Hartmut H Glossmann

List of Publications by Year
in descending order

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124 papers	7,960 citations	31976 53 h-index	51608 86 g-index
128 all docs	128 docs citations	128 times ranked	5011 citing authors

#	Article	IF	Citations
1	Glycoproteins of Cell Surfaces. Journal of Biological Chemistry, 1971, 246, 6339-6346.	3.4	508
2	Î±1D (Cav1.3) Subunits Can Form L-type Ca2+ Channels Activating at Negative Voltages. Journal of Biological Chemistry, 2001, 276, 22100-22106.	3.4	392
3	Biguanide metformin acts on tau phosphorylation via mTOR/protein phosphatase 2A (PP2A) signaling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21830-21835.	7.1	360
4	Calcium channels: direct identification with radioligand binding studies. Trends in Pharmacological Sciences, 1982, 3, 431-437.	8.7	295
5	Mutations in the gene encoding 3Î²-Âhydroxysteroid-Î”8,Î”7-Âisomerase cause X-linked dominant Conradi-HÃ¼nermann syndrome. Nature Genetics, 1999, 22, 291-294.	21.4	283
6	Familial Hemiplegic Migraine Mutations Change Î±1ACa2+ Channel Kinetics. Journal of Biological Chemistry, 1998, 273, 5586-5590.	3.4	182
7	[42] Assay for calcium channels. Methods in Enzymology, 1985, 109, 513-550.	1.0	181
8	Molecular properties of calcium channels. , 1990, 114, 1-105.		180
9	(+)-Niguldipine binds with very high affinity to Ca2+ channels and to a subtype of Î±1-adrenoceptors. European Journal of Pharmacology, 1989, 172, 131-145.	2.6	179
10	7-Dehydrocholesterolâ€“dependent proteolysis of HMG-CoA reductase suppresses sterol biosynthesis in a mouse model of Smith-Lemli-Opitz/RSH syndrome. Journal of Clinical Investigation, 2001, 108, 905-915.	8.2	145
11	Transfer of 1,4-Dihydropyridine Sensitivity from L-Type to Class A (BI) Calcium Channels. Neuron, 1996, 16, 207-218.	8.1	143
12	Angiotensin II Receptors in Bovine Adrenal Cortex. Journal of Biological Chemistry, 1974, 249, 664-666.	3.4	133
13	Evidence for multiple receptor sites within the putative calcium channel. Naunyn-Schmiedeberg's Archives of Pharmacology, 1982, 321, 80-83.	3.0	125
14	Three New Familial Hemiplegic Migraine Mutants Affect P/Q-type Ca2+ Channel Kinetics. Journal of Biological Chemistry, 2000, 275, 9239-9243.	3.4	124
15	Plasma Membrane Protein Subunit Composition. Journal of Biological Chemistry, 1971, 246, 6335-6338.	3.4	120
16	Discovery of High-Affinity Ligands of Ïƒ1Receptor, ERG2, and Emopamil Binding Protein by Pharmacophore Modeling and Virtual Screening. Journal of Medicinal Chemistry, 2005, 48, 4754-4764.	6.4	117
17	Photoaffinity labelling of the phenylalkylamine receptor of the skeletal muscle transverse-tubule calcium channel. FEBS Letters, 1987, 212, 247-253.	2.8	110
18	Endogenous calcium channels in human embryonic kidney (HEK293) cells. British Journal of Pharmacology, 1996, 118, 748-754.	5.4	106

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19	Identification of putative calcium channels in skeletal muscle microsomes. FEBS Letters, 1982, 148, 331-337.	2.8	101
20	Solubilization and partial purification of putative calcium channels labelled with [3H]-nimodipine. Naunyn-Schmiedeberg's Archives of Pharmacology, 1983, 323, 279-291.	3.0	99
21	High affinity of sigma1 -binding sites for sterol isomerization inhibitors: evidence for a pharmacological relationship with the yeast sterol C8 -C7 isomerase. British Journal of Pharmacology, 1997, 121, 1-6.	5.4	99
