

# Simone MacrÃ

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8592019/publications.pdf>

Version: 2024-02-01

73  
papers

3,646  
citations

136950

32  
h-index

133252

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.   | 6.1 | 531       |
| 2  | Effects of enriched environment on animal models of neurodegenerative diseases and psychiatric disorders. <i>Neurobiology of Disease</i> , 2008, 31, 159-168.   | 4.4 | 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.   | 2.1 | 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.                    | 2.6 | 215       |
| 5  | Peculiar Vulnerability to Nicotine Oral Self-administration in Mice during Early Adolescence. <i>Neuropsychopharmacology</i> , 2002, 27, 212-224.   | 5.4 | 187       |
| 6  | Behavioral and Neurochemical Vulnerability During Adolescence in Mice: Studies with Nicotine. <i>Neuropsychopharmacology</i> , 2004, 29, 869-878.   | 5.4 | 133       |
| 7  | Critical Age Windows for Neurodevelopmental Psychiatric Disorders: Evidence from Animal Models. <i>Neurotoxicity Research</i> , 2011, 19, 286-307.  | 2.7 | 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. | 6.1 | 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.   | 2.2 | 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.   | 2.2 | 78        |
| 11 | A Robotics-Based Behavioral Paradigm to Measure Anxiety-Related Responses in Zebrafish. <i>PLoS ONE</i> , 2013, 8, e69661.  | 2.5 | 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.                      | 2.2 | 73        |
| 13 | Live Predators, Robots, and Computer-Animated Images Elicit Differential Avoidance Responses in Zebrafish. <i>Zebrafish</i> , 2015, 12, 205-214.  | 1.1 | 65        |
| 14 | Acute caffeine administration affects zebrafish response to a robotic stimulus. <i>Behavioural Brain Research</i> , 2015, 289, 48-54.   | 2.2 | 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.                 | 4.8 | 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.                  | 2.2 | 59        |
| 17 | Resilience and vulnerability are dose-dependently related to neonatal stressors in mice. <i>Hormones and Behavior</i> , 2009, 56, 391-398.  | 2.1 | 59        |
| 18 | Insulin Receptor $\beta^2$ -Subunit Haploinsufficiency Impairs Hippocampal Late-Phase LTP and Recognition Memory. <i>NeuroMolecular Medicine</i> , 2012, 14, 262-269.   | 3.4 | 58        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Acute ethanol administration affects zebrafish preference for a biologically inspired robot. <i>Alcohol</i> , 2013, 47, 391-398.   | 1.7 | 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.   | 2.7 | 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.   | 2.5 | 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.  | 2.7 | 52        |
| 23 | Sociality Modulates the Effects of Ethanol in Zebra Fish. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 2096-2104.   | 2.4 | 47        |
| 24 | Zebrafish response to 3D printed shoals of conspecifics: the effect of body size. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 026003.  | 2.9 | 47        |
| 25 | Sialylated human milk oligosaccharides program cognitive development through a non-genomic transmission mode. <i>Molecular Psychiatry</i> , 2021, 26, 2854-2871.   | 7.9 | 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.   | 7.1 | 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.   | 1.9 | 45        |
| 28 | Collective behaviour across animal species. <i>Scientific Reports</i> , 2014, 4, 3723.   | 3.3 | 42        |
| 29 | Three-dimensional scoring of zebrafish behavior unveils biological phenomena hidden by two-dimensional analyses. <i>Scientific Reports</i> , 2017, 7, 1962.  | 3.3 | 42        |
| 30 | Intranasal oxytocin administration promotes emotional contagion and reduces aggression in a mouse model of callousness. <i>Neuropharmacology</i> , 2018, 143, 250-267.   | 4.1 | 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.   | 2.5 | 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. | 6.1 | 32        |
| 33 | Zebrafish Adjust Their Behavior in Response to an Interactive Robotic Predator. <i>Frontiers in Robotics and AI</i> , 2019, 6, 38.   | 3.2 | 32        |
