

# MarÃ-a Ãngeles ArÃ©valo

## List of Publications by Year in descending order

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78  
papers

4,748  
citations

136950

32  
h-index

102487

66  
g-index

81  
all docs

81  
docs citations

81  
times ranked

6151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,742 1,430	9.1	10
2	The neuroprotective actions of oestradiol and oestrogen receptors. Nature Reviews Neuroscience, 2015, 16, 17-29.	10.2	342
3	Actions of estrogens on glial cells: Implications for neuroprotection. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1106-1112.	2.4	166
4	Selective estrogen receptor modulators decrease the production of interleukin-6 and interferon- $\gamma$ -inducible protein-10 by astrocytes exposed to inflammatory challenge <i>in vitro</i> . Glia, 2010, 58, 93-102.	4.9	144
5	Neuroprotective actions of estradiol revisited. Trends in Endocrinology and Metabolism, 2011, 22, 467-473.	7.1	111
6	The insulin-like growth factor I system in the rat cerebellum: Developmental regulation and role in neuronal survival and differentiation. Journal of Neuroscience Research, 1994, 39, 117-126.	2.9	106
7	Sex differences in glia reactivity after cortical brain injury. Glia, 2015, 63, 1966-1981.	4.9	104
8	Selective estrogen receptor modulators as brain therapeutic agents. Journal of Molecular Endocrinology, 2011, 46, R1-R9.	2.5	89
9	Role of astrocytes in the neuroprotective actions of 17 $\beta$ -estradiol and selective estrogen receptor modulators. Molecular and Cellular Endocrinology, 2014, 389, 48-57.	3.2	89
10	Notch and NGF/p75NTR control dendrite morphology and the balance of excitatory/inhibitory synaptic input to hippocampal neurones through Neurogenin 3. Journal of Neurochemistry, 2006, 97, 1269-1278.	3.9	84
11	Selective Oestrogen Receptor Modulators Decrease the Inflammatory Response of Glial Cells. Journal of Neuroendocrinology, 2012, 24, 183-190.	2.6	84
12	17 $\beta$ -Oestradiol Anti-inflammatory Effects in Primary Astrocytes Require Oestrogen Receptor Mediated Neuroglobin Up-regulation. Journal of Neuroendocrinology, 2013, 25, 260-270.	2.6	84
13	Interactions of estradiol and insulin-like growth factor-I signalling in the nervous system. Progress in Brain Research, 2010, 181, 251-272.	1.4	83
14	Sex differences in the phagocytic and migratory activity of microglia and their impairment by palmitic acid. Glia, 2018, 66, 522-537.	4.9	83
15	17 $\beta$ -Estradiol "A New Modulator of Neuroglobin Levels in Neurons: Role in Neuroprotection against H <sub>2</sub> O <sub>2</sub> -Induced Toxicity. NeuroSignals, 2010, 18, 223-235.	0.9	71
16	NGF Controls Dendrite Development in Hippocampal Neurons by Binding to p75NTR and Modulating the Cellular Targets of Notch. Molecular Biology of the Cell, 2005, 16, 339-347.	2.1	68
17	$\beta$ -Amyloid <sub>25-35</sub> inhibits glutamate uptake in cultured neurons and astrocytes: modulation of uptake as a survival mechanism. Neurobiology of Disease, 2004, 15, 580-589.	4.4	67
18	G protein-coupled estrogen receptor is required for the neuritogenic mechanism of 17 $\beta$ -estradiol in developing hippocampal neurons. Molecular and Cellular Endocrinology, 2013, 372, 105-115.	3.2	66

