Esa R Korpi

List of Publications by Year
in descending order

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124 papers	5,275 citations	87843 38 h-index	95218 68 g-index
129 all docs	129 docs citations	129 times ranked	5379 citing authors

#	Article	IF	Citations
1	Drug interactions at GABAA receptors. Progress in Neurobiology, 2002, 67, 113-159.	2.8	445
2	Long-lasting Modulation of Glutamatergic Transmission in VTA Dopamine Neurons after a Single Dose of Benzodiazepine Agonists. Neuropsychopharmacology, 2009, 34, 290-298.	2.8	340
3	Benzodiazepine-induced motor impairment linked to point mutation in cerebeilar GABAA receptor. Nature, 1993, 361, 356-359.	13.7	241
4	Regulation of GABA_AReceptor Subunit Expression by Pharmacological Agents. Pharmacological Reviews, 2010, 62, 97-135.	7.1	182
5	Biological function of GABAA/benzodiazepine receptor heterogeneity. Journal of Psychiatric Research, 1995, 29, 77-94.	1.5	133
6	Mechanisms of Action and Persistent Neuroplasticity by Drugs of Abuse. Pharmacological Reviews, 2015, 67, 872-1004.	7.1	125
7	Modifying the Subunit Composition of TASK Channels Alters the Modulation of a Leak Conductance in Cerebellar Granule Neurons. Journal of Neuroscience, 2005, 25, 11455-11467.	1.7	124
8	GABA_AReceptor Îµ and Î¸ Subunits Display Unusual Structural Variation between Species and Are Enriched in the Rat Locus Ceruleus. Journal of Neuroscience, 2000, 20, 3588-3595.	1.7	120
9	GABAA receptor subtypes as targets for neuropsychiatric drug development. , 2006, 109, 12-32.		112
10	From synapse to behavior: rapid modulation of defined neuronal types with engineered GABAA receptors. Nature Neuroscience, 2007, 10, 923-929.	7.1	108
11	Long-term cognitive and neurochemical effects of â€œbath saltâ€•designer drugs methylone and mephedrone. Pharmacology Biochemistry and Behavior, 2013, 103, 501-509.	1.3	101
12	TASK-3 Knockout Mice Exhibit Exaggerated Nocturnal Activity, Impairments in Cognitive Functions, and Reduced Sensitivity to Inhalation Anesthetics. Journal of Pharmacology and Experimental Therapeutics, 2007, 323, 924-934.	1.3	95
13	Morphine-Induced Dependence and Sensitization Are Altered in Mice Deficient in AMPA-Type Glutamate Receptor-A Subunits. Journal of Neuroscience, 2001, 21, 4451-4459.	1.7	94
14	GABA_A-receptor Subtypes: Clinical Efficacy and Selectivity of Benzodiazepine Site Ligands. Annals of Medicine, 1997, 29, 275-282.	1.5	86
15	Diazepam-insensitive [3H]Ro 15-4513 binding in intact cultured cerebellar granule cells. European Journal of Pharmacology, 1989, 169, 53-60.	1.7	83
16	Cerebellar granule-cell-specific GABAAreceptors attenuate benzodiazepine-induced ataxia: evidence from Î±6-subunit-deficient mice. European Journal of Neuroscience, 1999, 11, 233-240.	1.2	82
17	The in Vivo Contributions of TASK-1-Containing Channels to the Actions of Inhalation Anesthetics, the Î±2 Adrenergic Sedative Dexmedetomidine, and Cannabinoid Agonists. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 615-626.	1.3	82
18	Does ethanol act preferentially via selected brain GABAA receptor subtypes? the current evidence is ambiguous. Alcohol, 2007, 41, 163-176.	0.8	81

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19	Antinociception by Spinal and Systemic Oxycodone: Why Does the Route Make a Difference?. Anesthesiology, 2006, 105, 801-812.	1.3	79
20	Furosemide interactions with brain GABAA receptors. British Journal of Pharmacology, 1997, 120, 741-748.	2.7	71
21	Acute Effects of Ethanol on Glutamate Receptors. Basic and Clinical Pharmacology and Toxicology, 2012, 111, 4-13.	1.2	71
