

Stefania Maccari

List of Publications by Year in descending order

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110
papers

11,745
citations

34076

52
h-index

30058

103
g-index

115
all docs

115
docs citations

115
times ranked

7411
citing authors

#	ARTICLE	IF	CITATIONS
1	Prenatal Stress Induces High Anxiety and Postnatal Handling Induces Low Anxiety in Adult Offspring: Correlation with Stress-Induced Corticosterone Secretion. <i>Journal of Neuroscience</i> , 1997, 17, 2626-2636.	1.7	702
2	Maternal Glucocorticoid Secretion Mediates Long-Term Effects of Prenatal Stress. <i>Journal of Neuroscience</i> , 1996, 16, 3943-3949.	1.7	572
3	Adoption reverses the long-term impairment in glucocorticoid feedback induced by prenatal stress. <i>Journal of Neuroscience</i> , 1995, 15, 110-116.	1.7	548
4	Corticosterone levels determine individual vulnerability to amphetamine self-administration.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 2088-2092.	3.3	506
5	Prenatal stress and long-term consequences: implications of glucocorticoid hormones. <i>Neuroscience and Biobehavioral Reviews</i> , 2003, 27, 119-127.	2.9	461
6	Prenatal Stress Increases the Hypothalamo-Pituitary-Adrenal Axis Response in Young and Adult Rats. <i>Journal of Neuroendocrinology</i> , 1994, 6, 341-345.	1.2	460
7	Epigenetic programming of the stress response in male and female rats by prenatal restraint stress. <i>Brain Research Reviews</i> , 2008, 57, 571-585.	9.1	358
8	Long-term effects of prenatal stress and postnatal handling on age-related glucocorticoid secretion and cognitive performance: a longitudinal study in the rat. <i>European Journal of Neuroscience</i> , 1999, 11, 2906-2916.	1.2	325
9	Maternal stress alters endocrine function of the feto-placental unit in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1526-E1533.	1.8	315
10	Environmental enrichment during adolescence reverses the effects of prenatal stress on play behaviour and HPA axis reactivity in rats. <i>European Journal of Neuroscience</i> , 2003, 18, 3367-3374.	1.2	312
11	Glucocorticoids have state-dependent stimulant effects on the mesencephalic dopaminergic transmission.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 8716-8720.	3.3	306
12	Prenatal Restraint Stress Generates Two Distinct Behavioral and Neurochemical Profiles in Male and Female Rats. <i>PLoS ONE</i> , 2008, 3, e2170.	1.1	296
13	The Consequences of Early Life Adversity: Neurobiological, Behavioural and Epigenetic Adaptations. <i>Journal of Neuroendocrinology</i> , 2014, 26, 707-723.	1.2	292
14	Corticosterone in the range of stress-induced levels possesses reinforcing properties: implications for sensation-seeking behaviors.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 11738-11742.	3.3	283
15	Increased locomotor response to novelty and propensity to intravenous amphetamine self-administration in adult offspring of stressed mothers. <i>Brain Research</i> , 1992, 586, 135-139.	1.1	265
16	Prenatal stress alters circadian activity of hypothalamo-pituitary-adrenal axis and hippocampal corticosteroid receptors in adult rats of both gender. , 1999, 40, 302-315.		261
17	Social stress increases the acquisition of cocaine self-administration in male and female rats. <i>Brain Research</i> , 1995, 698, 46-52.	1.1	260
18	Effects of prenatal restraint stress on the hypothalamus-pituitary-adrenal axis and related behavioural and neurobiological alterations. <i>Psychoneuroendocrinology</i> , 2007, 32, S10-S15.	1.3	258