22	Metformin and Aging: A Review. Gerontology, 2019, 65, 581-590.	2.8	98
23	Purification of the putative calcium channel from skeletal muscle with the aid of [3H]-nimodipine binding. Naunyn-Schmiedeberg's Archives of Pharmacology, 1983, 323, 1-11.	3.0	97
24	The mysteries of sigma receptors: new family members reveal a role in cholesterol synthesis. Trends in Pharmacological Sciences, 1997, 18, 67-70.	8.7	97
25	Expression of the purported sigma1 (Ïƒ1) receptor in the mammalian brain and its possible relevance in deficits induced by antagonism of the NMDA receptor complex as revealed using an antisense strategy. Journal of Chemical Neuroanatomy, 2000, 20, 375-387.	2.1	97
26	Functional Consequences of P/Q-type Ca2+Channel Cav2.1 Missense Mutations Associated with Episodic Ataxia Type 2 and Progressive Ataxia. Journal of Biological Chemistry, 2002, 277, 6960-6966.	3.4	94
27	Photoaffinity labelling of Ca2+ channels with [3 H]azidopine. FEBS Letters, 1984, 169, 112-118.	2.8	91
28	Phlorizin Receptors in Isolated Kidney Brush Border Membranes. Journal of Biological Chemistry, 1972, 247, 7779-7789.	3.4	91
29	Identification of PK-A Phosphorylation Sites in the Carboxyl Terminus of L-Type Calcium Channel Î±1Subunitsâ€. Biochemistry, 1996, 35, 9400-9406.	2.5	90
30	Calcium Channels. Vitamins and Hormones, 1988, 44, 155-328.	1.7	87
31	Stereoselective photoaffinity labelling of the purified 1,4-dihydropyridine receptor of the voltage-dependent calcium channel. FEBS Journal, 1986, 161, 603-609.	0.2	86
32	(?)-3H-desmethoxyverapamil labelling of putative calcium channels in brain: autoradiographic distribution and allosteric coupling to 1,4-dihydropyridine and diltiazem binding sites. Naunyn-Schmiedeberg's Archives of Pharmacology, 1984, 327, 183-187.	3.0	82
33	Phenylalkylamine Ca2+ Antagonist Binding Protein. Journal of Biological Chemistry, 1995, 270, 7551-7557.	3.4	79
34	Two Amino Acid Residues in the IIIS5 Segment of L-Type Calcium Channels Differentially Contribute to 1,4-Dihydropyridine Sensitivity. Journal of Biological Chemistry, 1996, 271, 30330-30335.	3.4	75
35	Pharmacological Analysis of Sterol Î”8-Î”7 Isomerase Proteins with [³H]Ifenprodil. Molecular Pharmacology, 1998, 54, 591-598.	2.3	75
36	Neurotoxic aminoglycoside antibiotics are potent inhibitors of [125I]-Omega-Conotoxin GVIA binding to guinea-pig cerebral cortex membranes. Naunyn-Schmiedeberg's Archives of Pharmacology, 1987, 336, 583-6.	3.0	73

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37	Transfer of High Sensitivity for Benzothiazepines from L-type to Class A (BI) Calcium Channels. Journal of Biological Chemistry, 1996, 271, 24471-24475.	3.4	72
38	Human red-blood-cell Ca2+-antagonist binding sites. Evidence for an unusual receptor coupled to the nucleoside transporter. FEBS Journal, 1985, 150, 67-77.	0.2	71
39	Calcium- and potassium-channel blockers interact with Î±-adrenoceptors. Molecular and Cellular Endocrinology, 1980, 19, 243-251.	3.2	70
40	Nine L-type Amino Acid Residues Confer Full 1,4-Dihydropyridine Sensitivity to the Neuronal Calcium Channel Î±1ASubunit. Journal of Biological Chemistry, 1997, 272, 27686-27693.	3.4	70
41	Yeast Sterol C8â^'C7Isomerase:Â Identification and Characterization of a High-Affinity Binding Site for Enzyme Inhibitorsâ€. Biochemistry, 1996, 35, 16871-16878.	2.5	65