22	Alcohol drinking is reduced by a Î¼1- but not by a Î´-opioid receptor antagonist in alcohol-preferring rats. European Journal of Pharmacology, 1996, 304, 7-13.	1.7	70
23	Natural mutation of GABAA receptor Î±6 subunit alters benzodiazepine affinity but not allosteric GABA effects. European Journal of Pharmacology, 1993, 247, 23-27.	2.7	68
24	Ethanol Inhibits Î±-Amino-3-hydyroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptor Function in Central Nervous System Neurons by Stabilizing Desensitization. Journal of Pharmacology and Experimental Therapeutics, 2003, 306, 546-555.	1.3	67
25	Neurotoxicity of Ammonia. Neurochemical Research, 2017, 42, 713-720.	1.6	66
26	Benzodiazepine receptor ligands modulate ethanol drinking in alcohol-preferring rats. European Journal of Pharmacology, 1994, 263, 141-147.	1.7	63
27	Prototypic GABAA Receptor Agonist Muscimol Acts Preferentially Through Forebrain High-Affinity Binding Sites. Neuropsychopharmacology, 2010, 35, 999-1007.	2.8	63
28	EFFECTS OF ARIPIPRAZOLE ON ALCOHOL INTAKE IN AN ANIMAL MODEL OF HIGH-ALCOHOL DRINKING. Alcohol and Alcoholism, 2006, 41, 391-398.	0.9	61
29	Cerebellar Î³-Aminobutyric Acid Type A Receptors: Pharmacological Subtypes Revealed by Mutant Mouse Lines. Molecular Pharmacology, 1997, 52, 380-388.	1.0	59
30	Isoform-Specific Early Trafficking of AMPA Receptor Flip and Flop Variants. Journal of Neuroscience, 2006, 26, 11220-11229.	1.7	58
31	Decreased binding of [11C]flumazenil in Angelman syndrome patients with GABAA receptor ?3 subunit deletions. Annals of Neurology, 2001, 49, 110-113.	2.8	54
32	Î±1 Subunit-Containing GABA Type A Receptors in Forebrain Contribute to the Effect of Inhaled Anesthetics on Conditioned Fear. Molecular Pharmacology, 2005, 68, 61-68.	1.0	53
33	Impact of epsilon and theta subunits on pharmacological properties of alpha3beta1 GABAA receptors expressed in Xenopus oocytes. BMC Pharmacology, 2006, 6, 1.	0.4	51
34	Gene Expression Alterations in the Cerebellum and Granule Neurons of Cstbâ^'/â^' Mouse Are Associated with Early Synaptic Changes and Inflammation. PLoS ONE, 2014, 9, e89321.	1.1	48
35	Receptor Subtype-Dependent Positive and Negative Modulation of GABAA Receptor Function by Niflumic Acid, a Nonsteroidal Anti-Inflammatory Drug. Molecular Pharmacology, 2003, 64, 753-763.	1.0	43
36	The Impact of Sub-Cellular Location and Intracellular Neuronal Proteins on Properties of GABAA Receptors. Current Pharmaceutical Design, 2007, 13, 3169-3177.	0.9	42

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37	Histamine and H3 receptor-dependent mechanisms regulate ethanol stimulation and conditioned place preference in mice. Psychopharmacology, 2010, 208, 75-86.	1.5	42
38	Activity of BKCa Channel Is Modulated by Membrane Cholesterol Content and Association with Na+/K+-ATPase in Human Melanoma IGR39 Cells. Journal of Biological Chemistry, 2011, 286, 5624-5638.	1.6	42
39	Selective increases of AMPA, NMDA, and kainate receptor subunit mRNAs in the hippocampus and orbitofrontal cortex but not in prefrontal cortex of human alcoholics. Frontiers in Cellular Neuroscience, 2014, 8, 11.	1.8	41
40	A Liquid Chromatographic Assay for 5â€Hydroxytryptophan, Serotonin and 5â€Hydroxyindoleacetic Acid in Human Body Fluids. Acta Pharmacologica Et Toxicologica, 1982, 51, 421-427.	0.0	40
41	Enhanced morphine- and cocaine-induced behavioral sensitization in alcohol-preferring AA rats. Psychopharmacology, 1999, 142, 244-252.	1.5	38
