

Betina Elfving

List of Publications by Year in descending order

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94
papers

3,010
citations

136885

32
h-index

189801

50
g-index

100
all docs

100
docs citations

100
times ranked

5007
citing authors

#	ARTICLE	IF	CITATIONS
1	Reference genes for normalization: A study of rat brain tissue. <i>Synapse</i> , 2008, 62, 302-309.	0.6	219
2	Probiotic treatment reduces depressive-like behaviour in rats independently of diet. <i>Psychoneuroendocrinology</i> , 2017, 79, 40-48.	1.3	149
3	The association between depressive symptoms, cognitive function, and inflammation in major depression. <i>Brain, Behavior, and Immunity</i> , 2014, 35, 70-76.	2.0	146
4	The effect of exercise on hippocampal volume and neurotrophines in patients with major depression – A randomized clinical trial. <i>Journal of Affective Disorders</i> , 2014, 165, 24-30.	2.0	91
5	Inverse correlation of brain and blood BDNF levels in a genetic rat model of depression. <i>International Journal of Neuropsychopharmacology</i> , 2010, 13, 563-572.	1.0	83
6	Detection of brain-derived neurotrophic factor (BDNF) in rat blood and brain preparations using ELISA: Pitfalls and solutions. <i>Journal of Neuroscience Methods</i> , 2010, 187, 73-77.	1.3	80
7	Depression, the Val66Met polymorphism, age, and gender influence the serum BDNF level. <i>Journal of Psychiatric Research</i> , 2012, 46, 1118-1125.	1.5	77
8	The microbial metabolite indole-3-propionic acid improves glucose metabolism in rats, but does not affect behaviour. <i>Archives of Physiology and Biochemistry</i> , 2018, 124, 306-312.	1.0	67
9	Increased stress-evoked nitric oxide signalling in the Flinders sensitive line (FSL) rat: a genetic animal model of depression. <i>International Journal of Neuropsychopharmacology</i> , 2010, 13, 461.	1.0	64
10	Maternal High-fat Diet Programs Offspring Emotional Behavior in Adulthood. <i>Neuroscience</i> , 2018, 388, 87-101.	1.1	63
11	Differential expression of synaptic proteins after chronic restraint stress in rat prefrontal cortex and hippocampus. <i>Brain Research</i> , 2011, 1385, 26-37.	1.1	62
12	Dietary magnesium deficiency alters gut microbiota and leads to depressive-like behaviour. <i>Acta Neuropsychiatrica</i> , 2015, 27, 168-176.	1.0	61
13	Differential interaction with the serotonin system by S-ketamine, vortioxetine, and fluoxetine in a genetic rat model of depression. <i>Psychopharmacology</i> , 2016, 233, 2813-2825.	1.5	59
14	Cytokine profiling in the prefrontal cortex of Parkinson's Disease and Multiple System Atrophy patients. <i>Neurobiology of Disease</i> , 2017, 106, 269-278.	2.1	58
15	Differential expression of synaptic vesicle proteins after repeated electroconvulsive seizures in rat frontal cortex and hippocampus. <i>Synapse</i> , 2008, 62, 662-670.	0.6	56
16	Binding characteristics of the 5-HT2A receptor antagonists altanserin and MDL 100907. <i>Synapse</i> , 2005, 58, 249-257.	0.6	55
17	Differential brain, but not serum VEGF levels in a genetic rat model of depression. <i>Neuroscience Letters</i> , 2010, 474, 13-16.	1.0	53
18	Neuropeptide S alters anxiety, but not depression-like behaviour in Flinders Sensitive Line rats: a genetic animal model of depression. <i>International Journal of Neuropsychopharmacology</i> , 2012, 15, 375-387.	1.0	53

