Rachida Guennoun

List of Publications by Year
in descending order

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Version: 2024-02-01

94 papers	6,081 citations	53789 45 h-index	71682 76 g-index
96 all docs	96 docs citations	96 times ranked	3688 citing authors

#	Article	IF	Citations
1	Progesterone Synthesis and Myelin Formation by Schwann Cells. Science, 1995, 268, 1500-1503.	12.6	470
2	Revisiting the roles of progesterone and allopregnanolone in the nervous system: Resurgence of the progesterone receptors. Progress in Neurobiology, 2014, 113, 6-39.	5.7	289
3	Progesterone: Therapeutic opportunities for neuroprotection and myelin repair. , 2007, 116, 77-106.		221
4	A key enzyme in the biosynthesis of neurosteroids, 3Î²-hydroxysteroid dehydrogenase/Î”5-Î”4-isomerase (3Î²-HSD), is expressed in rat brain. Molecular Brain Research, 1995, 30, 287-300.	2.3	197
5	Local synthesis and dual actions of progesterone in the nervous system: neuroprotection and myelination. Growth Hormone and IGF Research, 2004, 14, 18-33.	1.1	190
6	Progesterone administration modulates AQP4 expression and edema after traumatic brain injury in male rats. Experimental Neurology, 2006, 198, 469-478.	4.1	190
7	Progesterone and allopregnanolone in the central nervous system: Response to injury and implication for neuroprotection. Journal of Steroid Biochemistry and Molecular Biology, 2015, 146, 48-61.	2.5	166
8	Steroid synthesis and metabolism in the nervous system: trophic and protective effects. Journal of Neurocytology, 2000, 29, 307-326.	1.5	164
9	Novel Perspectives for Progesterone in Hormone Replacement Therapy, with Special Reference to the Nervous System. Endocrine Reviews, 2007, 28, 387-439.	20.1	154
10	Progesterone neuroprotection in traumatic CNS injury and motoneuron degeneration. Frontiers in Neuroendocrinology, 2009, 30, 173-187.	5.2	139
11	Steroid Profiling in Brain and Plasma of Male and Pseudopregnant Female Rats after Traumatic Brain Injury: Analysis by Gas Chromatography/Mass Spectrometry. Endocrinology, 2007, 148, 2505-2517.	2.8	122
12	Progesterone synthesis and myelin formation in peripheral nerves. Brain Research Reviews, 2001, 37, 343-359.	9.0	120
13	Distribution of membrane progesterone receptor alpha in the male mouse and rat brain and its regulation after traumatic brain injury. Neuroscience, 2013, 231, 111-124.	2.3	118
14	Progesterone up-regulates neuronal brain-derived neurotrophic factor expression in the injured spinal cord. Neuroscience, 2004, 125, 605-614.	2.3	117
15	Progesterone Neuroprotection in the Wobbler Mouse, a Genetic Model of Spinal Cord Motor Neuron Disease. Neurobiology of Disease, 2002, 11, 457-468.	4.4	112
16	Progesterone Receptors: A Key for Neuroprotection in Experimental Stroke. Endocrinology, 2012, 153, 3747-3757.	2.8	111
17	Progesterone and the oligodendroglial lineage: Stageâ€dependent biosynthesis and metabolism. Glia, 2001, 36, 295-308.	4.9	110
18	Effects of injury and progesterone treatment on progesterone receptor and progesterone binding protein 25â€Dx expression in the rat spinal cord. Journal of Neurochemistry, 2003, 87, 902-913.	3.9	107

