

Zhan-Yun Guo

List of Publications by Year in descending order

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papers

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citations

471509

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642732

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59
all docs

59
docs citations

59
times ranked

550
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying the binding mechanism of LEAP2 to receptor GHSR1a. FEBS Journal, 2019, 286, 1332-1345.	4.7	50
2	The insulinotrophic effect of insulin-like peptide 5 <i>in vitro</i> and <i>in vivo</i> . Biochemical Journal, 2015, 466, 467-473.	3.7	44
3	The Different Folding Behavior of Insulin and Insulin-like Growth Factor 1 Is Mainly Controlled by Their B-Chain/Domain. Biochemistry, 2002, 41, 1556-1567.	2.5	35
4	Design and recombinant expression of insulin-like peptide 5 precursors and the preparation of mature human INSL5. Amino Acids, 2010, 39, 1343-1352.	2.7	28
5	The highly conserved negatively charged Glu141 and Asp145 of the G-protein-coupled receptor RXFP3 interact with the highly conserved positively charged arginine residues of relaxin-3. Amino Acids, 2014, 46, 1393-1402.	2.7	28
6	A novel ultrasensitive bioluminescent receptor-binding assay of INSL3 through chemical conjugation with nanoluciferase. Biochimie, 2013, 95, 2454-2459.	2.6	27
7	A convenient method for europium labeling of a recombinant chimeric relaxin family peptide R3/I5 for receptor binding assays. Journal of Peptide Science, 2013, 19, 350-354.	1.4	23
8	Identification of important residues of insulin-like peptide 5 and its receptor RXFP4 for ligand-receptor interactions. Archives of Biochemistry and Biophysics, 2014, 558, 127-132.	3.0	23
9	Identification of hydrophobic interactions between relaxin-3 and its receptor RXFP3: implication for a conformational change in the B-chain C-terminus during receptor binding. Amino Acids, 2016, 48, 2227-2236.	2.7	22
10	Nanoluciferase as a novel quantitative protein fusion tag: Application for overexpression and bioluminescent receptor-binding assays of human leukemia inhibitory factor. Biochimie, 2014, 106, 140-148.	2.6	21
11	A convenient luminescence assay of ferroportin internalization to study its interaction with hepcidin. FEBS Journal, 2013, 280, 1773-1781.	4.7	20
12	Mechanism for insulin-like peptide 5 distinguishing the homologous relaxin family peptide receptor 3 and 4. Scientific Reports, 2016, 6, 29648.	3.3	20
13	A simple approach for the preparation of mature human relaxin-3. Peptides, 2010, 31, 2083-2088.	2.4	19
14	Novel bioluminescent receptor-binding assays for peptide hormones: using ghrelin as a model. Amino Acids, 2015, 47, 2237-2243.	2.7	19
15	Quick preparation of nanoluciferase-based tracers for novel bioluminescent receptor-binding assays of protein hormones: Using erythropoietin as a model. Journal of Photochemistry and Photobiology B: Biology, 2015, 153, 311-316.	3.8	19
16	Design, recombinant expression and convenient A-chain N-terminal europium labeling of a fully active human relaxin analogue. FEBS Journal, 2012, 279, 1505-1512.	4.7	18
17	The Different Energetic State of the Intra A-Chain/Domain Disulfide of Insulin and Insulin-like Growth Factor 1 Is Mainly Controlled by Their B-Chain/Domain. Biochemistry, 2002, 41, 10585-10592.	2.5	17
18	Site-specific DOTA/europium-labeling of recombinant human relaxin-3 for receptor-ligand interaction studies. Amino Acids, 2012, 43, 983-992.	2.7	17

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19	The electrostatic interactions of relaxin β with receptor RXFP_4 and the influence of its B -chain C -terminal conformation. <i>FEBS Journal</i> , 2014, 281, 2927-2936.	4.7	17
20	Mutational Analysis of the Absolutely Conserved B8Gly: Consequence on Foldability and Activity of Insulin. <i>Acta Biochimica Et Biophysica Sinica</i> , 2005, 37, 673-679.	2.0	16
21	Development of a novel ligand binding assay for relaxin family peptide receptor 3 and 4 using NanoLuc complementation. <i>Amino Acids</i> , 2018, 50, 1111-1119.	2.7	16
22	Recombinant expression of an insulin β -like peptide 3 (INSL3) precursor and its enzymatic conversion to mature human INSL3. <i>FEBS Journal</i> , 2009, 276, 5203-5211.	4.7	15
23	Application of the novel bioluminescent ligand β -receptor binding assay to relaxin-RXFP1 system for interaction studies. <i>Amino Acids</i> , 2016, 48, 1099-1107.	2.7	15
24	LEAP2 has antagonized the ghrelin receptor GHSR1a since its emergence in ancient fish. <i>Amino Acids</i> , 2021, 53, 939-949.	2.7	15
25	Novel conopeptides in a form of disulfide-crosslinked dimer. <i>Peptides</i> , 2010, 31, 1001-1006.	2.4	14
26	Interaction mechanism of insulin-like peptide 5 with relaxin family peptide receptor 4. <i>Archives of Biochemistry and Biophysics</i> , 2017, 619, 27-34.	3.0	14
27	Rapid preparation of bioluminescent tracers for relaxin family peptides using sortase-catalysed ligation. <i>Amino Acids</i> , 2017, 49, 1611-1617.	2.7	14
28	Identifying key residues and key interactions for the binding of LEAP2 to receptor GHSR1a. <i>Biochemical Journal</i> , 2020, 477, 3199-3217.	3.7	14
29	Contribution of the Absolutely Conserved B8Gly to the Foldability of Insulin. <i>Biological Chemistry</i> , 2003, 384, 805-9.	2.5	13
30	In Vitro Evolution of Amphioxus Insulin-like Peptide to Mammalian Insulin. <i>Biochemistry</i> , 2002, 41, 10603-10607.	2.5	12
31	Distinct activation modes of the Relaxin Family Peptide Receptor 2 in response to insulin-like peptide 3 and relaxin. <i>Scientific Reports</i> , 2017, 7, 3294.	3.3	12
32	Mutational Analysis of the Three Conserved Valine Residues of Insulin and a Proposal of "Isosteric Residue". <i>IUBMB Life</i> , 2001, 52, 309-314.	3.4	10
33	Quantitative measurement of cell membrane receptor internalization by the nanoluciferase reporter: Using the G protein-coupled receptor RXFP3 as a model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 688-694.	2.6	10
34	Novel bioluminescent binding assays for interaction studies of protein/peptide hormones with their receptors. <i>Amino Acids</i> , 2016, 48, 1151-1160.	2.7	10
35	A novel BRET-based binding assay for interaction studies of relaxin family peptide receptor 3 with its ligands. <i>Amino Acids</i> , 2017, 49, 895-903.	2.7	10
36	Replacement of the interchain disulfide bridge-forming amino acids A7 and B7 by glutamate impairs the structure and activity of insulin. <i>Biological Chemistry</i> , 2004, 385, 1171-1175.	2.5	9