42	Novel 1,4-Dihydropyridine (Bay K 8644) Facilitates Calcium-Dependent [3H]Noradrenaline Release from PC 12 Cells. Journal of Neurochemistry, 1984, 42, 1186-1189.	3.9	63
43	Molecular mechanisms of the effects of sildenafil (VIAGRAÂ®). Experimental Gerontology, 1999, 34, 305-318.	2.8	63
44	Conserved Ca2+-antagonist-binding properties and putative folding structure of a recombinant high-affinity dihydropyridine-binding domain. Biochemical Journal, 2000, 347, 829-836.	3.7	63
45	Resolving the structure of the Ca2+ channel by photoaffinity labelling. Trends in Pharmacological Sciences, 1987, 8, 95-100.	8.7	61
46	Î±-adrenoceptors in rat brain: Sodium changes the affinity of agonists for prazosin sites. European Journal of Pharmacology, 1980, 61, 407-408.	3.5	58
47	Novel pharmacological chaperones that correct phenylketonuria in mice. Human Molecular Genetics, 2012, 21, 1877-1887.	2.9	58
48	[125I]-HEAT, a selective, high-affinity, high specific activity ligand for alpha1-adrenoceptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1981, 318, 1-9.	3.0	57
49	Pharmacology and structure of high conductance calcium-activated potassium channels. Cellular Signalling, 1994, 6, 861-870.	3.6	57
50	Genetic Defects in Postsqualene Cholesterol Biosynthesis. Trends in Endocrinology and Metabolism, 2000, 11, 106-114.	7.1	57
51	Calcium channels: The Î²-subunit increases the affinity of dihydropyridine and Ca2+binding sites of the Î±1-subunit. FEBS Letters, 1994, 352, 141-145.	2.8	56
52	Molecular basis of drug interaction with L-type Ca2+ channels. Journal of Bioenergetics and Biomembranes, 1998, 30, 319-334.	2.3	55
53	Target size analysis and molecular properties of Ca2+ channels labelled with [3H]verapamil. FEBS Journal, 1984, 141, 177-186.	0.2	54
54	Differential labelling of putative skeletal muscle calcium channels by [3H]-nifedipine, [3H]-nitrendipine, [3H]-nimodipine and [3H]-PN 200 110. Naunyn-Schmiedeberg's Archives of Pharmacology, 1983, 323, 276-277.	3.0	53

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55	Molecular structure of rat brain apamin receptor: differential photoaffinity labeling of putative potassium channel subunits and target size analysis. Biochemistry, 1986, 25, 4051-4057.	2.5	53
56	Block of P/Q-Type Calcium Channels by Therapeutic Concentrations of Aminoglycoside Antibioticsâ€. Biochemistry, 1996, 35, 14659-14664.	2.5	53
57	Identification of Voltage Operated Calcium Channels by Binding Studies: Differentiation of Subclasses of Calcium Antagonist Drugs with³H-Nimodipine Radioligand Binding. Journal of Receptors and Signal Transduction, 1983, 3, 177-190.	1.2	51
58	Transfer of L-type Calcium Channel IVS6 Segment Increases Phenylalkylamine Sensitivity of Î±1A. Journal of Biological Chemistry, 1996, 271, 11745-11749.	3.4	51
59	Pah enu1 is a mouse model for tetrahydrobiopterin-responsive phenylalanine hydroxylase deficiency and promotes analysis of the pharmacological chaperone mechanism in vivo. Human Molecular Genetics, 2010, 19, 2039-2049.	2.9	49
60	Coordination of Ca2+ by the Pore Region Glutamates Is Essential for High-Affinity Dihydropyridine Binding to the Cardiac Ca2+ Channel a1 Subunit. Biochemistry, 1995, 34, 9350-9355.	2.5	47
61	[125I] N6-p-hydroxyphenylisopropyladenosine, a new ligand for Ri adenosine receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1982, 321, 84-87.	3.0	43