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19	Role of astroglia in the neuroplastic and neuroprotective actions of estradiol. <i>European Journal of Neuroscience</i> , 2010, 32, 1995-2002.	2.6	65
20	Interaction of estrogen receptors with insulin-like growth factor-I and Wnt signaling in the nervous system. <i>Steroids</i> , 2010, 75, 565-569.	1.8	64
21	Neuroendocrinology of childbirth and mother-child attachment: The basis of an etiopathogenic model of perinatal neurobiological disorders. <i>Frontiers in Neuroendocrinology</i> , 2014, 35, 459-472.	5.2	64
22	Gonadal hormones and the control of reactive gliosis. <i>Hormones and Behavior</i> , 2013, 63, 216-221.	2.1	62
23	Activation of Casein Kinase II and Inhibition of Phosphatase and Tensin Homologue Deleted on Chromosome 10 Phosphatase by Nerve Growth Factor/p75 <sup>NTR</sup> Inhibit Glycogen Synthase Kinase-3 $\beta$ and Stimulate Axonal Growth. <i>Molecular Biology of the Cell</i> , 2006, 17, 3369-3377.	2.1	60
24	Role of estrogen receptor $\alpha$ in membrane-initiated signaling in neural cells: Interaction with IGF-1 receptor. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009, 114, 2-7.	2.5	60
25	Altered Balance of Glutamatergic/GABAergic Synaptic Input and Associated Changes in Dendrite Morphology after BDNF Expression in BDNF-Deficient Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 7189-7200.	3.6	59
26	Ucp2 Induced by Natural Birth Regulates Neuronal Differentiation of the Hippocampus and Related Adult Behavior. <i>PLoS ONE</i> , 2012, 7, e42911.	2.5	52
27	Tubulin assembly probed with antibodies to synthetic peptides. <i>Journal of Molecular Biology</i> , 1990, 214, 105-120.	4.2	49
28	Molecular mechanisms involved in the regulation of neuritogenesis by estradiol: Recent advances. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 131, 52-56.	2.5	45
29	Aging and sex: Impact on microglia phagocytosis. <i>Aging Cell</i> , 2020, 19, e13182.	6.7	45
30	Signaling mechanisms mediating the regulation of synaptic plasticity and memory by estradiol. <i>Hormones and Behavior</i> , 2015, 74, 19-27.	2.1	43
31	Notch signaling in astrocytes mediates their morphological response to an inflammatory challenge. <i>Cell Death Discovery</i> , 2019, 5, 85.	4.7	41
32	Identification of allergens responsible for canine cutaneous adverse food reactions to lamb, beef and cow's milk. <i>Veterinary Dermatology</i> , 2004, 15, 349-356.	1.2	39
33	Notch/Neurogenin 3 Signalling is Involved in the Neuritogenic Actions of Oestradiol in Developing Hippocampal Neurons. <i>Journal of Neuroendocrinology</i> , 2011, 23, 355-364.	2.6	34
34	Microglial and Astrocytic Function in Physiological and Pathological Conditions: Estrogenic Modulation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3219.	4.1	34
35	In vitro myelination by oligodendrocyte precursor cells transfected with the neurotrophin-3 gene. <i>Glia</i> , 2004, 47, 78-87.	4.9	32
36	Regulation of aromatase expression in the anterior amygdala of the developing mouse brain depends on ER $\alpha$ and sex chromosome complement. <i>Scientific Reports</i> , 2017, 7, 5320.	3.3	30

