Mercedes OÃ±aderra

List of Publications by Year
in descending order

71 papers	1,980 citations	186265 28 h-index	276875 41 g-index
71 all docs	71 docs citations	71 times ranked	1124 citing authors

#	Article	IF	Citations
1	Minimized natural versions of fungal ribotoxins show improved active site plasticity. Archives of Biochemistry and Biophysics, 2017, 619, 45-53.	3.0	4
2	Fungal Ribotoxins: A Review of Potential Biotechnological Applications. Toxins, 2017, 9, 71.	3.4	57
3	Involvement of loop 5 lysine residues and the N-terminal Î²-hairpin of the ribotoxin hirsutellin A on its insecticidal activity. Biological Chemistry, 2016, 397, 135-145.	2.5	5
4	Preparation of an engineered safer immunotoxin against colon carcinoma based on the ribotoxin hirsutellinÂA. FEBS Journal, 2015, 282, 2131-2141.	4.7	19
5	Involvement of loops 2 and 3 of Î±-sarcin on its ribotoxic activity. Toxicon, 2015, 96, 1-9.	1.6	9
6	Response of osteoblasts and preosteoblasts to calcium deficient and Si substituted hydroxyapatites treated at different temperatures. Colloids and Surfaces B: Biointerfaces, 2015, 133, 304-313.	5.0	21
7	Early in vitro response of macrophages and T lymphocytes to nanocrystalline hydroxyapatites. Journal of Colloid and Interface Science, 2014, 416, 59-66.	9.4	9
8	Fungal extracellular ribotoxins as insecticidal agents. Insect Biochemistry and Molecular Biology, 2013, 43, 39-46.	2.7	19
9	Hirsutellin A: A Paradigmatic Example of the Insecticidal Function of Fungal Ribotoxins. Insects, 2013, 4, 339-356.	2.2	22
10	A non-cytotoxic but ribonucleolytically specific ribotoxin variant: implication of tryptophan residues in the cytotoxicity of hirsutellin A. Biological Chemistry, 2012, 393, 449-456.	2.5	10
11	Production and characterization of a colon cancer-specific immunotoxin based on the fungal ribotoxin Â-sarcin. Protein Engineering, Design and Selection, 2012, 25, 425-435.	2.1	30
12	Implication of an Asp residue in the ribonucleolytic activity of hirsutellin A reveals new electrostatic interactions at the active site of ribotoxins. Biochimie, 2012, 94, 427-433.	2.6	11
13	Production and characterization of scFvA33T1, an immunoRNase targeting colon cancer cells. FEBS Journal, 2012, 279, 3022-3032.	4.7	18
14	Solution structure of hirsutellinâ€ƒA â€“ new insights into the active site and interacting interfaces of ribotoxins. FEBS Journal, 2009, 276, 2381-2390.	4.7	16
15	The insecticidal protein hirsutellin A from the mite fungal pathogen <i>Hirsutella thompsonii</i> is a ribotoxin. Proteins: Structure, Function and Bioinformatics, 2008, 72, 217-228.	2.6	44
16	The Therapeutic Potential of Fungal Ribotoxins. Current Pharmaceutical Biotechnology, 2008, 9, 153-160.	1.6	28
17	Sea Anemone Actinoporins: The Transition from a Folded Soluble State to a Functionally Active Membrane-Bound Oligomeric Pore. Current Protein and Peptide Science, 2007, 8, 558-572.	1.4	63
18	Silent mutations at the 5â€²-end of the cDNA of actinoporins from the sea anemone Stichodactyla helianthus allow their heterologous overproduction in Escherichia coli. Journal of Biotechnology, 2007, 127, 211-221.	3.8	35