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19	Effect of Sex Differences on Brain Mitochondrial Function and Its Suppression by Ovariectomy and in Aged Mice. Endocrinology, 2015, 156, 2893-2904.	2.8	104
20	Effects of progesterone on oligodendrocyte progenitors, oligodendrocyte transcription factors, and myelin proteins following spinal cord injury. Glia, 2009, 57, 884-897.	4.9	101
21	Progesterone neuroprotection in spinal cord trauma involves up-regulation of brain-derived neurotrophic factor in motoneurons. Journal of Steroid Biochemistry and Molecular Biology, 2005, 94, 143-149.	2.5	93
22	Cellular Basis for Progesterone Neuroprotection in the Injured Spinal Cord. Journal of Neurotrauma, 2002, 19, 343-355.	3.4	92
23	The membrane-associated progesterone-binding protein 25-Dx is expressed in brain regions involved in water homeostasis and is up-regulated after traumatic brain injury. Journal of Neurochemistry, 2005, 93, 1314-1326.	3.9	92
24	Injury Elicited Increase in Spinal Cord Neurosteroid Content Analyzed by Gas Chromatography Mass Spectrometry. Endocrinology, 2006, 147, 1847-1859.	2.8	88
25	Progesterone attenuates astro- and microgliosis and enhances oligodendrocyte differentiation following spinal cord injury. Experimental Neurology, 2011, 231, 135-146.	4.1	88
26	Progesterone Treatment of Spinal Cord Injury: Effects on Receptors, Neurotrophins, and Myelination. Journal of Molecular Neuroscience, 2006, 28, 3-16.	2.3	84
27	Membrane progesterone receptors localization in the mouse spinal cord. Neuroscience, 2010, 166, 94-106.	2.3	83
28	Role of Sex Hormones on Brain Mitochondrial Function, with Special Reference to Aging and Neurodegenerative Diseases. Frontiers in Aging Neuroscience, 2017, 9, 406.	3.4	82
29	The membrane-associated progesterone-binding protein 25-Dx: Expression, cellular localization and up-regulation after brain and spinal cord injuries. Brain Research Reviews, 2008, 57, 493-505.	9.0	80
30	Basis of progesterone protection in spinal cord neurodegeneration. Journal of Steroid Biochemistry and Molecular Biology, 2002, 83, 199-209.	2.5	77
31	Progesterone neuroprotection: The background of clinical trial failure. Journal of Steroid Biochemistry and Molecular Biology, 2016, 160, 53-66.	2.5	77
32	Progesterone Increases the Expression of Myelin Basic Protein and the Number of Cells Showing NG₂Immunostaining in the Lesioned Spinal Cord. Journal of Neurotrauma, 2006, 23, 181-192.	3.4	71
33	Neurosteroids: Expression of Functional 3Î²â€Hydroxysteroid Dehydrogenase by Rat Sensory Neurons and Schwann Cells. European Journal of Neuroscience, 1997, 9, 2236-2247.	2.6	70
34	Progesterone modulates brain-derived neurotrophic factor and choline acetyltransferase in degenerating Wobbler motoneurons. Experimental Neurology, 2007, 203, 406-414.	4.1	67
35	Progesterone in the Brain: Hormone, Neurosteroid and Neuroprotectant. International Journal of Molecular Sciences, 2020, 21, 5271.	4.1	67
36	Genomic and membrane actions of progesterone: implications for reproductive physiology and behavior. Behavioural Brain Research, 1999, 105, 37-52.	2.2	65

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37	Immunocytochemical evidence for a progesterone receptor in neurons and glial cells of the rat spinal cord. Neuroscience Letters, 2000, 288, 29-32.	2.1	64
38	Synthesis of progesterone in Schwann cells: regulation by sensory neurons. European Journal of Neuroscience, 2001, 13, 916-924.	2.6	59
39	Ontogeny of D1 and DARPP-32 gene expression in the rat striatum: an in situ hybridization study. Molecular Brain Research, 1992, 12, 131-139.	2.3	58
40	Progesterone stimulates Krox-20 gene expression in Schwann cells. Molecular Brain Research, 2001, 90, 75-82.	2.3	57
41	3Î²-Hydroxysteroid dehydrogenase expression in rat spinal cord. Neuroscience, 2002, 113, 883-891.	2.3	57
42	A Role of Endogenous Progesterone in Stroke Cerebroprotection Revealed by the Neural-Specific Deletion of Its Intracellular Receptors. Journal of Neuroscience, 2017, 37, 10998-11020.	3.6	57
43	Developmental Expression of Genes Involved in Neurosteroidogenesis: 3Î²-Hydroxysteroid Dehydrogenase/Î”5-Î”4 Isomerase in the Rat Brain. Endocrinology, 2003, 144, 2902-2911.	2.8	54
44	D2 dopamine receptor gene expression in the rat striatum during ontogeny: an in situ hybridization study. Developmental Brain Research, 1991, 60, 79-87.	1.7	53
45	Sex differences in brain mitochondrial metabolism: influence of endogenous steroids and stroke. Journal of Neuroendocrinology, 2018, 30, e12497.	2.6	52
46	Progesterone Protective Effects in Neurodegeneration and Neuroinflammation. Journal of Neuroendocrinology, 2013, 25, 1095-1103.	2.6	47
47	Neurosteroidogenesis and progesterone antiâ€inflammatory/neuroprotective effects. Journal of Neuroendocrinology, 2018, 30, e12502.	2.6	47
48	Modulation of NADPH-diaphorase and glial fibrillary acidic protein by progesterone in astrocytes from normal and injured rat spinal cord. Journal of Steroid Biochemistry and Molecular Biology, 2000, 73, 159-169.	2.5	43
49	Progesterone restores retrograde labeling of cervical motoneurons in Wobbler mouse motoneuron disease. Experimental Neurology, 2005, 195, 518-523.	4.1	40
50	Neuroprotection by steroids after neurotrauma in organotypic spinal cord cultures: A key role for progesterone receptors and steroidal modulators of GABAA receptors. Neuropharmacology, 2013, 71, 46-55.	4.1	40
51	Steroid Effects on Glial Cells. Annals of the New York Academy of Sciences, 2003, 1007, 317-328.	3.8	39
52	Neurosteroids in the Hippocampus: Neuronal Plasticity and Memory. Stress, 1997, 2, 65-78.	1.8	37
53	Intranasal delivery of progesterone after transient ischemic stroke decreases mortality and provides neuroprotection. Neuropharmacology, 2015, 97, 394-403.	4.1	37
54	A functional progesterone receptor is required for immunomodulation, reduction of reactive gliosis and survival of oligodendrocyte precursors in the injured spinal cord. Journal of Steroid Biochemistry and Molecular Biology, 2015, 154, 274-284.	2.5	37

