

# Simone MacrÃ

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

3,646  
citations

136885

32  
h-index

133188

59  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk-taking behavior in adolescent mice: psychobiological determinants and early epigenetic influence. <i>Neuroscience and Biobehavioral Reviews</i> , 2003, 27, 19-31.	2.9	531
2	Effects of enriched environment on animal models of neurodegenerative diseases and psychiatric disorders. <i>Neurobiology of Disease</i> , 2008, 31, 159-168.	2.1	265
3	Developmental plasticity of HPA and fear responses in rats: A critical review of the maternal mediation hypothesis. <i>Hormones and Behavior</i> , 2006, 50, 667-680.	1.0	220
4	Dissociation in the effects of neonatal maternal separations on maternal care and the offspring's HPA and fear responses in rats. <i>European Journal of Neuroscience</i> , 2004, 20, 1017-1024.	1.2	215
5	Peculiar Vulnerability to Nicotine Oral Self-administration in Mice during Early Adolescence. <i>Neuropsychopharmacology</i> , 2002, 27, 212-224.	2.8	187
6	Behavioral and Neurochemical Vulnerability During Adolescence in Mice: Studies with Nicotine. <i>Neuropsychopharmacology</i> , 2004, 29, 869-878.	2.8	133
7	Critical Age Windows for Neurodevelopmental Psychiatric Disorders: Evidence from Animal Models. <i>Neurotoxicity Research</i> , 2011, 19, 286-307.	1.3	123
8	Early-stress regulates resilience, vulnerability and experimental validity in laboratory rodents through mother's offspring hormonal transfer. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 1534-1543.	2.9	107
9	Maternal separation and maternal care act independently on the development of HPA responses in male rats. <i>Behavioural Brain Research</i> , 2008, 191, 227-234.	1.2	96
10	Zebrafish responds differentially to a robotic fish of varying aspect ratio, tail beat frequency, noise, and color. <i>Behavioural Brain Research</i> , 2012, 233, 545-553.	1.2	78
11	A Robotics-Based Behavioral Paradigm to Measure Anxiety-Related Responses in Zebrafish. <i>PLoS ONE</i> , 2013, 8, e69661.	1.1	75
12	Single episode of maternal deprivation and adult depressive profile in mice: interaction with cannabinoid exposure during adolescence. <i>Behavioural Brain Research</i> , 2004, 154, 231-238.	1.2	73
13	Live Predators, Robots, and Computer-Animated Images Elicit Differential Avoidance Responses in Zebrafish. <i>Zebrafish</i> , 2015, 12, 205-214.	0.5	65
14	Acute caffeine administration affects zebrafish response to a robotic stimulus. <i>Behavioural Brain Research</i> , 2015, 289, 48-54.	1.2	64
15	Recovering from depression with repetitive transcranial magnetic stimulation (rTMS): a systematic review and meta-analysis of preclinical studies. <i>Translational Psychiatry</i> , 2020, 10, 393.	2.4	61
16	Neurobehavioural disorders in the infant reeler mouse model: Interaction of genetic vulnerability and consequences of maternal separation. <i>Behavioural Brain Research</i> , 2007, 177, 142-149.	1.2	59
17	Resilience and vulnerability are dose-dependently related to neonatal stressors in mice. <i>Hormones and Behavior</i> , 2009, 56, 391-398.	1.0	59
18	Insulin Receptor $\beta$ -Subunit Haploinsufficiency Impairs Hippocampal Late-Phase LTP and Recognition Memory. <i>NeuroMolecular Medicine</i> , 2012, 14, 262-269.	1.8	58