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19	Fungal ribotoxins: molecular dissection of a family of natural killers. FEMS Microbiology Reviews, 2007, 31, 212-237.	8.6	126
20	Production and characterization of a noncytotoxic deletion variant of the Aspergillus fumigatus allergen Aspf1 displaying reduced IgE binding. FEBS Journal, 2005, 272, 2536-2544.	4.7	23
21	Anomalous electrophoretic behavior of a very acidic protein: Ribonuclease U2. Electrophoresis, 2005, 26, 3407-3413.	2.4	38
22	Conserved asparagine residue 54 of Î±-sarcin plays a role in protein stability and enzyme activity. Biological Chemistry, 2004, 385, 1165-1170.	2.5	8
23	Phenotypic selection and characterization of randomly produced non-haemolytic mutants of the toxic sea anemone protein sticholysin II. FEBS Letters, 2004, 575, 14-18.	2.8	34
24	Leucine 145 of the ribotoxin Â-sarcin plays a key role for determining the specificity of the ribosome-inactivating activity of the protein. Protein Science, 2003, 12, 161-169.	7.6	16
25	The Antifungal Protein AFP of Aspergillus giganteusIs an Oligonucleotide/Oligosaccharide Binding (OB) Fold-containing Protein That Produces Condensation of DNA. Journal of Biological Chemistry, 2002, 277, 46179-46183.	3.4	33
26	Deletion of the NH2-terminal Î²-Hairpin of the Ribotoxin Î±-Sarcin Produces a Nontoxic but Active Ribonuclease. Journal of Biological Chemistry, 2002, 277, 18632-18639.	3.4	48
27	RNase U2 and Î±-Sarcin: A Study of Relationships. Methods in Enzymology, 2001, 341, 335-351.	1.0	44
28	Arginine 121 is a crucial residue for the specific cytotoxic activity of the ribotoxin Î±-sarcin. FEBS Journal, 2001, 268, 6190-6196.	0.2	24
29	Involvement of the amino-terminal Î²-hairpin of theAspergillusribotoxins on the interaction with membrances and nonspecific ribonuclease activity. Protein Science, 2001, 10, 1658-1668.	7.6	30
30	Partially folded states of the cytolytic protein sticholysin II. BBA - Proteins and Proteomics, 2001, 1545, 122-131.	2.1	25
31	Assignment of the contribution of the tryptophan residues to the spectroscopic and functional properties of the ribotoxin ?-sarcin. Proteins: Structure, Function and Bioinformatics, 2000, 41, 350-361.	2.6	29
32	Ribonuclease U2: cloning, production inPichia pastorisand affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	1.8	8
33	Overproduction in Escherichia coli and Purification of the Hemolytic Protein Sticholysin II from the Sea Anemone Stichodactyla helianthus. Protein Expression and Purification, 2000, 18, 71-76.	1.3	36
34	Ribonuclease U2: cloning, production in Pichia pastoris and affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	1.8	8
35	Role of histidine-50, glutamic acid-96, and histidine-137 in the ribonucleolytic mechanism of the ribotoxin ?-sarcin. , 1999, 37, 474-484.		47
36	Sticholysin II, a cytolysin from the sea anemoneStichodactyla helianthus, is a monomer-tetramer associating protein. FEBS Letters, 1999, 455, 27-30.	2.8	55

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37	Hirsutellin A Displays Significant Homology to Microbial Extracellular Ribonucleases. Journal of Invertebrate Pathology, 1999, 74, 96-97.	3.2	17
38	Mechanism of the leakage induced on lipid model membranes by the hemolytic protein sticholysin II from the sea anemone Stichodactyla helianthus. FEBS Journal, 1998, 252, 284-289.	0.2	102
39	The cytotoxin Î±-sarcin behaves as a cyclizing ribonuclease. FEBS Letters, 1998, 424, 46-48.	2.8	36
40	Secretion of Recombinant Pro- and Mature Fungal Î±-Sarcin Ribotoxin by the Methylotrophic YeastPichia pastoris:The Lysâ€"Arg Motif Is Required for Maturation. Protein Expression and Purification, 1998, 12, 315-322.	1.3	32
41	Oligomerization of the cytotoxin Î±-sarcin associated with phospholipid membranes. Molecular Membrane Biology, 1998, 15, 141-144.	2.0	13
42	A peptide of nine amino acid residues from Î±â€sarcin cytotoxin is a membraneâ€perturbing structure. Chemical Biology and Drug Design, 1998, 51, 142-148.	1.1	17
43	Sequence Determination and Molecular Characterization of Gigantin, a Cytotoxic Protein Produced by the MouldAspergillus giganteusIFO 5818. Archives of Biochemistry and Biophysics, 1997, 343, 188-193.	3.0	24
44	Characterization of a natural larger form of the antifungal protein (AFP) from Aspergillus giganteus. BBA - Proteins and Proteomics, 1997, 1340, 81-87.	2.1	31
45	Release of Lipid Vesicle Contents by an Antibacterial Cecropin Aâ^'Melittin Hybrid Peptide. Biochemistry, 1996, 35, 9892-9899.	2.5	50
46	Predictive study of the conformation of the cytotoxic protein Î±-sarcin: a structural model to explain Î±-sarcin-membrane interaction. Journal of Theoretical Biology, 1995, 172, 259-267.	1.7	33
47	Thermal unfolding of the cytotoxin Î±-sarcin: phospholipid binding induces destabilization of the protein structure. BBA - Proteins and Proteomics, 1995, 1252, 126-134.	2.1	18
48	Spectroscopic characterization of the alkylated Î±-sarcin cytotoxin: analysis of the structural requirements for the protein-lipid bilayer hydrophobic interaction. BBA - Proteins and Proteomics, 1995, 1252, 43-52.	2.1	15
49	Escherichia coli JA221 can suppress the UAG stop signal. Letters in Applied Microbiology, 1995, 21, 96-98.	2.2	3
50	Characterization of the Antifungal Protein Secreted by the MouldAspergillus giganteus. Archives of Biochemistry and Biophysics, 1995, 324, 273-281.	3.0	101
51	Membrane interaction of a beta-structure-forming synthetic peptide comprising the 116â€"139th sequence region of the cytotoxic protein alpha-sarcin. Biophysical Journal, 1995, 68, 2387-2395.	0.5	34
52	Food mustard allergen interaction with phospholipid vesicles. FEBS Journal, 1994, 225, 609-615.	0.2	47
53	Kinetic study of the aggregation and lipid mixing produced by alpha-sarcin on phosphatidylglycerol and phosphatidylserine vesicles: stopped-flow light scattering and fluorescence energy transfer measurements. Biophysical Journal, 1994, 67, 1117-1125.	0.5	27
54	Bovine Seminal Ribonuclease Destabilizes Negatively Charged Membranes. Biochemical and Biophysical Research Communications, 1994, 199, 119-124.	2.1	31

