

Uwe Rudolph

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75
papers

7,948
citations

36
h-index

86
g-index

86
ext. papers

8,869
ext. citations

9.5
avg, IF

5.97
L-index

#	Paper	IF	Citations
75	Benzodiazepine actions mediated by specific gamma-aminobutyric acid(A) receptor subtypes. <i>Nature</i> , 1999 , 401, 796-800	50.4	1027
74	Molecular and neuronal substrate for the selective attenuation of anxiety. <i>Science</i> , 2000 , 290, 131-4	33.3	785
73	Molecular and neuronal substrates for general anaesthetics. <i>Nature Reviews Neuroscience</i> , 2004 , 5, 709-20.5	20.5	575
72	General anesthetic actions in vivo strongly attenuated by a point mutation in the GABA(A) receptor beta3 subunit. <i>FASEB Journal</i> , 2003 , 17, 250-2	0.9	478
71	Beyond classical benzodiazepines: novel therapeutic potential of GABAA receptor subtypes. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 685-97	64.1	475
70	Analysis of GABAA receptor function and dissection of the pharmacology of benzodiazepines and general anesthetics through mouse genetics. <i>Annual Review of Pharmacology and Toxicology</i> , 2004 , 44, 475-98	17.9	459
69	GABA-based therapeutic approaches: GABAA receptor subtype functions. <i>Current Opinion in Pharmacology</i> , 2006 , 6, 18-23	5.1	379
68	Specific GABAA circuits for visual cortical plasticity. <i>Science</i> , 2004 , 303, 1681-3	33.3	373
67	Reversal of pathological pain through specific spinal GABAA receptor subtypes. <i>Nature</i> , 2008 , 451, 330-450.4	50.4	337
66	Mechanism of action of the hypnotic zolpidem in vivo. <i>British Journal of Pharmacology</i> , 2000 , 131, 1251-48.6	48.6	228
65	GABAA receptor subtypes: Therapeutic potential in Down syndrome, affective disorders, schizophrenia, and autism. <i>Annual Review of Pharmacology and Toxicology</i> , 2014 , 54, 483-507	17.9	220
64	Molecular targets for the myorelaxant action of diazepam. <i>Molecular Pharmacology</i> , 2001 , 59, 442-5	4.3	180
63	Pharmacology of recombinant gamma-aminobutyric acidA receptors rendered diazepam-insensitive by point-mutated alpha-subunits. <i>FEBS Letters</i> , 1998 , 431, 400-4	3.8	145
62	Specific subtypes of GABAA receptors mediate phasic and tonic forms of inhibition in hippocampal pyramidal neurons. <i>Journal of Neurophysiology</i> , 2006 , 96, 846-57	3.2	133
61	Molecular determinants for the action of general anesthetics at recombinant alpha(2)beta(3)gamma(2)gamma-aminobutyric acid(A) receptors. <i>Journal of Neurochemistry</i> , 2002 , 80, 140-8	6	117
60	Requirement of alpha5-GABAA receptors for the development of tolerance to the sedative action of diazepam in mice. <i>Journal of Neuroscience</i> , 2004 , 24, 6785-90	6.6	115
59	Regulating anxiety with extrasynaptic inhibition. <i>Nature Neuroscience</i> , 2015 , 18, 1493-500	25.5	110