42	Morphineâ€“nicotine interaction in conditioned place preference in mice after chronic nicotine exposure. European Journal of Pharmacology, 2008, 587, 169-174.	1.7	38
43	Excessive novelty-induced c-Fos expression and altered neurogenesis in the hippocampus of GluA1 knockout mice. European Journal of Neuroscience, 2011, 33, 161-174.	1.2	38
44	Agonist Occupancy Is Essential for Forward Trafficking of AMPA Receptors. Journal of Neuroscience, 2009, 29, 303-312.	1.7	36
45	GABA Site Agonist Gaboxadol Induces Addiction-Predicting Persistent Changes in Ventral Tegmental Area Dopamine Neurons But Is Not Rewarding in Mice or Baboons. Journal of Neuroscience, 2012, 32, 5310-5320.	1.7	36
46	Acute effects of AMPA-type glutamate receptor antagonists on intermale social behavior in two mouse lines bidirectionally selected for offensive aggression. Pharmacology Biochemistry and Behavior, 2007, 87, 241-249.	1.3	35
47	Neurosteroid Agonist at GABAA Receptor Induces Persistent Neuroplasticity in VTA Dopamine Neurons. Neuropsychopharmacology, 2014, 39, 727-737.	2.8	35
48	Keto Amphetamine Toxicityâ€”Focus on the Redox Reactivity of the Cathinone Designer Drug Mephedrone. Toxicological Sciences, 2014, 141, 120-131.	1.4	35
49	Failure of Ro 15-4513 to antagonize ethanol in rat lines selected for differential sensitivity to ethanol and in wistar rats. Pharmacology Biochemistry and Behavior, 1988, 30, 183-188.	1.3	34
50	Xenon Does Not Affect Î³-Aminobutyric Acid Type A Receptor Binding in Humans. Anesthesia and Analgesia, 2008, 106, 129-134.	1.1	33
51	Removal of GABAA Receptor Î³2 Subunits from Parvalbumin Neurons Causes Wide-Ranging Behavioral Alterations. PLoS ONE, 2011, 6, e24159.	1.1	33
52	Chronic Treatment with Mood-Stabilizers Attenuates Abnormal Hyperlocomotion of GluA1-Subunit Deficient Mice. PLoS ONE, 2014, 9, e100188.	1.1	33
53	Selective Changes of GABAA Channel Subunit mRNAs in the Hippocampus and Orbitofrontal Cortex but not in Prefrontal Cortex of Human Alcoholics. Frontiers in Cellular Neuroscience, 2011, 5, 30.	1.8	32
54	Expression of specific ionotropic glutamate and GABA-A receptor subunits is decreased in central amygdala of alcoholics. Frontiers in Cellular Neuroscience, 2014, 8, 288.	1.8	32

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55	Enhanced behavioral sensitivity to the competitive GABA agonist, gaboxadol, in transgenic mice over-expressing hippocampal extrasynaptic Î±6Î² GABAAreceptors. Journal of Neurochemistry, 2008, 105, 338-350.	2.1	31
56	Evidence for a role of inhibition of orexinergic neurons in the anxiolytic and sedative effects of diazepam: A c-Fos study. Pharmacology Biochemistry and Behavior, 2012, 101, 115-124.	1.3	31
57	Mitochondrial respiratory dysfunction due to the conversion of substituted cathinones to methylbenzamides in SH-SY5Y cells. Scientific Reports, 2015, 5, 14924.	1.6	31
58	DECOMPRESSIVE CRANIECTOMY FOR INTRACEREBRAL HEMORRHAGE. Neurosurgery, 2009, 65, 780-786.	0.6	29
59	Ligand-binding Domain Determines Endoplasmic Reticulum Exit of AMPA Receptors. Journal of Biological Chemistry, 2010, 285, 36032-36039.	1.6	29
60	Addictionâ€related interactions of pregabalin with morphine in mice and humans: reinforcing and inhibiting effects. Addiction Biology, 2018, 23, 945-958.	1.4	28
61	Rapid Formation of Reduced Haloperidol in Guinea Pigs Following Haloperidol Administration. Acta Pharmacologica Et Toxicologica, 1985, 56, 94-98.	0.0	27
62	Pharmacologic actions of subtype-selective and novel GABAergic ligands in rat lines with differential sensitivity to ethanol. Pharmacology Biochemistry and Behavior, 1996, 53, 723-730.	1.3	26
