

Gerd Krause

List of Publications by Year in descending order

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82
papers

4,906
citations

81900

39
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95266

68
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83
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docs citations

83
times ranked

4305
citing authors

#	ARTICLE	IF	CITATIONS
1	Rescue of Function of Mutant Luteinising Hormone Receptors with Deficiencies in Cell Surface Expression, Hormone Binding, and Hormone Signalling. <i>Neuroendocrinology</i> , 2021, 111, 451-464.	2.5	10
2	Molecular Modelling. , 2021, , 1-8.		0
3	Identification of Key Receptor Residues Discriminating Human Chorionic Gonadotropin (hCG)- and Luteinizing Hormone (LH)-Specific Signaling. <i>International Journal of Molecular Sciences</i> , 2021, 22, 151.	4.1	7
4	Molecular Modelling. , 2021, , 986-993.		0
5	Molecular Mechanisms of Thyroid Hormone Transport by L-Type Amino Acid Transporter. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2020, 128, 379-382.	1.2	1
6	Targeting claudin-overexpressing thyroid and lung cancer by modified <i>Clostridium perfringens</i> enterotoxin. <i>Molecular Oncology</i> , 2020, 14, 261-276.	4.6	17
7	Modulating TSH Receptor Signaling for Therapeutic Benefit. <i>European Thyroid Journal</i> , 2020, 9, 66-77.	2.4	13
8	Molecular architecture and assembly of the tight junction backbone. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183279.	2.6	67
9	Use of Modified <i>Clostridium perfringens</i> Enterotoxin Fragments for Claudin Targeting in Liver and Skin Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4774.	4.1	10
10	Thyrotropin Receptor: Allosteric Modulators Illuminate Intramolecular Signaling Mechanisms at the Interface of Ecto- and Transmembrane Domain. <i>Molecular Pharmacology</i> , 2019, 96, 452-462.	2.3	17
11	A New Highly Thyrotropin Receptor-Selective Small-Molecule Antagonist with Potential for the Treatment of Graves' Orbitopathy. <i>Thyroid</i> , 2019, 29, 111-123.	4.5	55
12	Reversible opening of the blood-brain barrier by claudin-5-binding variants of <i>Clostridium perfringens</i> enterotoxin's claudin-binding domain. <i>Biomaterials</i> , 2018, 161, 129-143.	11.4	49
13	In Colon Epithelia, <i>Clostridium perfringens</i> Enterotoxin Causes Focal Leaks by Targeting Claudins Which are Apically Accessible Due to Tight Junction Derangement. <i>Journal of Infectious Diseases</i> , 2018, 217, 147-157.	4.0	46
14	Intervention Strategies into Glycoprotein Hormone Receptors for Modulating (Malfunction), with Special Emphasis on the TSH Receptor. <i>Hormone and Metabolic Research</i> , 2018, 50, 894-907.	1.5	10
15	Molecular features of the L-type amino acid transporter 2 determine different import and export profiles for thyroid hormones and amino acids. <i>Molecular and Cellular Endocrinology</i> , 2017, 443, 163-174.	3.2	14
16	Membrane-traversing mechanism of thyroid hormone transport by monocarboxylate transporter 8. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2299-2318.	5.4	14
17	Polar and charged extracellular residues conserved among barrier-forming claudins contribute to tight junction strand formation. <i>Annals of the New York Academy of Sciences</i> , 2017, 1397, 143-156.	3.8	27
18	GPCR-SSFE 2.0—a fragment-based molecular modeling web tool for Class A G-protein coupled receptors. <i>Nucleic Acids Research</i> , 2017, 45, W408-W415.	14.5	35

