

Valentin Ceñã±a

List of Publications by Year in descending order

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120
papers

10,186
citations

81743

39
h-index

34900

98
g-index

123
all docs

123
docs citations

123
times ranked

21068
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Sequential Treatment of SH-SY5Y Cells with Retinoic Acid and Brain-Derived Neurotrophic Factor Gives Rise to Fully Differentiated, Neurotrophic Factor-Dependent, Human Neuron-Like Cells. <i>Journal of Neurochemistry</i> , 2002, 75, 991-1003.	2.1	649
3	Endocytosis: The Nanoparticle and Submicron Nanocompounds Gateway into the Cell. <i>Pharmaceutics</i> , 2020, 12, 371.	2.0	248
4	Adenosine released by astrocytes contributes to hypoxia-induced modulation of synaptic transmission. <i>Glia</i> , 2007, 55, 36-45.	2.5	182
5	D1 but not D5 Dopamine Receptors Are Critical for LTP, Spatial Learning, and LTP-Induced arc and zif268 Expression in the Hippocampus. <i>Cerebral Cortex</i> , 2008, 18, 1-12.	1.6	178
6	Mitochondrial Dysfunction Is Involved in Apoptosis Induced by Serum Withdrawal and Fatty Acids in the Î²-Cell Line Ins-1. <i>Endocrinology</i> , 2003, 144, 335-345.	1.4	170
7	Barriers to Non-Viral Vector-Mediated Gene Delivery in the Nervous System. <i>Pharmaceutical Research</i> , 2011, 28, 1843-1858.	1.7	157
8	Group-I metabotropic glutamate receptors: hypotheses to explain their dual role in neurotoxicity and neuroprotection. <i>Neuropharmacology</i> , 1999, 38, 1477-1484.	2.0	153
9	Nanoparticle crossing of blood-brain barrier: a road to new therapeutic approaches to central nervous system diseases. <i>Nanomedicine</i> , 2018, 13, 1513-1516.	1.7	152
10	Pharmacological dissection of receptor-associated and voltage-sensitive ionic channels involved in catecholamine release. <i>Neuroscience</i> , 1983, 10, 1455-1462.	1.1	150
11	Clitazones Differentially Regulate Primary Astrocyte and Glioma Cell Survival. <i>Journal of Biological Chemistry</i> , 2004, 279, 8976-8985.	1.6	115
12	Differential expression and enzymatic properties of the Na ⁺ ,K ⁺ -ATPase alpha 3 isoenzyme in rat pineal glands.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 1178-1182.	3.3	103
13	Brain-derived neurotrophic factor modulates the severity of cognitive alterations induced by mutant huntingtin: Involvement of phospholipase C β 3 activity and glutamate receptor expression. <i>Neuroscience</i> , 2009, 158, 1234-1250.	1.1	98
14	Control mitocondrial de la muerte neuronal y su papel en las enfermedades neurodegenerativas. <i>Journal of Physiology and Biochemistry</i> , 2003, 59, 129-141.	1.3	97
15	Nanoparticles for brain-specific drug and genetic material delivery, imaging and diagnosis. <i>Nanomedicine</i> , 2016, 11, 833-849.	1.7	95
16	Nicotinic Receptors in Neurodegeneration. <i>Current Neuropharmacology</i> , 2013, 11, 298-314.	1.4	92
17	Bcl-xL blocks mitochondrial multiple conductance channel activation and inhibits 6-OHDA-induced death in SH-SY5Y cells. <i>Journal of Neurochemistry</i> , 2004, 89, 124-133.	2.1	80
18	Glial Cell Line-derived Neurotrophic Factor Increases Intracellular Calcium Concentration. <i>Journal of Biological Chemistry</i> , 2004, 279, 6132-6142.	1.6	76

