

Magali Waelbroeck

List of Publications by Year in descending order

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68
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docs citations

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#	ARTICLE	IF	CITATIONS
1	Development of High Affinity Selective VIP1 Receptor Agonists. <i>Peptides</i> , 1997, 18, 1539-1545.	2.4	190
2	In Vitro Properties of a High Affinity Selective Antagonist of the VIP1 Receptor. <i>Peptides</i> , 1997, 18, 1555-1560.	2.4	173
3	The Long-Acting Vasoactive Intestinal Polypeptide Agonist RO 25-1553 Is Highly Selective of the VIP 2 Receptor Subclass. <i>Peptides</i> , 1997, 18, 403-408.	2.4	162
4	Interaction of Growth Hormone-Releasing Factor (GRF) and 14 GRF Analogs with Vasoactive Intestinal Peptide (VIP) Receptors of Rat Pancreas. Discovery of (N-Ac-Tyr ¹ ,D-Phe ²)-GRF(1-29)-NH ₂ as a VIP Antagonist*. <i>Endocrinology</i> , 1985, 116, 2643-2649.	2.8	154
5	Techniques: Promiscuous G _i ± proteins in basic research and drug discovery. <i>Trends in Pharmacological Sciences</i> , 2005, 26, 595-602.	8.7	125
6	Affinity profiles of hexahydro-sila-difenidol analogues at muscarinic receptor subtypes. <i>European Journal of Pharmacology</i> , 1989, 168, 71-80.	3.5	101
7	The C-terminus ends of secretin and VIP interact with the N-terminal domains of their receptors. <i>Peptides</i> , 1996, 17, 825-829.	2.4	78
8	Purification of a novel pancreatic secretory factor (PSF) and a novel peptide with VIP- and secretin-like properties (helodermin) from Gila monster venom. <i>FEBS Letters</i> , 1984, 166, 273-276.	2.8	68
9	Two Basic Residues of the h-VPAC1 Receptor Second Transmembrane Helix Are Essential for Ligand Binding and Signal Transduction. <i>Journal of Biological Chemistry</i> , 2001, 276, 1084-1088.	3.4	60
10	Properties of the VIP-PACAP type II receptor stably expressed in CHO cells. <i>Regulatory Peptides</i> , 1994, 54, 397-407.	1.9	58
11	Evidence that helodermin, a newly extracted peptide from Gila monster venom, is a member of the secretin/VIP/PHI family of peptides with an original pattern of biological properties. <i>FEBS Letters</i> , 1984, 166, 277-282.	2.8	57
12	A new type of functional VIP receptor has an affinity for helodermin in human SUP-T1 lymphoblasts. <i>FEBS Letters</i> , 1988, 228, 351-355.	2.8	54
13	Interaction of vasoactive intestinal peptide (VIP) and N-terminally modified VIP analogs with rat pancreatic, hepatic and pituitary membranes. <i>FEBS Journal</i> , 1986, 159, 45-49.	0.2	47
14	Pharmacological properties of two recombinant splice variants of the PACAP type I receptor, transfected and stably expressed in CHO cells. <i>European Journal of Pharmacology</i> , 1995, 288, 259-267.	2.6	46
15	Contribution of the second transmembrane helix of the secretin receptor to the positioning of secretin. <i>FEBS Letters</i> , 1998, 424, 207-210.	2.8	46
16	Specific labelling by [¹²⁵ I]helodermin of high-affinity VIP receptors in rat liver membranes. <i>FEBS Letters</i> , 1984, 172, 55-58.	2.8	45
17	Importance of disulfide bonds in receptors for vasoactive intestinal peptide and secretin in rat pancreatic plasma membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 773, 271-278.	2.6	44
18	Mutational Analysis of Extracellular Cysteine Residues of Rat Secretin Receptor Shows that Disulfide Bridges are Essential for Receptor Function. <i>FEBS Journal</i> , 1997, 246, 173-180.	0.2	44

