

# Tatyana Strekalova

## List of Publications by Year in descending order

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80  
papers

3,515  
citations

172457

29  
h-index

149698

56  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4700  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress-Induced Anhedonia in Mice is Associated with Deficits in Forced Swimming and Exploration. <i>Neuropsychopharmacology</i> , 2004, 29, 2007-2017.	5.4	481
2	Impaired Long-Term Memory and NR2A-Type NMDA Receptor-Dependent Synaptic Plasticity in Mice Lacking c-Fos in the CNS. <i>Journal of Neuroscience</i> , 2003, 23, 9116-9122.	3.6	321
3	Microglial activation, increased TNF and SERT expression in the prefrontal cortex define stress-altered behaviour in mice susceptible to anhedonia. <i>Brain, Behavior, and Immunity</i> , 2013, 29, 136-146.	4.1	169
4	Measuring behavior in mice with chronic stress depression paradigm. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 348-361.	4.8	142
5	Update in the methodology of the chronic stress paradigm: internal control matters. <i>Behavioral and Brain Functions</i> , 2011, 7, 9.	3.3	124
6	Insulin receptor in the brain: Mechanisms of activation and the role in the <scp>CNS</scp> pathology and treatment. <i>CNS Neuroscience and Therapeutics</i> , 2018, 24, 763-774.	3.9	118
7	Selective effects of citalopram in a mouse model of stress-induced anhedonia with a control for chronic stress. <i>Behavioural Pharmacology</i> , 2006, 17, 271-287.	1.7	114
8	Attenuated palmitoylation of serotonin receptor 5-HT1A affects receptor function and contributes to depression-like behaviors. <i>Nature Communications</i> , 2019, 10, 3924.	12.8	100
9	Anhedonic-like traits and lack of affective deficits in 18-month-old C57BL/6 mice: Implications for modeling elderly depression. <i>Experimental Gerontology</i> , 2012, 47, 552-564.	2.8	92
10	Low-dose lipopolysaccharide (LPS) inhibits aggressive and augments depressive behaviours in a chronic mild stress model in mice. <i>Journal of Neuroinflammation</i> , 2016, 13, 108.	7.2	90
11	Interaction of brain 5-HT synthesis deficiency, chronic stress and sex differentially impact emotional behavior in Tph2 knockout mice. <i>Psychopharmacology</i> , 2015, 232, 2429-2441.	3.1	83
12	Early Growth Response Gene-2 Is Essential for M1 and M2 Macrophage Activation and Plasticity by Modulation of the Transcription Factor CEBP $\beta$ . <i>Frontiers in Immunology</i> , 2018, 9, 2515.	4.8	81
13	Shared genetic background between children and adults with attention deficit/hyperactivity disorder. <i>Neuropsychopharmacology</i> , 2020, 45, 1617-1626.	5.4	72
14	Cyclic AMP Pathway Suppress Autoimmune Neuroinflammation by Inhibiting Functions of Encephalitogenic CD4 T Cells and Enhancing M2 Macrophage Polarization at the Site of Inflammation. <i>Frontiers in Immunology</i> , 2018, 9, 50.	4.8	71
15	Tlr4 upregulation in the brain accompanies depression- and anxiety-like behaviors induced by a high-cholesterol diet. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 42-47.	4.1	61
16	The neuronal insulin sensitizer dicholine succinate reduces stress-induced depressive traits and memory deficit: possible role of insulin-like growth factor 2. <i>BMC Neuroscience</i> , 2012, 13, 110.	1.9	59
17	Fibronectin Domains of Extracellular Matrix Molecule Tenascin-C Modulate Hippocampal Learning and Synaptic Plasticity. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 173-187.	2.2	58
18	Deuterium content of water increases depression susceptibility: The potential role of a serotonin-related mechanism. <i>Behavioural Brain Research</i> , 2015, 277, 237-244.	2.2	56

