

Luis Garcia-Segura

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471
papers

24,687
citations

84
h-index

128
g-index

481
ext. papers

26,491
ext. citations

5
avg, IF

6.97
L-index

#	Paper	IF	Citations
471	The distribution and mechanism of action of ghrelin in the CNS demonstrates a novel hypothalamic circuit regulating energy homeostasis. <i>Neuron</i> , 2003 , 37, 649-61	13.9	1299
470	Neuroprotection by estradiol. <i>Progress in Neurobiology</i> , 2001 , 63, 29-60	10.9	778
469	Aromatase expression by astrocytes after brain injury: implications for local estrogen formation in brain repair. <i>Neuroscience</i> , 1999 , 89, 567-78	3.9	317
468	The neuroprotective actions of oestradiol and oestrogen receptors. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 17-29	13.5	267
467	Immunohistochemical mapping of calcium-binding protein immunoreactivity in the rat central nervous system. <i>Brain Research</i> , 1984 , 296, 75-86	3.7	264
466	Gonadal hormones as promoters of structural synaptic plasticity: cellular mechanisms. <i>Progress in Neurobiology</i> , 1994 , 44, 279-307	10.9	247
465	Steroid hormones and neurosteroids in normal and pathological aging of the nervous system. <i>Progress in Neurobiology</i> , 2003 , 71, 3-29	10.9	235
464	Brain aromatase is neuroprotective. <i>Journal of Neurobiology</i> , 2001 , 47, 318-29		231
463	Estradiol upregulates Bcl-2 expression in adult brain neurons. <i>NeuroReport</i> , 1998 , 9, 593-7	1.7	227
462	Astrocytic modulation of blood brain barrier: perspectives on Parkinson's disease. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 211	6.1	221
461	Gonadal hormones down-regulate reactive gliosis and astrocyte proliferation after a penetrating brain injury. <i>Brain Research</i> , 1993 , 628, 271-8	3.7	202
460	Glial expression of estrogen and androgen receptors after rat brain injury. <i>Journal of Comparative Neurology</i> , 2002 , 450, 256-71	3.4	197
459	Role of astroglia in estrogen regulation of synaptic plasticity and brain repair 1999 , 40, 574-584		192
458	Localization of estrogen receptor immunoreactivity in astrocytes of the adult rat brain. <i>Glia</i> , 1999 , 26, 260-267	9	189
457	Synaptic remodeling in the rat arcuate nucleus during the estrous cycle. <i>Neuroscience</i> , 1989 , 32, 663-7	3.9	187
456	Neuroactive steroids: state of the art and new perspectives. <i>Cellular and Molecular Life Sciences</i> , 2008 , 65, 777-97	10.3	185
455	Glia-neuron crosstalk in the neuroprotective mechanisms of sex steroid hormones. <i>Brain Research Reviews</i> , 2005 , 48, 273-86		175

