

Margot Ernst

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64
papers

1,376
citations

19
h-index

36
g-index

75
ext. papers

1,663
ext. citations

5.9
avg, IF

4.45
L-index

#	Paper	IF	Citations
64	Diazepam-bound GABAA receptor models identify new benzodiazepine binding-site ligands. <i>Nature Chemical Biology</i> , 2012 , 8, 455-64	11.7	150
63	Comparative models of GABAA receptor extracellular and transmembrane domains: important insights in pharmacology and function. <i>Molecular Pharmacology</i> , 2005 , 68, 1291-300	4.3	119
62	Pentameric ligand-gated ion channel ELIC is activated by GABA and modulated by benzodiazepines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E3028-34	11.5	106
61	The GABAA receptor alpha+beta- interface: a novel target for subtype selective drugs. <i>Journal of Neuroscience</i> , 2011 , 31, 870-7	6.6	91
60	The Benzodiazepine Binding Sites of GABA Receptors. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 659-671	6.1	89
59	Understanding subtype-selective allosteric modulation of GABA receptors. <i>BMC Pharmacology & Toxicology</i> , 2012 , 13,	2.6	78
58	A novel GABA(A) receptor pharmacology: drugs interacting with the $\alpha 1/\beta 1$ interface. <i>British Journal of Pharmacology</i> , 2012 , 166, 476-85	8.6	62
57	Structural Studies of GABAA Receptor Binding Sites: Which Experimental Structure Tells us What?. <i>Frontiers in Molecular Neuroscience</i> , 2016 , 9, 44	6.1	57
56	Subtype selectivity of $\alpha 1$ site ligands of GABAA receptors: identification of the first highly specific positive modulators at $\alpha 2/\alpha 3$ receptors. <i>British Journal of Pharmacology</i> , 2013 , 169, 384-99	8.6	41
55	Affinity of various benzodiazepine site ligands in mice with a point mutation in the GABA(A) receptor gamma2 subunit. <i>Biochemical Pharmacology</i> , 2004 , 68, 1621-9	6	40
54	Identification of novel positive allosteric modulators and null modulators at the GABAA receptor $\alpha 1$ interface. <i>British Journal of Pharmacology</i> , 2013 , 169, 371-83	8.6	39
53	Synthesis and Characterization of a Novel γ -Aminobutyric Acid Type A (GABA) Receptor Ligand That Combines Outstanding Metabolic Stability, Pharmacokinetics, and Anxiolytic Efficacy. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 10800-10806	8.3	34
52	Proximity-accelerated chemical coupling reaction in the benzodiazepine-binding site of gamma-aminobutyric acid type A receptors: superposition of different allosteric modulators. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26316-25	5.4	28
51	Design and Synthesis of Novel Deuterated Ligands Functionally Selective for the γ -Aminobutyric Acid Type A Receptor (GABA _A) $\alpha 2$ Subtype with Improved Metabolic Stability and Enhanced Bioavailability. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 2422-2446	8.3	26
50	First In Vivo Testing of Compounds Targeting Group 3 Medulloblastomas Using an Implantable Microdevice as a New Paradigm for Drug Development. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 1297-302	4	23
49	Pharmacological and antihyperalgesic properties of the novel $\alpha 2/\alpha 3$ preferring GABA receptor ligand MP-III-024. <i>Brain Research Bulletin</i> , 2017 , 131, 62-69	3.9	20
48	Cerebellar $\alpha 2$ subunit-containing GABA receptors: a novel therapeutic target for disrupted prepulse inhibition in neuropsychiatric disorders. <i>British Journal of Pharmacology</i> , 2018 , 175, 2414-2427	8.6	20