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19	Claudins are essential for cell shape changes and convergent extension movements during neural tube closure. <i>Developmental Biology</i> , 2017, 428, 25-38.	2.0	24
20	Thyroid hormone transport across L-type amino acid transporters: What can molecular modelling tell us?. <i>Molecular and Cellular Endocrinology</i> , 2017, 458, 68-75.	3.2	27
21	Establishment of a Human Blood-Brain Barrier Co-culture Model Mimicking the Neurovascular Unit Using Induced Pluri- and Multipotent Stem Cells. <i>Stem Cell Reports</i> , 2017, 8, 894-906.	4.8	225
22	Structural determinants of a conserved enantiomer-selective carvone binding pocket in the human odorant receptor OR1A1. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 4209-4229.	5.4	46
23	A cCPE-based xenon biosensor for magnetic resonance imaging of claudin-expressing cells. <i>Annals of the New York Academy of Sciences</i> , 2017, 1397, 195-208.	3.8	14
24	Targeting and alteration of tight junctions by bacteria and their virulence factors such as <i>Clostridium perfringens</i> enterotoxin. <i>Pflügers Archiv European Journal of Physiology</i> , 2017, 469, 77-90.	2.8	55
25	Structural-Functional Features of the Thyrotropin Receptor: A Class A G-Protein-Coupled Receptor at Work. <i>Frontiers in Endocrinology</i> , 2017, 8, 86.	3.5	73
26	Specific binding of a mutated fragment of <i>Clostridium perfringens</i> enterotoxin to endothelial claudin-5 and its modulation of cerebral vascular permeability. <i>Neuroscience</i> , 2016, 327, 53-63.	2.3	39
27	Involvement of the L-Type Amino Acid Transporter Lat2 in the Transport of 3,3-Diiodothyronine across the Plasma Membrane. <i>European Thyroid Journal</i> , 2015, 4, 42-50.	2.4	22
28	Differences in Signal Activation by LH and hCG are Mediated by the LH/CG Receptor's Extracellular Hinge Region. <i>Frontiers in Endocrinology</i> , 2015, 6, 140.	3.5	36
29	Structural Insights Into Thyroid Hormone Transport Mechanisms of the L-Type Amino Acid Transporter 2. <i>Molecular Endocrinology</i> , 2015, 29, 933-942.	3.7	20
30	Transport of Iodothyronines by Human L-Type Amino Acid Transporters. <i>Endocrinology</i> , 2015, 156, 4345-4355.	2.8	47
31	Directed structural modification of <i>Clostridium perfringens</i> enterotoxin to enhance binding to claudin-5. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 1417-1432.	5.4	45
32	Claudin-3 and Claudin-5 Protein Folding and Assembly into the Tight Junction Are Controlled by Non-conserved Residues in the Transmembrane 3 (TM3) and Extracellular Loop 2 (ECL2) Segments. <i>Journal of Biological Chemistry</i> , 2014, 289, 7641-7653.	3.4	76
33	Molecular and structural transmembrane determinants critical for embedding claudin-5 into tight junctions reveal a distinct four-helix bundle arrangement. <i>Biochemical Journal</i> , 2014, 464, 49-60.	3.7	21
34	Differences between lutropin-mediated and choriogonadotropin-mediated receptor activation. <i>FEBS Journal</i> , 2014, 281, 1479-1492.	4.7	23
35	The Specific Monomer/Dimer Equilibrium of the Corticotropin-releasing Factor Receptor Type 1 Is Established in the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2014, 289, 24250-24262.	3.4	35
36	Research Resource: Novel Structural Insights Bridge Gaps in Glycoprotein Hormone Receptor Analyses. <i>Molecular Endocrinology</i> , 2013, 27, 1357-1363.	3.7	23