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19	G protein activation by G protein coupled receptors: ternary complex formation or catalyzed reaction?. <i>Biochemical Pharmacology</i> , 2004, 68, 799-806.	4.4	40
20	Different Vasoactive Intestinal Polypeptide Receptor Domains Are Involved in the Selective Recognition of Two VPAC2-Selective Ligands. <i>Molecular Pharmacology</i> , 1999, 56, 1280-1287.	2.3	38
21	Stereoselectivity of the enantiomers of trihexyphenidyl and its methiodide at muscarinic receptor subtypes. <i>European Journal of Pharmacology</i> , 1988, 155, 167-170.	3.5	37
22	Interaction of Amino Acid Residues at Positions 8-15 of Secretin with the N-Terminal Domain of the Secretin Receptor. <i>FEBS Journal</i> , 1996, 239, 349-355.	0.2	36
23	Effects of verapamil on the binding properties of rat heart muscarinic receptors: Evidence for an allosteric site. <i>Biochemical and Biophysical Research Communications</i> , 1984, 121, 340-345.	2.1	35
24	Mutational analysis of the glucagon receptor: similarities with the vasoactive intestinal peptide (VIP)/pituitary adenylate cyclase-activating peptide (PACAP)/secretin receptors for recognition of the ligand's third residue. <i>Biochemical Journal</i> , 2002, 362, 389-394.	3.7	35
25	CCK and gastrin inhibit adenylate cyclase activity through a pertussis toxin-sensitive mechanism in the tumoral rat pancreatic acinar cell line AR 4-2J. <i>FEBS Letters</i> , 1988, 242, 61-64.	2.8	34
26	Mutational analysis of the glucagon receptor: similarities with the vasoactive intestinal peptide (VIP)/pituitary adenylate cyclase-activating peptide (PACAP)/secretin receptors for recognition of the ligand's third residue. <i>Biochemical Journal</i> , 2002, 362, 389.	3.7	33
27	80% of muscarinic receptors expressed by the NB-OK 1 human neuroblastoma cell line show high affinity for pirenzepine and are comparable to rat hippocampus M1 receptors. <i>FEBS Letters</i> , 1988, 226, 287-290.	2.8	32
28	Interaction of lipophilic VIP derivatives with recombinant VIP1/PACAP and VIP2/PACAP receptors. <i>European Journal of Pharmacology</i> , 1998, 354, 105-111.	3.5	30
29	Different antagonist binding properties of rat pancreatic and cardiac muscarinic receptors. <i>Life Sciences</i> , 1987, 41, 2235-2240.	4.3	25
30	Vasoactive intestinal peptide modification at position 22 allows discrimination between receptor subtypes. <i>European Journal of Pharmacology</i> , 1998, 348, 95-99.	3.5	25
31	Vasoactive intestinal polypeptide VPAC1 and VPAC2 receptor chimeras identify domains responsible for the specificity of ligand binding and activation. <i>FEBS Journal</i> , 1999, 265, 449-456.	0.2	25
32	Stereoselectivity of procyclidine binding to muscarinic receptor subtypes M1, M2 and M4. <i>European Journal of Pharmacology</i> , 1990, 189, 135-142.	2.6	24
33	The (S)-(+)-enantiomer of dimethindene: a novel M2-selective muscarinic receptor antagonist. <i>European Journal of Pharmacology</i> , 1995, 286, 229-240.	3.5	24
34	Comparative structural requirements of thirty GRF analogs for interaction with GRF- and VIP receptors and coupling to adenylate cyclase in rat adenopituitary, liver and pancreas. <i>Peptides</i> , 1986, 7, 53-59.	2.4	22
35	Effector mechanisms of peptides of the VIP family. <i>Peptides</i> , 1986, 7, 101-107.	2.4	22
36	Kinetics versus equilibrium: the importance of GTP in GPCR activation. <i>Trends in Pharmacological Sciences</i> , 1999, 20, 477-481.	8.7	21

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37	Activation of Guanosine 5'-[³⁵ S]thio-triphosphate Binding through M ₁ Muscarinic Receptors in Transfected Chinese Hamster Ovary Cell Membranes: 1. Mathematical Analysis of Catalytic G Protein Activation. <i>Molecular Pharmacology</i> , 2001, 59, 875-885.	2.3	20
38	Secoverine is a non-selective muscarinic antagonist on rat heart and brain receptors. <i>European Journal of Pharmacology</i> , 1986, 127, 17-25.	3.5	19
39	Seven Helix Receptors are Enzymes Catalysing G Protein Activation. What is the Agonist Kact?. <i>Journal of Theoretical Biology</i> , 1997, 187, 15-37.	1.7	19
40	Inhibition of Forskolin-stimulated cardiac adenylate cyclase activity by short-chain alcohols. <i>FEBS Letters</i> , 1983, 154, 205-208.	2.8	18
41	Vasoactive Intestinal Peptide Receptors in Pancreas and Liver. Structure-Function Relationship. <i>Annals of the New York Academy of Sciences</i> , 1988, 527, 238-256.	3.8	18
42	Analysis of the glucagon receptor first extracellular loop by the substituted cysteine accessibility method. <i>Peptides</i> , 2011, 32, 1593-1599.	2.4	18
43	[d-Phe ⁴]Peptide histidine-isoleucinamide ([d-Phe ⁴]PHI), a highly selective vasoactive-intestinal-peptide (VIP) agonist, discriminates VIP-preferring from secretin-preferring receptors in rat pancreatic membranes. <i>FEBS Journal</i> , 1987, 165, 243-249.	0.2	16
44	Mutational and Cysteine Scanning Analysis of the Glucagon Receptor N-terminal Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 30951-30958.	3.4	16
45	A Critical View of the Methods for Characterization of the VIP/PACAP Receptor Subclasses. <i>Annals of the New York Academy of Sciences</i> , 1998, 865, 157-163.	3.8	14
46	Activation of Guanosine 5'-[³⁵ S]thio-triphosphate Binding through M ₁ Muscarinic Receptors in Transfected Chinese Hamster Ovary Cell Membranes: 2. Testing the Two-States Model of Receptor Activation. <i>Molecular Pharmacology</i> , 2001, 59, 886-893.	2.3	14
47	Secretin-induced changes in rate, contractility and adenylate cyclase activity in rat heart atria. <i>Pflügers Archiv European Journal of Physiology</i> , 1984, 401, 1-5.	2.8	13
48	In Vitro Effects of Gallamine on Dissociation Kinetics of (3H) N-Methylscopolamine and (3H) Pirenzepine from Rat Brain Muscarinic Receptors. <i>Journal of Receptors and Signal Transduction</i> , 1986, 6, 47-61.	1.2	11
49	Alterations of rat cardiac adenylate cyclase activity with age. <i>European Journal of Pharmacology</i> , 1986, 126, 91-95.	3.5	10
50	Pancreatic secretory factor (PSF), a protein from Gila monster venom stimulating enzyme secretion from rat pancreatic acini. <i>FEBS Letters</i> , 1984, 166, 283-287.	2.8	9
51	Characterization of a novel VPAC1 selective agonist and identification of the receptor domains implicated in the carboxyl-terminal peptide recognition. <i>British Journal of Pharmacology</i> , 2000, 130, 819-826.	5.4	9
52	(Hydroxymethyl)diphenyl(piperidinoalkyl)silane des Typs (HOCH ₂)(C ₆ H ₅) ₂ Si(CH ₂) _n NC ₅ H ₁₀ (n=2,3) und deren Methiodide: Synthese, Struktur und antimuscarinische Eigenschaften / (Hydroxymethyl)diphenyl(piperidinoalkyl)silanes of the Type (HOCH ₂)(C ₆ H ₅) ₂ Si(CH ₂) _n NC ₅ H ₁₀ (n = 2,3) and their Methiodides: Synthesis, Structure and Antimuscarinic Properties. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1994, 49, 898-910.	0.7	8
53	A Small Sequence in the Third Intracellular Loop of the VPAC1 Receptor Is Responsible for Its Efficient Coupling to the Calcium Effector. <i>Molecular Endocrinology</i> , 2002, 16, 1089-1096.	3.7	8
54	Evidence for Multiple Rat VPAC1 Receptor States with Different Affinities for Agonists. <i>Cellular Signalling</i> , 1999, 11, 691-696.	3.6	7