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19	Prenatal stress induces intrauterine growth restriction and programmes glucose intolerance and feeding behaviour disturbances in the aged rat. <i>Journal of Endocrinology</i> , 2004, 181, 291-296.	1.2	234
20	PHYSIOLOGY OF SLEEP (REVIEW)“Interactions between stress and sleep: from basic research to clinical situations. <i>Sleep Medicine Reviews</i> , 2000, 4, 201-219.	3.8	231
21	Stress-induced sensitization to amphetamine and morphine psychomotor effects depend on stress-induced corticosterone secretion. <i>Brain Research</i> , 1992, 598, 343-348.	1.1	187
22	Prenatal stress in rats predicts immobility behavior in the forced swim test. <i>Brain Research</i> , 2003, 989, 246-251.	1.1	172
23	High Corticosterone Levels in Prenatally Stressed Rats Predict Persistent Paradoxical Sleep Alterations. <i>Journal of Neuroscience</i> , 1999, 19, 8656-8664.	1.7	154
24	Long-term effects of prenatal stress and handling on metabolic parameters: relationship to corticosterone secretion response. <i>Brain Research</i> , 1996, 712, 287-292.	1.1	138
25	Inhibition of corticosterone synthesis by Metyrapone decreases cocaine-induced locomotion and relapse of cocaine self-administration. <i>Brain Research</i> , 1994, 658, 259-264.	1.1	136
26	Early and Later Adoptions Have Different Long-Term Effects on Male Rat Offspring. <i>Journal of Neuroscience</i> , 1996, 16, 7783-7790.	1.7	134
27	Chronic agomelatine treatment corrects behavioral, cellular, and biochemical abnormalities induced by prenatal stress in rats. <i>Psychopharmacology</i> , 2011, 217, 301-313.	1.5	131
28	Suppression of glucocorticoid secretion and antipsychotic drugs have similar effects on the mesolimbic dopaminergic transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 15445-15450.	3.3	117
29	Repeated corticosterone administration sensitizes the locomotor response to amphetamine. <i>Brain Research</i> , 1992, 584, 309-313.	1.1	113
30	Early motherhood in rats is associated with a modification of hippocampal function. <i>Psychoneuroendocrinology</i> , 2007, 32, 803-812.	1.3	111
31	Prenatal Stress Enhances Stress- and Corticotropin-Releasing Factor-Induced Stimulation of Hippocampal Acetylcholine Release in Adult Rats. <i>Journal of Neuroscience</i> , 1998, 18, 1886-1892.	1.7	109
32	Neurochemical and Behavioral Alterations in Glucocorticoid Receptor-Impaired Transgenic Mice after Chronic Mild Stress. <i>Journal of Neuroscience</i> , 2004, 24, 2787-2796.	1.7	108
33	Anxiety-like behaviour and associated neurochemical and endocrinological alterations in male pups exposed to prenatal stress. <i>Psychoneuroendocrinology</i> , 2012, 37, 1646-1658.	1.3	108
34	Chronic treatment with imipramine reverses immobility behaviour, hippocampal corticosteroid receptors and cortical 5-HT1A receptor mRNA in prenatally stressed rats. <i>Neuropharmacology</i> , 2004, 47, 841-847.	2.0	107
35	Behavioral reactivity to novelty during youth as a predictive factor of stress-induced corticosterone secretion in the elderly“a life-span study in rats. <i>Psychoneuroendocrinology</i> , 1996, 21, 441-453.	1.3	106
36	Pharmacological Activation of Group-II Metabotropic Glutamate Receptors Corrects a Schizophrenia-Like Phenotype Induced by Prenatal Stress in Mice. <i>Neuropsychopharmacology</i> , 2012, 37, 929-938.	2.8	104