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37	Histidines in Potential Substrate Recognition Sites Affect Thyroid Hormone Transport by Monocarboxylate Transporter 8 (MCT8). <i>Endocrinology</i> , 2013, 154, 2553-2561.	2.8	31
38	Molecular sampling of the allosteric binding pocket of the TSH receptor provides discriminative pharmacophores for antagonist and agonists. <i>Biochemical Society Transactions</i> , 2013, 41, 213-217.	3.4	23
39	The Pseudo Signal Peptide of the Corticotropin-releasing Factor Receptor Type 2A Prevents Receptor Oligomerization. <i>Journal of Biological Chemistry</i> , 2012, 287, 27265-27274.	3.4	33
40	Using ortholog sequence data to predict the functional relevance of mutations in Gâ€proteinâ€coupled receptors. <i>FASEB Journal</i> , 2012, 26, 3273-3281.	0.5	21
41	Mechanism of Clostridium perfringens Enterotoxin Interaction with Claudin-3/-4 Protein Suggests Structural Modifications of the Toxin to Target Specific Claudins. <i>Journal of Biological Chemistry</i> , 2012, 287, 1698-1708.	3.4	76
42	Extended and Structurally Supported Insights into Extracellular Hormone Binding, Signal Transduction and Organization of the Thyrotropin Receptor. <i>PLoS ONE</i> , 2012, 7, e52920.	2.5	48
43	Determinants contributing to claudin ion channel formation. <i>Annals of the New York Academy of Sciences</i> , 2012, 1257, 45-53.	3.8	10
44	Determination of different putative allosteric binding pockets at the lutropin receptor by using diverse drug-like low molecular weight ligands. <i>Molecular and Cellular Endocrinology</i> , 2012, 351, 326-336.	3.2	33
45	Mutations that silence constitutive signaling activity in the allosteric ligand-binding site of the thyrotropin receptor. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 159-167.	5.4	32
46	Primary and secondary thyroid hormone transporters. <i>Thyroid Research</i> , 2011, 4, S7.	1.5	77
47	GPCR-SSFE: A comprehensive database of G-protein-coupled receptor template predictions and homology models. <i>BMC Bioinformatics</i> , 2011, 12, 185.	2.6	50
48	Research Resource: Update and Extension of a Glycoprotein Hormone Receptors Web Application. <i>Molecular Endocrinology</i> , 2011, 25, 707-712.	3.7	28
49	Defining Structural and Functional Dimensions of the Extracellular Thyrotropin Receptor Region. <i>Journal of Biological Chemistry</i> , 2011, 286, 22622-22631.	3.4	25
50	From Molecular Details of the Interplay between Transmembrane Helices of the Thyrotropin Receptor to General Aspects of Signal Transduction in Family A G-protein-coupled Receptors (GPCRs). <i>Journal of Biological Chemistry</i> , 2011, 286, 25859-25871.	3.4	24
51	An interactive web-tool for molecular analyses links naturally occurring mutation data with three-dimensional structures of the rhodopsin-like glycoprotein hormone receptors. <i>Human Mutation</i> , 2010, 31, E1519-E1525.	2.5	19
52	Signalingâ€sensitive amino acids surround the allosteric ligand binding site of the thyrotropin receptor. <i>FASEB Journal</i> , 2010, 24, 2347-2354.	0.5	46
53	Essential Molecular Determinants for Thyroid Hormone Transport and First Structural Implications for Monocarboxylate Transporter 8. <i>Journal of Biological Chemistry</i> , 2010, 285, 28054-28063.	3.4	97
54	On the Interaction of Clostridium perfringens Enterotoxin with Claudins. <i>Toxins</i> , 2010, 2, 1336-1356.	3.4	75