454	Aromatase in the brain: not just for reproduction anymore. <i>Journal of Neuroendocrinology</i> , 2008 , 20, 705-712	3.8	164
453	Estradiol inhibits GSK3 and regulates interaction of estrogen receptors, GSK3, and beta-catenin in the hippocampus. <i>Molecular and Cellular Neurosciences</i> , 2004 , 25, 363-73	4.8	164
452	Neuroprotective effects of estradiol in the adult rat hippocampus: interaction with insulin-like growth factor-I signalling. <i>Journal of Neuroscience Research</i> , 1999 , 58, 815-22	4.4	160
451	Steroids and glial cell function. <i>Glia</i> , 2006 , 54, 485-98	9	159
450	Progesterone and its derivatives are neuroprotective agents in experimental diabetic neuropathy: a multimodal analysis. <i>Neuroscience</i> , 2007 , 144, 1293-304	3.9	157
449	Localization of insulin-like growth factor I (IGF-I)-like immunoreactivity in the developing and adult rat brain. <i>Brain Research</i> , 1991 , 560, 167-74	3.7	155
448	Prenatal stress causes alterations in the morphology of microglia and the inflammatory response of the hippocampus of adult female mice. <i>Journal of Neuroinflammation</i> , 2012 , 9, 71	10.1	149
447	Aromatase: a neuroprotective enzyme. <i>Progress in Neurobiology</i> , 2003 , 71, 31-41	10.9	149
446	Specific neurons in chick central nervous system stain with an antibody against chick intestinal vitamin D-dependent calcium-binding protein. <i>Brain Research</i> , 1981 , 222, 452-7	3.7	146
445	Neuroanatomical relationship between type 1 cannabinoid receptors and dopaminergic systems in the rat basal ganglia. <i>Neuroscience</i> , 2003 , 119, 309-18	3.9	145
444	Estradiol synthesis within the human brain. <i>Neuroscience</i> , 2011 , 191, 139-47	3.9	144
443	Interactions of estrogens and insulin-like growth factor-I in the brain: implications for neuroprotection. <i>Brain Research Reviews</i> , 2001 , 37, 320-34		144
442	Endocrine glia: roles of glial cells in the brain actions of steroid and thyroid hormones and in the regulation of hormone secretion. <i>Frontiers in Neuroendocrinology</i> , 1996 , 17, 180-211	8.9	144
441	Natural fluctuation and gonadal hormone regulation of astrocyte immunoreactivity in dentate gyrus. <i>Journal of Neurobiology</i> , 1993 , 24, 913-24		143
440	Reduced progesterone metabolites protect rat hippocampal neurones from kainic acid excitotoxicity in vivo. <i>Journal of Neuroendocrinology</i> , 2004 , 16, 58-63	3.8	141
439	Actions of estrogens on glial cells: Implications for neuroprotection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010 , 1800, 1106-12	4	140
438	Progesterone and its derivatives dihydroprogesterone and tetrahydroprogesterone reduce myelin fiber morphological abnormalities and myelin fiber loss in the sciatic nerve of aged rats. <i>Neurobiology of Aging</i> , 2003 , 24, 853-60	5.6	136
437	Testosterone decreases reactive astroglia and reactive microglia after brain injury in male rats: role of its metabolites, oestradiol and dihydrotestosterone. <i>European Journal of Neuroscience</i> , 2007 , 25, 3039-46	3.5	135

436	Contribution of estrogen receptors alpha and beta to the effects of estradiol in the brain. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008 , 108, 327-38	5.1	134
435	Dehydroepiandrosterone, pregnenolone and sex steroids down-regulate reactive astroglia in the male rat brain after a penetrating brain injury. <i>International Journal of Developmental Neuroscience</i> , 1999 , 17, 145-51	2.7	134
434	Synaptic remodelling in arcuate nucleus after injection of estradiol valerate in adult female rats. <i>Brain Research</i> , 1986 , 366, 131-6	3.7	134
433	Insulin-like growth factor I receptors and estrogen receptors colocalize in female rat brain. <i>Neuroscience</i> , 2000 , 99, 751-60	3.9	133
432	Selective estrogen receptor modulators decrease the production of interleukin-6 and interferon-gamma-inducible protein-10 by astrocytes exposed to inflammatory challenge in vitro. <i>Glia</i> , 2010 , 58, 93-102	9	132
431	Minireview: Role of glia in neuroendocrine function. <i>Endocrinology</i> , 2004 , 145, 1082-6	4.8	132
430	Gonadal hormone regulation of glial fibrillary acidic protein immunoreactivity and glial ultrastructure in the rat neuroendocrine hypothalamus. <i>Glia</i> , 1994 , 10, 59-69	9	126
429	Aromatase expression by reactive astroglia is neuroprotective. <i>Annals of the New York Academy of Sciences</i> , 2003 , 1007, 298-305	6.5	120
428	Estrogen receptor alpha forms estrogen-dependent multimolecular complexes with insulin-like growth factor receptor and phosphatidylinositol 3-kinase in the adult rat brain. <i>Molecular Brain Research</i> , 2003 , 112, 170-6		120
427	Gonadal hormone regulation of insulin-like growth factor-I-like immunoreactivity in hypothalamic astroglia of developing and adult rats. <i>Neuroendocrinology</i> , 1994 , 59, 528-38	5.6	119
426	Estrogen and microglia: A regulatory system that affects the brain. <i>Journal of Neurobiology</i> , 1999 , 40, 484-96		117
425	Aromatase expression in the human temporal cortex. <i>Neuroscience</i> , 2006 , 138, 389-401	3.9	116
424	Estrogen effects on the synaptology and neural membranes of the rat hypothalamic arcuate nucleus. <i>Biology of Reproduction</i> , 1990 , 42, 21-8	3.9	116
423	Prenatal stress increases the expression of proinflammatory cytokines and exacerbates the inflammatory response to LPS in the hippocampal formation of adult male mice. <i>Brain, Behavior, and Immunity</i> , 2013 , 28, 196-206	16.6	114
422	Reduced metabolites mediate neuroprotective effects of progesterone in the adult rat hippocampus. The synthetic progestin medroxyprogesterone acetate (Provera) is not neuroprotective. <i>Journal of Neurobiology</i> , 2006 , 66, 916-28		113
421	Increase in membrane cholesterol: a possible trigger for degradation of HMG CoA reductase and crystalloid endoplasmic reticulum in UT-1 cells. <i>Cell</i> , 1984 , 36, 835-45	56.2	112
420	Neuroactive steroids: focus on human brain. <i>Neuroscience</i> , 2011 , 191, 1-5	3.9	111
419	Interaction of insulin-like growth factor-I and estradiol signaling pathways on hypothalamic neuronal differentiation. <i>Neuroscience</i> , 1996 , 74, 531-9	3.9	111