58	GABA receptors containing the alpha5 subunit mediate the trace effect in aversive and appetitive conditioning and extinction of conditioned fear. <i>European Journal of Neuroscience</i> , 2004 , 20, 1928-36	3.5	110
57	An Emerging Circuit Pharmacology of GABA Receptors. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 710-732	13.2	93
56	Independent assembly and subcellular targeting of GABA(A)-receptor subtypes demonstrated in mouse hippocampal and olfactory neurons in vivo. <i>Neuroscience Letters</i> , 1998 , 249, 99-102	3.3	89
55	Genuine antihyperalgesia by systemic diazepam revealed by experiments in GABA _A receptor point-mutated mice. <i>Pain</i> , 2009 , 141, 233-238	8	88
54	Presynaptic alpha2-GABA _A receptors in primary afferent depolarization and spinal pain control. <i>Journal of Neuroscience</i> , 2011 , 31, 8134-42	6.6	85
53	Dynamic GABA(A) receptor subtype-specific modulation of the synchrony and duration of thalamic oscillations. <i>Journal of Neuroscience</i> , 2003 , 23, 3649-57	6.6	77
52	GABA _A receptor alpha5 subunits contribute to GABA _A , slow synaptic inhibition in mouse hippocampus. <i>Journal of Neurophysiology</i> , 2009 , 101, 1179-91	3.2	76
51	Analgesia and unwanted benzodiazepine effects in point-mutated mice expressing only one benzodiazepine-sensitive GABA _A receptor subtype. <i>Nature Communications</i> , 2015 , 6, 6803	17.4	69
50	Antidepressant-like properties of δ -containing GABA(A) receptors. <i>Behavioural Brain Research</i> , 2011 , 217, 77-80	3.4	68
49	Benzodiazepine-induced anxiolysis and reduction of conditioned fear are mediated by distinct GABA _A receptor subtypes in mice. <i>Neuropharmacology</i> , 2012 , 63, 250-8	5.5	65
48	Alteration of GABAergic synapses and gephyrin clusters in the thalamic reticular nucleus of GABA _A receptor alpha3 subunit-null mice. <i>European Journal of Neuroscience</i> , 2006 , 24, 1307-15	3.5	64
47	Analysis of the presence and abundance of GABA _A receptors containing two different types of alpha subunits in murine brain using point-mutated alpha subunits. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43654-60	5.4	57
46	A gain in GABA _A receptor synaptic strength in thalamus reduces oscillatory activity and absence seizures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7630-5	11.5	50
45	Mutational analysis of molecular requirements for the actions of general anaesthetics at the gamma-aminobutyric acid A receptor subtype, alpha1beta2gamma2. <i>BMC Pharmacology</i> , 2003 , 3, 13		49
44	Tonic Inhibitory Control of Dentate Gyrus Granule Cells by δ -Containing GABA _A Receptors Reduces Memory Interference. <i>Journal of Neuroscience</i> , 2015 , 35, 13698-712	6.6	48
43	Resolving differences in GABA _A receptor mutant mouse studies. <i>Nature Neuroscience</i> , 2000 , 3, 1059	25.5	48
42	Modulation of anxiety and fear via distinct intrahippocampal circuits. <i>eLife</i> , 2016 , 5, e14120	8.9	47
41	Antihyperalgesia by δ -GABA _A receptors occurs via a genuine spinal action and does not involve supraspinal sites. <i>Neuropsychopharmacology</i> , 2014 , 39, 477-87	8.7	39

40	Compromising the phosphodependent regulation of the GABAAR β subunit reproduces the core phenotypes of autism spectrum disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14805-10	11.5	36
39	A Pharmacogenetic α Restriction-of-Function Approach Reveals Evidence for Anxiolytic-Like Actions Mediated by β -Containing GABAA Receptors in Mice. <i>Neuropsychopharmacology</i> , 2016 , 41, 2492-501	8.7	35
38	Molecular and functional diversity of GABA-A receptors in the enteric nervous system of the mouse colon. <i>Journal of Neuroscience</i> , 2014 , 34, 10361-78	6.6	34
37	Neural basis of benzodiazepine reward: requirement for α containing GABAA receptors in the nucleus accumbens. <i>Neuropsychopharmacology</i> , 2014 , 39, 1805-15	8.7	30
36	Astrocytes in primary cultures express serine racemase, synthesize d-serine and acquire A1 reactive astrocyte features. <i>Biochemical Pharmacology</i> , 2018 , 151, 245-251	6	28
35	Distinct actions of etomidate and propofol at beta3-containing gamma-aminobutyric acid type A receptors. <i>Neuropharmacology</i> , 2009 , 57, 446-55	5.5	27
34	GABA Receptor Subtypes Regulate Stress-Induced Colon Inflammation in Mice. <i>Gastroenterology</i> , 2018 , 155, 852-864.e3	13.3	25
33	Itch suppression in mice and dogs by modulation of spinal α and β GABA receptors. <i>Nature Communications</i> , 2018 , 9, 3230	17.4	24
32	Disinhibition, an emerging pharmacology of learning and memory. <i>F1000Research</i> , 2017 , 6,	3.6	23
31	Targeted Treatment of Individuals With Psychosis Carrying a Copy Number Variant Containing a Genomic Triplication of the Glycine Decarboxylase Gene. <i>Biological Psychiatry</i> , 2019 , 86, 523-535	7.9	21
30	Etomidate Impairs Long-Term Potentiation In Vitro by Targeting β -Subunit Containing GABAA Receptors on Nonpyramidal Cells. <i>Journal of Neuroscience</i> , 2015 , 35, 9707-16	6.6	20
29	Behavioral functions of GABAA receptor subtypes--the Zurich experience. <i>Advances in Pharmacology</i> , 2015 , 72, 37-51	5.7	20
28	Affective and cognitive effects of global deletion of alpha3-containing gamma-aminobutyric acid-A receptors. <i>Behavioural Pharmacology</i> , 2008 , 19, 582-96	2.4	20
27	Alterations in brain-derived neurotrophic factor in the mouse hippocampus following acute but not repeated benzodiazepine treatment. <i>PLoS ONE</i> , 2013 , 8, e84806	3.7	19
26	The clobazam metabolite N-desmethyl clobazam is an α preferring benzodiazepine with an improved therapeutic window for antihyperalgesia. <i>Neuropharmacology</i> , 2016 , 109, 366-375	5.5	18
25	The heterogeneity in GABAA receptor-mediated IPSC kinetics reflects heterogeneity of subunit composition among inhibitory and excitatory interneurons in spinal lamina II. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 424	6.1	17
24	Marker chromosome genomic structure and temporal origin implicate a chromoanasythesis event in a family with pleiotropic psychiatric phenotypes. <i>Human Mutation</i> , 2018 , 39, 939-946	4.7	16
23	Dissecting the role of diazepam-sensitive β aminobutyric acid type A receptors in defensive behavioral reactivity to mild threat. <i>Pharmacology Biochemistry and Behavior</i> , 2013 , 103, 541-9	3.9	15

