213-21	2.9	13
70	Blood-based systems biology biomarkers for next-generation clinical trials in Alzheimer's disease?. *Dialogues in Clinical Neuroscience*, **2019**, 21, 177-191	5.7	13

69	Preplaque ('preclinical') A□nduced inflammation and nerve growth factor deregulation in transgenic models of Alzheimer's disease-like amyloid pathology. *Neurodegenerative Diseases*, **2012**, 10, 104-7	2.3	12
68	Storage and release of amines, amino acids and peptides from dendrites. *Progress in Brain Research*, **1982**, 55, 205-24	2.9	12
67	Future avenues for Alzheimer's disease detection and therapy: liquid biopsy, intracellular signaling modulation, systems pharmacology drug discovery. *Neuropharmacology*, **2021**, 185, 108081	5.5	12
66	Chronic Hippocampal Expression of Notch Intracellular Domain Induces Vascular Thickening, Reduces Glucose Availability, and Exacerbates Spatial Memory Deficits in a Rat Model of Early Alzheimer. *Molecular Neurobiology*, **2018**, 55, 8637-8650	6.2	11
65	Evidence for the accumulation of Abeta immunoreactive material in the human brain and in transgenic animal models. *Life Sciences*, **2012**, 91, 1141-7	6.8	11
64	Trigeminal antidromic vasodilatation and plasma extravasation in the rat: effects of acetylcholine antagonists and cholinesterase inhibitors. *British Journal of Pharmacology*, **1985**, 84, 637-43	8.6	11
63	Searching for new pharmacological targets for the treatment of Alzheimer's disease in Down syndrome. *European Journal of Pharmacology*, **2017**, 817, 7-19	5.3	10
62	Inhibition of endogenous NGF degradation induces mechanical allodynia and thermal hyperalgesia in rats. *Molecular Pain*, **2013**, 9, 37	3.4	10
61	Preparation and characterization of new anti-PSMA monoclonal antibodies with potential clinical use. *Hybridoma*, **2007**, 26, 363-72		10
60	Cooperative effects of gangliosides on trophic factor-induced neuronal cell recovery and synaptogenesis: studies in rodents and subhuman primates. *Progress in Brain Research*, **1994**, 101, 337-55	2.9	10
59	Hemicholinium mustard derivatives: preliminary assessment of cholinergic neurotoxicity. *Neurochemical Research*, **1986**, 11, 1091-102	4.6	10
58	TrkA antagonists decrease NGF-induced ChAT activity in vitro and modulate cholinergic synaptic number in vivo. *Journal of Physiology (Paris)*, **1998**, 92, 205-8		9
57	Impact of intracellular beta-amyloid in transgenic animals and cell models. *Neurodegenerative Diseases*, **2008**, 5, 146-8	2.3	9
56	Microdose Lithium NP03 Diminishes Pre-Plaque Oxidative Damage and Neuroinflammation in a Rat Model of Alzheimer's-like Amyloidosis. *Current Alzheimer Research*, **2018**, 15, 1220-1230	3	9
55	Amyloid-beta modulates the association between neurofilament light chain and brain atrophy in Alzheimer's disease. *Molecular Psychiatry*, **2020**,	15.1	8
54	Effect of antioxidant supplements on lipid peroxidation levels in primary cortical neuron cultures. *Free Radical Biology and Medicine*, **2019**, 130, 471-477	7.8	8
53	Nerve growth factor (NGF) pathway biomarkers in Down syndrome prior to and after the onset of clinical Alzheimer's disease: A paired CSF and plasma study. *Alzheimer's and Dementia*, **2021**, 17, 605-617	1.2	8
52	Localization of substance P in neuronal pathways. *Novartis Foundation Symposium*, **1982**, 55-83		8