418	An antagonist of estrogen receptors blocks the induction of adult neurogenesis by insulin-like growth factor-I in the dentate gyrus of adult female rat. <i>European Journal of Neuroscience</i> , 2003 , 18, 923-30	3.5	109
417	Estradiol prevents kainic acid-induced neuronal loss in the rat dentate gyrus. <i>NeuroReport</i> , 1998 , 9, 3075-9	3.7	106
416	Sex differences in the inflammatory response of primary astrocytes to lipopolysaccharide. <i>Biology of Sex Differences</i> , 2011 , 2, 7	9.3	105
415	Ligand for translocator protein reverses pathology in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2013 , 33, 8891-7	6.6	103
414	Estradiol prevents neural tau hyperphosphorylation characteristic of Alzheimer's disease. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1052, 210-24	6.5	102
413	Classical androgen receptors in non-classical sites in the brain. <i>Hormones and Behavior</i> , 2008 , 53, 753-64	3.7	101
412	Interactions of estrogen and insulin-like growth factor-I in the brain: molecular mechanisms and functional implications. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2002 , 83, 211-7	5.1	101
411	Estradiol induces plasticity of gabaergic synapses in the hypothalamus. <i>Neuroscience</i> , 1993 , 53, 395-401	3.9	100
410	Expression of insulin-like growth factor I by astrocytes in response to injury. <i>Brain Research</i> , 1992 , 592, 343-7	3.7	99
409	Selective estrogen receptor modulators protect hippocampal neurons from kainic acid excitotoxicity: differences with the effect of estradiol. <i>Journal of Neurobiology</i> , 2004 , 61, 209-21		98
408	Astrocytic shape and glial fibrillary acidic protein immunoreactivity are modified by estradiol in primary rat hypothalamic cultures. <i>Developmental Brain Research</i> , 1989 , 47, 298-302		98
407	Synergistic interaction of estradiol and insulin-like growth factor-I in the activation of PI3K/Akt signaling in the adult rat hypothalamus. <i>Molecular Brain Research</i> , 2002 , 107, 80-8		97
406	Comparison of plasma and cerebrospinal fluid levels of neuroactive steroids with their brain, spinal cord and peripheral nerve levels in male and female rats. <i>Psychoneuroendocrinology</i> , 2013 , 38, 2278-90	5	96
405	Selective estrogen receptor modulators decrease reactive astrogliosis in the injured brain: effects of aging and prolonged depletion of ovarian hormones. <i>Endocrinology</i> , 2009 , 150, 5010-5	4.8	96
404	Rapid stimulation of the PI3-kinase/Akt signalling pathway in developing midbrain neurones by oestrogen. <i>Journal of Neuroendocrinology</i> , 2002 , 14, 73-9	3.8	96
403	Early motherhood in rats is associated with a modification of hippocampal function. <i>Psychoneuroendocrinology</i> , 2007 , 32, 803-12	5	95
402	Brain aromatase expression after experimental stroke: topography and time course. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2005 , 96, 89-91	5.1	94
401	Levels and actions of progesterone and its metabolites in the nervous system during physiological and pathological conditions. <i>Progress in Neurobiology</i> , 2014 , 113, 56-69	10.9	93