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19	Acetaminophen Induces Apoptosis in Rat Cortical Neurons. PLoS ONE, 2010, 5, e15360.	1.1	71
20	Lifeguard/neuronal membrane protein 35 regulates Fas ligand-mediated apoptosis in neurons via microdomain recruitment. Journal of Neurochemistry, 2007, 103, 070717084306001-???.	2.1	67
21	Reactive oxygen species induce swelling and cytochrome c release but not transmembrane depolarization in isolated rat brain mitochondria. British Journal of Pharmacology, 2003, 139, 797-804.	2.7	65
22	Highly Efficient Transfection of Rat Cortical Neurons Using Carbosilane Dendrimers Unveils a Neuroprotective Role for HIF-1 α in Early Chemical Hypoxia-Mediated Neurotoxicity. Pharmaceutical Research, 2009, 26, 1181-1191.	1.7	63
23	Nonviral vectors for the delivery of small interfering RNAs to the CNS. Nanomedicine, 2010, 5, 1219-1236.	1.7	63
24	An activity-dependent switch from facilitation to inhibition in the control of excitotoxicity by group I metabotropic glutamate receptors. European Journal of Neuroscience, 2001, 13, 1469-1478.	1.2	62
25	Involvement of mitochondrial potential and calcium buffering capacity in minocycline cytoprotective actions. Neuroscience, 2005, 133, 959-967.	1.1	59
26	Carbon nanohorns functionalized with polyamidoamine dendrimers as efficient biocarrier materials for gene therapy. Carbon, 2012, 50, 2832-2844.	5.4	58
27	Involvement of lipid rafts in the localization and dysfunction effect of the antitumor ether phospholipid edelfosine in mitochondria. Cell Death and Disease, 2011, 2, e158-e158.	2.7	56
28	The Use of Nanoparticles for Gene Therapy in the Nervous System. Journal of Alzheimer's Disease, 2012, 31, 697-710.	1.2	56
29	G Protein-coupled Receptor Kinase 2-mediated Phosphorylation of Downstream Regulatory Element Antagonist Modulator Regulates Membrane Trafficking of Kv4.2 Potassium Channel. Journal of Biological Chemistry, 2007, 282, 1205-1215.	1.6	55
30	Chromaffin cell death induced by 6-hydroxydopamine is independent of mitochondrial swelling and caspase activation. Journal of Neurochemistry, 2003, 84, 1066-1073.	2.1	52
31	[68] Hydroxyindole O-methyltransferase. Methods in Enzymology, 1987, 142, 590-596.	0.4	50
32	Efficient, Non-Toxic Hybrid PPV-PAMAM Dendrimer as a Gene Carrier for Neuronal Cells. Biomacromolecules, 2011, 12, 1205-1213.	2.6	47
33	Enhanced docetaxel-mediated cytotoxicity in human prostate cancer cells through knockdown of cofilin-1 by carbon nanohorn delivered siRNA. Biomaterials, 2012, 33, 8152-8159.	5.7	45
34	Cofilin activation mediates Bax translocation to mitochondria during excitotoxic neuronal death. Journal of Neurochemistry, 2012, 120, 515-527.	2.1	43
35	Inhibition of p42 MAPK using a nonviral vector-delivered siRNA potentiates the anti-tumor effect of metformin in prostate cancer cells. Nanomedicine, 2012, 7, 493-506.	1.7	42
36	Veratridine induces apoptotic death in bovine chromaffin cells through superoxide production. British Journal of Pharmacology, 2000, 130, 1496-1504.	2.7	41