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55	Allosteric drugs acting at muscarinic acetylcholine receptors. <i>Neurochemical Research</i> , 2003, 28, 419-422.	3.3	7
56	Evidence that the lizard helospectin peptides are O-glycosylated. <i>FEBS Journal</i> , 2000, 267, 4556-4560.	0.2	6
57	Transglutaminase-mediated polyamination of vasoactive intestinal peptide (VIP) Gln16 residue modulates VIP/PACAP receptor activity. <i>FEBS Journal</i> , 2002, 269, 3211-3219.	0.2	6
58	Stimulation by ionophore A23187 and carbamylcholine of prostaglandins release from the thyroid glandin vitro. <i>Archives Internationales De Physiologie Et De Biochimie</i> , 1977, 85, 1031-1032.	0.2	5
59	Effect of freezing on the coupling of VIP receptors to adenylate cyclase in rat liver membranes. <i>Life Sciences</i> , 1988, 42, 505-510.	4.3	5
60	VPAC1 receptors have different agonist efficacy profiles on membrane and intact cells. <i>Cellular Signalling</i> , 2002, 14, 689-694.	3.6	5
61	Characterization and regulation of the expression of scyllatoxin (Leurotoxin I) receptors in the human neuroblastoma cell line NB-OK 1. <i>FEBS Letters</i> , 1991, 285, 271-274.	2.8	4
62	Properties of a Recombinant Human Secretin Receptor. <i>Pancreas</i> , 1999, 19, 51-55.	1.1	3
63	Evidence for a direct interaction between the Thr11 residue of vasoactive intestinal polypeptide and Tyr184 located in the first extracellular loop of the VPAC2 receptor. <i>Biochemical Journal</i> , 2003, 370, 1003-1009.	3.7	2
64	Similarities of the Guanine Nucleotide Binding Sites Responsible for Adenylate Cyclase Activation and Carbamylcholine Binding Inhibition in Rat Heart Membranes. <i>Protides of the Biological Fluids; Proceedings of the Colloquium</i> , 1982, 29, 381-384.	0.1	2
65	Heterogeneity of Vip-Secretin Receptors in three Rat Tissues. <i>Protides of the Biological Fluids; Proceedings of the Colloquium</i> , 1982, 29, 509-512.	0.1	1
66	Biological Recognition of Enantiomeric Silanes and Germanes: Syntheses and Antimuscarinic Properties of the Enantiomers of the Si/Ge Analogues Cyclohexyl(hydroxymethyl)phenyl(2-Piperidinoethyl)silane and -Germane and Their Methiodides. , 0, , 231-236.		0
67	Biological Recognition of Enantiomeric Silanes and Germanes: Syntheses and Antimuscarinic Properties of the Enantiomers of the Si/Ge Analogues Cyclohexyl(hydroxymethyl)phenyl(2-Piperidinoethyl)silane and -Germane and Their Methiodides. , 0, , 231-236.		0
68	An alternative presentation of metabolism. <i>Biochemistry and Molecular Biology Education</i> , 2007, 35, 233-237.	1.2	0