

Antoni Benito

List of Publications by Year in descending order

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65
papers

1,164
citations

361296

20
h-index

434063

31
g-index

65
all docs

65
docs citations

65
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	On the track of antitumour ribonucleases. <i>Molecular BioSystems</i> , 2005, 1, 294.	2.9	69
2	Fine regulation of cl857-controlled gene expression in continuous culture of recombinant <i>Escherichia coli</i> by temperature. <i>Applied and Environmental Microbiology</i> , 1993, 59, 3485-3487.	1.4	69
3	The position of the heterologous domain can influence the solubility and proteolysis of β -galactosidase fusion proteins in <i>E. coli</i> . <i>Journal of Biotechnology</i> , 1996, 48, 191-200.	1.9	63
4	A Nuclear Localization Sequence Endows Human Pancreatic Ribonuclease with Cytotoxic Activity. <i>Biochemistry</i> , 2004, 43, 2167-2177.	1.2	55
5	Intracellular pathway of Onconase that enables its delivery to the cytosol. <i>Journal of Cell Science</i> , 2007, 120, 1405-1411.	1.2	55
6	Improved Mimicry of a Foot-and-Mouth Disease Virus Antigenic Site by a Viral Peptide Displayed on β -Galactosidase Surface. <i>Bio/technology</i> , 1995, 13, 801-804.	1.9	52
7	β -Galactosidase Enzymatic Activity as a Molecular Probe to Detect Specific Antibodies. <i>Journal of Biological Chemistry</i> , 1996, 271, 21251-21256.	1.6	49
8	The Structure of an Engineered Domain-Swapped Ribonuclease Dimer and Its Implications for the Evolution of Proteins toward Oligomerization. <i>Structure</i> , 2001, 9, 967-976.	1.6	45
9	A human ribonuclease induces apoptosis associated with p21WAF1/CIP1 induction and JNK inactivation. <i>BMC Cancer</i> , 2011, 11, 9.	1.1	40
10	Active concentration measurements of recombinant biomolecules using biosensor technology. <i>Journal of Molecular Recognition</i> , 1999, 12, 300-309.	1.1	35
11	Enhanced production of pL-controlled recombinant proteins and plasmid stability in <i>Escherichia coli</i> RecA+ strains. <i>Journal of Biotechnology</i> , 1993, 29, 299-306.	1.9	33
12	The expression of recombinant genes from bacteriophage lambda strong promoters triggers the SOS response in <i>Escherichia coli</i> . , 1998, 60, 551-559.		31
13	Three-dimensional structure of a human pancreatic ribonuclease variant, a step forward in the design of cytotoxic ribonucleases. <i>Journal of Molecular Biology</i> , 2000, 303, 49-59.	2.0	30
14	Purification of Engineered Human Pancreatic Ribonuclease. <i>Methods in Enzymology</i> , 2001, 341, 221-234.	0.4	27
15	Pressure as a tool to study protein-unfolding/refolding processes: The case of ribonuclease A. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 461-469.	1.1	25
16	Uses of β -galactosidase tag in on-line monitoring production of fusion proteins and gene expression in <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , 1993, 15, 66-71.	1.6	24
17	A recombinant, arginine-glycine-aspartic acid (RGD) motif from foot-and-mouth disease virus binds mammalian cells through vitronectin and, to a lower extent, fibronectin receptors. <i>Gene</i> , 1996, 180, 101-106.	1.0	22
18	Production of Engineered Human Pancreatic Ribonucleases, Solving Expression and Purification Problems, and Enhancing Thermostability. <i>Protein Expression and Purification</i> , 1999, 17, 169-181.	0.6	22