51	Experimental Pharmacology in Transgenic Rodent Models of Alzheimer's Disease. *Frontiers in Pharmacology*, **2019**, 10, 189	5.6	7
50	Gangliosides, NGF, brain aging and disease: a mini-review with personal reflections. *Neurochemical Research*, **2012**, 37, 1256-60	4.6	7
49	Responses of cortical noradrenergic and somatostinergic fibres and terminals to adjacent strokes and subsequent treatment with NGF and/or the ganglioside GM1. *Journal of Neuroscience Research*, **1997**, 50, 627-42	4.4	7
48	Two distinct monoclonal antibodies raised against mouse beta nerve growth factor. Generation of bi-specific anti-nerve growth factor anti-horseradish peroxidase antibodies for use in a homogeneous enzyme immunoassay. *Journal of Immunological Methods*, **1991**, 136, 247-57	2.5	7
47	Neuropathological changes and cognitive deficits in rats transgenic for human mutant tau recapitulate human tauopathy. *Neurobiology of Disease*, **2019**, 127, 323-338	7.5	6
46	Microencapsulation and the grafting of genetically transformed cells as therapeutic strategies to rescue degenerating neurons of the CNS. *Reviews in the Neurosciences*, **1995**, 6, 15-33	4.7	6
45	Role of immunology in defining transmitter-specific neurons. *Immunological Reviews*, **1987**, 100, 279-306	11.3	6
44	A new role for matrix metalloproteinase-3 in the NGF metabolic pathway: Proteolysis of mature NGF and sex-specific differences in the continuum of Alzheimer's pathology. *Neurobiology of Disease*, **2021**, 148, 105150	7.5	6
43	Hippocampal hyperactivity in a rat model of Alzheimer's disease. *Journal of Neurochemistry*, **2021**, 157, 2128-2144	6	5
42	Platelets Bioenergetics Screening Reflects the Impact of Brain Aβ Plaque Accumulation in a Rat Model of Alzheimer. *Neurochemical Research*, **2019**, 44, 1375-1386	4.6	5
41	Nerve growth factor treatment restores [3H]QNB binding site density in adult rat subjected to cortical infarction. *NeuroReport*, **1995**, 6, 419-20	1.7	4
40	Choline acetyltransferase activity in the rat trigeminal system. *Journal of Neurochemistry*, **1985**, 45, 1027	69	4
39	Reimagining cholinergic therapy for Alzheimer's disease.. *Brain*, **2022**,	11.2	4
38	Alzheimer's disease and Lewy body dementia. *British Journal of Psychiatry*, **1993**, 163, 693-4; author reply 694-5	5.4	3
37	Synthesis and immunological evaluation of N-terminal, noncrossreactive tachykinin antigens. *Journal of Medicinal Chemistry*, **1988**, 31, 1907-10	8.3	3
36	Early Long-Term Memory Impairment and Changes in the Expression of Synaptic Plasticity-Associated Genes, in the McGill-R-Thy1-APP Rat Model of Alzheimer's-Like Brain Amyloidosis. *Frontiers in Aging Neuroscience*, **2020**, 12, 585873	5.3	2
35	Overview of the Alzheimer's Disease Pathology and Potential Therapeutic Targets **2007**, 1-27		2
34	Theodore Lionel Sourkes obituary. *Movement Disorders*, **2015**, 30, 446-7	7	1

33	Pharmacological Mechanisms in Alzheimer's Therapeutics **2007**,		1
32	Cognitive and brain cytokine profile of non-demented individuals with cerebral amyloid-beta deposition. *Journal of Neuroinflammation*, **2021**, 18, 147	10.1	1
31	P3-046: NP03 Inhibits Bace1 and GSK-3B for the Prevention of Early Alzheimer□-Like Amyloid Neuropathology in Transgenic Rats **2016**, 12, P834-P834		1
30	Preclinical longitudinal assessment of KG207-M as a disease-modifying Alzheimer's disease therapeutic. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 271678X211035625	7.3	1
29	Rita Levi-Montalcini, NGF Metabolism in Health and in the Alzheimer's Pathology. *Advances in Experimental Medicine and Biology*, **2021**, 1331, 119-144	3.6	1
28	P4-013: Pro-Cognitive and Anti-Inflammatory Effects of Af710B, a Mixed M1 Muscarinic/Sigma-1 Receptor Agonist, in the Mcgill-R-Thy1-App Rat Model of Human Ad-Like Amyloid Pathology **2016**, 12, P1019-P1019		0
27	[P4□035]: AMYLOID □DRIVEN DNA DEMETHYLATION AS A TARGET FOR ALZHEIMER's DISEASE **2017**, 13, P1269-P1270		
26	[P3□159]: INTRANASAL INTERVENTION OF THE LXRS-APOE-MICROGLIA AXIS TO IMPROVE BRAIN BETA-AMYLOID CLEARANCE IN A TRANSGENIC MOUSE MODEL OF AD **2017**, 13, P995-P995		
25	[P1□201]: REST HIPPOCAMPAL AND CORTICAL LEVELS CORRELATE WITH COGNITIVE PERFORMANCE IN A RAT MODEL OF EARLY ALZHEIMER'S DISEASE **2017**, 13, P319-P319		
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23	Ted Sourkes, Moussa Youdim and I. *Journal of Neural Transmission*, **2020**, 127, 119-123	4.3	
22	IC-P-048: LONGITUDINAL FOLLOW-UP OF AMYLOIDOSIS AND GLUCOSE HYPOMETABOLISM IN A TRANSGENIC RAT MODEL OF ALZHEIMER'S DISEASE **2014**, 10, P28-P29		
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17	IC-P-027: Dynamics of longitudinal biomarker changes in the Mcgill-R-Thy1-APP RAT **2015**, 11, P27-P28		
16	IC-P-026: Amyloidosis induces reorganization of the hippocampal metabolic network **2015**, 11, P27-P27		