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37	Role and regulation of p53 in depolarization-induced neuronal death. <i>Neuroscience</i> , 2003, 122, 707-715.	1.1	41
38	Increased NR2A expression and prolonged decay of NMDA-induced calcium transient in cerebellum of TgDyrk1A mice, a mouse model of Down syndrome. <i>Neurobiology of Disease</i> , 2008, 32, 377-384.	2.1	41
39	HIF-1 α is neuroprotective during the early phases of mild hypoxia in rat cortical neurons. <i>Experimental Neurology</i> , 2012, 233, 543-554.	2.0	41
40	The endoplasmic reticulum stress and the HIF-1 signalling pathways are involved in the neuronal damage caused by chemical hypoxia. <i>British Journal of Pharmacology</i> , 2015, 172, 2838-2851.	2.7	41
41	Effects of calcium and bay K-8644 on calcium currents in adrenal medullary chromaffin cells. <i>Journal of Membrane Biology</i> , 1989, 112, 255-265.	1.0	40
42	Gas1 Is Induced during and Participates in Excitotoxic Neuronal Death. <i>Molecular and Cellular Neurosciences</i> , 2002, 19, 417-429.	1.0	39
43	Superoxide anions mediate veratridine-induced cytochrome c release and caspase activity in bovine chromaffin cells. <i>British Journal of Pharmacology</i> , 2002, 137, 993-1000.	2.7	39
44	Dendrimer-mediated siRNA delivery knocks down Beclin 1 and potentiates NMDA-mediated toxicity in rat cortical neurons. <i>Journal of Neurochemistry</i> , 2012, 120, 259-268.	2.1	39
45	Evaluation of Amino-Functional Polyester Dendrimers Based on Bis-MPA as Nonviral Vectors for siRNA Delivery. <i>Molecules</i> , 2018, 23, 2028.	1.7	38
46	Dendrimers toward Translational Nanotherapeutics: Concise Key Step Analysis. <i>Bioconjugate Chemistry</i> , 2020, 31, 2060-2071.	1.8	38
47	Chromostatin receptors control calcium channel activity in adrenal chromaffin cells. <i>Journal of Biological Chemistry</i> , 1992, 267, 407-12.	1.6	38
48	Docetaxel-Loaded Nanoparticles Assembled from β -Cyclodextrin/Calixarene Giant Surfactants: Physicochemical Properties and Cytotoxic Effect in Prostate Cancer and Glioblastoma Cells. <i>Frontiers in Pharmacology</i> , 2017, 8, 249.	1.6	37
49	Bcl-xL Blocks a Mitochondrial Inner Membrane Channel and Prevents Ca ²⁺ Overload-Mediated Cell Death. <i>PLoS ONE</i> , 2011, 6, e20423.	1.1	37
50	Acetaminophen Induces Human Neuroblastoma Cell Death through NF κ B Activation. <i>PLoS ONE</i> , 2012, 7, e50160.	1.1	36
51	Dendrimer and polymeric nanoparticle aptamer bioconjugates as nonviral delivery systems: a new approach in medicine. <i>Drug Discovery Today</i> , 2020, 25, 1065-1073.	3.2	36
52	Acetaminophen potentiates staurosporine-induced death in a human neuroblastoma cell line. <i>British Journal of Pharmacology</i> , 2007, 150, 577-585.	2.7	35
53	Inhibition of the canonical Wnt pathway by high glucose can be reversed by parathyroid hormone-related protein in osteoblastic cells. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 1908-1916.	1.2	35
54	Chromostatin receptors control calcium channel activity in adrenal chromaffin cells. <i>Journal of Biological Chemistry</i> , 1992, 267, 407-412.	1.6	34