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19	Transcriptional regulation in the rat prefrontal cortex and hippocampus after a single administration of psilocybin. <i>Journal of Psychopharmacology</i> , 2021, 35, 483-493.	2.0	52
20	Ketamine regulates the presynaptic release machinery in the hippocampus. <i>Journal of Psychiatric Research</i> , 2013, 47, 892-899.	1.5	50
21	Selective Breeding for High Anxiety Introduces a Synonymous SNP That Increases Neuropeptide S Receptor Activity. <i>Journal of Neuroscience</i> , 2015, 35, 4599-4613.	1.7	50
22	Interference of anaesthetics with radioligand binding in neuroreceptor studies. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 912-915.	3.3	48
23	The Chicken Serotonin Transporter Discriminates between Serotonin-selective Reuptake Inhibitors. <i>Journal of Biological Chemistry</i> , 2004, 279, 42147-42156.	1.6	47
24	Grandmaternal high-fat diet primed anxiety-like behaviour in the second-generation female offspring. <i>Behavioural Brain Research</i> , 2019, 359, 47-55.	1.2	44
25	Neurotrophic factors in depression in response to treatment. <i>Journal of Affective Disorders</i> , 2015, 183, 287-294.	2.0	43
26	Potential involvement of serotonergic signaling in ketamine's antidepressant actions: A critical review. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 71, 27-38.	2.5	42
27	Temporal Dynamics of Acute Stress-Induced Dendritic Remodeling in Medial Prefrontal Cortex and the Protective Effect of Desipramine. <i>Cerebral Cortex</i> , 2017, 27, bhv254.	1.6	41
28	Interferon-alpha treatment induces depression-like behaviour accompanied by elevated hippocampal quinolinic acid levels in rats. <i>Behavioural Brain Research</i> , 2015, 293, 166-172.	1.2	41
29	Increased serum levels of sortilin are associated with depression and correlated with BDNF and VEGF. <i>Translational Psychiatry</i> , 2015, 5, e677-e677.	2.4	39
30	Probiotic treatment protects against the pro-depressant-like effect of high-fat diet in Flinders Sensitive Line rats. <i>Brain, Behavior, and Immunity</i> , 2017, 65, 33-42.	2.0	39
31	Psilocybin lacks antidepressant-like effect in the Flinders Sensitive Line rat. <i>Acta Neuropsychiatrica</i> , 2019, 31, 213-219.	1.0	37
32	Design, Synthesis, and Structure-Activity Relationship Studies of Novel 3-Alkylindole Derivatives as Selective and Highly Potent Myeloperoxidase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3943-3958.	2.9	33
33	Electroconvulsive seizures stimulate the vegf pathway via mTORC1. <i>Synapse</i> , 2012, 66, 340-345.	0.6	32
34	Wistar rats subjected to chronic restraint stress display increased hippocampal spine density paralleled by increased expression levels of synaptic scaffolding proteins. <i>Stress</i> , 2012, 15, 514-523.	0.8	31
35	Behavioral and systemic consequences of long-term inflammatory challenge. <i>Journal of Neuroimmunology</i> , 2015, 288, 40-46.	1.1	31
36	Differential expression of synaptic markers regulated during neurodevelopment in a rat model of schizophrenia-like behavior. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 95, 109669.	2.5	30

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37	Binding characteristics of selective serotonin reuptake inhibitors with relation to emission tomography studies. <i>Synapse</i> , 2001, 41, 203-211.	0.6	29
38	Treatment with an SSRI antidepressant restores hippocampo-hypothalamic corticosteroid feedback and reverses insulin resistance in low-birth-weight rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E920-E929.	1.8	29
39	Chronic maternal inflammation or high-fat-feeding programs offspring obesity in a sex-dependent manner. <i>International Journal of Obesity</i> , 2017, 41, 1420-1426.	1.6	29
40	S-Ketamine Mediates Its Acute and Sustained Antidepressant-Like Activity through a 5-HT1B Receptor Dependent Mechanism in a Genetic Rat Model of Depression. <i>Frontiers in Pharmacology</i> , 2017, 8, 978.	1.6	28
41	Depression and BMI influences the serum vascular endothelial growth factor level. <i>International Journal of Neuropsychopharmacology</i> , 2014, 17, 1409-1417.	1.0	27
42	A single dose of vortioxetine, but not ketamine or fluoxetine, increases plasticity-related gene expression in the rat frontal cortex. <i>European Journal of Pharmacology</i> , 2016, 786, 29-35.	1.7	27
43	Latent toxoplasmosis aggravates anxiety- and depressive-like behaviour and suggest a role of gene-environment interactions in the behavioural response to the parasite. <i>Behavioural Brain Research</i> , 2019, 364, 133-139.	1.2	27
44	Antidepressant-like effect induced by P2X7 receptor blockade in FSL rats is associated with BDNF signalling activation. <i>Journal of Psychopharmacology</i> , 2019, 33, 1436-1446.	2.0	26
45	Female Flinders Sensitive Line rats show estrous cycle-independent depression-like behavior and altered tryptophan metabolism. <i>Neuroscience</i> , 2016, 329, 337-348.	1.1	25
46	Depression and inflammation: Correlation between changes in inflammatory markers with antidepressant response and long-term prognosis. <i>European Neuropsychopharmacology</i> , 2022, 54, 116-125.	0.3	25
47	Isolation-induced behavioural changes in a genetic animal model of depression. <i>Behavioural Brain Research</i> , 2012, 230, 85-91.	1.2	24
48	Rapid effects of S-ketamine on the morphology of hippocampal astrocytes and BDNF serum levels in a sex-dependent manner. <i>European Neuropsychopharmacology</i> , 2020, 32, 94-103.	0.3	24
49	Mitochondria Are Critical for BDNF-Mediated Synaptic and Vascular Plasticity of Hippocampus following Repeated Electroconvulsive Seizures. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 291-304.	1.0	23
50	Use of Near Infrared Spectroscopy for Estimation of Peripheral Venous Saturation in Newborns: Comparison with Co-Oximetry of Central Venous Blood. <i>Neonatology</i> , 2002, 82, 1-8.	0.9	22
51	The Schizophrenia and Bipolar Disorder associated BRD1 gene is regulated upon chronic restraint stress. <i>European Neuropsychopharmacology</i> , 2012, 22, 651-656.	0.3	22
52	Transient activation of mTOR following forced treadmill exercise in rats. <i>Synapse</i> , 2013, 67, 620-625.	0.6	22
53	Airway exposure to multi-walled carbon nanotubes disrupts the female reproductive cycle without affecting pregnancy outcomes in mice. <i>Particle and Fibre Toxicology</i> , 2017, 14, 17.	2.8	22
54	Plasma brain-derived neurotrophic factor and prefrontal white matter integrity in late-onset depression and normal aging. <i>Acta Psychiatrica Scandinavica</i> , 2013, 128, 387-396.	2.2	21