| 34 | Neonatal tryptophan depletion and corticosterone supplementation modify emotional responses in adult male mice. <i>Psychoneuroendocrinology</i> , 2013, 38, 24-39.   | 2.7 | 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.  | 2.2 | 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.   | 3.3 | 26        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 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.                                       | 3.3 | 25        |
| 38 | Animal Models Recapitulating the Multifactorial Origin of Tourette Syndrome. <i>International Review of Neurobiology</i> , 2013, 112, 211-237.   | 2.0 | 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.   | 6.1 | 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.  | 2.7 | 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. | 4.8 | 21        |
| 42 | Fish-Robot Interactions: Robot Fish in Animal Behavioral Studies. <i>Springer Tracts in Mechanical Engineering</i> , 2015, , 359-377.  | 0.3 | 21        |
| 43 | The Snark was a Boojum - reloaded. <i>Frontiers in Zoology</i> , 2015, 12, S20.  | 2.0 | 19        |
| 44 | Pediatric Autoimmune Disorders Associated with Streptococcal Infections and Tourette's Syndrome in Preclinical Studies. <i>Frontiers in Neuroscience</i> , 2016, 10, 310.  | 2.8 | 19        |
| 45 | Emotional, endocrine and brain anandamide response to social challenge in infant male rats. <i>Psychoneuroendocrinology</i> , 2013, 38, 2152-2162.   | 2.7 | 18        |
| 46 | Exposure to $\beta$ -Sialyllactose-Poor Milk during Lactation Impairs Cognitive Capabilities in Adulthood. <i>Nutrients</i> , 2021, 13, 4191.  | 4.1 | 18        |
| 47 | Resilience and adaptive aspects of stress in neurobehavioral development. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 1451.  | 6.1 | 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.  | 2.5 | 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.   | 2.7 | 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.   | 2.2 | 16        |
| 51 | Prenatal corticosterone and adolescent URB597 administration modulate emotionality and CB1 receptor expression in mice. <i>Psychopharmacology</i> , 2014, 231, 2131-2144.  | 3.1 | 14        |
| 52 | Neonatal corticosterone mitigates autoimmune neuropsychiatric disorders associated with streptococcus in mice. <i>Scientific Reports</i> , 2018, 8, 10188.   | 3.3 | 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.  | 2.2 | 12        |
| 54 | On the incongruity between developmental plasticity and methodological rigidity. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 6, 93.  | 2.0 | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 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.   | 2.4 | 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.                    | 4.8 | 9         |
| 57 | Behavioral Teleporting of Individual Ethograms onto Inanimate Robots: Experiments on Social Interactions in Live Zebrafish. <i>IScience</i> , 2020, 23, 101418.   | 4.1 | 8         |
| 58 | Altered Hippocampal Resting-state Functional Connectivity in Highly Superior Autobiographical Memory. <i>Neuroscience</i> , 2022, 480, 1-8.   | 2.3 | 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.   | 6.1 | 7         |
| 60 | The Tagging Procedure of Visible Implant Elastomers Influences Zebrafish Individual and Social Behavior. <i>Zebrafish</i> , 2018, 15, 433-444.  | 1.1 | 7         |
| 61 | Methylphenidate administration promotes sociability and reduces aggression in a mouse model of callousness. <i>Psychopharmacology</i> , 2019, 236, 2593-2611.   | 3.1 | 7         |
| 62 | Zebrafish exhibit associative learning for an aversive robotic stimulus. <i>Lab Animal</i> , 2020, 49, 259-264.   | 0.4 | 7         |
| 63 | Genomic and physiological resilience in extreme environments are associated with a secure attachment style. <i>Translational Psychiatry</i> , 2020, 10, 185.  | 4.8 | 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.  | 2.0 | 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.  | 4.0 | 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.  | 2.6 | 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. | 2.4 | 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.  | 2.8 | 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         |

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