400	Neuroprotective actions of estradiol revisited. <i>Trends in Endocrinology and Metabolism</i> , 2011 , 22, 467-738.8		93
399	Coenzyme Q induces nigral mitochondrial uncoupling and prevents dopamine cell loss in a primate model of Parkinson's disease. <i>Endocrinology</i> , 2003 , 144, 2757-60	4.8	93
398	Implication of the phosphatidylinositol-3 kinase/protein kinase B signaling pathway in the neuroprotective effect of estradiol in the striatum of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine mice. <i>Molecular Pharmacology</i> , 2006 , 69, 1492-8	4.3	92
397	Localization of the insulin-like growth factor I receptor in the cerebellum and hypothalamus of adult rats: an electron microscopic study. <i>Journal of Neurocytology</i> , 1997 , 26, 479-90		91
396	Cross-talk between estrogen receptors and insulin-like growth factor-I receptor in the brain: cellular and molecular mechanisms. <i>Frontiers in Neuroendocrinology</i> , 2006 , 27, 391-403	8.9	90
395	The distribution of glial fibrillary acidic protein in the adult rat brain is influenced by the neonatal levels of sex steroids. <i>Brain Research</i> , 1988 , 456, 357-63	3.7	90
394	Estradiol-induced redistribution of glial fibrillary acidic protein immunoreactivity in the rat brain. <i>Brain Research</i> , 1987 , 406, 348-51	3.7	87
393	Selective oestrogen receptor (ER) modulators reduce microglia reactivity in vivo after peripheral inflammation: potential role of microglial ERs. <i>Journal of Endocrinology</i> , 2008 , 198, 219-30	4.7	86
392	Sex differences in neuroactive steroid levels in the nervous system of diabetic and non-diabetic rats. <i>Hormones and Behavior</i> , 2010 , 57, 46-55	3.7	85
391	Peripheral nerves: a target for the action of neuroactive steroids. <i>Brain Research Reviews</i> , 2005 , 48, 328-38		85
390	Ro5-4864, a peripheral benzodiazepine receptor ligand, reduces reactive gliosis and protects hippocampal hilar neurons from kainic acid excitotoxicity. <i>Journal of Neuroscience Research</i> , 2005 , 80, 129-37	4.4	85
389	Role of astroglia and insulin-like growth factor-I in gonadal hormone-dependent synaptic plasticity. <i>Brain Research Bulletin</i> , 1997 , 44, 525-31	3.9	84
388	Trophic effects of estradiol on fetal rat hypothalamic neurons. <i>Neuroendocrinology</i> , 1992 , 56, 895-901	5.6	84
387	Insulin-like growth factor-I receptors and estrogen receptors interact in the promotion of neuronal survival and neuroprotection. <i>Journal of Neurocytology</i> , 2000 , 29, 425-37		82
386	Sex differences in glia reactivity after cortical brain injury. <i>Glia</i> , 2015 , 63, 1966-1981	9	81
385	Evaluation of neuroactive steroid levels by liquid chromatography-tandem mass spectrometry in central and peripheral nervous system: effect of diabetes. <i>Neurochemistry International</i> , 2008 , 52, 560-8	4.4	81
384	Early maternal deprivation in rats induces gender-dependent effects on developing hippocampal and cerebellar cells. <i>International Journal of Developmental Neuroscience</i> , 2009 , 27, 233-41	2.7	80
383	Novel cellular phenotypes and subcellular sites for androgen action in the forebrain. <i>Neuroscience</i> , 2006 , 138, 801-7	3.9	80