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55	Principles and Determinants of G-Protein Coupling by the Rhodopsin-Like Thyrotropin Receptor. PLoS ONE, 2010, 5, e9745.	2.5	54
56	Comparative Sequence and Structural Analyses of G-Protein-Coupled Receptor Crystal Structures and Implications for Molecular Models. PLoS ONE, 2009, 4, e7011.	2.5	72
57	Small-molecule agonists for the thyrotropin receptor stimulate thyroid function in human thyrocytes and mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12471-12476.	7.1	102
58	Molecular Determinants of the Interaction between Clostridium perfringens Enterotoxin Fragments and Claudin-3. Journal of Biological Chemistry, 2009, 284, 18863-18872.	3.4	101
59	Structural determinants for selective recognition of peptide ligands for endothelin receptor subtypes ET _A and ET _B . Journal of Peptide Science, 2009, 15, 479-491.	1.4	25
60	Structure and Function of Extracellular Claudin Domains. Annals of the New York Academy of Sciences, 2009, 1165, 34-43.	3.8	91
61	Thyrotropin and Homologous Glycoprotein Hormone Receptors: Structural and Functional Aspects of Extracellular Signaling Mechanisms. Endocrine Reviews, 2009, 30, 133-151.	20.1	130
62	Structure and function of claudins. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 631-645.	2.6	646
63	A Heterozygous Mutation in the Third Transmembrane Domain Causes a Dominant-Negative Effect on Signalling Capability of the MC4R. Obesity Facts, 2008, 1, 155-162.	3.4	32
64	Formation of tight junction: determinants of homophilic interaction between classic claudins. FASEB Journal, 2008, 22, 146-158.	0.5	351
65	A Low-Molecular-Weight Antagonist for the Human Thyrotropin Receptor with Therapeutic Potential for Hyperthyroidism. Endocrinology, 2008, 149, 5945-5950.	2.8	90
66	Evidence for cooperative signal triggering at the extracellular loops of the TSH receptor. FASEB Journal, 2008, 22, 2798-2808.	0.5	42
67	Contacts between Extracellular Loop Two and Transmembrane Helix Six Determine Basal Activity of the Thyroid-stimulating Hormone Receptor. Journal of Biological Chemistry, 2007, 282, 518-525.	3.4	54
68	Implications for Molecular Mechanisms of Glycoprotein Hormone Receptors Using a New Sequence-Structure-Function Analysis Resource. Molecular Endocrinology, 2007, 21, 574-580.	3.7	50
69	Evaluation of Small-Molecule Modulators of the Luteinizing Hormone/Choriogonadotropin and Thyroid Stimulating Hormone Receptors: A Structure-Activity Relationships and Selective Binding Patterns. Journal of Medicinal Chemistry, 2006, 49, 3888-3896.	6.4	76
70	Structural determinants for G-protein activation and specificity in the third intracellular loop of the thyroid-stimulating hormone receptor. Journal of Molecular Medicine, 2006, 84, 943-954.	3.9	30
71	A Low Molecular Weight Agonist Signals by Binding to the Transmembrane Domain of Thyroid-stimulating Hormone Receptor (TSHR) and Luteinizing Hormone/Chorionic Gonadotropin Receptor (LHCGR)*. Journal of Biological Chemistry, 2006, 281, 9841-9844.	3.4	90
72	Significance of Ectodomain Cysteine Boxes 2 and 3 for the Activation Mechanism of the Thyroid-stimulating Hormone Receptor. Journal of Biological Chemistry, 2006, 281, 31638-31646.	3.4	34

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73	A Hydrophobic Cluster in the Center of the Third Extracellular Loop Is Important for Thyrotropin Receptor Signaling. <i>Endocrinology</i> , 2005, 146, 5197-5203.	2.8	34
74	The Tight Junction Protein Occludin and the Adherens Junction Protein β -Catenin Share a Common Interaction Mechanism with ZO-1. <i>Journal of Biological Chemistry</i> , 2005, 280, 3747-3756.	3.4	136
75	TSH receptor mutation V509A causes familial hyperthyroidism by release of interhelical constraints between transmembrane helices TMH3 and TMH5. <i>Journal of Endocrinology</i> , 2005, 186, 377-385.	2.6	42
76	Characterization of Determinants of Ligand Binding to the Nicotinic Acid Receptor GPR109A (HM74A/PUMA-G). <i>Molecular Pharmacology</i> , 2005, 68, 1271-1280.	2.3	114
77	Pharmacochaperones Post-translationally Enhance Cell Surface Expression by Increasing Conformational Stability of Wild-type and Mutant Vasopressin V2 Receptors. <i>Journal of Biological Chemistry</i> , 2004, 279, 47254-47263.	3.4	141
78	Identification of a Novel Epitope in the Thyroid-stimulating Hormone Receptor Ectodomain Acting as Intramolecular Signaling Interface. <i>Journal of Biological Chemistry</i> , 2004, 279, 51590-51600.	3.4	65
79	The Signal Peptide of the G Protein-coupled Human Endothelin B Receptor Is Necessary for Translocation of the N-terminal Tail across the Endoplasmic Reticulum Membrane. <i>Journal of Biological Chemistry</i> , 2002, 277, 16131-16138.	3.4	59
80	Requirement of Specific Intrahelical Interactions for Stabilizing the Inactive Conformation of Glycoprotein Hormone Receptors. <i>Journal of Biological Chemistry</i> , 2000, 275, 37860-37869.	3.4	31
81	A Dileucine Sequence and an Upstream Glutamate Residue in the Intracellular Carboxyl Terminus of the Vasopressin V ₂ Receptor Are Essential for Cell Surface Transport in COS.M6 Cells. <i>Molecular Pharmacology</i> , 1998, 54, 525-535.	2.3	142
82	A conserved tyrosine residue (Y601) in transmembrane domain 5 of the human thyrotropin receptor serves as a molecular switch to determine G α protein coupling. <i>FASEB Journal</i> , 1998, 12, 1461-1471.	0.5	81