47	Molecular tools for GABA receptors: High affinity ligands for β -containing subtypes. <i>Scientific Reports</i> , 2017 , 7, 5674	4.9	19
46	Molecular analysis of the site for 2-arachidonylglycerol (2-AG) on the β subunit of GABA(A) receptors. <i>Journal of Neurochemistry</i> , 2013 , 126, 29-36	6	19
45	Ester to amide substitution improves selectivity, efficacy and kinetic behavior of a benzodiazepine positive modulator of GABA receptors containing the β subunit. <i>European Journal of Pharmacology</i> , 2016 , 791, 433-443	5.3	18
44	Trigeminal neuropathic pain development and maintenance in rats are suppressed by a positive modulator of β GABA receptors. <i>European Journal of Pain</i> , 2019 , 23, 973-984	3.7	18
43	Development of GABAA Receptor Subtype-Selective Imidazobenzodiazepines as Novel Asthma Treatments. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2026-38	5.6	18
42	Towards functional selectivity for $\beta\beta\beta$ GABA receptors: a series of novel pyrazoloquinolinones. <i>British Journal of Pharmacology</i> , 2018 , 175, 419-428	8.6	18
41	Accelerated discovery of novel benzodiazepine ligands by experiment-guided virtual screening. <i>ACS Chemical Biology</i> , 2014 , 9, 1854-9	4.9	17
40	Targeting the β Aminobutyric Acid A Receptor β Subunit in Airway Smooth Muscle to Alleviate Bronchoconstriction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 54, 546-53	5.7	16
39	Raman and infrared vibrational spectra, normal coordinate analysis and ab initio calculations of 1,1,2,2-tetrachlorodisilane and ab initio calculations of hexachlorodisilane. <i>Journal of Raman Spectroscopy</i> , 1997 , 28, 589-597	2.3	16
38	β subunits in GABA receptors are dispensable for GABA and diazepam action. <i>Scientific Reports</i> , 2017 , 7, 15498	4.9	15
37	Identification of amino acid residues important for assembly of GABA receptor alpha1 and gamma2 subunits. <i>Journal of Neurochemistry</i> , 2006 , 96, 983-95	6	15
36	The β subunit-containing GABA receptor: A novel drug target for inhibition of trigeminal activation. <i>Neuropharmacology</i> , 2018 , 140, 1-13	5.5	14
35	Allosteric GABA Receptor Modulators-A Review on the Most Recent Heterocyclic Chemotypes and Their Synthetic Accessibility. <i>Molecules</i> , 2020 , 25,	4.8	13
34	Negative allosteric modulation of alpha 5-containing GABA receptors engenders antidepressant-like effects and selectively prevents age-associated hyperactivity in tau-depositing mice. <i>Psychopharmacology</i> , 2018 , 235, 1151-1161	4.7	13
33	Raman and infrared vibrational spectra, ab initio calculations and normal coordinate analyses for 1,2-dimethyltetrachlorodisilane and 1,2-dimethyltetrachlorodisilane-d6. <i>Journal of Molecular Structure</i> , 1997 , 412, 83-95	3.4	12
32	Different Benzodiazepines Bind with Distinct Binding Modes to GABA Receptors. <i>ACS Chemical Biology</i> , 2018 , 13, 2033-2039	4.9	12
31	Unexpected Properties of β -Containing GABAA Receptors in Response to Ligands Interacting with the β Site. <i>Neurochemical Research</i> , 2014 , 39, 1057-1067	4.6	11
30	Spontaneous cross-link of mutated alpha1 subunits during GABA(A) receptor assembly. <i>Journal of Biological Chemistry</i> , 2007 , 282, 4354-4363	5.4	9