22	Differential depression of neuronal network activity by midazolam and its main metabolite 1-hydroxymidazolam in cultured neocortical slices. <i>Scientific Reports</i> , 2017 , 7, 3503	4.9	14
21	Identification and characterization of anesthetic targets by mouse molecular genetics approaches. <i>Canadian Journal of Anaesthesia</i> , 2011 , 58, 178-90	3	14
20	δ -containing GABA(A) receptors: a requirement for midazolam-escalated aggression and social approach in mice. <i>Psychopharmacology</i> , 2015 , 232, 4359-69	4.7	13
19	Localisation and stress-induced plasticity of GABAA receptor subunits within the cellular networks of the mouse dorsal raphe nucleus. <i>Brain Structure and Function</i> , 2015 , 220, 2739-63	4	12
18	Early postnatal switch in GABAA receptor β subunits in the reticular thalamic nucleus. <i>Journal of Neurophysiology</i> , 2016 , 115, 1183-95	3.2	12
17	Partial inactivation of GABAA receptors containing the β subunit affects the development of adult-born dentate gyrus granule cells. <i>European Journal of Neuroscience</i> , 2016 , 44, 2258-71	3.5	11
16	Enhancing the function of alpha5-subunit-containing GABAA receptors promotes action potential firing of neocortical neurons during up-states. <i>European Journal of Pharmacology</i> , 2013 , 703, 18-24	5.3	11
15	Activity patterns in the prefrontal cortex and hippocampus during and after awakening from etomidate anesthesia. <i>Anesthesiology</i> , 2010 , 113, 48-57	4.3	10
14	Diversity of neuronal inhibition: a path to novel treatments for neuropsychiatric disorders. <i>JAMA Psychiatry</i> , 2014 , 71, 91-3	14.5	9
13	Effects of Gabra2 Point Mutations on Alcohol Intake: Increased Binge-Like and Blunted Chronic Drinking by Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2016 , 40, 2445-2455	3.7	7
12	Divergent Levels of Marker Chromosomes in an hiPSC-Based Model of Psychosis. <i>Stem Cell Reports</i> , 2017 , 8, 519-528	8	6
11	Identification of molecular substrate for the attenuation of anxiety: a step toward the development of better anti-anxiety drugs. <i>Scientific World Journal, The</i> , 2001 , 1, 192-3	2.2	6
10	Bidirectional regulation of distinct memory domains by β -subunit-containing GABA receptors in CA1 pyramidal neurons. <i>Learning and Memory</i> , 2020 , 27, 423-428	2.8	5
9	Identification of intraneuronal amyloid beta oligomers in locus coeruleus neurons of Alzheimer's patients and their potential impact on inhibitory neurotransmitter receptors and neuronal excitability. <i>Neuropathology and Applied Neurobiology</i> , 2021 , 47, 488-505	5.2	5
8	Prodepressant- and anxiogenic-like effects of serotonin-selective, but not noradrenaline-selective, antidepressant agents in mice lacking δ -containing GABA receptors. <i>Behavioural Brain Research</i> , 2017 , 332, 172-179	3.4	4
7	Effects of Diazepam on Low-Frequency and High-Frequency Electrocortical Power Mediated by α - and δ -GABA Receptors. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	4
6	Modulating anxiety and activity. <i>Science</i> , 2019 , 366, 185-186	33.3	4
5	TP003 is a non-selective benzodiazepine site agonist that induces anxiolysis via δ GABA receptors. <i>Neuropharmacology</i> , 2018 , 143, 71-78	5.5	4

4	Zolpidem Activation of Alpha 1-Containing GABA Receptors Selectively Inhibits High Frequency Action Potential Firing of Cortical Neurons. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1523	5.6	3
3	Organization and emergence of a mixed GABA-glycine retinal circuit that provides inhibition to mouse ON-sustained alpha retinal ganglion cells. <i>Cell Reports</i> , 2021 , 34, 108858	10.6	2
2	Transient expression of a GABA receptor subunit during early development is critical for inhibitory synapse maturation and function. <i>Current Biology</i> , 2021 , 31, 4314-4326.e5	6.3	2
1	δ -containing γ -aminobutyric acid type A receptors promote stress resiliency in male mice. <i>Neuropsychopharmacology</i> , 2021 , 46, 2197-2206	8.7	0