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55	Neutral high-generation phosphorus dendrimers inhibit macrophage-mediated inflammatory response in vitro and in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7660-E7669.	3.3	33
56	Exploration of biomedical dendrimer space based on in-vitro physicochemical parameters: key factor analysis (Part 1). Drug Discovery Today, 2019, 24, 1176-1183.	3.2	32
57	Second Generation Amphiphilic Poly-Lysine Dendrons Inhibit Glioblastoma Cell Proliferation without Toxicity for Neurons or Astrocytes. PLoS ONE, 2016, 11, e0165704.	1.1	32
58	Exploration of biomedical dendrimer space based on in-vivo physicochemical parameters: Key factor analysis (Part 2). Drug Discovery Today, 2019, 24, 1184-1192.	3.2	29
59	Engineered non-invasive functionalized dendrimer/dendron-entrapped/complexed gold nanoparticles as a novel class of theranostic (radio)pharmaceuticals in cancer therapy. Journal of Controlled Release, 2021, 332, 346-366.	4.8	29
60	The Delivery Challenge in Neurodegenerative Disorders: The Nanoparticles Role in Alzheimer's Disease Therapeutics and Diagnostics. Pharmaceutics, 2018, 10, 190.	2.0	28
61	Aminophosphine ligands as a privileged platform for development of antitumoral ruthenium(II) arene complexes. Dalton Transactions, 2017, 46, 16113-16125.	1.6	27
62	Tricyclic antidepressants block cholinergic nicotinic receptors and ATP secretion in bovine chromaffin cells. FEBS Letters, 1997, 418, 39-42.	1.3	25
63	Use of nanoparticles for glioblastoma treatment: a new approach. Nanomedicine, 2017, 12, 2533-2554.	1.7	25
64	Presence and axonal transport of cholinergic, but not adrenergic sites on a cat noradrenergic neurone. Journal of Physiology, 1982, 333, 595-618.	1.3	24
65	Knocking Down HMGB1 Using Dendrimer-Delivered siRNA Unveils Its Key Role in NMDA-Induced Autophagy in Rat Cortical Neurons. Pharmaceutical Research, 2013, 30, 2584-2595.	1.7	24
66	Role of Generation, Architecture, pH and Ionic Strength on Successful siRNA Delivery and Transfection by Hybrid PPV-PAMAM Dendrimers. Current Medicinal Chemistry, 2012, 19, 4929-4941.	1.2	24
67	Norepinephrine Stimulates Potassium Efflux from Pinealocytes: Evidence for Involvement of Biochemical AND-Gate Operated by Calcium and Adenosine 3',5'-Monophosphate*. Endocrinology, 1991, 128, 559-569.	1.1	23
68	In vivo therapeutic applications of phosphorus dendrimers: state of the art. Drug Discovery Today, 2021, 26, 677-689.	3.2	23
69	Synthesis, self-assembly and anticancer drug encapsulation and delivery properties of cyclodextrin-based giant amphiphiles. Carbohydrate Polymers, 2021, 252, 117135.	5.1	23
70	Effect of the dihydropyridine Bay K 8644 on the release of [³ H]-noradrenaline from the rat isolated vas deferens. British Journal of Pharmacology, 1985, 85, 691-696.	2.7	22
71	Catecholamine secretion induced by tetraethylammonium from cultured bovine adrenal chromaffin cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1177, 99-105.	1.9	22
72	Naloxone inhibits nicotine-induced receptor current and catecholamine secretion in bovine chromaffin cells. Brain Research, 2001, 903, 62-65.	1.1	22

