

# Electrical stimulation alleviates depressive-like behavior targets and potential mechanisms

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Deep Brain Stimulation: Expanding Applications. <i>Neurologia Medico-Chirurgica</i> , 2015, 55, 861-877.	1.0	21
2	Activation and blockade of serotonin7 receptors in the prelimbic cortex regulate depressive-like behaviors in a 6-hydroxydopamine-induced Parkinson's disease rat model. <i>Neuroscience</i> , 2015, 311, 45-55.	1.1	19
3	Habenula. <i>Neurology</i> , 2015, 85, 992-1000.	1.5	47
4	Deep Brain Stimulation for Treatment-Refractory Mood and Obsessive-Compulsive Disorders. <i>Current Behavioral Neuroscience Reports</i> , 2015, 2, 187-197.	0.6	24
5	Neuronal correlates of depression. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 4825-4848.	2.4	101
6	Serotonin modulates glutamatergic transmission to neurons in the lateral habenula. <i>Scientific Reports</i> , 2016, 6, 23798.	1.6	39
7	Behavioral, neurochemical and molecular changes after acute deep brain stimulation of the infralimbic prefrontal cortex. <i>Neuropharmacology</i> , 2016, 108, 91-102.	2.0	46
8	Tetratricopeptide repeat domain 9A modulates anxiety-like behavior in female mice. <i>Scientific Reports</i> , 2016, 6, 37568.	1.6	14
9	Reduced response to chronic mild stress in PACAP mutant mice is associated with blunted FosB expression in limbic forebrain and brainstem centers. <i>Neuroscience</i> , 2016, 330, 335-358.	1.1	41
10	Translating the Habenula—From Rodents to Humans. <i>Biological Psychiatry</i> , 2017, 81, 296-305.	0.7	130
11	Construct and face validity of a new model for the three-hit theory of depression using PACAP mutant mice on CD1 background. <i>Neuroscience</i> , 2017, 354, 11-29.	1.1	36
12	The Rodent Forced Swim Test Measures Stress-Coping Strategy, Not Depression-like Behavior. <i>ACS Chemical Neuroscience</i> , 2017, 8, 955-960.	1.7	345
13	The habenula as a critical node in chronic stress-related anxiety. <i>Experimental Neurology</i> , 2017, 289, 46-54.	2.0	42
14	Understanding Mood Disorders Using Electrophysiology and Circuit Breaking. , 2017, , 343-370.		0
15	Adult hippocampal neurogenesis: Is it the alpha and omega of antidepressant action?. <i>Biochemical Pharmacology</i> , 2017, 141, 86-99.	2.0	55
16	The chronic mild stress (CMS) model of depression: History, evaluation and usage. <i>Neurobiology of Stress</i> , 2017, 6, 78-93.	1.9	636
17	Electrical Stimulation Normalizes c-Fos Expression in the Deep Cerebellar Nuclei of Depressive-like Rats: Implication of Antidepressant Activity. <i>Cerebellum</i> , 2017, 16, 398-410.	1.4	18
18	Cellular and molecular mechanisms triggered by Deep Brain Stimulation in depression: A preclinical and clinical approach. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 73, 1-10.	2.5	29

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19	Deep brain stimulation and fluoxetine exert different long-term changes in the serotonergic system. <i>Neuropharmacology</i> , 2018, 135, 63-72.	2.0	22
20	Deep brain stimulation for treatment-resistant depression: an integrative review of preclinical and clinical findings and translational implications. <i>Molecular Psychiatry</i> , 2018, 23, 1094-1112.	4.1	204
21	Reproducibility of myelin content-based human habenula segmentation at 3 Tesla. <i>Human Brain Mapping</i> , 2018, 39, 3058-3071.	1.9	17
22	Effect of Deep Brain Stimulation of the ventromedial prefrontal cortex on the noradrenergic system in rats. <i>Brain Stimulation</i> , 2018, 11, 222-230.	0.7	26
23	One year double blind study of high vs low frequency subcallosal cingulate stimulation for depression. <i>Journal of Psychiatric Research</i> , 2018, 96, 124-134.	1.5	39