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19	Acute ethanol administration affects zebrafish preference for a biologically inspired robot. <i>Alcohol</i> , 2013, 47, 391-398.	0.8	57
20	Perseverative responding and neuroanatomical alterations in adult heterozygous reeler mice are mitigated by neonatal estrogen administration. <i>Psychoneuroendocrinology</i> , 2010, 35, 1374-1387.	1.3	56
21	Moderate Neonatal Stress Decreases Within-Group Variation in Behavioral, Immune and HPA Responses in Adult Mice. <i>PLoS ONE</i> , 2007, 2, e1015.	1.1	53
22	Abnormal behavioral and neurotrophic development in the younger sibling receiving less maternal care in a communal nursing paradigm in rats. <i>Psychoneuroendocrinology</i> , 2010, 35, 392-402.	1.3	52
23	Sociality Modulates the Effects of Ethanol in Zebra Fish. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 2096-2104.	1.4	47
24	Zebrafish response to 3D printed shoals of conspecifics: the effect of body size. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 026003.	1.5	47
25	Sialylated human milk oligosaccharides program cognitive development through a non-genomic transmission mode. <i>Molecular Psychiatry</i> , 2021, 26, 2854-2871.	4.1	47
26	Enhanced brain activity associated with memory access in highly superior autobiographical memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7795-7800.	3.3	46
27	Effects of variation in postnatal maternal environment on maternal behaviour and fear and stress responses in rats. <i>Animal Behaviour</i> , 2007, 73, 171-184.	0.8	45
28	Collective behaviour across animal species. <i>Scientific Reports</i> , 2014, 4, 3723.	1.6	42
29	Three-dimensional scoring of zebrafish behavior unveils biological phenomena hidden by two-dimensional analyses. <i>Scientific Reports</i> , 2017, 7, 1962.	1.6	42
30	Intranasal oxytocin administration promotes emotional contagion and reduces aggression in a mouse model of callousness. <i>Neuropharmacology</i> , 2018, 143, 250-267.	2.0	42
31	Low empathy-like behaviour in male mice associates with impaired sociability, emotional memory, physiological stress reactivity and variations in neurobiological regulations. <i>PLoS ONE</i> , 2017, 12, e0188907.	1.1	38
32	Early adversity and alcohol availability persistently modify serotonin and hypothalamic-pituitary-adrenal-axis metabolism and related behavior: What experimental research on rodents and primates can tell us. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 172-180.	2.9	32
33	Zebrafish Adjust Their Behavior in Response to an Interactive Robotic Predator. <i>Frontiers in Robotics and AI</i> , 2019, 6, 38.	2.0	32
34	Neonatal tryptophan depletion and corticosterone supplementation modify emotional responses in adult male mice. <i>Psychoneuroendocrinology</i> , 2013, 38, 24-39.	1.3	29
35	Restricted daily access to water and voluntary nicotine oral consumption in mice: methodological issues and individual differences. <i>Behavioural Brain Research</i> , 2002, 134, 21-30.	1.2	26
36	The Directive 2010/63/EU on animal experimentation may skew the conclusions of pharmacological and behavioural studies. <i>Scientific Reports</i> , 2013, 3, 2380.	1.6	26

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37	Mice repeatedly exposed to Group-A $\beta$ -Haemolytic Streptococcus show perseverative behaviors, impaired sensorimotor gating and immune activation in rostral diencephalon. <i>Scientific Reports</i> , 2015, 5, 13257.	1.6	25
38	Animal Models Recapitulating the Multifactorial Origin of Tourette Syndrome. <i>International Review of Neurobiology</i> , 2013, 112, 211-237.	0.9	24
39	Theoretical and practical considerations behind the use of laboratory animals for the study of Tourette syndrome. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 1085-1100.	2.9	24
40	Interaction Between the Endocannabinoid and Serotonergic System in the Exhibition of Head Twitch Response in Four Mouse Strains. <i>Neurotoxicity Research</i> , 2015, 27, 275-283.	1.3	22
41	Effects of maternal l-tryptophan depletion and corticosterone administration on neurobehavioral adjustments in mouse dams and their adolescent and adult daughters. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 1479-1492.	2.5	21
42	Fish-Robot Interactions: Robot Fish in Animal Behavioral Studies. <i>Springer Tracts in Mechanical Engineering</i> , 2015, , 359-377.	0.1	21
43	The Snark was a Boojum - reloaded. <i>Frontiers in Zoology</i> , 2015, 12, S20.	0.9	19
44	Pediatric Autoimmune Disorders Associated with Streptococcal Infections and Tourette's Syndrome in Preclinical Studies. <i>Frontiers in Neuroscience</i> , 2016, 10, 310.	1.4	19
45	Emotional, endocrine and brain anandamide response to social challenge in infant male rats. <i>Psychoneuroendocrinology</i> , 2013, 38, 2152-2162.	1.3	18
46	Exposure to Sialyllactose-Poor Milk during Lactation Impairs Cognitive Capabilities in Adulthood. <i>Nutrients</i> , 2021, 13, 4191.	1.7	18
47	Resilience and adaptive aspects of stress in neurobehavioral development. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 1451.	2.9	17
48	Prenatal Stress and Peripubertal Stimulation of the Endocannabinoid System Differentially Regulate Emotional Responses and Brain Metabolism in Mice. <i>PLoS ONE</i> , 2012, 7, e41821.	1.1	17
49	Behavioral Responses to Acute and Sub-chronic Administration of the Synthetic Cannabinoid JWH-018 in Adult Mice Prenatally Exposed to Corticosterone. <i>Neurotoxicity Research</i> , 2013, 24, 15-28.	1.3	17
50	A behavioural test battery to investigate tic-like symptoms, stereotypies, attentional capabilities, and spontaneous locomotion in different mouse strains. <i>Behavioural Brain Research</i> , 2014, 267, 95-105.	1.2	16
51	Prenatal corticosterone and adolescent URB597 administration modulate emotionality and CB1 receptor expression in mice. <i>Psychopharmacology</i> , 2014, 231, 2131-2144.	1.5	14
52	Neonatal corticosterone mitigates autoimmune neuropsychiatric disorders associated with streptococcus in mice. <i>Scientific Reports</i> , 2018, 8, 10188.	1.6	13
53	Design and development of a robotic predator as a stimulus in conditioned place aversion for the study of the effect of ethanol and citalopram in zebrafish. <i>Behavioural Brain Research</i> , 2020, 378, 112256.	1.2	12
54	On the incongruity between developmental plasticity and methodological rigidity. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 6, 93.	1.0	9