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73	Peptides, proteins and nanotechnology: a promising synergy for breast cancer targeting and treatment. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1597-1613.	2.4	22
74	Pertussis toxin stimulation of catecholamine release from adrenal medullary chromaffin cells: Mechanism may be by direct activation of L-type and G-type calcium channels. <i>Journal of Membrane Biology</i> , 1991, 122, 23-31.	1.0	21
75	PPVâ€™PAMAM Hybrid Dendrimers: Self-Assembly and Stabilization of Gold Nanoparticles. <i>Macromolecules</i> , 2013, 46, 7316-7324.	2.2	21
76	Retinal S-antigen: immunocytochemical and immunochemical studies on distribution in animal photoreceptors and pineal organs. <i>Experimental Biology</i> , 1986, 45, 15-25.	0.1	21
77	Inhibition of adrenomedullary catecholamine release by propranolol isomers and clonidine involving mechanisms unrelated to adrenoceptors. <i>British Journal of Pharmacology</i> , 1987, 92, 795-801.	2.7	20
78	Dendrimers As Vectors for Genetic Material Delivery to the Nervous System. <i>Current Medicinal Chemistry</i> , 2012, 19, 5101-5108.	1.2	20
79	Assessment of doxorubicin delivery devices based on tailored bare polycaprolactone against glioblastoma. <i>International Journal of Pharmaceutics</i> , 2019, 558, 110-119.	2.6	19
80	Stressor-related impairment of synaptic transmission in hippocampal slices from Î±-synuclein knockout mice. <i>European Journal of Neuroscience</i> , 2004, 20, 3085-3091.	1.2	18
81	Adrenal medulla calcium channel population is not conserved in bovine chromaffin cells in culture. <i>Neuroscience</i> , 2004, 128, 99-109.	1.1	18
82	Unbinding forces and energies between a siRNA molecule and a dendrimer measured by force spectroscopy. <i>Nanoscale</i> , 2015, 7, 20267-20276.	2.8	18
83	Kinetic characteristics of calcium-dependent, cholinergic receptor controlled ATP secretion from adrenal medullary chromaffin cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1023, 213-222.	1.4	17
84	Molecular cloning and permanent expression in a neuroblastoma cell line of a fast inactivating potassium channel from bovine adrenal medulla. <i>FEBS Letters</i> , 1992, 308, 283-289.	1.3	17
85	Nanoparticle-mediated therapeutic compounds delivery to glioblastoma. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1541-1554.	2.4	16
86	Ouabain induces acetylcholine release from pure cholinergic synaptosomes independently of extracellular calcium concentration. <i>Neurochemical Research</i> , 1988, 13, 1035-1041.	1.6	15
87	Î±-Conotoxin GVIA blocks nicotine-induced catecholamine secretion by blocking the nicotinic receptor-activated inward currents in bovine chromaffin cells. <i>Neuroscience Letters</i> , 1995, 191, 59-62.	1.0	15
88	Î±-agatoxin IVA blocks nicotinic receptor channels in bovine chromaffin cells. <i>FEBS Letters</i> , 1995, 362, 15-18.	1.3	15
89	Acetylcholinesterase activity and molecular isoform distribution are altered after focal cerebral ischemia. <i>Molecular Brain Research</i> , 2003, 117, 240-244.	2.5	15
90	Catecholamine secretion, calcium levels and calcium influx in response to membrane depolarization in bovine chromaffin cells. <i>Neuroscience</i> , 1995, 68, 265-272.	1.1	14

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91	Cardiac glycosides stimulate phospholipase C activity in rat pinealocytes. <i>Biochemical and Biophysical Research Communications</i> , 1987, 142, 819-825.	1.0	13
92	Acetylcholinesterase activation in organotypic rat hippocampal slice cultures deprived of oxygen and glucose. <i>Neuroscience Letters</i> , 2003, 348, 123-125.	1.0	13
93	Molecular determinants for cyclo-oligosaccharide-based nanoparticle-mediated effective siRNA transfection. <i>Nanomedicine</i> , 2017, 12, 1607-1621.	1.7	13
94	Differential Neuroprotective Effects of 5'-Deoxy-5'-Methylthioadenosine. <i>PLoS ONE</i> , 2014, 9, e90671.	1.1	13
95	Release of noradrenaline from the ligated cat hypogastric nerve. <i>European Journal of Pharmacology</i> , 1980, 61, 183-186.	1.7	12
96	Uptake of [³ H]nicotine and [³ H]noradrenaline by cultured chromaffin cells. <i>British Journal of Pharmacology</i> , 1984, 81, 119-123.	2.7	12
97	Nanoparticle-Delivered HIV Peptides to Dendritic Cells a Promising Approach to Generate a Therapeutic Vaccine. <i>Pharmaceutics</i> , 2020, 12, 656.	2.0	12
98	Developmental study of ouabain inhibition of adrenergic induction of rat pineal serotonin N-acetyltransferase (EC 2.3.1.87). <i>Journal of Biological Chemistry</i> , 1987, 262, 14467-71.	1.6	10
99	Phenyl-guanidine derivatives as potential therapeutic agents for glioblastoma multiforme: catalytic syntheses, cytotoxic effects and DNA affinity. <i>RSC Advances</i> , 2016, 6, 8267-8276.	1.7	9
100	Synthesis, characterization, DNA interactions and antiproliferative activity on glioblastoma of iminopyridine platinum(II) chelate complexes. <i>Journal of Inorganic Biochemistry</i> , 2017, 168, 46-54.	1.5	9
101	Click Synthesis of Size- and Shape-Tunable Star Polymers with Functional Macrocyclic Cores for Synergistic DNA Complexation and Delivery. <i>Biomacromolecules</i> , 2020, 21, 5173-5188.	2.6	9
102	Cyclodextrin-Based Nanostructure Efficiently Delivers siRNA to Glioblastoma Cells Preferentially via Macropinocytosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9306.	1.8	9
103	Characteristics of Receptor-Operated and Membrane Potential-Dependent ATP Secretion from Adrenal Medullary Chromaffin Cells. <i>Annals of the New York Academy of Sciences</i> , 1990, 603, 311-322.	1.8	8
104	Atorvastatin Reduces High Glucose Toxicity in Rat Peritoneal Mesothelial Cells. <i>Peritoneal Dialysis International</i> , 2011, 31, 325-331.	1.1	8
105	Development of Microwave-Assisted Reactions for PAMAM Dendrimer Synthesis. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2331-2337.	1.2	8
106	Aliskiren Prevents the Toxic Effects of Peritoneal Dialysis Fluids during Chronic Dialysis in Rats. <i>PLoS ONE</i> , 2012, 7, e36268.	1.1	8
107	Characterization of the alpha-like Na ⁺ ,K ⁺ -ATPase which mediates ouabain inhibition of adrenergic induction of N-acetyltransferase (EC 2.3.1.87) activity: studies with isolated pinealocytes. <i>Molecular Pharmacology</i> , 1987, 32, 792-7.	1.0	8
108	Glutamate N-methyl-D-aspartate receptor blockade prevents induction of GAP-43 after focal ischemia in rats. <i>Neuroscience Letters</i> , 2001, 305, 87-90.	1.0	7