24	Tuning Neuromodulation Effects by Orientation Selective Deep Brain Stimulation in the Rat Medial Frontal Cortex. <i>Frontiers in Neuroscience</i> , 2018, 12, 899.	1.4	9
25	Dysregulation of the Lateral Habenula in Major Depressive Disorder. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 46.	1.3	71
26	Enriched Environment Facilitates Anxiolytic Efficacy Driven by Deep-Brain Stimulation of Medial Prefrontal Cortex. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 204.	1.0	8
27	Rapid antidepressant effects of deep brain stimulation of the pre-frontal cortex in an animal model of treatment-resistant depression. <i>Journal of Psychopharmacology</i> , 2018, 32, 1133-1140.	2.0	27
28	The Lateral Habenula Directs Coping Styles Under Conditions of Stress via Recruitment of the Endocannabinoid System. <i>Biological Psychiatry</i> , 2018, 84, 611-623.	0.7	47
29	Functional Connectivity-Based Modelling Simulates Subject-Specific Network Spreading Effects of Focal Brain Stimulation. <i>Neuroscience Bulletin</i> , 2018, 34, 921-938.	1.5	11
30	A 3D Printed Device for Low Cost Neural Stimulation in Mice. <i>Frontiers in Neuroscience</i> , 2019, 13, 784.	1.4	11
31	In Vivo Brain Sampling Using a Microextraction Probe Reveals Metabolic Changes in Rodents after Deep Brain Stimulation. <i>Analytical Chemistry</i> , 2019, 91, 9875-9884.	3.2	47
32	Genomic Screening of Wistar and Wistar-Kyoto Rats Exposed to Chronic Mild Stress and Deep Brain Stimulation of Prefrontal Cortex. <i>Neuroscience</i> , 2019, 423, 66-75.	1.1	11
33	How Deep Brain Stimulation of the Nucleus Accumbens Affects the Cingulate Gyrus and Vice Versa. <i>Brain Sciences</i> , 2019, 9, 5.	1.1	4
34	Deep brain stimulation: current challenges and future directions. <i>Nature Reviews Neurology</i> , 2019, 15, 148-160.	4.9	721
35	Acute 5 Hz deep brain stimulation of the lateral habenula is associated with depressive-like behavior in male wild-type Wistar rats. <i>Brain Research</i> , 2019, 1721, 146283.	1.1	16
36	The role of prefrontal cortex dopamine D2 and D3 receptors in the mechanism of action of venlafaxine and deep brain stimulation in animal models of treatment-responsive and treatment-resistant depression. <i>Journal of Psychopharmacology</i> , 2019, 33, 748-756.	2.0	18

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37	Severe seizures as a side effect of deep brain stimulation in the dorsal peduncular cortex in a rat model of depression. <i>Epilepsy and Behavior</i> , 2019, 92, 269-275.	0.9	1
38	Deep Brain Stimulation: Mechanisms Underpinning Antidepressant Effects. , 2019, , 375-382.		0
39	Investigation of Architectures for Models of Neural Responses to Electrical Brain Stimulation. , 2019, 2019, 6892-6895.		1
40	Effects of different patterns of electric stimulation of the ventromedial prefrontal cortex on hippocampal prefrontal coherence in a rat model of depression. <i>Behavioural Brain Research</i> , 2019, 356, 179-188.	1.2	13
41	Validation of chronic mild stress in the Wistar-Kyoto rat as an animal model of treatment-resistant depression. <i>Behavioural Pharmacology</i> , 2019, 30, 239-250.	0.8	53
42	Medial Forebrain Bundle Deep Brain Stimulation Reverses Anhedonic-Like Behavior in a Chronic Model of Depression: Importance of BDNF and Inflammatory Cytokines. <i>Molecular Neurobiology</i> , 2019, 56, 4364-4380.	1.9	33
43	Remediation of chronic immobilization stress-induced negative affective behaviors and altered metabolism of monoamines in the prefrontal cortex by inactivation of basolateral amygdala. <i>Neurochemistry International</i> , 2020, 141, 104858.	1.9	2