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55	Overproduction and purification of biologically active native fungal Î±-sarcin in Escherichia coli. Gene, 1994, 142, 147-151.	2.2	64
56	Molecular Interactions Involved in the Passage of the Cytotoxic Protein Î±-Sarcin Across Membranes. , 1994, , 269-276.		1
57	Effect of the antitumour protein Î±-sarcin on the thermotropic behaviour of acid phospholipid vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1068, 9-16.	2.6	31
58	Acid phospholipid vesicles produce conformational changes on the antitumour protein Î±-sarcin. BBA - Proteins and Proteomics, 1991, 1080, 51-58.	2.1	40
59	Interaction of type I collagen fibrils with phospholipid vesicles. Matrix Biology, 1989, 9, 405-410.	1.7	10
60	Molecular aspects of Î±-sarcin penetration in phospholipid bilayers. Biochemical Society Transactions, 1989, 17, 999-1000.	3.4	8
61	Effect of divalent cations on structureâ€function relationships of the antitumor protein Î±â€sarcin. International Journal of Peptide and Protein Research, 1989, 34, 416-422.	0.1	10
62	Interaction of Type I Collagen with Phosphatidylcholine Vesicles. Collagen and Related Research, 1988, 8, 133-144.	2.0	13
63	Conformational study of the antitumor protein Î±-sarcin. BBA - Proteins and Proteomics, 1988, 953, 280-288.	2.1	57
64	Binding of 1â€anilinonaphthaleneâ€8â€sulfonic acid to type I collagen. International Journal of Peptide and Protein Research, 1986, 28, 173-178.	0.1	6
65	Fatty acid synthetase complex in Ceratitis capitata adult. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1983, 76, 249-252.	0.2	1
66	Effects of palmitoyl-CoA on the structure-function of the fatty acid synthetase complex from Ceratitis capitata. International Journal of Biochemistry & Cell Biology, 1982, 14, 1061-1066.	0.5	4
67	Fluorescence studies on the lipoprotein complex of the fatty acid synthetase from the insect Ceratitis capitata. Biochemistry, 1981, 20, 5689-5694.	2.5	22
68	Effect of phospholipids on the length of the helical segments in the fatty acid synthetase complex from Ceratitis capitata. FEBS Letters, 1981, 126, 253-256.	2.8	8
69	Effect of E. coli endotoxin on the structure-function of fatty acid synthetase lipoprotein. Biochemical and Biophysical Research Communications, 1981, 101, 1228-1232.	2.1	6
70	Fatty acid synthetase complex from the insect Ceratitis capitata Structural studies. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1981, 668, 246-256.	1.7	4
71	Circular dichroism studies of the fatty acid synthetase complex from the insect Ceratitis capitata. Biochemical and Biophysical Research Communications, 1978, 83, 998-1003.	2.1	12