62	Mechanism of Dihydropyridine Interaction with Critical Binding Residues of L-type Ca2+ Channel Î±1 Subunits. Journal of Biological Chemistry, 2001, 276, 12730-12735.	3.4	42
63	Mechanism of action of dexniguldipine-HCl (B8509-035), a new potent modulator of multidrug resistance. Biochemical Pharmacology, 1995, 49, 603-609.	4.4	41
64	Pharmacology of metformin â€“ An update. European Journal of Pharmacology, 2019, 865, 172782.	3.5	41
65	Alpha2 adrenoceptors in rat brain. Naunyn-Schmiedeberg's Archives of Pharmacology, 1980, 314, 101-109.	3.0	40
66	Association of the src-gene product of rous sarcoma virus with a pyruvate-kinase inactivating factor. Molecular and Cellular Endocrinology, 1981, 23, 49-63.	3.2	40
67	Differential Effects of Ca2+ Channel Î²1a and Î²2a Subunits on Complex Formation with Î±1S and on Current Expression in tsA201 Cells. Journal of Biological Chemistry, 1998, 273, 9110-9118.	3.4	40
68	Histidine77, Glutamic Acid81, Glutamic Acid123, Threonine126, Asparagine194, and Tryptophan197 of the Human Emopamil Binding Protein Are Required for in Vivo Sterol Î”8â€“Î”7 Isomerization. Biochemistry, 1999, 38, 1119-1127.	2.5	40
69	Putative calcium channel molecular weight determination by target size analysis. Naunyn-Schmiedeberg's Archives of Pharmacology, 1983, 323, 292-297.	3.0	38
70	A rapid procedure for the purification of cardiac 1,4-dihydropyridine receptors from porcine heart. European Journal of Pharmacology, 1991, 207, 51-59.	2.6	38
71	Insect calcium channels. FEBS Letters, 1994, 339, 189-194.	2.8	38
72	Complex Molecular Mechanism for Dihydropyridine Binding to L-Type Ca2+-Channels As Revealed by Fluorescence Resonance Energy Transfer. Biochemistry, 1994, 33, 11875-11883.	2.5	37

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73	Prospective Virtual Screening in a Sparse Data Scenario: Design of Smallâ€Molecule TLR2 Antagonists. ChemMedChem, 2014, 9, 813-822.	3.2	33
74	Origin of 7-Dehydrocholesterol (Provitamin D) in the Skin. Journal of Investigative Dermatology, 2010, 130, 2139-2141.	0.7	31
75	Molecular Properties of Voltage-Dependent Ca²⁺ Channels in Excitable Tissues. Cellular Physiology and Biochemistry, 1993, 3, 295-317.	1.6	30
76	WIN 17317-3, a New High-Affinity Probe for Voltage-Gated Sodium Channelsâ€. Biochemistry, 1999, 38, 11137-11146.	2.5	30
77	Molecular genetics of the Smith-Lemli-Opitz syndrome and postsqualene sterol metabolism. Current Opinion in Lipidology, 1999, 10, 123-132.	2.7	30
78	Bovine adrenal cortex adenylate cyclase: Properties of the particulate enzyme and effects of guanyl nucleotides. Naunyn-Schmiedeberg's Archives of Pharmacology, 1975, 289, 77-97.	3.0	29
79	Sequence Differences between Î±1C and Î±1S Ca2+ Channel Subunits Reveal Structural Determinants of a Guarded and Modulated Benzothiazepine Receptor. Journal of Biological Chemistry, 1999, 274, 6154-6160.	3.4	29
80	The Use of Ligand Binding for the Characterisation of Î±-Adrenoceptors. Journal of Cardiovascular Pharmacology, 1980, 2, S303-S324.	1.9	28
81	Evidence for a distinct Ca2+ antagonist receptor for the novel benzothiazinone compound HOE 166. Naunyn-Schmiedeberg's Archives of Pharmacology, 1988, 337, 331-40.	3.0	28
82	Conserved Ca2+-antagonist-binding properties and putative folding structure of a recombinant high-affinity dihydropyridine-binding domain. Biochemical Journal, 2000, 347, 829.	3.7	27