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37	The Synthetic Steroid Tibolone Decreases Reactive Gliosis and Neuronal Death in the Cerebral Cortex of Female Mice After a Stab Wound Injury. <i>Molecular Neurobiology</i> , 2018, 55, 8651-8667.	4.0	30
38	Amyloid $\beta$ serves as an NGF-like neurotrophic factor or acts as a NGF antagonist depending on its concentration. <i>Journal of Neurochemistry</i> , 2009, 111, 1425-1433.	3.9	29
39	Neurogenin 3 mediates sex chromosome effects on the generation of sex differences in hypothalamic neuronal development. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 188.	3.7	29
40	Oestradiol synthesized by female neurons generates sex differences in neuritogenesis. <i>Scientific Reports</i> , 2016, 6, 31891.	3.3	28
41	Neural-derived estradiol regulates brain plasticity. <i>Journal of Chemical Neuroanatomy</i> , 2018, 89, 53-59.	2.1	28
42	Neurogenin 3 cellular and subcellular localization in the developing and adult hippocampus. <i>Journal of Comparative Neurology</i> , 2010, 518, 1814-1824.	1.6	27
43	Formin1 Mediates the Induction of Dendritogenesis and Synaptogenesis by Neurogenin3 in Mouse Hippocampal Neurons. <i>PLoS ONE</i> , 2011, 6, e21825.	2.5	26
44	Involvement of protein kinase C and nitric oxide in the modulation by insulin-like growth factor-I of glutamate-induced GABA release in the cerebellum. <i>Neuroscience</i> , 1996, 70, 843-847.	2.3	25
45	Lipotoxic Effects of Palmitic Acid on Astrocytes Are Associated with Autophagy Impairment. <i>Molecular Neurobiology</i> , 2019, 56, 1665-1680.	4.0	25
46	Cerebellin 4, a synaptic protein, enhances inhibitory activity and resistance of neurons to amyloid- $\beta$ toxicity. <i>Neurobiology of Aging</i> , 2015, 36, 1057-1071.	3.1	24
47	NGF-activated protein tyrosine phosphatase 1B mediates the phosphorylation and degradation of I- $\beta$ -B $\pm$ coupled to NF- $\kappa$ B activation, thereby controlling dendrite morphology. <i>Molecular and Cellular Neurosciences</i> , 2010, 43, 384-393.	2.2	21
48	Increased aromatase expression in the hippocampus of spontaneously hypertensive rats: effects of estradiol administration. <i>Neuroscience</i> , 2011, 174, 151-159.	2.3	21
49	The synthetic steroid tibolone exerts sex-specific regulation of astrocyte phagocytosis under basal conditions and after an inflammatory challenge. <i>Journal of Neuroinflammation</i> , 2020, 17, 37.	7.2	21
50	The Contribution of Astrocyte Autophagy to Systemic Metabolism. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2479.	4.1	21
51	New C-nucleoside analogs by dehydration of 1-benzyl-4,5,6,7-tetrahydro-6,6-dimethyl-2-(d-galacto-pentitol-1-yl)-indol-4-one. <i>Carbohydrate Research</i> , 1983, 116, 255-262.	2.3	19
52	Synthesis and biological activity of photoactive derivatives of erythromycin. <i>Journal of Medicinal Chemistry</i> , 1989, 32, 2200-2204.	6.4	18
53	Dehydroepiandrosterone protects male and female hippocampal neurons and neuroblastoma cells from glucose deprivation. <i>Brain Research</i> , 2016, 1644, 176-182.	2.2	17
54	$\text{IGF-1}$ regulates astrocytic phagocytosis and inflammation through the p110 $\beta$ isoform of $\text{PI3K}$ in a sex-specific manner. <i>Glia</i> , 2022, 70, 1153-1169.	4.9	16