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55	Stage Dependent Effects of Progesterone on Motoneurons and Glial Cells of Wobbler Mouse Spinal Cord Degeneration. Cellular and Molecular Neurobiology, 2010, 30, 123-135.	3.3	35
56	Analytical challenges for measuring steroid responses to stress, neurodegeneration and injury in the central nervous system. Steroids, 2015, 103, 42-57.	1.8	35
57	Progesterone treatment reduces NADPH-diaphorase/nitric oxide synthase in Wobbler mouse motoneuron disease. Brain Research, 2004, 1014, 71-79.	2.2	29
58	Downregulation of steroidogenic acute regulatory protein (StAR) gene expression by cyclic AMP in cultured Schwann cells. Glia, 2004, 45, 213-228.	4.9	29
59	Progesterone Effects on Neuronal Ultrastructure and Expression of Microtubule-associated Protein 2 (MAP2) in Rats with Acute Spinal Cord Injury. Cellular and Molecular Neurobiology, 2009, 29, 27-39.	3.3	29
60	Progesterone reduces brain mitochondrial dysfunction after transient focal ischemia in male and female mice. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 562-568.	4.3	29
61	Steroids in Stroke with Special Reference to Progesterone. Cellular and Molecular Neurobiology, 2019, 39, 551-568.	3.3	29
62	Progesterone receptors in hypothalamus and pituitary during the embryonic development of the chick: regulation by sex steroid hormones. Developmental Brain Research, 1987, 37, 1-9.	1.7	28
63	Characterization and regulation of the 3Î²-hydroxysteroid dehydrogenase isomerase enzyme in the rat sciatic nerve. Journal of Neurochemistry, 2002, 84, 119-126.	3.9	28
64	Efficacy of the selective progesterone receptor agonist Nestorone for chronic experimental autoimmune encephalomyelitis. Journal of Neuroimmunology, 2014, 276, 89-97.	2.3	28
65	Intranasal administration of progesterone: A potential efficient route of delivery for cerebroprotection after acute brain injuries. Neuropharmacology, 2019, 145, 283-291.	4.1	28
66	Protective effects of the neurosteroid allopregnanolone in a mouse model of spontaneous motoneuron degeneration. Journal of Steroid Biochemistry and Molecular Biology, 2017, 174, 201-216.	2.5	27
67	The progesterone receptor agonist Nestorone holds back proinflammatory mediators and neuropathology in the wobbler mouse model of motoneuron degeneration. Neuroscience, 2015, 308, 51-63.	2.3	26
68	Cerebroprotection by progesterone following ischemic stroke: Multiple effects and role of the neural progesterone receptors. Journal of Steroid Biochemistry and Molecular Biology, 2019, 185, 90-102.	2.5	26
69	Progesterone effects on neuronal brain-derived neurotrophic factor and glial cells during progression of Wobbler mouse neurodegeneration. Neuroscience, 2012, 201, 267-279.	2.3	24
70	Steroid Profiling in Male Wobbler Mouse, a Model of Amyotrophic Lateral Sclerosis. Endocrinology, 2016, 157, 4446-4460.	2.8	23
71	3Î²-Hydroxysteroid dehydrogenase/5-ene-4-ene isomerase mRNA expression in rat brain: Effect of pseudopregnancy and traumatic brain injury. Journal of Steroid Biochemistry and Molecular Biology, 2007, 104, 293-300.	2.5	19
72	Insights into the Therapeutic Potential of Glucocorticoid Receptor Modulators for Neurodegenerative Diseases. International Journal of Molecular Sciences, 2020, 21, 2137.	4.1	16