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55	Pain Perception in Unresponsive Wakefulness Syndrome May Challenge the Interruption of Artificial Nutrition and Hydration: Neuroethics in Action. <i>Frontiers in Neurology</i> , 2016, 7, 202.	1.1	9
56	Acute Citalopram administration modulates anxiety in response to the context associated with a robotic stimulus in zebrafish. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 108, 110172.	2.5	9
57	Behavioral Teleporting of Individual Ethograms onto Inanimate Robots: Experiments on Social Interactions in Live Zebrafish. <i>IScience</i> , 2020, 23, 101418.	1.9	8
58	Altered Hippocampal Resting-state Functional Connectivity in Highly Superior Autobiographical Memory. <i>Neuroscience</i> , 2022, 480, 1-8.	1.1	8
59	Can laboratory animals violate behavioural norms? Towards a preclinical model of conduct disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 91, 102-111.	2.9	7
60	The Tagging Procedure of Visible Implant Elastomers Influences Zebrafish Individual and Social Behavior. <i>Zebrafish</i> , 2018, 15, 433-444.	0.5	7
61	Methylphenidate administration promotes sociability and reduces aggression in a mouse model of callousness. <i>Psychopharmacology</i> , 2019, 236, 2593-2611.	1.5	7
62	Zebrafish exhibit associative learning for an aversive robotic stimulus. <i>Lab Animal</i> , 2020, 49, 259-264.	0.2	7
63	Genomic and physiological resilience in extreme environments are associated with a secure attachment style. <i>Translational Psychiatry</i> , 2020, 10, 185.	2.4	7
64	Comparison between two- and three-dimensional scoring of zebrafish response to psychoactive drugs: identifying when three-dimensional analysis is needed. <i>PeerJ</i> , 2019, 7, e7893.	0.9	7
65	Neonatal corticosterone administration in rodents as a tool to investigate the maternal programming of emotional and immune domains. <i>Neurobiology of Stress</i> , 2017, 6, 22-30.	1.9	6
66	Effects of neonatal corticosterone and environmental enrichment on retinal ERK1/2 and CREB phosphorylation in adult mice. <i>Experimental Eye Research</i> , 2014, 128, 109-113.	1.2	3
67	Brain-Immune Alterations and Mitochondrial Dysfunctions in a Mouse Model of Paediatric Autoimmune Disorder Associated with Streptococcus: Exacerbation by Chronic Psychosocial Stress. <i>Journal of Clinical Medicine</i> , 2019, 8, 1514.	1.0	2
68	Critical Age Windows for Neurodevelopmental Psychiatric Disorders: Evidence from Animal Models. , 2012, , 275-296.		2
69	Clinicians's™ Attitudes toward Patients with Disorders of Consciousness: A Survey. <i>Neuroethics</i> , 2014, 7, 93-104.	1.7	1
70	And the zebrafish said: I like biomimetic robots. , 2012, , .		0
71	Biologically inspired robots elicit a robust fear response in zebrafish. , 2015, , .		0
72	Adaptive and Maladaptive Regulations in Response to Environmental Stress in Adolescent Rodents. , 2013, , 243-256.		0

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73	Critical Age Windows for Neurodevelopmental Psychiatric Disorders: Evidence from Animal Models. , 2013, , 327-348.		0