63	Ro 15-4513 Antagonizes Alcohol-Induced Sedation in Mice Through Î±Î²Î³2-type GABAA Receptors. Frontiers in Neuroscience, 2011, 5, 3.	1.4	26
64	Assembly of functional Î±6Î²3Î³2Î´ GABAA receptors in vitro. NeuroReport, 2000, 11, 4103-4106.	0.6	23
65	Behavioural correlates of an altered balance between synaptic and extrasynaptic GABAAergic inhibition in a mouse model. European Journal of Neuroscience, 2004, 20, 2168-2178.	1.2	23
66	K+ Channel TASK-1 Knockout Mice Show Enhanced Sensitivities to Ataxic and Hypnotic Effects of GABAA Receptor Ligands. Journal of Pharmacology and Experimental Therapeutics, 2008, 327, 277-286.	1.3	23
67	GABAA receptor drugs and neuronal plasticity in reward and aversion: focus on the ventral tegmental area. Frontiers in Pharmacology, 2014, 5, 256.	1.6	23
68	GABA-A and NMDA receptor subunit mRNA expression is altered in the caudate but not the putamen of the postmortem brains of alcoholics. Frontiers in Cellular Neuroscience, 2014, 8, 415.	1.8	21
69	Selective d-opioid receptor antagonist N,N(CH 3) 2 -Dmt-Tic-OH does not reduce ethanol intake in alcohol-preferring AA rats. Addiction Biology, 2003, 8, 173-179.	1.4	20
70	Characterization of Î³-aminobutyrate type A receptors with atypical coupling between agonist and convulsant binding sites in discrete brain regions. Molecular Brain Research, 2001, 86, 168-178.	2.5	19
71	Morphine withdrawal increases expression of GABAA receptor Îµ subunit mRNA in locus coeruleus neurons. NeuroReport, 2001, 12, 2981-2985.	0.6	19
72	Brain regional Î¼-opioid receptor function in rat lines selected for differences in alcohol preference. European Journal of Pharmacology, 2002, 448, 157-163.	1.7	19

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73	Autoradiographic imaging of altered synaptic Î±Î²Î³2 and extrasynaptic Î±Î² GABAA receptors in a genetic mouse model of anxiety. Neurochemistry International, 2004, 44, 539-547.	1.9	19
74	Brain regional distribution of GABAA receptors exhibiting atypical GABA agonism: Roles of receptor subunits. Neurochemistry International, 2009, 55, 389-396.	1.9	18
75	Dopaminergic-GABAergic interplay and alcohol binge drinking. Pharmacological Research, 2019, 141, 384-391.	3.1	18
76	Coupling between agonist and chloride ionophore sites of the GABAA receptor: agonist/antagonist efficacy of 4-PIOL. European Journal of Pharmacology, 2000, 409, 233-242.	1.7	17
77	Increased behavioral neurosteroid sensitivity in a rat line selectively bred for high alcohol sensitivity. European Journal of Pharmacology, 2001, 421, 31-38.	1.7	17
78	GABAA antagonists reveal binding sites for [35S]TBPS in cerebellar granular cell layer. European Journal of Pharmacology, 1992, 211, 427-428.	1.7	16
79	Importance of GluA1 Subunit-Containing AMPA Glutamate Receptors for Morphine State-Dependency. PLoS ONE, 2012, 7, e38325.	1.1	16
80	Phenotypic and Genotypic Analysis of Rats with Cerebellar GABAA Receptors Composed from Mutant and Wild-Type Î±6 Subunits. Journal of Neurochemistry, 2002, 65, 2401-2408.	2.1	15
81	Alcohol drinking of alcohol-preferring AA rats is differentially affected by clozapine and olanzapine. European Journal of Pharmacology, 2006, 534, 133-140.	1.7	15
82	Ethanol increases desensitization of recombinant GluR-D AMPA receptor and TARP combinations. Alcohol, 2009, 43, 277-284.	0.8	15
83	Mechanisms of Alcohol Intoxication in a Rodent Model: Blunted Alcohol-Opposing Reaction in â€œAlcohol-Sensitiveâ€•Rats. Annals of Medicine, 1990, 22, 253-258.	1.5	14