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55	Neuroimaging of the serotonin reuptake site requires high-affinity ligands. <i>Synapse</i> , 2007, 61, 882-888.	0.6	20
56	Potential roles for Homer1 and Spinophilin in the preventive effect of electroconvulsive seizures on stress-induced CA3c dendritic retraction in the hippocampus. <i>European Neuropsychopharmacology</i> , 2015, 25, 1324-1331.	0.3	18
57	Electroconvulsive seizures regulates the Brd1 gene in the frontal cortex and hippocampus of the adult rat. <i>Neuroscience Letters</i> , 2012, 516, 110-113.	1.0	17
58	Hybrid molecules inhibiting myeloperoxidase activity and serotonin reuptake: a possible new approach of major depressive disorders with inflammatory syndrome. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 1122-1132.	1.2	17
59	A Critical Role of Mitochondria in BDNF-Associated Synaptic Plasticity After One-Week Vortioxetine Treatment. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 603-615.	1.0	16
60	An inhibitor of cAMP-dependent protein kinase induces behavioural and neurological antidepressant-like effects in rats. <i>Neuroscience Letters</i> , 2011, 498, 158-161.	1.0	15
61	The expression of plasticity-related genes in an acute model of stress is modulated by chronic desipramine in a time-dependent manner within medial prefrontal cortex. <i>European Neuropsychopharmacology</i> , 2017, 27, 19-28.	0.3	14
62	Esketamine and rapastinel, but not imipramine, have antidepressant-like effect in a treatment-resistant animal model of depression. <i>Acta Neuropsychiatrica</i> , 2019, 31, 258-265.	1.0	14
63	Chronic exposure to low doses of lipopolysaccharide and high-fat feeding increases body mass without affecting glucose tolerance in female rats. <i>Physiological Reports</i> , 2015, 3, e12584.	0.7	13
64	Novel bis-arylalkylamines as myeloperoxidase inhibitors: Design, synthesis, and structure-activity relationship study. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 746-762.	2.6	13
65	TNF α -dependent anhedonia and upregulation of hippocampal serotonin transporter activity in a mouse model of collagen-induced arthritis. <i>Neuropharmacology</i> , 2018, 137, 211-220.	2.0	12
66	Ketamine and aminoguanidine differentially affect Bdnf and Mtor gene expression in the prefrontal cortex of adult male rats. <i>European Journal of Pharmacology</i> , 2017, 815, 304-311.	1.7	11
67	Gene expression related to serotonergic and glutamatergic neurotransmission is altered in the flinders sensitive line rat model of depression: Effect of ketamine. <i>Synapse</i> , 2017, 71, 37-45.	0.6	11
68	Hemisphere-dependent endocannabinoid system activity in prefrontal cortex and hippocampus of the Flinders Sensitive Line rodent model of depression. <i>Neurochemistry International</i> , 2019, 125, 7-15.	1.9	10
69	The neurobiology of social deficits in female patients with borderline personality disorder: The importance of oxytocin. <i>Personality and Mental Health</i> , 2017, 11, 91-100.	0.6	9
70	Increased prefrontal cortex interleukin-2 protein levels and shift in the peripheral T cell population in progressive supranuclear palsy patients. <i>Scientific Reports</i> , 2019, 9, 7781.	1.6	9
71	A Gene-Environment Study of Cytochrome in the Human and Rat Hippocampus. <i>PLoS ONE</i> , 2013, 8, e63288.	1.1	9
72	Influence of diurnal phase on startle response in adult rats exposed to dexamethasone in utero. <i>Physiology and Behavior</i> , 2011, 102, 444-452.	1.0	8