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37	The Effects of Antidepressant Treatment in Prenatally Stressed Rats Support the Glutamatergic Hypothesis of Stress-Related Disorders. <i>Journal of Neuroscience</i> , 2014, 34, 2015-2024.	1.7	92
38	Stress during gestation induces lasting effects on emotional reactivity of the dam rat. <i>Behavioural Brain Research</i> , 2004, 153, 211-216.	1.2	90
39	Prenatal stress induces a phase advance of circadian corticosterone rhythm in adult rats which is prevented by postnatal stress. <i>Brain Research</i> , 1997, 759, 317-320.	1.1	88
40	Long-term behavioural alterations in female rats after a single intense footshock followed by situational reminders. <i>Psychoneuroendocrinology</i> , 2005, 30, 316-324.	1.3	88
41	Anxiety-Like Behavior of Prenatally Stressed Rats Is Associated with a Selective Reduction of Glutamate Release in the Ventral Hippocampus. <i>Journal of Neuroscience</i> , 2012, 32, 17143-17154.	1.7	88
42	Long-term effects of prenatal stress: Changes in adult cardiovascular regulation and sensitivity to stress. <i>Neuroscience and Biobehavioral Reviews</i> , 2009, 33, 191-203.	2.9	85
43	Life events-induced decrease of corticosteroid type I receptors is associated with reduced corticosterone feedback and enhanced vulnerability to amphetamine self-administration. <i>Brain Research</i> , 1991, 547, 7-20.	1.1	84
44	Early-life experiences and the development of adult diseases with a focus on mental illness: The Human Birth Theory. <i>Neuroscience</i> , 2017, 342, 232-251.	1.1	73
45	Chronic agomelatine treatment corrects the abnormalities in the circadian rhythm of motor activity and sleep/wake cycle induced by prenatal restraint stress in adult rats. <i>International Journal of Neuropsychopharmacology</i> , 2013, 16, 323-338.	1.0	72
46	Prenatal stress has pro-inflammatory consequences on the immune system in adult rats. <i>Psychoneuroendocrinology</i> , 2007, 32, 114-124.	1.3	70
47	Melatonin or a melatonin agonist corrects age-related changes in circadian response to environmental stimulus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R1582-R1591.	0.9	65
48	Insulin-like growth factor 1 reduces age-related disorders induced by prenatal stress in female rats. <i>Neurobiology of Aging</i> , 2006, 27, 119-127.	1.5	65
49	Oxytocin receptor agonist reduces perinatal brain damage by targeting microglia. <i>Glia</i> , 2019, 67, 345-359.	2.5	65
50	Effects of a single footshock followed by situational reminders on HPA axis and behaviour in the aversive context in male and female rats. <i>Psychoneuroendocrinology</i> , 2006, 31, 92-99.	1.3	64
51	Prenatal stress alters Fos protein expression in hippocampus and locus coeruleus stress-related brain structures. <i>Psychoneuroendocrinology</i> , 2006, 31, 769-780.	1.3	64
52	Effects of acute and repeated exposure to stress on the hypothalamo-pituitary-adrenocortical activity in mice during postnatal development. <i>Hormones and Behavior</i> , 1992, 26, 474-485.	1.0	62
53	Hippocampal type I and type II corticosteroid receptors are modulated by central noradrenergic systems. <i>Psychoneuroendocrinology</i> , 1992, 17, 103-112.	1.3	60
54	Activation of presynaptic oxytocin receptors enhances glutamate release in the ventral hippocampus of prenatally restraint stressed rats. <i>Psychoneuroendocrinology</i> , 2015, 62, 36-46.	1.3	51

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55	Basal and stress-induced corticosterone secretion is decreased by lesion of mesencephalic dopaminergic neurons. <i>Brain Research</i> , 1993, 622, 311-314.	1.1	49
56	Prenatal stress affects behavioral reactivity to an intense stress in adult female rats. <i>Brain Research</i> , 2005, 1031, 67-73.	1.1	49
57	Hippocampal type I and type II corticosteroid receptor affinities are reduced in rats predisposed to develop amphetamine self-administration. <i>Brain Research</i> , 1991, 548, 305-309.	1.1	47
58	Proteomic characterization in the hippocampus of prenatally stressed rats. <i>Journal of Proteomics</i> , 2012, 75, 1764-1770.	1.2	47
59	Long term neurodevelopmental and behavioral effects of perinatal life events in rats. <i>Neurotoxicity Research</i> , 2001, 3, 65-83.	1.3	46
60	The mesolimbic dopaminergic system exerts an inhibitory influence on brain corticosteroid receptor affinities. <i>Neuroscience</i> , 1993, 55, 429-434.	1.1	42
61	Acetyl-L-carnatine reduces the age-dependent loss of glucocorticoid receptors in the rat hippocampus: An autoradiographic study. <i>Journal of Neuroscience Research</i> , 1989, 23, 462-466.	1.3	41
62	Influence of 6-OHDA lesion of central noradrenergic systems on corticosteroid receptors and neuroendocrine responses to stress. <i>Brain Research</i> , 1990, 533, 60-65.	1.1	41
63	Early and Later Adoptions Differently Modify Mother-Pup Interactions.. <i>Behavioral Neuroscience</i> , 2004, 118, 590-596.	0.6	40
64	Antenatal glucocorticoids blunt the functioning of the hypothalamic-pituitary-adrenal axis of neonates and disturb some behaviors in juveniles. <i>Neuroscience</i> , 2005, 133, 221-230.	1.1	40
65	Evidence for an imbalance between tau O-GlcNAcylation and phosphorylation in the hippocampus of a mouse model of Alzheimer's disease. <i>Pharmacological Research</i> , 2016, 105, 186-197.	3.1	39
66	Individual vulnerability to substance abuse and affective disorders: Role of early environmental influences. <i>Neurotoxicity Research</i> , 2002, 4, 281-296.	1.3	38
67	Maternal Exposure to Low Levels of Corticosterone during Lactation Protects the Adult Offspring against Ischemic Brain Damage. <i>Journal of Neuroscience</i> , 2007, 27, 7041-7046.	1.7	37
68	Prenatal stress alters the negative correlation between neuronal activation in limbic regions and behavioral responses in rats exposed to high and low anxiogenic environments. <i>Psychoneuroendocrinology</i> , 2007, 32, 765-776.	1.3	37
69	Corticotropin-Releasing Factor Administered Centrally, but Not Peripherally, Stimulates Hippocampal Acetylcholine Release. <i>Journal of Neurochemistry</i> , 1998, 71, 622-629.	2.1	32
70	Noradrenergic regulation of type-I and type-II corticosteroid receptors in amygdala and hypothalamus. <i>Brain Research</i> , 1992, 587, 313-318.	1.1	31
71	Hypo-response of the hypothalamic-pituitary-adrenocortical axis after an ethanol challenge in prenatally stressed adolescent male rats. <i>European Journal of Neuroscience</i> , 2006, 24, 1193-1200.	1.2	30
72	Impact of an intense stress on ethanol consumption in female rats characterized by their pre-stress preference: Modulation by prenatal stress. <i>Brain Research</i> , 2007, 1131, 181-186.	1.1	30