382	Steroidogenic acute regulatory protein in the rat brain: cellular distribution, developmental regulation and overexpression after injury. <i>European Journal of Neuroscience</i> , 2003 , 18, 1458-67	3.5	80
381	Synaptic remodeling in the arcuate nucleus during the estrous cycle is induced by estrogen and precedes the preovulatory gonadotropin surge. <i>Endocrinology</i> , 1996 , 137, 5576-80	4.8	80
380	Estradiol promotes cell shape changes and glial fibrillary acidic protein redistribution in hypothalamic astrocytes in vitro: a neuronal-mediated effect. <i>Glia</i> , 1992 , 6, 180-7	9	80
379	Regulation of astroglia by gonadal steroid hormones under physiological and pathological conditions. <i>Progress in Neurobiology</i> , 2016 , 144, 5-26	10.9	79
378	Age-related changes in neuroactive steroid levels in 3xTg-AD mice. <i>Neurobiology of Aging</i> , 2013 , 34, 1080-8	9.8	79
377	17 β -Estradiol anti-inflammatory effects in primary astrocytes require oestrogen receptor β -mediated neuroglobin up-regulation. <i>Journal of Neuroendocrinology</i> , 2013 , 25, 260-70	3.8	79
376	Aromatase distribution in the monkey temporal neocortex and hippocampus. <i>Brain Research</i> , 2008 , 1209, 115-27	3.7	79
375	Phosphatidylinositol 3-kinase and glycogen synthase kinase 3 regulate estrogen receptor-mediated transcription in neuronal cells. <i>Endocrinology</i> , 2006 , 147, 3027-39	4.8	79
374	Selective localization of calcium-binding protein in human brainstem, cerebellum and spinal cord. <i>Brain Research</i> , 1986 , 399, 310-6	3.7	77
373	Selective estrogen receptor modulators as brain therapeutic agents. <i>Journal of Molecular Endocrinology</i> , 2011 , 46, R1-9	4.5	76
372	Cross-talk between IGF-I and estradiol in the brain: focus on neuroprotection. <i>Neuroendocrinology</i> , 2006 , 84, 275-9	5.6	76
371	Estrogen-induced hypothalamic synaptic plasticity and pituitary sensitization in the control of the estrogen-induced gonadotrophin surge. <i>Reproductive Sciences</i> , 2007 , 14, 101-16	3	76
370	Selective oestrogen receptor modulators decrease the inflammatory response of glial cells. <i>Journal of Neuroendocrinology</i> , 2012 , 24, 183-90	3.8	75
369	Interactions of estradiol and insulin-like growth factor-I signalling in the nervous system: new advances. <i>Progress in Brain Research</i> , 2010 , 181, 251-72	2.9	75
368	Neuroprotective effects of a ligand of translocator protein-18 kDa (Ro5-4864) in experimental diabetic neuropathy. <i>Neuroscience</i> , 2009 , 164, 520-9	3.9	75
367	Seasonal activation and inactivation of song motor memories in wild canaries is not reflected in neuroanatomical changes of forebrain song areas. <i>Hormones and Behavior</i> , 2001 , 40, 160-8	3.7	75
366	Sex-dependent alterations in response to maternal deprivation in rats. <i>Psychoneuroendocrinology</i> , 2009 , 34 Suppl 1, S217-26	5	74
365	Interdependence of oestrogen and insulin-like growth factor-I in the brain: potential for analysing neuroprotective mechanisms. <i>Journal of Endocrinology</i> , 2005 , 185, 11-7	4.7	74

364	Ultrastructural analysis of crystalloid endoplasmic reticulum in UT-1 cells and its disappearance in response to cholesterol. <i>Journal of Cell Science</i> , 1983 , 63, 1-20	5.3	74
363	Effects of selective estrogen receptor modulators on allocentric working memory performance and on dendritic spines in medial prefrontal cortex pyramidal neurons of ovariectomized rats. <i>Hormones and Behavior</i> , 2012 , 61, 512-7	3.7	72
362	Long-term ovariectomy enhances anxiety and depressive-like behaviors in mice submitted to chronic unpredictable stress. <i>Hormones and Behavior</i> , 2010 , 58, 786-91	3.7	72
361	Adverse effects of 5 α -reductase inhibitors: What do we know, don't know, and need to know?. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2015 , 16, 177-98	10.5	71
360	Role of astrocytes in the neuroprotective actions of 17 β -Estradiol and selective estrogen receptor modulators. <i>Molecular and Cellular Endocrinology</i> , 2014 , 389, 48-57	4.4	71
359	Diabetes-induced myelin abnormalities are associated with an altered lipid pattern: protective effects of LXR activation. <i>Journal of Lipid Research</i> , 2012 , 53, 300-10	6.3	71
358	Androgen receptor immunoreactivity in forebrain axons and dendrites in the rat. <i>Endocrinology</i> , 2003 , 144, 3632-8	4.8	71
357	Neuroprotection by the steroids pregnenolone and dehydroepiandrosterone is mediated by the enzyme aromatase. <i>Journal of Neurobiology</i> , 2003 , 56, 398-406		71
356	Sexual differentiation of synaptic connectivity and neuronal plasma membrane in the arcuate nucleus of the rat hypothalamus. <i>Brain Research</i> , 1990 , 527, 116-22	3.7	70
355	Neuroactive steroids and peripheral neuropathy. <i>Brain Research Reviews</i> , 2008 , 57, 460-9		69
354	Gonadal steroids as promoters of neuro-glial plasticity. <i>Psychoneuroendocrinology</i> , 1994 , 19, 445-53	5	69
353	Neuroprotective actions of selective estrogen receptor modulators. <i>Psychoneuroendocrinology</i> , 2009 , 34 Suppl 1, S113-22	5	68
352	Gonadal hormones affect neuronal vulnerability to excitotoxin-induced degeneration. <i>Journal of Neurocytology</i> , 1999 , 28, 699-710		68
351	The role of estradiol and progesterone in phased synaptic remodelling of the rat arcuate nucleus. <i>Brain Research</i> , 1993 , 608, 38-44	3.7	68
350	Giant liposomes: a model system in which to obtain patch-clamp recordings of ionic channels. <i>Biochemistry</i> , 1990 , 29, 11215-22	3.2	68
349	Effect of short-and long-term gonadectomy on neuroactive steroid levels in the central and peripheral nervous system of male and female rats. <i>Journal of Neuroendocrinology</i> , 2010 , 22, 1137-47	3.8	67
348	Neuroactive steroids regulate astroglia morphology in hippocampal cultures from adult rats. <i>Glia</i> , 1995 , 14, 65-71	9	66
347	Developmental sex differences and effect of ovariectomy on the number of cortical pyramidal cell dendritic spines. <i>Brain Research</i> , 1990 , 515, 64-8	3.7	66