84	Lifelong ethanol consumption and brain regional GABAA receptor subunit mRNA expression in alcohol-preferring rats. Alcohol, 2006, 40, 159-166.	0.8	14
85	Continuous delivery of naltrexone and nalmefene leads to tolerance in reducing alcohol drinking and to supersensitivity of brain opioid receptors. Addiction Biology, 2017, 22, 1022-1035.	1.4	14
86	AMPA/kainate receptor-mediated up-regulation of GABAA receptor Î´ subunit mRNA expression in cultured rat cerebellar granule cells is dependent on NMDA receptor activation. Brain Research, 2006, 1087, 33-40.	1.1	13
87	GABA B receptor positive allosteric modulators with different efficacies affect neuroadaptation to and selfâ€administration of alcohol and cocaine. Addiction Biology, 2019, 24, 1191-1203.	1.4	13
88	Autoinactivation of the Stargazinâ€“AMPA Receptor Complex: Subunit-Dependency and Independence from Physical Dissociation. PLoS ONE, 2012, 7, e49282.	1.1	13
89	Cerebellar GABAA receptors and anxiolytic action of diazepam. Brain Research, 1999, 837, 184-187.	1.1	12
90	Altered atypical coupling of Î³-aminobutyrate type A receptor agonist and convulsant binding sites in subunit-deficient mouse lines. Molecular Brain Research, 2001, 86, 179-183.	2.5	12

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91	Reduced benzodiazepine tolerance, but increased flumazenil-precipitated withdrawal in AMPA-receptor GluR-A subunit-deficient mice. Pharmacology Biochemistry and Behavior, 2009, 92, 283-290.	1.3	12
92	Ethanol: Novel Actions on Nerve Cell Physiology Explain Impaired Functions. Physiology, 1998, 13, 164-170.	1.6	11
93	Human locus coeruleus neurons express the GABAA receptor Î³2 subunit gene and produce benzodiazepine binding. Neuroscience Letters, 2010, 477, 77-81.	1.0	11
94	Reversal of novelty-induced hippocampal c-Fos expression in GluA1 subunit-deficient mice by chronic treatment targeting glutamatergic transmission. European Journal of Pharmacology, 2014, 745, 36-45.	1.7	11
95	Attenuation of Novelty-Induced Hyperactivity of Gria1-/- Mice by Cannabidiol and Hippocampal Inhibitory Chemogenetics. Frontiers in Pharmacology, 2019, 10, 309.	1.6	11
96	Effects of acute lysergic acid diethylamide on intermittent ethanol and sucrose drinking and intracranial self-stimulation in C57BL/6 mice. Journal of Psychopharmacology, 2022, 36, 860-874.	2.0	11
97	Analysis of the Potential Role of GluA4 Carboxyl-Terminus in PDZ Interactions. PLoS ONE, 2010, 5, e8715.	1.1	9
98	Heterogeneous somatostatin-expressing neuron population in mouse ventral tegmental area. ELife, 2020, 9, .	2.8	9
99	Kainate down-regulates a subset of GABAA receptor subunits expressed in cultured mouse cerebellar granule cells. Cerebellum, 2004, 3, 27-28.	1.4	8
100	Conditioned Reward of Opioids, but not Psychostimulants, is Impaired in GABAâ€A Receptor Î´ Subunit Knockout Mice. Basic and Clinical Pharmacology and Toxicology, 2018, 123, 558-566.	1.2	8
101	Increased brain histamine in an alcoholâ€preferring rat line, and modulation of ethanol consumption by H3receptor mechanisms. FASEB Journal, 2001, 15, 1074-1076.	0.2	8
102	Acute Lysergic Acid Diethylamide Does Not Influence Reward-Driven Decision Making of C57BL/6 Mice in the Iowa Gambling Task. Frontiers in Pharmacology, 2020, 11, 602770.	1.6	7
103	Increased Sensitivity of Mice Lacking Extrasynaptic Î´-Containing GABAA Receptors to Histamine Receptor 3 Antagonists. Frontiers in Pharmacology, 2020, 11, 594.	1.6	7
104	Tolerance to diazepam-induced motor impairment: a study with GABAA receptor alpha6 subunit knockout mice. Neurochemical Research, 2003, 28, 757-764.	1.6	6