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73	Therapeutic effects of progesterone in animal models of neurological disorders. CNS and Neurological Disorders - Drug Targets, 2013, 12, 1205-18.	1.4	16
74	Progesterone Attenuates Several Hippocampal Abnormalities of the Wobbler Mouse. Journal of Neuroendocrinology, 2013, 25, 235-243.	2.6	15
75	Therapeutic Effects of Progesterone in Animal Models of Neurological Disorders. CNS and Neurological Disorders - Drug Targets, 2013, 999, 9-10.	1.4	13
76	3 Beta-hydroxysteroid dehydrogenase isomerase (3Î²-HSD) activity in the rat sciatic nerve: kinetic analysis and regulation by steroids. Journal of Steroid Biochemistry and Molecular Biology, 2003, 85, 89-94.	2.5	12
77	Progesterone treatment modulates mRNA OF neurosteroidogenic enzymes in a murine model of multiple sclerosis. Journal of Steroid Biochemistry and Molecular Biology, 2017, 165, 421-429.	2.5	12
78	Expression of Steroidogenic Acute Regulatory Protein in Cultured Schwann Cells and Its Regulation by cAMP. Annals of the New York Academy of Sciences, 2002, 973, 83-87.	3.8	11
79	Progesterone and Allopregnanolone Neuroprotective Effects in the Wobbler Mouse Model of Amyotrophic Lateral Sclerosis. Cellular and Molecular Neurobiology, 2022, 42, 23-40.	3.3	11
80	Progesterone: Synthesis, Metabolism, Mechanism of Action, and Effects in the Nervous System. , 2017, , 215-244.		9
81	Estrogen-independent and estrogen-induced progesterone receptors, and their regulation by progestins in the hypothalamus and pituitary of the chick embryo: an immunohistochemical study. Developmental Brain Research, 1990, 55, 151-159.	1.7	8
82	Experimental and clinical evidence for the protective role of progesterone in motoneuron degeneration and neuroinflammation. Hormone Molecular Biology and Clinical Investigation, 2011, 7, 403-11.	0.7	7
83	Dose-dependent and long-term cerebroprotective effects of intranasal delivery of progesterone after ischemic stroke in male mice. Neuropharmacology, 2020, 170, 108038.	4.1	6
84	Sex differences in the cerebroprotection by Nestorone intranasal delivery following stroke in mice. Neuropharmacology, 2021, 198, 108760.	4.1	5
85	Neuroprotective Effects of Testosterone in Male Wobbler Mouse, a Model of Amyotrophic Lateral Sclerosis. Molecular Neurobiology, 2021, 58, 2088-2106.	4.0	4
86	Developmental expression of genes involved in progesterone synthesis, metabolism and action during the post-natal cerebellar myelination. Journal of Steroid Biochemistry and Molecular Biology, 2021, 207, 105820.	2.5	4
87	Progestins and antiprogestins: mechanisms of action, neuroprotection and myelination. , 2005, , 111-154.		2
88	Evidence of a functional aromatase system in the pituitary gland of the chick embryo in vitro. Journal of Endocrinology, 1988, 119, 229-NP.	2.6	1
89	Progesterone: Synthesis, Metabolism, Mechanisms of Action, and Effects in the Nervous System. An Overview. , 2009, , 1505-1561.		1
90	S.01.04 Progesterone synthesized in peripheral nerves promotes myelin repair and axonal regeneration. European Neuropsychopharmacology, 1997, 7, S80.	0.7	0

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91	S.24.03 Neuroactive steroids as enhancers of neuroregeneration. European Neuropsychopharmacology, 2008, 18, S191.	0.7	0
92	Sex Differences, Progesterone, and Ischemic Stroke. ISGE Series, 2019, , 209-231.	0.2	0
93	Sex steroids, neurosteroidogenesis, and inflammation in multiple sclerosis and related animal models. Current Opinion in Endocrine and Metabolic Research, 2021, 21, 100286.	1.4	0
94	Progestin action in the brain. Endocrine Abstracts, 0, , .	0.0	0