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109	Exploring the in vivo toxicity of nanoparticles. Canadian Journal of Chemistry, 2017, 95, 917-926.	0.6	6
110	Engineered Neutral Phosphorous Dendrimers Protect Mouse Cortical Neurons and Brain Organoids from Excitotoxic Death. International Journal of Molecular Sciences, 2022, 23, 4391.	1.8	6
111	Ion dependence of the release of noradrenaline by tetraethylammonium and 4-aminopyridine from cat splenic slices. British Journal of Pharmacology, 1985, 84, 299-308.	2.7	5
112	LRRK2 and Proteostasis in Parkinson's Disease. International Journal of Molecular Sciences, 2022, 23, 6808.	1.8	5
113	Orthograde and retrograde axonal transport of calmodulin in a cat noradrenergic neurone. British Journal of Pharmacology, 1984, 82, 143-149.	2.7	3
114	Extracellular Calcium Has Distinct Effects on Fast and Slow Components of the Depolarization-Induced Secretory Response from Chromaffin Cells. Journal of Neurochemistry, 2002, 67, 1056-1062.	2.1	3
115	Cholinergic modulation of status epilepticus in the rat barrel field region of primary somatosensory cortex. Experimental Neurology, 2005, 196, 120-125.	2.0	3
116	Effects of the cardiotonic drug ARL-115 on the release of noradrenaline from the cat atrium, the binding of 3H-ouabain to plasma membranes and the movements of calcium in mitochondria. Naunyn-Schmiedeberg's Archives of Pharmacology, 1982, 320, 255-259.	1.4	2
117	Presence of a noradrenaline uptake system on a ligated cat sympathetic nerve.. Journal of Physiology, 1986, 372, 351-362.	1.3	2
118	Mechanisms of action of Methylthioadenosine: pathways implicated in neuroprotection in models of Multiple Sclerosis and other neurological diseases. Journal of Translational Medicine, 2010, 8, .	1.8	0
119	Dendrimers as Vectors for Small Interfering RNA Transfection in the Nervous System. , 2013, , 134-147.		0
120	Stroke and Ischemic Insults. , 2004, , 527-535.		0