15 P4-222: NEW FORMULATION OF LITHIUM IMPROVES COGNITIVE PERFORMANCE IN EARLY STAGES OF ALZHEIMER-LIKE AMYLOID PATHOLOGY IN TRANSGENIC RATS **2014**, 10, P869-P869

14 Evidence That Amyloid Pathology Progresses in a Neurotransmitter-Specific Manner **2008**, 393-401

13 IC-P-027: Amyloid-Induced Microglial Activity in Thalamocortical Circuits Predicts Subsequent Cognitive Decline **2016**, 12, P28-P29

12 P1-101: Amyloid-Beta 1-42 (A□1-42) Levels in the Cerebrospinal Fluid Associate With Spatial Memory Performance in Aged But Not in Adult Mcgill-R-THY1-APP Rats **2016**, 12, P440-P440

11 IC-P-099: Synergism Between Brain Amyloid Accumulation and Neuronal Injury in Cortical-Subcortical Circuits Causes Memory Declines in Animal Models **2016**, 12, P75-P76

10 IC-P-101: Synergism Between Baseline Amyloidosis and Neuronal Injury as Determinants of Learning Deficits in AD Transgenic Rat Model **2016**, 12, P77-P77

9 P3-221: Synergism Between Baseline Amyloidosis and Neuronal Injury as Determinants of Learning Deficits in Alzheimer's Disease Transgenic Rat Model **2016**, 12, P910-P910

8 O2-02-01: Dna Demethylation and Remethylation in Alzheimer□ Pathology **2016**, 12, P223-P224

7 P3-338: AMYLOID AND MICROGLIAL ACTIVATION SYNERGY LEADS TO HYPOMETABOLISM IN AD BRAIN: MICROPET LONGITUDINAL STUDY **2018**, 14, P1211-P1212

6 P2-187: BUILDUP OF INTRACELLULAR A□ELICITS NEURONAL INFLAMMATION, INDEPENDENT OF PLAQUE PATHOLOGY **2018**, 14, P740-P741

5 P2-189: CHRONOLOGICAL CORRELATION BETWEEN LSD1, □AMYLOID AND PRO-INFLAMMATORY MARKERS WITH COGNITIVE PERFORMANCE IN AN AD-LIKE TRANSGENIC RAT MODEL **2018**, 14, P741-P741

4 P3-153: VALIDATING LXRS/ABCA1/APOE AXIS INTERVENTION AS A POTENTIAL THERAPEUTIC TAGET TO PREVENT AMYLOID BETA CLEARANCE IMBALANCE **2018**, 14, P1126-P1127

3 P3-093: VIRAL VECTOR-MEDIATED OVEREXPRESSION OF HUMAN TAU IN THE RAT LOCUS COERULEUS: TAU LONG-TERM EXPRESSION AND PATHOLOGICAL CHANGES **2018**, 14, P1101-P1101

2 P3-094: A NOVEL TRANSGENIC RAT MODEL OF TAUOPATHY WITH SEVERE BRAIN ATROPHY, GLIOSIS AND COGNITIVE DEFICITS **2018**, 14, P1101-P1102

1 Nerve Growth Factor Compromise in Down Syndrome. *Frontiers in Aging Neuroscience*, **2021**, 13, 719507 5.3