

Uwe Rudolph

List of Publications by Year in descending order

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81
papers

9,461
citations

81743

39
h-index

60497

81
g-index

86
all docs

86
docs citations

86
times ranked

7239
citing authors

#	ARTICLE	IF	CITATIONS
1	Benzodiazepine actions mediated by specific $\hat{\gamma}$ -aminobutyric acidA receptor subtypes. <i>Nature</i> , 1999, 401, 796-800.	13.7	1,136
2	Molecular and Neuronal Substrate for the Selective Attenuation of Anxiety. <i>Science</i> , 2000, 290, 131-134.	6.0	866
3	Molecular and neuronal substrates for general anaesthetics. <i>Nature Reviews Neuroscience</i> , 2004, 5, 709-720.	4.9	672
4	Beyond classical benzodiazepines: novel therapeutic potential of GABAA receptor subtypes. <i>Nature Reviews Drug Discovery</i> , 2011, 10, 685-697.	21.5	579
5	General anesthetic actions in vivo strongly attenuated by a point mutation in the GABA _A receptor $\hat{\gamma}$ 23 subunit. <i>FASEB Journal</i> , 2003, 17, 250-252.	0.2	531
6	ANALYSIS OF GABA _A 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, 475-498.	4.2	516
7	GABA-based therapeutic approaches: GABA _A receptor subtype functions. <i>Current Opinion in Pharmacology</i> , 2006, 6, 18-23.	1.7	443
8	Specific GABA _A Circuits for Visual Cortical Plasticity. <i>Science</i> , 2004, 303, 1681-1683.	6.0	439
9	Reversal of pathological pain through specific spinal GABA _A receptor subtypes. <i>Nature</i> , 2008, 451, 330-334.	13.7	386
10	GABA _A Receptor Subtypes: Therapeutic Potential in Down Syndrome, Affective Disorders, Schizophrenia, and Autism. <i>Annual Review of Pharmacology and Toxicology</i> , 2014, 54, 483-507.	4.2	273
11	Mechanism of action of the hypnotic zolpidem in vivo. <i>British Journal of Pharmacology</i> , 2000, 131, 1251-1254.	2.7	265
12	Molecular Targets for the Myorelaxant Action of Diazepam. <i>Molecular Pharmacology</i> , 2001, 59, 442-445.	1.0	207
13	Pharmacology of recombinant $\hat{\gamma}$ -aminobutyric acidA receptors rendered diazepam-insensitive by point-mutated $\hat{\gamma}$ 1-subunits. <i>FEBS Letters</i> , 1998, 431, 400-404.	1.3	168
14	Regulating anxiety with extrasynaptic inhibition. <i>Nature Neuroscience</i> , 2015, 18, 1493-1500.	7.1	158
15	Specific Subtypes of GABA _A Receptors Mediate Phasic and Tonic Forms of Inhibition in Hippocampal Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 2006, 96, 846-857.	0.9	149
16	An Emerging Circuit Pharmacology of GABA _A Receptors. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 710-732.	4.0	147
17	Requirement of $\hat{\gamma}$ 5-GABA _A Receptors for the Development of Tolerance to the Sedative Action of Diazepam in Mice. <i>Journal of Neuroscience</i> , 2004, 24, 6785-6790.	1.7	138
18	Molecular determinants for the action of general anesthetics at recombinant α 2 β 3 γ 2 γ -aminobutyric acidA receptors. <i>Journal of Neurochemistry</i> , 2002, 80, 140-148.	2.1	130