83	The preparation of brush border membranes from rat kidney using an aqueous two-phase polymer system. Naunyn-Schmiedeberg's Archives of Pharmacology, 1974, 282, 439-444.	3.0	26
84	125I-iodipine*, a new high affinity ligand for the putative calcium channel. Naunyn-Schmiedeberg's Archives of Pharmacology, 1984, 325, 186-189.	3.0	25
85	Stereospecific regulation of [3H]inositol monophosphate accumulation by calcium channel drugs from all three main chemical classes. European Journal of Pharmacology, 1986, 128, 221-229.	3.5	24
86	L-Type Calcium Channels:Â Binding Domains for Dihydropyridines and Benzothiazepines Are Located in Close Proximity to Each Otherâ€. Biochemistry, 1997, 36, 3625-3631.	2.5	24
87	Cloning of an emopamil-binding protein (EBP)-like protein that lacks sterol Î”8-Î”7 isomerase activity. Biochemical Journal, 2003, 374, 229-237.	3.7	24
88	A marriage of two â€œMethusalemâ€•drugs for the treatment of psoriasis?. Dermato-Endocrinology, 2013, 5, 252-263.	1.8	24
89	[125I]-HEAT: Fifty percent of the ligand can bind to the alpha1-adrenoceptors with extremely high affinity. Naunyn-Schmiedeberg's Archives of Pharmacology, 1982, 321, 7-10.	3.0	22
90	Native and detergent-solubilized membrane extracts from Drosophila heads contain binding sites for phenylalkylamine calcium channel blockers. Insect Biochemistry, 1989, 19, 309-322.	1.8	22

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91	Cation sensitivity of [125I]heat binding to Î±1-adrenoceptors in rat cerebral cortex membranes. European Journal of Pharmacology, 1981, 75, 149-153.	3.5	20
92	Ca2+ antagonist receptor sites on human red blood cell membranes. European Journal of Pharmacology, 1985, 108, 329-330.	3.5	20
93	Vitamin D, UV, and Skin Cancer in the Elderly: To Expose or Not to Expose?. Gerontology, 2011, 57, 350-353.	2.8	16
94	Ionic Modulation of Î±-Adrenoceptors. Journal of Cardiovascular Pharmacology, 1982, 4, S51-S57.	1.9	15
95	Generalized Large Vessel Arteritis Visualized by 18 Fluorodeoxyglucose-Positron Emission Tomography. Circulation, 2003, 107, 923-923.	1.6	15
96	Soluble bovine adrenal cortex guanylate cyclase: Effect of sodium nitroprusside, nitrosamines, and hydrophobic ligands on activity, substrate specificity and cation requirement. Naunyn-Schmiedeberg's Archives of Pharmacology, 1978, 304, 51-61.	3.0	14
97	Radiation inactivation of alpha1-adrenoceptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1983, 323, 96-100.	3.0	14
98	Very high affinity interaction of DPI 201â€106 and BDF 8784 enantiomers with the phenylalkylamineâ€sensitive Ca²⁺â€channel in Drosophila head membranes. British Journal of Pharmacology, 1991, 102, 446-452.	5.4	13
99	New insights into tetrahydrobiopterin pharmacodynamics from Pahenu1/2, a mouse model for compound heterozygous tetrahydrobiopterin-responsive phenylalanine hydroxylase deficiency. Biochemical Pharmacology, 2010, 80, 1563-1571.	4.4	13
100	Purification of L-Type Calcium Channel Drug Receptors. Methods in Neurosciences, 1991, 4, 210-229.	0.5	13
101	Sodium ions increase the affinity of clonidine for ?1-adrenoceptors in rat brain. Naunyn-Schmiedeberg's Archives of Pharmacology, 1980, 312, 105-106.	3.0	12
102	Purification and Reconstitution of Calcium Channel Drug-Receptor Sites. Annals of the New York Academy of Sciences, 1988, 522, 150-161.	3.8	12
103	Benzothiazepinone Binding Domain of Purified L-Type Calcium Channels: Direct Labeling Using a Novel Fluorescent Diltiazem Analog. Biochemistry, 1995, 34, 3461-3469.	2.5	12