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73	Hedonic sensitivity to natural rewards is affected by prenatal stress in a sex-dependent manner. <i>Addiction Biology</i> , 2016, 21, 1072-1085.	1.4	29
74	Opposite effects on hippocampal corticosteroid receptors induced by stimulation of $\hat{1}^2$ and $\hat{1}\pm 1$ noradrenergic receptors. <i>Neuroscience</i> , 1995, 66, 539-545.	1.1	28
75	Cocaine-induced Increase in Cortical Acetylcholine Release: Interaction with the Hypothalamo-Pituitary-Adrenal Axis. <i>European Journal of Neuroscience</i> , 1997, 9, 1130-1136.	1.2	28
76	Impact of an acute exposure to ethanol on the oxidative stress status in the hippocampus of prenatal restraint stress adolescent male rats. <i>Brain Research</i> , 2008, 1191, 55-62.	1.1	28
77	Impact of early life stress on alcohol consumption and on the short- and long-term responses to alcohol in adolescent female rats. <i>Behavioural Brain Research</i> , 2011, 221, 43-49.	1.2	26
78	Effect of prenatal stress on alcohol preference and sensitivity to chronic alcohol exposure in male rats. <i>Psychopharmacology</i> , 2011, 214, 197-208.	1.5	24
79	Reduced maternal behavior caused by gestational stress is predictive of life span changes in risk-taking behavior and gene expression due to altering of the stress/anti-stress balance. <i>NeuroToxicology</i> , 2018, 66, 138-149.	1.4	21
80	Prenatal stress exacerbates the impact of an aversive procedure on the corticosterone response to stress in female rats. <i>Psychoneuroendocrinology</i> , 2009, 34, 786-790.	1.3	20
81	Ethanol Attenuates Spatial Memory Deficits and Increases mGlu1a Receptor Expression in the Hippocampus of Rats Exposed to Prenatal Stress. <i>Alcoholism: Clinical and Experimental Research</i> , 2009, 33, 1346-1354.	1.4	20
82	Individual differences in the effects of chronic prazosin hydrochloride treatment on hippocampal mineralocorticoid and glucocorticoid receptors. <i>European Journal of Neuroscience</i> , 2007, 25, 3312-3318.	1.2	19
83	The reduction in glutamate release is predictive of cognitive and emotional alterations that are corrected by the positive modulator of AMPA receptors S 47445 in perinatal stressed rats. <i>Neuropharmacology</i> , 2018, 135, 284-296.	2.0	18
84	Effect of hindlimb unloading on motor activity in adult rats: Impact of prenatal stress.. <i>Behavioral Neuroscience</i> , 2007, 121, 177-185.	0.6	14
85	Consequences of a double hit of stress during the perinatal period and midlife in female rats: Mismatch or cumulative effect?. <i>Psychoneuroendocrinology</i> , 2018, 93, 45-55.	1.3	14
86	Hippocampal type I and TYPE II corticosteroid receptors are differentially regulated by chronic prazosin treatment. <i>Neuroscience</i> , 1996, 73, 963-970.	1.1	12
87	Prenatal stress alters circadian activity of hypothalamo-pituitary-adrenal axis and hippocampal corticosteroid receptors in adult rats of both gender. <i>Journal of Neurobiology</i> , 1999, 40, 302-315.	3.7	12
88	The D1 dopamine agonist SKF 38393, but not the D2 agonist LY 171555, decreases the affinity of type II corticosteroid receptors in rat hippocampus and ventral striatum. <i>Neuroscience</i> , 1994, 60, 939-943.	1.1	11
89	Reduced activity of hippocampal group-I metabotropic glutamate receptors in learning-prone rats. <i>Neuroscience</i> , 2003, 122, 277-284.	1.1	11
90	Sleep in Prenatally Restraint Stressed Rats, a Model of Mixed Anxiety-Depressive Disorder. <i>Advances in Neurobiology</i> , 2015, 10, 27-44.	1.3	11