44	AMPA receptors mediate the pro-cognitive effects of electrical and optogenetic stimulation of the medial prefrontal cortex in antidepressant non-responsive Wistar-Kyoto rats. <i>Journal of Psychopharmacology</i> , 2020, 34, 1418-1430.	2.0	13
45	Dysregulation of the orexinergic system: A potential neuropeptide target in depression. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 384-396.	2.9	17
46	A Decade of Progress in Deep Brain Stimulation of the Subcallosal Cingulate for the Treatment of Depression. <i>Journal of Clinical Medicine</i> , 2020, 9, 3260.	1.0	11
47	<i>Hericium erinaceus</i> potentially rescues behavioural motor deficits through ERK-CREB-PSD95 neuroprotective mechanisms in rat model of 3-acetylpyridine-induced cerebellar ataxia. <i>Scientific Reports</i> , 2020, 10, 14945.	1.6	17
48	Deep Brain Stimulation for Treatment-Resistant Depression: Towards a More Personalized Treatment Approach. <i>Journal of Clinical Medicine</i> , 2020, 9, 2729.	1.0	26
49	Prelimbic Cortical Stimulation Improves Spatial Memory Through Distinct Patterns of Hippocampal Gene Expression in Aged Rats. <i>Neurotherapeutics</i> , 2020, 17, 2054-2068.	2.1	10
50	Impaired emotional response to stress in mice lacking galectin-1 or galectin-3. <i>Physiology and Behavior</i> , 2020, 220, 112862.	1.0	7
51	Emerging Modalities and Implantable Technologies for Neuromodulation. <i>Cell</i> , 2020, 181, 115-135.	13.5	152
52	Behavioural responses of anxiety in aversive and non-aversive conditions between young and aged Sprague-Dawley rats. <i>Behavioural Brain Research</i> , 2020, 385, 112559.	1.2	6
53	The Paradoxical Effect of Deep Brain Stimulation on Memory. , 2020, 11, 179.		14
54	Where is Cingulate Cortex? A Cross-Species View. <i>Trends in Neurosciences</i> , 2020, 43, 285-299.	4.2	150

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55	Low-intensity pulsed ultrasound ameliorates depression-like behaviors in a rat model of chronic unpredictable stress. <i>CNS Neuroscience and Therapeutics</i> , 2021, 27, 233-243.	1.9	23
56	New insights on brain-derived neurotrophic factor epigenetics: from depression to memory extinction. <i>Annals of the New York Academy of Sciences</i> , 2021, 1484, 9-31.	1.8	24
57	Stimulation in the Rat Anterior Insula and Anterior Cingulate During an Effortful Weightlifting Task. <i>Frontiers in Neuroscience</i> , 2021, 15, 643384.	1.4	4
58	Prelimbic cortical stimulation disrupts fear memory consolidation through ventral hippocampal dopamine D2 receptors. <i>British Journal of Pharmacology</i> , 2021, 178, 3587-3601.	2.7	8
59	Biomarkers for Deep Brain Stimulation in Animal Models of Depression. <i>Neuromodulation</i> , 2022, 25, 161-170.	0.4	5
60	Perspectives for therapy of treatment-resistant depression. <i>British Journal of Pharmacology</i> , 2022, 179, 4181-4200.	2.7	30
61	A narrative review on invasive brain stimulation for treatment-resistant depression. <i>Revista Brasileira De Psiquiatria</i> , 2022, 44, 317-330.	0.9	3
62	Blockade of pre-synaptic and post-synaptic GABAB receptors in the lateral habenula produces different effects on anxiety-like behaviors in 6-hydroxydopamine hemiparkinsonian rats. <i>Neuropharmacology</i> , 2021, 196, 108705.	2.0	7
63	Therapeutic Potential of Human Stem Cell Implantation in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10151.	1.8	17
64	Strain-dependent sex differences in a long-term forced swim paradigm. <i>Behavioral Neuroscience</i> , 2017, 131, 428-436.	0.6	28
66	Discovering the Potentials of Medicinal Mushrooms in Combating Depression – A Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2020, 20, 1518-1531.	1.1	7
67	Ventromedial prefrontal cortex stimulation enhances memory and hippocampal neurogenesis in the middle-aged rats. <i>ELife</i> , 2015, 4, .	2.8	59