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19	Altered emotionality, hippocampus-dependent performance and expression of NMDA receptor subunit mRNAs in chronically stressed mice. <i>Stress</i> , 2014, 17, 108-116.	1.8	46
20	Experimental heart failure causes depression-like behavior together with differential regulation of inflammatory and structural genes in the brain. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 376.	2.0	44
21	Thiamine and benfotiamine prevent stress-induced suppression of hippocampal neurogenesis in mice exposed to predation without affecting brain thiamine diphosphate levels. <i>Molecular and Cellular Neurosciences</i> , 2017, 82, 126-136.	2.2	43
22	Dimebon enhances hippocampus-dependent learning in both appetitive and inhibitory memory tasks in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 510-522.	4.8	42
23	Chronic mild stress paradigm as a rat model of depression: facts, artifacts, and future perspectives. <i>Psychopharmacology</i> , 2022, 239, 663-693.	3.1	42
24	Thiamine and benfotiamine improve cognition and ameliorate GSK-3 $\beta$ -associated stress-induced behaviours in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 75, 148-156.	4.8	39
25	Platelets mediate protective neuroinflammation and promote neuronal plasticity at the site of neuronal injury. <i>Brain, Behavior, and Immunity</i> , 2018, 74, 7-27.	4.1	38
26	Effects of acute and chronic arecoline in adult zebrafish: Anxiolytic-like activity, elevated brain monoamines and the potential role of microglia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 104, 109977.	4.8	36
27	Neuroinflammation and aberrant hippocampal plasticity in a mouse model of emotional stress evoked by exposure to ultrasound of alternating frequencies. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 90, 104-116.	4.8	35
28	Lasting downregulation of the lipid peroxidation enzymes in the prefrontal cortex of mice susceptible to stress-induced anhedonia. <i>Behavioural Brain Research</i> , 2015, 276, 118-129.	2.2	32
29	Endotoxaemia resulting from decreased serotonin transporter (5-HTT) function: A reciprocal risk factor for depression and insulin resistance?. <i>Behavioural Brain Research</i> , 2015, 276, 111-117.	2.2	31
30	Thiamine and benfotiamine counteract ultrasound-induced aggression, normalize AMPA receptor expression and plasticity markers, and reduce oxidative stress in mice. <i>Neuropharmacology</i> , 2019, 156, 107543.	4.1	31
31	Intrahippocampal Administration of an Antibody against the HNK-1 Carbohydrate Impairs Memory Consolidation in an Inhibitory Learning Task in Mice. <i>Molecular and Cellular Neurosciences</i> , 2001, 17, 1102-1113.	2.2	30
32	Prefrontal cortex inflammation and liver pathologies accompany cognitive and motor deficits following Western diet consumption in non-obese female mice. <i>Life Sciences</i> , 2020, 241, 117163.	4.3	30
33	Ultrasound of alternating frequencies and variable emotional impact evokes depressive syndrome in mice and rats. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 68, 52-63.	4.8	28
34	Elucidating the functions of brain GSK3 $\beta$ : Possible synergy with GSK3 $\beta$ upregulation and reversal by antidepressant treatment in a mouse model of depressive-like behaviour. <i>Behavioural Brain Research</i> , 2017, 335, 122-127.	2.2	27
35	Autism-Like Behaviours and Memory Deficits Result from a Western Diet in Mice. <i>Neural Plasticity</i> , 2017, 2017, 1-14.	2.2	27
36	Animal Models of Depression and Drug Delivery with Food as an Effective Dosing Method: Evidences from Studies with Celecoxib and Dicholine Succinate. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	25