105	Compensation by reduced L-Î±-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor responses in a mouse model with reduced Î³-aminobutyric acid type A receptor-mediated synaptic inhibition. Journal of Neuroscience Research, 2007, 85, 668-672.	1.3	6
106	Actions of two GABAA receptor benzodiazepine-site ligands that are mediated via non-Î³2-dependent modulation. European Journal of Pharmacology, 2011, 666, 111-121.	1.7	6
107	Increased Motor-Impairing Effects of the Neuroactive Steroid Pregnanolone in Mice with Targeted Inactivation of the GABAA Receptor Î³2 Subunit in the Cerebellum. Frontiers in Pharmacology, 2016, 7, 403.	1.6	6
108	Do antiepileptics phenytoin, carbamazepine, and loreclezole show GABA(A) receptor subtype selectivity in rat brain sections?. Neurochemical Research, 2001, 26, 89-94.	1.6	5

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109	Multiple actions of fenamates and other nonsteroidal anti-inflammatory drugs on GABAA receptors. European Journal of Pharmacology, 2019, 853, 247-255.	1.7	4
110	Mice Lacking GABAA Receptor Î´ Subunit Have Altered Pharmaco-EEG Responses to Multiple Drugs. Frontiers in Pharmacology, 2021, 12, 706894.	1.6	4
111	Chronic ethanol treatment and GABA A receptor a6 subunit gene expression: a study using a6 subunit-deficient mice. Addiction Biology, 2000, 5, 463-467.	1.4	3
112	Reduced Adrenal Activation in a Rat Line Selected for High Alcohol Sensitivity. Alcoholism: Clinical and Experimental Research, 2002, 26, 1344-1349.	1.4	3
113	Manganese-Enhanced Magnetic Resonance Imaging Reveals Differential Long-Term Neuroadaptation After Methamphetamine and the Substituted Cathinone 4-Methylmethcathinone (Mephedrone). International Journal of Neuropsychopharmacology, 2015, 18, pyu106-pyu106.	1.0	3
114	Effects of Ethanol on Recombinant Rat GABA_A Receptors: [³⁵S]tâ€Butylbicyclophosphorothionate ([³⁵S]TBPS) Binding Study. Basic and Clinical Pharmacology and Toxicology, 1995, 77, 87-90.	0.0	2
115	Evidence for a Reduction of Coupling between GABAA Receptor Agonist and Ionophore Binding Sites by Inorganic Phosphate. Neurochemical Research, 2005, 30, 1471-1482.	1.6	2
116	Conditioned Aversion and Neuroplasticity Induced by a Superagonist of Extrasynaptic GABAA Receptors: Correlation With Activation of the Oval BNST Neurons and CRF Mechanisms. Frontiers in Molecular Neuroscience, 2019, 12, 130.	1.4	2
117	Normal extinction and reinstatement of morphine-induced conditioned place preference in the GluA1-KO mouse line. Behavioural Pharmacology, 2019, 30, 405-411.	0.8	2
118	Finnish neuroscience from past to present. European Journal of Neuroscience, 2020, 52, 3273-3289.	1.2	2
119	Simo S. Oja â€“ Amino Acids All along as Building Blocks of Brain and Life. Neurochemical Research, 2005, 30, 1463-1464.	1.6	1
120	Electrophysiological Properties of Neurons: Current-Clamp Recordings in Mouse Brain Slices and Firing-Pattern Analysis. Bio-protocol, 2021, 11, e4061.	0.2	1
121	Alcohol Co-Administration Changes Mephedrone-Induced Alterations of Neuronal Activity. Frontiers in Pharmacology, 2021, 12, 679759.	1.6	1
122	S02-3PERSISTENT NEUROPLASTICITY IN VTA DA NEURONS INDUCED BY ALCOHOL AND GABA DRUGS. Alcohol and Alcoholism, 2017, 52, i4-i30.	0.9	0
123	Reduced Adrenal Activation in a Rat Line Selected for High Alcohol Sensitivity. Alcoholism: Clinical and Experimental Research, 2002, 26, 1344-1349.	1.4	0
124	Addiction as an adaptation process in the brain, a view from neurobiology. The International Journal of Alcohol and Drug Research, 2015, 4, 91-94.	0.9	0