346	17β-Estradiol--a new modulator of neuroglobin levels in neurons: role in neuroprotection against H ₂ O ₂ -induced toxicity. <i>NeuroSignals</i> , 2010 , 18, 223-35	1.9	64
345	Differential effects of the neonatal and adult sex steroid environments on the organization and activation of hypothalamic growth hormone-releasing hormone and somatostatin neurons. <i>Endocrinology</i> , 1993 , 133, 2792-802	4.8	64
344	Levels and actions of neuroactive steroids in the nervous system under physiological and pathological conditions: Sex-specific features. <i>Neuroscience and Biobehavioral Reviews</i> , 2016 , 67, 25-40	9	63
343	Gender differences in the long-term effects of chronic prenatal stress on the HPA axis and hypothalamic structure in rats. <i>Psychoneuroendocrinology</i> , 2010 , 35, 1525-35	5	63
342	Insulin-like growth factor 1 reduces age-related disorders induced by prenatal stress in female rats. <i>Neurobiology of Aging</i> , 2006 , 27, 119-27	5.6	63
341	Neuroactive steroids influence peripheral myelination: a promising opportunity for preventing or treating age-dependent dysfunctions of peripheral nerves. <i>Progress in Neurobiology</i> , 2003 , 71, 57-66	10.9	62
340	Phasic synaptic remodeling of the rat arcuate nucleus during the estrous cycle depends on insulin-like growth factor-I receptor activation. <i>Journal of Neuroscience Research</i> , 1999 , 55, 286-92	4.4	62
339	Sex differences in Parkinson's disease: Features on clinical symptoms, treatment outcome, sexual hormones and genetics. <i>Frontiers in Neuroendocrinology</i> , 2018 , 50, 18-30	8.9	61
338	Interactions between neuroactive steroids and reelin haploinsufficiency in Purkinje cell survival. <i>Neurobiology of Disease</i> , 2009 , 36, 103-15	7.5	61
337	Steroidogenic acute regulatory protein in the brain. <i>Neuroscience</i> , 2006 , 138, 741-7	3.9	61
336	Astroglia play a key role in the neuroprotective actions of estrogen. <i>Progress in Brain Research</i> , 2001 , 132, 469-78	2.9	61
335	Estradiol activates beta-catenin dependent transcription in neurons. <i>PLoS ONE</i> , 2009 , 4, e5153	3.7	61
334	The role of glia in the hypothalamus: implications for gonadal steroid feedback and reproductive neuroendocrine output. <i>Reproduction</i> , 2008 , 135, 419-29	3.8	60
333	Blockade of cannabinoid CB(1) receptor function protects against in vivo disseminating brain damage following NMDA-induced excitotoxicity. <i>Journal of Neurochemistry</i> , 2002 , 82, 154-8	6	60
332	The cellular effects of estrogens on neuroendocrine tissues. <i>The Journal of Steroid Biochemistry</i> , 1988 , 30, 195-207		60
331	Localization of estrogen receptor beta-immunoreactivity in astrocytes of the adult rat brain. <i>Glia</i> , 1999 , 26, 260-7	9	60
330	Interaction of estrogen receptors with insulin-like growth factor-I and Wnt signaling in the nervous system. <i>Steroids</i> , 2010 , 75, 565-9	2.8	59
329	Sex differences, developmental changes, response to injury and cAMP regulation of the mRNA levels of steroidogenic acute regulatory protein, cytochrome p450 _{scc} , and aromatase in the olivocerebellar system. <i>Journal of Neurobiology</i> , 2006 , 66, 308-18		59