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37	<i>SLC2A3</i> single nucleotide polymorphism and duplication influence cognitive processing and population-specific risk for attention-deficit/hyperactivity disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2017, 58, 798-809.	5.2	25
38	The zebrafish tail immobilization (ZTI) test as a new tool to assess stress-related behavior and a potential screen for drugs affecting despair-like states. <i>Journal of Neuroscience Methods</i> , 2020, 337, 108637.	2.5	25
39	NeuroCells therapy improves motor outcomes and suppresses inflammation during experimental syndrome of amyotrophic lateral sclerosis in mice. <i>CNS Neuroscience and Therapeutics</i> , 2020, 26, 504-517.	3.9	24
40	Understanding complex dynamics of behavioral, neurochemical and transcriptomic changes induced by prolonged chronic unpredictable stress in zebrafish. <i>Scientific Reports</i> , 2020, 10, 19981.	3.3	24
41	The differential effects of chronic imipramine or citalopram administration on physiological and behavioral outcomes in naïve mice. <i>Behavioural Brain Research</i> , 2013, 245, 101-106.	2.2	23
42	The Role of Neuronal Factors in the Epigenetic Reprogramming of Microglia in the Normal and Diseased Central Nervous System. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 453.	3.7	23
43	Pro-neurogenic, Memory-Enhancing and Anti-stress Effects of DF302, a Novel Fluorine Gamma-Carboline Derivative with Multi-target Mechanism of Action. <i>Molecular Neurobiology</i> , 2018, 55, 335-349.	4.0	22
44	Hippocampal Gene Expression of Deiodinases 2 and 3 and Effects of 3,5-Diiodo-L-Thyronine T2 in Mouse Depression Paradigms. <i>BioMed Research International</i> , 2013, 2013, 1-14.	1.9	21
45	Differential anxiety-related behaviours and brain activation in Tph2-deficient female mice exposed to adverse early environment. <i>European Neuropsychopharmacology</i> , 2018, 28, 1270-1283.	0.7	21
46	Insulin receptor sensitizer, dicholine succinate, prevents both Toll-like receptor 4 (TLR4) upregulation and affective changes induced by a high-cholesterol diet in mice. <i>Journal of Affective Disorders</i> , 2016, 196, 109-116.	4.1	20
47	Dibenzoylthiamine Has Powerful Antioxidant and Anti-Inflammatory Properties in Cultured Cells and in Mouse Models of Stress and Neurodegeneration. <i>Biomedicines</i> , 2020, 8, 361.	3.2	20
48	Individual Differences in Behavioural Despair Predict Brain GSK-3beta Expression in Mice: The Power of a Modified Swim Test. <i>Neural Plasticity</i> , 2016, 2016, 1-17.	2.2	19
49	Developing zebrafish experimental animal models relevant to schizophrenia. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 105, 126-133.	6.1	19
50	Delayed behavioral and genomic responses to acute combined stress in zebrafish, potentially relevant to PTSD and other stress-related disorders: Focus on neuroglia, neuroinflammation, apoptosis and epigenetic modulation. <i>Behavioural Brain Research</i> , 2020, 389, 112644.	2.2	18
51	Concomitant manipulation of murine NMDA- and AMPA-receptors to produce pro-cognitive drug effects in mice. <i>European Neuropsychopharmacology</i> , 2014, 24, 309-320.	0.7	17
52	Stress-induced aggression in heterozygous TPH2 mutant mice is associated with alterations in serotonin turnover and expression of 5-HT6 and AMPA subunit 2A receptors. <i>Journal of Affective Disorders</i> , 2020, 272, 440-451.	4.1	17
53	Ultrasound stress compromises the correlates of emotional-like states and brain AMPAR expression in mice: effects of antioxidant and anti-inflammatory herbal treatment. <i>Stress</i> , 2020, 23, 481-495.	1.8	16
54	Increased Oxidative Stress in the Prefrontal Cortex as a Shared Feature of Depressive- and PTSD-Like Syndromes: Effects of a Standardized Herbal Antioxidant. <i>Frontiers in Nutrition</i> , 2021, 8, 661455.	3.7	16