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73	Neuroplasticity pathways and protein-interaction networks are modulated by vortioxetine in rodents. BMC Neuroscience, 2017, 18, 56.	0.8	8
74	Preclinical PET Studies of [¹¹ C]UCB-J Binding in Minipig Brain. Molecular Imaging and Biology, 2020, 22, 1290-1300.	1.3	8
75	A Long-Term Energy-Rich Diet Increases Prefrontal BDNF in Sprague-Dawley Rats. Nutrients, 2022, 14, 126.	1.7	8
76	Chronic restraint stress increases the protein expression of VEGF and its receptor VEGFR-2 in the prefrontal cortex. Synapse, 2015, 69, 190-194.	0.6	7
77	DNA methylation of the KLK8 gene in depression symptomatology. Clinical Epigenetics, 2021, 13, 200.	1.8	7
78	Vortioxetine ameliorates anhedonic-like behaviour and promotes strategic cognitive performance in a rodent touchscreen task. Scientific Reports, 2021, 11, 9113.	1.6	6
79	Gas phase production of [¹¹ C]methyl iodide-d ₃ . Synthesis and biological evaluation of S-[N-methyl- ¹¹ C]citalopram and deuterated analogues. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 335-348.	0.5	5
80	The association between norepinephrine and metabolism in patients with major depression. Neurology Psychiatry and Brain Research, 2018, 30, 91-97.	2.0	4
81	Structural Plasticity and Molecular Markers in Hippocampus of Male Rats after Acute Stress. Neuroscience, 2020, 438, 100-115.	1.1	4
82	Dysregulation of miR-185, miR-193a, and miR-450a in the skin are linked to the depressive phenotype. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 104, 110052.	2.5	4
83	Binding of S-citalopram and paroxetine discriminates between species. Synapse, 2005, 55, 280-282.	0.6	3
84	Chronic restraint stress affects serotonin transporter uptake kinetics but not binding sites in the rat hippocampus. Synapse, 2012, 66, 270-272.	0.6	3
85	P.2.e.001 Differentiated antidepressant-like profiles of ketamine, fluoxetine and vortioxetine in Flinders Sensitive Line (FSL) rats depleted of endogenous 5-HT. European Neuropsychopharmacology, 2015, 25, S431.	0.3	3
86	Predosing with the unlabeled inactive enantiomer as a tool for improvement of the PET signal. Synapse, 2002, 46, 125-127.	0.6	2
87	Synthesis and biological evaluation of [¹²⁵ I]/[¹²³ I]-labelled analogues of citalopram and escitalopram as potential radioligands for imaging of the serotonin transporter. Journal of Labelled Compounds and Radiopharmaceuticals, 2011, 54, 185-190.	0.5	2
88	Exploring the sortilin related receptor, SorLA, in depression. Journal of Affective Disorders, 2018, 232, 260-267.	2.0	2
89	Investigation of Synaptic Vesicle Proteins in Rat Brain Tissue Using Real-Time qPCR. Methods in Molecular Biology, 2022, 2417, 59-68.	0.4	2
90	PS202. The regulation of orexins and their cognate receptors in two distinct rat models of depression and effects of treatments. International Journal of Neuropsychopharmacology, 2016, 19, 74-74.	1.0	1

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91	P.1.i.005 Differential BDNF levels in a genetic rat model of depression. European Neuropsychopharmacology, 2008, 18, S290-S291.	0.3	0
92	P.1.i.007 Differential brain, but not serum vascular endothelial growth factor levels in a genetic rat model of depression. European Neuropsychopharmacology, 2008, 18, S291-S292.	0.3	0
93	The regulation of orexins and their cognate receptors in two distinct rat models of depression and effects of treatments. European Psychiatry, 2017, 41, S367-S367.	0.1	0
94	Intramuscular BoNT/A injections cause an inflammatory response in the muscle tissue of rats. European Journal of Inflammation, 2021, 19, 205873922110399.	0.2	0