68	Insufficiency of ventral hippocampus to medial prefrontal cortex transmission explains antidepressant non-response. <i>Journal of Psychopharmacology</i> , 2021, 35, 1253-1264.	2.0	7
69	A Short Glance at the Neural Circuitry Mechanism Underlying Depression. <i>World Journal of Neuroscience</i> , 2016, 06, 184-192.	0.1	1
70	Deep Brain Stimulation: A Promising Therapeutic Approach to the Treatment of Severe Depressed Patients – Current Evidence and Intrinsic Mechanisms. , 2017, , 251-264.		0
72	Treatment-Resistant Depression: Deep Brain Stimulation. , 2020, , 417-432.		1
74	Deep brain stimulation improved depressive-like behaviors and hippocampal synapse deficits by activating the BDNF/mTOR signaling pathway. <i>Behavioural Brain Research</i> , 2022, 419, 113709.	1.2	8
75	Optogenetic stimulation of medial prefrontal cortex excites GABAergic cells in the nucleus accumbens and hippocampus of Wistar-Kyoto rats exposed to chronic mild stress. <i>Psychopharmacology</i> , 2022, 239, 2299-2307.	1.5	2

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76	Neurogenesis-dependent antidepressant-like activity of <i>Herichium erinaceus</i> in an animal model of depression. <i>Chinese Medicine</i> , 2021, 16, 132.	1.6	22
79	Effects of lateral habenula and ventral medial prefrontal cortex deep brain stimulation in rats. <i>Journal of Neurorestoratology</i> , 2022, 10, 43.	1.1	0
80	Antidepressant-like effects of transcorneal electrical stimulation in rat models. <i>Brain Stimulation</i> , 2022, 15, 843-856.	0.7	11
81	Transcorneal electrical stimulation enhances cognitive functions in aged and 5XFAD mouse models. <i>Annals of the New York Academy of Sciences</i> , 2022, 1515, 249-265.	1.8	8
82	Deep Brain Stimulation for Depression. <i>Neurotherapeutics</i> , 2022, 19, 1229-1245.	2.1	36
83	Distribution and inter-regional relationship of amyloid-beta plaque deposition in a 5xFAD mouse model of Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	8
84	The antidepressant effect of nucleus accumbens deep brain stimulation is mediated by parvalbumin-positive interneurons in the dorsal dentate gyrus. <i>Neurobiology of Stress</i> , 2022, 21, 100492.	1.9	4
85	Serotonin 5-HT1B receptors mediate the antidepressant- and anxiolytic-like effects of ventromedial prefrontal cortex deep brain stimulation in a mouse model of social defeat. <i>Psychopharmacology</i> , 2022, 239, 3875-3892.	1.5	6
86	Prelimbic Cortical Stimulation with L-methionine Enhances Cognition through Hippocampal DNA Methylation and Neuroplasticity Mechanisms. , 2023, 14, 112.		4
88	Neurochemical mechanisms of deep brain stimulation for depression in animal models. <i>European Neuropsychopharmacology</i> , 2023, 68, 11-26.	0.3	4
89	Optogenetic stimulation of transmission from prefrontal cortex to nucleus accumbens core overcomes resistance to venlafaxine in an animal model of treatment-resistant depression. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2023, 123, 110715.	2.5	1
90	Deep brain stimulation in the lateral habenula reverses local neuronal hyperactivity and ameliorates depression-like behaviors in rats. <i>Neurobiology of Disease</i> , 2023, 180, 106069.	2.1	2
91	New and emerging approaches to treat psychiatric disorders. <i>Nature Medicine</i> , 2023, 29, 317-333.	15.2	22
92	Sex differences in amygdalohippocampal oscillations and neuronal activation in a rodent anxiety model and in response to infralimbic deep brain stimulation. <i>Frontiers in Behavioral Neuroscience</i> , 0, 17, .	1.0	8
93	Differential Modulation of Dorsal Raphe Serotonergic Activity in Rat Brain by the Infralimbic and Prelimbic Cortices. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4891.	1.8	4