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19	GABAA 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, 1928-1936.	1.2	124
20	Independent assembly and subcellular targeting of GABAA-receptor subtypes demonstrated in mouse hippocampal and olfactory neurons in vivo. <i>Neuroscience Letters</i> , 1998, 249, 99-102.	1.0	97
21	Genuine antihyperalgesia by systemic diazepam revealed by experiments in GABAA receptor point-mutated mice. <i>Pain</i> , 2009, 141, 233-238.	2.0	96
22	Presynaptic α -GABA _A Receptors in Primary Afferent Depolarization and Spinal Pain Control. <i>Journal of Neuroscience</i> , 2011, 31, 8134-8142.	1.7	96
23	Antidepressant-like properties of α -containing GABAA receptors. <i>Behavioural Brain Research</i> , 2011, 217, 77-80.	1.2	92
24	GABA _A Receptor α 5 Subunits Contribute to GABA _{A,slow} Synaptic Inhibition in Mouse Hippocampus. <i>Journal of Neurophysiology</i> , 2009, 101, 1179-1191.	0.9	91
25	Dynamic GABA _A Receptor Subtype-Specific Modulation of the Synchrony and Duration of Thalamic Oscillations. <i>Journal of Neuroscience</i> , 2003, 23, 3649-3657.	1.7	86
26	Analgesia and unwanted benzodiazepine effects in point-mutated mice expressing only one benzodiazepine-sensitive GABAA receptor subtype. <i>Nature Communications</i> , 2015, 6, 6803.	5.8	85
27	Benzodiazepine-induced anxiolysis and reduction of conditioned fear are mediated by distinct GABAA receptor subtypes in mice. <i>Neuropharmacology</i> , 2012, 63, 250-258.	2.0	77
28	Analysis of the Presence and Abundance of GABAA Receptors Containing Two Different Types of α Subunits in Murine Brain Using Point-mutated α Subunits. <i>Journal of Biological Chemistry</i> , 2004, 279, 43654-43660.	1.6	72
29	Tonic Inhibitory Control of Dentate Gyrus Granule Cells by α -Containing GABA _A Receptors Reduces Memory Interference. <i>Journal of Neuroscience</i> , 2015, 35, 13698-13712.	1.7	72
30	Alteration of GABAergic synapses and gephyrin clusters in the thalamic reticular nucleus of GABA _A receptor α 3 subunit-null mice. <i>European Journal of Neuroscience</i> , 2006, 24, 1307-1315.	1.2	68
31	Modulation of anxiety and fear via distinct intrahippocampal circuits. <i>ELife</i> , 2016, 5, e14120.	2.8	65
32	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, 7630-7635.	3.3	61
33	Molecular and Functional Diversity of GABA-A Receptors in the Enteric Nervous System of the Mouse Colon. <i>Journal of Neuroscience</i> , 2014, 34, 10361-10378.	1.7	58
34	Resolving differences in GABAA receptor mutant mouse studies. <i>Nature Neuroscience</i> , 2000, 3, 1059-1059.	7.1	53
35	Mutational analysis of molecular requirements for the actions of general anaesthetics at the gamma-aminobutyric acidA receptor subtype, alpha1beta2gamma2. <i>BMC Pharmacology</i> , 2003, 3, 13.	0.4	52
36	A Pharmacogenetic "Restriction-of-Function" Approach Reveals Evidence for Anxiolytic-Like Actions Mediated by α -Containing GABAA Receptors in Mice. <i>Neuropsychopharmacology</i> , 2016, 41, 2492-2501.	2.8	45

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37	Antihyperalgesia by $\hat{1}\pm 2$ -GABAA Receptors Occurs Via a Genuine Spinal Action and Does Not Involve Supraspinal Sites. <i>Neuropsychopharmacology</i> , 2014, 39, 477-487.	2.8	43
38	Astrocytes in primary cultures express serine racemase, synthesize d -serine and acquire A1 reactive astrocyte features. <i>Biochemical Pharmacology</i> , 2018, 151, 245-251.	2.0	43
39	Compromising the phosphodependent regulation of the GABA _A R $\hat{1}\pm 3$ 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, 14805-14810.	3.3	41
40	GABAA Receptor Subtypes Regulate Stress-Induced Colon Inflammation in Mice. <i>Gastroenterology</i> , 2018, 155, 852-864.e3.	0.6	36
41	Alterations in Brain-Derived Neurotrophic Factor in the Mouse Hippocampus Following Acute but Not Repeated Benzodiazepine Treatment. <i>PLoS ONE</i> , 2013, 8, e84806.	1.1	35
42	Neural Basis of Benzodiazepine Reward: Requirement for $\hat{1}\pm 2$ Containing GABAA Receptors in the Nucleus Accumbens. <i>Neuropsychopharmacology</i> , 2014, 39, 1805-1815.	2.8	35
43	Itch suppression in mice and dogs by modulation of spinal $\hat{1}\pm 2$ and $\hat{1}\pm 3$ GABAA receptors. <i>Nature Communications</i> , 2018, 9, 3230.	5.8	34
44	Disinhibition, an emerging pharmacology of learning and memory. <i>F1000Research</i> , 2017, 6, 101.	0.8	33
45	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.	0.7	32
46	Distinct actions of etomidate and propofol at $\hat{1}\pm 3$ -containing $\hat{1}\pm 3$ -aminobutyric acid type A receptors. <i>Neuropharmacology</i> , 2009, 57, 446-455.	2.0	31
47	Etomidate Impairs Long-Term Potentiation In Vitro by Targeting $\hat{1}\pm 5$ -Subunit Containing GABAA Receptors on Nonpyramidal Cells. <i>Journal of Neuroscience</i> , 2015, 35, 9707-9716.	1.7	30
48	Long-term diazepam treatment enhances microglial spine engulfment and impairs cognitive performance via the mitochondrial 18 kDa translocator protein (TSPO). <i>Nature Neuroscience</i> , 2022, 25, 317-329.	7.1	29
49	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.	1.8	28
50	Affective and cognitive effects of global deletion of $\hat{1}\pm 3$ -containing gamma-aminobutyric acid-A receptors. <i>Behavioural Pharmacology</i> , 2008, 19, 582-596.	0.8	26
51	Marker chromosome genomic structure and temporal origin implicate a chromoanagenesis event in a family with pleiotropic psychiatric phenotypes. <i>Human Mutation</i> , 2018, 39, 939-946.	1.1	26
52	Behavioral Functions of GABAA Receptor Subtypes - The Zurich Experience. <i>Advances in Pharmacology</i> , 2015, 72, 37-51.	1.2	25
53	The clobazam metabolite N-desmethyl clobazam is an $\hat{1}\pm 2$ preferring benzodiazepine with an improved therapeutic window for antihyperalgesia. <i>Neuropharmacology</i> , 2016, 109, 366-375.	2.0	25
54	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.	1.8	25