104	[3H]HOE166 defines a novel calcium antagonist drug receptor ? distinct from the 1,4 dihydropyridine binding domain. Naunyn-Schmiedeberg's Archives of Pharmacology, 1989, 340, 752-9.	3.0	11
105	Torpor: The Rise and Fall of 3-Monoiodothyronamine from Brain to Gutâ€"From Gut to Brain?. Frontiers in Endocrinology, 2017, 8, 118.	3.5	10
106	Phlorizin receptors in isolated kidney brush border membranes Differential enzymatic modification of high-affinity receptors and unspecific binding sites. Biochimica Et Biophysica Acta - Biomembranes, 1973, 323, 408-414.	2.6	9
107	Analysis of Membrane Protein Self-Association in Lipid Systems by Fluorescence Particle Counting:Â Application to the Dihydropyridine Receptorâ€. Biochemistry, 1997, 36, 4497-4504.	2.5	9
108	Targeting the Kv1.3 potassium channel for immunosuppression in vascularized composite allotransplantation - a pilot study. Transplant International, 2013, 26, 552-561.	1.6	9

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109	Uneventful self poisoning with a very high dose of captopril. Toxicology, 1990, 64, 325-329.	4.2	8
110	Novel sites for phenylalkylamines: characterisation of a sodium-sensitive drug receptor with (â˜)-[3H]emopamil. European Journal of Pharmacology, 1991, 208, 119-130.	2.6	8
111	Improved micro-perfusion chamber for multiple and rapid solution exchange in adherent single cells. Pflugers Archiv European Journal of Physiology, 1995, 429, 436-442.	2.8	6
112	Mammalian Î²-adrenoceptors: concomitant biospecific elution with protein kinase activity from sepharose-alprenolol. European Journal of Pharmacology, 1981, 75, 197-204.	3.5	5
113	A Molecular Model of Excitation-Contraction Coupling at the Skeletal Muscle Triad Junction via Coassociated Oligomeric Calcium Channels. Annals of the New York Academy of Sciences, 1989, 560, 185-188.	3.8	5
114	Does rosuvastatin increase serum levels of 25-hydroxy-vitamin D?. Dermato-Endocrinology, 2012, 4, 2-7.	1.8	5
115	Commentary: Lactate-Induced Glucose Output Is Unchanged by Metformin at a Therapeutic Concentrationâ€"A Mass Spectrometry Imaging Study of the Perfused Rat Liver. Frontiers in Pharmacology, 2019, 10, 90.	3.5	5
116	The mitochondrial high-capacity low-affinity (Â±)-[3H]nitrendipine binding site is regulated by nucleotides. European Journal of Pharmacology, 1988, 157, 67-73.	3.5	4
117	Bitter pill to swallow over medical education. Nature, 1998, 396, 614-614.	27.8	4
118	Hydrophobic calcium channel ligands: Methodical problems and their solution. American Journal of Cardiology, 1989, 64, I43-I50.	1.6	2
119	Effect of oc-adrenoceptor agonists on cell membrane potential in renal epitheloid Madin Darby canine kidney cells. European Journal of Pharmacology, 1991, 195, 399-401.	3.5	2
120	Oral Supplementation with Calcitriol, Calcidiol, Vitamin D 3 or Moderate Sun Exposure?. Journal of Investigative Dermatology, 2013, 133, 2648-2649.	0.7	2
121	The increase in hormone-stimulated adenylate cyclase activity following rous sarcoma virus transformation. Journal of Cellular Physiology, 1982, 111, 295-302.	4.1	1
122	L-type calcium channels and calcium channel ligands. Pharmacochemistry Library, 1992, , 333-343.	0.1	1
123	Erratum. Trends in Endocrinology and Metabolism, 2000, 11, 150.	7.1	0
124	GUANYLATE CYCLASE IN ADRENAL CORTEX. , 1979, , 43-55.		0