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91	Glutamatergic postsynaptic density in early life stress programming: Topographic gene expression of mGlu5 receptors and Homer proteins. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 96, 109725.	2.5	11
92	Early Life Stress Causes Refractoriness to Haloperidol-Induced Catalepsy. <i>Molecular Pharmacology</i> , 2013, 84, 244-251.	1.0	9
93	Perinatal Stress Programs Sex Differences in the Behavioral and Molecular Chronobiological Profile of Rats Maintained Under a 12-h Light-Dark Cycle. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 89.	1.4	9
94	Strain-dependent differences in hippocampal glucocorticoid binding capacity and active avoidance in the mouse. <i>Behavioural Brain Research</i> , 1990, 37, 185-188.	1.2	8
95	A Self-Medication Hypothesis for Increased Vulnerability to Drug Abuse in Prenatally Restraint Stressed Rats. <i>Advances in Neurobiology</i> , 2015, 10, 101-120.	1.3	8
96	Developmental abnormalities in cortical GABAergic system in mice lacking mGlu3 metabotropic glutamate receptors. <i>FASEB Journal</i> , 2019, 33, 14204-14220.	0.2	5
97	Maternal stress programs a demasculinization of glutamatergic transmission in stress-related brain regions of aged rats. <i>GeroScience</i> , 2022, 44, 1047-1069.	2.1	5
98	Resource competition shapes biological rhythms and promotes temporal niche differentiation in a community simulation. <i>Ecology and Evolution</i> , 2020, 10, 11322-11334.	0.8	4
99	Maternal stress programs accelerated aging of the basal ganglia motor system in offspring. <i>Neurobiology of Stress</i> , 2020, 13, 100265.	1.9	3
100	Hippocampal serotonin in the regulation of the hypothalamo-pituitary-adrenocortical axis (HPAA) stress response. <i>Pharmacological Research Communications</i> , 1988, 20, 429-430.	0.2	1
101	Behavioural and Neuroendocrine Consequences of Prenatal Stress in Rat. , 2013, , 175-193.		1
102	Developmental up-regulation of NMDA receptors in the prefrontal cortex and hippocampus of mGlu5 receptor knock-out mice. <i>Molecular Brain</i> , 2021, 14, 77.	1.3	1
103	Hormones corticostéroïdiennes et cerveau. <i>Société De Biologie Journal</i> , 1999, 193, 275-283.	0.3	0
104	P46 VALIDITY OF PRENATAL STRESS IN THE RAT AS AN ANIMAL MODEL OF DEPRESSION. <i>Behavioural Pharmacology</i> , 2004, 15, A22.	0.8	0
105	Introduction. <i>Psychoneuroendocrinology</i> , 2007, 32, S1-S2.	1.3	0
106	P.2.d.008 Agomelatine counteracts alteration in circadian rhythms observed in old hamsters. <i>European Neuropsychopharmacology</i> , 2008, 18, S349-S350.	0.3	0
107	Perinatal Influences on Behavior and Neuroendocrine Functions. , 2010, , 35-39.		0
108	Agomelatine: Protecting the CNS from the Effects of Stress. <i>CNS Neuroscience and Therapeutics</i> , 2011, 17, 269-270.	1.9	0

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109	Lactobacillus Reuteri DSM 17938 and Bifidobacterium Longum ATCC BAA-999 Normalize Sleep Patterns in Prenatal Stress Rats. Pediatric Research, 2011, 70, 797-797.	1.1	0
110	Early life stress affects glutamatergic postsynaptic density genes: implications for novel treatment targets. European Neuropsychopharmacology, 2017, 27, S758-S759.	0.3	0