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55	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.	1.6	20
56	Dissecting the role of diazepam-sensitive $\hat{1}^3$ -aminobutyric acid type A receptors in defensive behavioral reactivity to mild threat. <i>Pharmacology Biochemistry and Behavior</i> , 2013, 103, 541-549.	1.3	19
57	Identification and characterization of anesthetic targets by mouse molecular genetics approaches. <i>Canadian Journal of Anaesthesia</i> , 2011, 58, 178-190.	0.7	18
58	Bidirectional regulation of distinct memory domains by $\hat{1}^{\pm}5$ -subunit-containing GABA _A receptors in CA1 pyramidal neurons. <i>Learning and Memory</i> , 2020, 27, 423-428.	0.5	18
59	$\hat{1}^{\pm}2$ -containing GABA(A) receptors: a requirement for midazolam-escalated aggression and social approach in mice. <i>Psychopharmacology</i> , 2015, 232, 4359-4369.	1.5	17
60	Partial inactivation of GABA _A receptors containing the $\hat{1}^{\pm}5$ subunit affects the development of adult-born dentate gyrus granule cells. <i>European Journal of Neuroscience</i> , 2016, 44, 2258-2271.	1.2	16
61	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, 2739-2763.	1.2	15
62	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.	1.7	14
63	Activity Patterns in the Prefrontal Cortex and Hippocampus during and after Awakening from Etomidate Anesthesia. <i>Anesthesiology</i> , 2010, 113, 48-57.	1.3	14
64	Negative Allosteric Modulation of Gamma-Aminobutyric Acid A Receptors at $\hat{1}^{\pm}5$ Subunit-Containing Benzodiazepine Sites Reverses Stress-Induced Anhedonia and Weakened Synaptic Function in Mice. <i>Biological Psychiatry</i> , 2022, 92, 216-226.	0.7	14
65	Early postnatal switch in GABA _A receptor $\hat{1}^{\pm}$ -subunits in the reticular thalamic nucleus. <i>Journal of Neurophysiology</i> , 2016, 115, 1183-1195.	0.9	13
66	Diversity of Neuronal Inhibition. <i>JAMA Psychiatry</i> , 2014, 71, 91.	6.0	12
67	Divergent Levels of Marker Chromosomes in an hiPSC-Based Model of Psychosis. <i>Stem Cell Reports</i> , 2017, 8, 519-528.	2.3	11
68	Effects of <i>Gabra2</i> 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.	1.4	10
69	Effects of Diazepam on Low-Frequency and High-Frequency Electrocortical $\hat{1}^3$ -Power Mediated by $\hat{1}^{\pm}1$ - and $\hat{1}^{\pm}2$ -GABAA Receptors. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3486.	1.8	10
70	TP003 is a non-selective benzodiazepine site agonist that induces anxiolysis via $\hat{1}^{\pm}2$ GABAA receptors. <i>Neuropharmacology</i> , 2018, 143, 71-78.	2.0	9
71	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.	2.9	9
72	Identification of Molecular Substrate for the Attenuation of Anxiety: A Step Toward the Development of Better Anti-Anxiety Drugs. <i>Scientific World Journal</i> , The, 2001, 1, 192-193.	0.8	8

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73	Prodepressant- and anxiogenic-like effects of serotonin-selective, but not noradrenaline-selective, antidepressant agents in mice lacking $\alpha 2$ -containing GABAA receptors. Behavioural Brain Research, 2017, 332, 172-179.	1.2	8
74	$\alpha 2$ -containing $\alpha 3$ -aminobutyric acid type A receptors promote stress resiliency in male mice. Neuropsychopharmacology, 2021, 46, 2197-2206.	2.8	6
75	Modulating anxiety and activity. Science, 2019, 366, 185-186.	6.0	5
76	Zolpidem Activation of Alpha 1-Containing GABAA Receptors Selectively Inhibits High Frequency Action Potential Firing of Cortical Neurons. Frontiers in Pharmacology, 2018, 9, 1523.	1.6	5
77	Transient expression of a GABA receptor subunit during early development is critical for inhibitory synapse maturation and function. Current Biology, 2021, 31, 4314-4326.e5.	1.8	5
78	Midazolam at Low Nanomolar Concentrations Affects Long-term Potentiation and Synaptic Transmission Predominantly via the $\alpha 1$ - $\alpha 3$ -Aminobutyric Acid Type A Receptor Subunit in Mice. Anesthesiology, 2022, 136, 954-969.	1.3	5
79	Propofol Affects Cortico-Hippocampal Interactions via $\alpha 3$ Subunit-Containing GABAA Receptors. International Journal of Molecular Sciences, 2020, 21, 5844.	1.8	3
80	GABA _A receptors in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	3
81	GABA _A receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	2