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55	An <i>in vitro</i> experimental model of neuroinflammation: the induction of interleukin-6 in murine astrocytes infected with Theiler's murine encephalomyelitis virus, and its inhibition by oestrogenic receptor modulators. <i>Immunology</i> , 2011, 133, 360-369.	4.4	14
56	Interaction of sex chromosome complement, gonadal hormones and neuronal steroid synthesis on the sexual differentiation of mammalian neurons. <i>Journal of Neurogenetics</i> , 2017, 31, 300-306.	1.4	14
57	High-fat diet alters stress behavior, inflammatory parameters and gut microbiota in Tg APP mice in a sex-specific manner. <i>Neurobiology of Disease</i> , 2021, 159, 105495.	4.4	14
58	Up-regulation of the Vascular Cell Adhesion Molecule-1 (VCAM-1) Induced By Theiler's Murine Encephalomyelitis Virus Infection of Murine Brain Astrocytes. <i>Cell Communication and Adhesion</i> , 2010, 17, 57-68.	1.0	13
59	Survivin prevents apoptosis by binding to caspase-3 in astrocytes infected with the BeAn strain of Theiler's murine encephalomyelitis virus. <i>Journal of NeuroVirology</i> , 2012, 18, 354-363.	2.1	12
60	Oestradiol Regulates $\beta$ -Catenin-Mediated Transcription in Neurons. <i>Journal of Neuroendocrinology</i> , 2012, 24, 191-194.	2.6	12
61	4-Chlorodiazepam is neuroprotective against amyloid-beta through the modulation of survivin and bax protein expression <i>in vitro</i> . <i>Brain Research</i> , 2016, 1632, 91-97.	2.2	12
62	Sexually Dimorphic Effect of Genistein on Hypothalamic Neuronal Differentiation <i>In Vitro</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 2465.	4.1	10
63	X-linked histone H3K27 demethylase Kdm6a regulates sexually dimorphic differentiation of hypothalamic neurons. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 7043-7060.	5.4	10
64	The role of the hydroxymethyl function on the biological activity of the antitumor antibiotic sparsomycin. <i>European Journal of Medicinal Chemistry</i> , 1989, 24, 503-510.	5.5	9
65	Estradiol-dependent axogenesis and Ngn3 expression are determined by XY sex chromosome complement in hypothalamic neurons. <i>Scientific Reports</i> , 2020, 10, 8223.	3.3	9
66	A CRM1-Mediated Nuclear Export Signal Is Essential for Cytoplasmic Localization of Neurogenin 3 in Neurons. <i>PLoS ONE</i> , 2013, 8, e55237.	2.5	8
67	Theiler's virus infection provokes the overexpression of genes coding for the chemokine I $\beta$ 10 (CXCL10) in SJL/J murine astrocytes, which can be inhibited by modulators of estrogen receptors. <i>Journal of NeuroVirology</i> , 2014, 20, 485-495.	2.1	8
68	Over-expression of GTP-binding proteins and GTPase activity in mouse astrocyte membranes in response to Theiler's murine encephalomyelitis virus infection. <i>Journal of Neurochemistry</i> , 2007, 104, 071108171001016-???	3.9	6
69	Estradiol Meets Notch Signaling in Developing Neurons. <i>Frontiers in Endocrinology</i> , 2011, 2, 21.	3.5	6
70	Upregulation of voltage-gated Ca <sup>2+</sup> channels in mouse astrocytes infected with Theiler's murine encephalomyelitis virus (TMEV). <i>Neuroscience</i> , 2013, 247, 309-318.	2.3	5
71	4-Chlorodiazepam modulates the development of primary hippocampal neurons in a sex-dependent manner. <i>Neuroscience Letters</i> , 2017, 639, 98-102.	2.1	3
72	Central Levodopa Influx and the Clinical Motor Response to Levodopa in Patients With Parkinson Disease Complicated With Motor Fluctuations and Dyskinesias. <i>Clinical Neuropharmacology</i> , 2009, 32, 321-325.	0.7	2

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73	Maternal stress alters the developmental program of embryonic hippocampal neurons growing in vitro. Psychoneuroendocrinology, 2013, 38, 455-459.	2.7	2
74	Estrogenic Regulation of Neuroprotective and Neuroinflammatory Mechanisms: Implications for Depression and Cognition. ISGE Series, 2019, , 27-41.	0.2	2
75	Therapeutic implications of brain steroidogenesis. Hormone Molecular Biology and Clinical Investigation, 2010, 1, 21-6.	0.7	1
76	Brain Aromatase and Neuroprotection in Mammals. , 2012, , 371-382.		0
77	Estrogenic Regulation of Glia and Neuroinflammation. , 2020, , 96-116.		0
78	Cover Image, Volume 70, Issue 6. Glia, 2022, 70, .	4.9	0