328	Estradiol and progesterone regulate the expression of insulin-like growth factor-I receptor and insulin-like growth factor binding protein-2 in the hypothalamus of adult female rats. <i>Journal of Neurobiology</i> , 2000 , 43, 269-81		59
327	Rapid effects of gonadal steroids upon hypothalamic neuronal membrane ultrastructure. <i>The Journal of Steroid Biochemistry</i> , 1987 , 27, 615-23		59
326	Role of astroglia in the neuroplastic and neuroprotective actions of estradiol. <i>European Journal of Neuroscience</i> , 2010 , 32, 1995-2002	3.5	58
325	Estrogen receptors and insulin-like growth factor-I receptors mediate estrogen-dependent synaptic plasticity. <i>NeuroReport</i> , 2000 , 11, 1735-8	1.7	58
324	G protein-coupled estrogen receptor is required for the neuritogenic mechanism of 17 β -estradiol in developing hippocampal neurons. <i>Molecular and Cellular Endocrinology</i> , 2013 , 372, 105-15	4.4	56
323	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	5.1	56
322	Neuroprotective and neurotoxic effects of estrogens. <i>Brain Research</i> , 2003 , 990, 20-7	3.7	56
321	Sexual dimorphism and sex steroid modulation of glial fibrillary acidic protein messenger RNA and immunoreactivity levels in the rat hypothalamus. <i>Neuroscience</i> , 1995 , 69, 519-32	3.9	55
320	Endocrine-dependent accumulation of IGF-I by hypothalamic glia. <i>NeuroReport</i> , 1996 , 8, 373-7	1.7	55
319	Antisense oligodeoxynucleotides for estrogen receptor-beta and alpha attenuate estradiol β modulation of affective and sexual behavior, respectively. <i>Neuropsychopharmacology</i> , 2008 , 33, 431-40	8.7	54
318	Sex hormones and brain aging. <i>Experimental Gerontology</i> , 2004 , 39, 1623-31	4.5	54
317	Estrogen induces synaptic plasticity in adult primate neurons. <i>Neuroendocrinology</i> , 1993 , 57, 935-9	5.6	54
316	Sex-specific therapeutic strategies based on neuroactive steroids: In search for innovative tools for neuroprotection. <i>Hormones and Behavior</i> , 2010 , 57, 2-11	3.7	53
315	Selective estrogen receptor modulators regulate reactive microglia after penetrating brain injury. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 132	5.3	52
314	Translocator protein 18 kDa is involved in the regulation of reactive gliosis. <i>Glia</i> , 2007 , 55, 1426-36	9	52
313	Testosterone derivatives are neuroprotective agents in experimental diabetic neuropathy. <i>Cellular and Molecular Life Sciences</i> , 2007 , 64, 1158-68	10.3	52
312	Insertion of Escherichia coli alpha-haemolysin in lipid bilayers as a non-transmembrane integral protein: prediction and experiment. <i>Molecular Microbiology</i> , 1999 , 31, 1013-24	4.1	52
311	Estrogen-induced synaptic remodelling in adult rat brain is accompanied by the reorganization of neuronal membranes. <i>Brain Research</i> , 1987 , 425, 57-64	3.7	52

310	Acute experimental autoimmune encephalomyelitis induces sex dimorphic changes in neuroactive steroid levels. <i>Neurochemistry International</i> , 2010 , 56, 118-27	4.4	51
309	Neuroactive steroids, neurosteroidogenesis and sex. <i>Progress in Neurobiology</i> , 2019 , 176, 1-17	10.9	50
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