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55	Dicholine succinate, the neuronal insulin sensitizer, normalizes behavior, REM sleep, hippocampal pGSK3 beta and mRNAs of NMDA receptor subunits in mouse models of depression. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 37.	2.0	15
56	Postnatal LPS Challenge Impacts Escape Learning and Expression of Plasticity Factors Mmp9 and Timp1 in Rats: Effects of Repeated Training. <i>Neurotoxicity Research</i> , 2017, 32, 175-186.	2.7	15
57	Animal models of major depressive disorder and the implications for drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 365-378.	5.0	14
58	Hippocampal Over-Expression of Cyclooxygenase-2 (COX-2) Is Associated with Susceptibility to Stress-Induced Anhedonia in Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2061.	4.1	14
59	Metabolic, Molecular, and Behavioral Effects of Western Diet in Serotonin Transporter-Deficient Mice: Rescue by Heterozygosity?. <i>Frontiers in Neuroscience</i> , 2020, 14, 24.	2.8	13
60	Early-life stress impairs developmental programming in Cadherin 13 (CDH13)-deficient mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 89, 158-168.	4.8	12
61	Sex differences shape zebrafish performance in a battery of anxiety tests and in response to acute scopolamine treatment. <i>Neuroscience Letters</i> , 2021, 759, 135993.	2.1	12
62	Factors of Reproducibility of Anhedonia Induction in a Chronic Stress Depression Model in Mice. <i>Neuromethods</i> , 2009, , 153-176.	0.3	12
63	Nafamostat reduces systemic inflammation in TLR7-mediated virus-like illness. <i>Journal of Neuroinflammation</i> , 2022, 19, 8.	7.2	12
64	The olfactory bulbectomized rat model is not an appropriate model for studying depression based on morphological/stereological studies of the hippocampus. <i>Brain Research Bulletin</i> , 2017, 134, 128-135.	3.0	11
65	Identification of Cholecystokinin by Genome-Wide Profiling as Potential Mediator of Serotonin-Dependent Behavioral Effects of Maternal Separation in the Amygdala. <i>Frontiers in Neuroscience</i> , 2019, 13, 460.	2.8	11
66	Enhanced conditioning of adverse memories in the mouse modified swim test is associated with neuroinflammatory changes – Effects that are susceptible to antidepressants. <i>Neurobiology of Learning and Memory</i> , 2020, 172, 107227.	1.9	11
67	Molecular and behavioural abnormalities in the FUS <sup>tg</sup> mice mimic frontotemporal lobar degeneration: Effects of old and new anti-inflammatory therapies. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 10251-10257.	3.6	10
68	Altered behaviour, dopamine and norepinephrine regulation in stressed mice heterozygous in TPH2 gene. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 108, 110155.	4.8	10
69	Decoding the role of zebrafish neuroglia in CNS disease modeling. <i>Brain Research Bulletin</i> , 2021, 166, 44-53.	3.0	9
70	ASD-like behaviors, a dysregulated inflammatory response and decreased expression of PLP1 characterize mice deficient for sialyltransferase ST3GAL5. <i>Brain, Behavior, &amp; Immunity - Health</i> , 2021, 16, 100306.	2.5	9
71	Unconventional anxiety pharmacology in zebrafish: Drugs beyond traditional anxiogenic and anxiolytic spectra. <i>Pharmacology Biochemistry and Behavior</i> , 2021, 207, 173205.	2.9	7
72	CNS genomic profiling in the mouse chronic social stress model implicates a novel category of candidate genes integrating affective pathogenesis. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 105, 110086.	4.8	6

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73	Pro-social and anxiolytic-like behavior following a single 24-h exposure to 17 $\beta$ -estradiol in adult male zebrafish. <i>Neuroscience Letters</i> , 2021, 747, 135591.	2.1	4
74	Sex-Specific ADHD-like Behaviour, Altered Metabolic Functions, and Altered EEG Activity in Sialyltransferase ST3GAL5-Deficient Mice. <i>Biomolecules</i> , 2021, 11, 1759.	4.0	4
75	Predation Stress Causes Excessive Aggression in Female Mice with Partial Genetic Inactivation of Tryptophan Hydroxylase-2: Evidence for Altered Myelination-Related Processes. <i>Cells</i> , 2022, 11, 1036.	4.1	4
76	Behavioral Features of Mice Fed with a Cholesterol-Enriched Diet: Deficient Novelty Exploration and Unaltered Aggressive Behavior. <i>Translational Neuroscience and Clinics</i> , 2016, 2, 87-95.	0.1	3
77	Understanding early-life pain and its effects on adult human and animal emotionality: Translational lessons from rodent and zebrafish models. <i>Neuroscience Letters</i> , 2021, 768, 136382.	2.1	1
78	Pharmacological characterization of a novel putative nootropic beta-alanine derivative, MB-005, in adult zebrafish. <i>Journal of Psychopharmacology</i> , 0, , 026988112210981.	4.0	1
79	Effects of Voluntary Imipramine Intake via Food and Water in Paradigms of Anxiety and Depression in naïve Mice. <i>Translational Neuroscience and Clinics</i> , 2016, 2, 172-182.	0.1	0
80	A Study of the Effects of 3,5-Diiodo-L-Thyronine in the Tail Suspension and Forced Swim Models of Depression. <i>Translational Neuroscience and Clinics</i> , 2016, 2, 96-107.	0.1	0