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37	Development of a selective agonist for relaxin family peptide receptor 3. <i>Scientific Reports</i> , 2017, 7, 3230.	3.3	9
38	Design, recombinant preparation and europium-labeling of a fully active easily-labeled INSL3 analog for receptor-binding assays. <i>Process Biochemistry</i> , 2012, 47, 1856-1860.	3.7	8
39	Recombinant expression, different downstream processing of the disulfide-rich anti-tumor peptide Ranpirnase and its effect on the growth of human glioma cell line SHG-44. <i>Biomedical Reports</i> , 2013, 1, 747-750.	2.0	8
40	Exploring electrostatic interactions of relaxin family peptide receptor 3 and 4 with ligands using a NanoBiT-based binding assay. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 776-786.	2.6	8
41	Unusual orthologs shed new light on the binding mechanism of ghrelin to its receptor GHSR1a. <i>Archives of Biochemistry and Biophysics</i> , 2021, 704, 108872.	3.0	7
42	Novel Bioluminescent Binding Assays for Ligand-Receptor Interaction Studies of the Fibroblast Growth Factor Family. <i>PLoS ONE</i> , 2016, 11, e0159263.	2.5	7
43	Exploring receptor selectivity of the chimeric relaxin family peptide R3/I5 by incorporating unnatural amino acids. <i>Biochimie</i> , 2018, 154, 77-85.	2.6	6
44	A negatively charged transmembrane aspartate residue controls activation of the relaxin-3 receptor RXFP3. <i>Archives of Biochemistry and Biophysics</i> , 2016, 604, 113-120.	3.0	5
45	Mutagenesis of the three conserved valine residues: consequence on the foldability of insulin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1699, 103-109.	2.3	5
46	Design, recombinant expression and in vitro maturation of human insulin-like peptide 6 and a biotin-labeled analogue. <i>Process Biochemistry</i> , 2011, 46, 1243-1247.	3.7	3
47	Efficient overexpression of human interleukin-6 in <i>Escherichia coli</i> using nanoluciferase as a fusion partner. <i>Process Biochemistry</i> , 2015, 50, 1618-1622.	3.7	3
48	In Vitro Degradation of Insulin-like Peptide 3 by Insulin-degrading Enzyme. <i>Protein Journal</i> , 2010, 29, 93-98.	1.6	2
49	Secretory overexpression and isotopic labeling of the chimeric relaxin family peptide R3/I5 in <i>Pichia pastoris</i> . <i>Amino Acids</i> , 2015, 47, 1117-1125.	2.7	2
50	Cholesterol modulates the binding properties of human relaxin family peptide receptor 3 with its ligands. <i>Archives of Biochemistry and Biophysics</i> , 2018, 646, 24-30.	3.0	2
51	Overexpression of relaxin family peptide receptor 3 in <i>Escherichia coli</i> and characterization of its ligand binding properties. <i>Process Biochemistry</i> , 2018, 69, 131-135.	3.7	2
52	Development of a general bioluminescent activity assay for peptide ligases. <i>FEBS Journal</i> , 2022, 289, 5241-5258.	4.7	2
53	The NanoBiT-Based Homogenous Ligand-Receptor Binding Assay. <i>Methods in Molecular Biology</i> , 2022, , 139-153.	0.9	2
54	Bioluminescent Ligand-Receptor Binding Assays for Protein or Peptide Hormones. <i>Methods in Molecular Biology</i> , 2016, 1461, 65-90.	0.9	1

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55	Hydrophobic interactions of relaxin family peptide receptor 3 with ligands identified using a NanoBiT-based binding assay. <i>Biochimie</i> , 2020, 177, 117-126.	2.6	1
56	Functionality of an absolutely conserved glycine residue in the chimeric relaxin family peptide R3/I5. <i>Amino Acids</i> , 2019, 51, 619-626.	2.7	0
57	Unfolding of Recombinant Single-chain Insulin in Denaturants Containing Thiol Reagents. <i>Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao Acta Biochimica Et Biophysica Sinica</i> , 2001, 33, 431-436.	0.1	0