29	Mutagenesis and computational docking studies support the existence of a histamine binding site at the extracellular β + β - interface of homooligomeric β GABAA receptors. <i>Neuropharmacology</i> , 2016 , 108, 252-63	5.5	9
28	Metal-assisted synthesis of unsymmetrical magnolol and honokiol analogs and their biological assessment as GABAA receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 400-3	2.9	7
27	Expeditious synthesis of polyacetylenic water hemlock toxins and their effects on the major GABA receptor isoform. <i>Chemical Communications</i> , 2018 , 54, 2008-2011	5.8	7
26	Engineered Flumazenil Recognition Site Provides Mechanistic Insight Governing Benzodiazepine Modulation in GABA Receptors. <i>ACS Chemical Biology</i> , 2018 , 13, 2040-2047	4.9	7
25	Defined concatenated β β β GABA receptor constructs reveal dual action of pyrazoloquinolinone allosteric modulators. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 3167-3178	3.4	6
24	GABA Receptor Ligands Often Interact with Binding Sites in the Transmembrane Domain and in the Extracellular Domain-Can the Promiscuity Code Be Cracked?. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
23	A pentasymmetric open channel blocker for Cys-loop receptor channels. <i>PLoS ONE</i> , 2014 , 9, e106688	3.7	6
22	Two Distinct Populations of β β -Containing GABAA-Receptors in Rat Cerebellum. <i>Frontiers in Synaptic Neuroscience</i> , 2020 , 12, 591129	3.5	6
21	A novel de novo variant of GABRA1 causes increased sensitivity for GABA in vitro. <i>Scientific Reports</i> , 2020 , 10, 2379	4.9	5
20	Diversity matters: combinatorial information coding by GABA receptor subunits during spatial learning and its allosteric modulation. <i>Cellular Signalling</i> , 2018 , 50, 142-159	4.9	4
19	SAR-Guided Scoring Function and Mutational Validation Reveal the Binding Mode of CGS-8216 at the β + α - Benzodiazepine Site. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1682-1696	6.1	3
18	Attaining in vivo selectivity of positive modulation of β GABA receptors in rats: A hard task!. <i>European Neuropsychopharmacology</i> , 2018 , 28, 903-914	1.2	3
17	Phenotypic variability of GABRA1-related epilepsy in monozygotic twins. <i>Annals of Clinical and Translational Neurology</i> , 2019 , 6, 2317-2322	5.3	3
16	GABAA receptor subtypes: structural variety raises hope for new therapy concepts. <i>E-Neuroforum</i> , 2015 , 6, 97-103		2
15	Variations on a scaffold - Novel GABA receptor modulators. <i>European Journal of Medicinal Chemistry</i> , 2019 , 180, 340-349	6.8	1
14	6-Containing GABA Receptors: Functional Roles and Therapeutic Potentials.. <i>Pharmacological Reviews</i> , 2022 , 74, 238-270	22.5	1
13	The cerebellar β subunit-containing GABAA receptor: A novel therapeutic target for disrupted prepulse inhibition in neuropsychiatric disorders. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, PO3-1-95	0	1
12	Structure-Guided Computational Methods Predict Multiple Distinct Binding Modes for Pyrazoloquinolinones in GABA Receptors. <i>Frontiers in Neuroscience</i> , 2020 , 14, 611953	5.1	1

- 11 Molecular basis of mood and cognitive adverse events elucidated via a combination of pharmacovigilance data mining and functional enrichment analysis. *Archives of Toxicology*, **2020**, 94, 2829-2845^{5,8}○
- 10 A Benzodiazepine Ligand with Improved GABA Receptor 5-Subunit Selectivity Driven by Interactions with Loop C. *Molecular Pharmacology*, **2021**, 99, 39-48 4.3 ○
- 9 Stereoselective Synthesis of the Isomers of Notoincisol A: Assignment of the Absolute Configuration of this Natural Product and Biological Evaluation. *Journal of Natural Products*, **2018**, 81, 2419-2428 4.9 ○
- 8 1,1,1,3,3,3-Hexabromotrisilane: structure and conformation determined by gas-phase electron diffraction, ab initio molecular orbital and molecular mechanics calculations, and vibrational spectroscopy. *Computational and Theoretical Chemistry*, **1995**, 372, 161-172
- 7 A Novel Target for Migraine Therapy: the β Subunit-Containing GABAA Receptor. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO1-1-136 ○
- 6 GABAA Receptors1-12
- 5 A Novel Drug Target for Migraine: The GABAA Receptor β Subtype in Trigeminal Ganglia. *FASEB Journal*, **2019**, 33, lb78 0.9
- 4 GABAA Receptor Modulators1-10
- 3 Comparing the high affinity benzodiazepine binding site with the homologous α 5GS 9895 site in GABA-A receptors (1059.1). *FASEB Journal*, **2014**, 28, 1059.1 0.9
- 2 GABAA α Rezeptorsubtypen: Strukturelle Vielfalt gibt Hoffnung auf neue Therapiekonzepte. *Neuroforum*, **2015**, 21, 144-151 0.7
- 1 Infrared and Raman Spectra, ab initio Calculations, and Rotational Isomerism of Methylated Disilanes241-247