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19	A Cytotoxic Ribonuclease Variant with a Discontinuous Nuclear Localization Signal Constituted by Basic Residues Scattered Over Three Areas of the Molecule. <i>Journal of Molecular Biology</i> , 2006, 360, 548-557.	2.0	22
20	Conformational flexibility in a highly mobile protein loop of foot-and-mouth disease virus: distinct structural requirements for integrin and antibody binding 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1998, 283, 331-338.	2.0	20
21	Quantitative analysis, using MALDI-TOF mass spectrometry, of the N-terminal hydrolysis and cyclization reactions of the activation process of onconase. <i>FEBS Journal</i> , 2004, 271, 1163-1171.	0.2	20
22	Activating transcription factor 3 is crucial for antitumor activity and to strengthen the antiviral properties of Onconase. <i>Oncotarget</i> , 2017, 8, 11692-11707.	0.8	20
23	A cytotoxic ribonuclease reduces the expression level of P-glycoprotein in multidrug-resistant cell lines. <i>Investigational New Drugs</i> , 2012, 30, 880-888.	1.2	19
24	Mini-Review: Nucleus-Targeted Ribonucleases As Antitumor Drugs. <i>Current Medicinal Chemistry</i> , 2013, 20, 1225-1231.	1.2	19
25	Intracellular Routing of Cytotoxic Pancreatic-Type Ribonucleases. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 169-179.	0.9	18
26	The contribution of the residues from the main hydrophobic core of ribonuclease A to its pressure-folding transition state. <i>Protein Science</i> , 2006, 15, 1000-1009.	3.1	17
27	Ammonium-Mediated Reduction of Plasmid Copy Number and Recombinant Gene Expression in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 1994, 10, 648-651.	1.3	16
28	Pressure- and temperature-induced unfolding studies: thermodynamics of core hydrophobicity and packing of ribonuclease A. <i>Biological Chemistry</i> , 2006, 387, 285-296.	1.2	16
29	The Structural Determinants that Lead to the Formation of Particular Oligomeric Structures in the Pancreatic-Type Ribonuclease Family. <i>Current Protein and Peptide Science</i> , 2008, 9, 370-393.	0.7	16
30	A nuclear-directed human pancreatic ribonuclease (PE5) targets the metabolic phenotype of cancer cells. <i>Oncotarget</i> , 2016, 7, 18309-18324.	0.8	15
31	The nuclear transport capacity of a human-pancreatic ribonuclease variant is critical for its cytotoxicity. <i>Investigational New Drugs</i> , 2011, 29, 811-817.	1.2	13
32	Biosensor characterization of antigenic site A of foot-and-mouth disease virus presented in different vector systems. <i>FEMS Immunology and Medical Microbiology</i> , 1998, 21, 101-115.	2.7	12
33	Stabilization of human pancreatic ribonuclease through mutation at its N-terminal edge. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 887-893.	1.0	11
34	Destabilizing Mutations Alter the Hydrogen Exchange Mechanism in Ribonuclease A. <i>Biophysical Journal</i> , 2008, 94, 2297-2305.	0.2	11
35	Generation of New Cytotoxic Human Ribonuclease Variants Directed to the Nucleus. <i>Molecular Pharmaceutics</i> , 2012, 9, 2894-2902.	2.3	11
36	Transcriptional profiling of NCI/ADR-RES cells unveils a complex network of signaling pathways and molecular mechanisms of drug resistance. <i>OncoTargets and Therapy</i> , 2018, Volume 11, 221-237.	1.0	11

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37	Characterization of the dimerization process of a domain-swapped dimeric variant of human pancreatic ribonuclease. <i>FEBS Journal</i> , 2006, 273, 1166-1176.	2.2	9
38	Apoptin, A Versatile Protein with Selective Antitumor Activity. <i>Current Medicinal Chemistry</i> , 2018, 25, 3540-3559.	1.2	9
39	Simultaneous on line monitoring of intracellular β -galactosidase activity and biomass using flow injection analysis in <i>Escherichia coli</i> batch fermentations. <i>Biotechnology Letters</i> , 1992, 6, 213-218.	0.5	8
40	A family of manganese complexes containing heterocyclic-based ligands with cytotoxic properties. <i>Journal of Inorganic Biochemistry</i> , 2018, 182, 124-132.	1.5	8
41	A cell adhesion peptide from foot-and-mouth disease virus can direct cell targeted delivery of a functional enzyme. , 1998, 59, 294-301.		7
42	Display-Induced Antigenic Variation in Recombinant Peptides. <i>Biochemical and Biophysical Research Communications</i> , 1998, 248, 773-777.	1.0	7
43	Human pancreatic ribonuclease presents higher endonucleolytic activity than ribonuclease A. <i>Archives of Biochemistry and Biophysics</i> , 2008, 471, 191-197.	1.4	7
44	Contribution of the C30/C75 disulfide bond to the biological properties of onconase. <i>Biological Chemistry</i> , 2008, 389, 1127-1136.	1.2	7
45	Towards Tricking a Pathogen's Protease into Fighting Infection: The 3D Structure of a Stable Circularly Permuted Onconase Variant Cleaved by HIV-1 Protease. <i>PLoS ONE</i> , 2013, 8, e54568.	1.1	7
46	Strengths and Challenges of Secretory Ribonucleases as AntiTumor Agents. <i>Pharmaceutics</i> , 2021, 13, 82.	2.0	7
47	Bactericidal Activity Engineered on Human Pancreatic Ribonuclease and Onconase. <i>Molecular Pharmaceutics</i> , 2009, 6, 531-542.	2.3	6
48	A truncated apoptin protein variant selectively kills cancer cells. <i>Investigational New Drugs</i> , 2017, 35, 260-268.	1.2	6
49	All-in-one biofabrication and loading of recombinant vaults in human cells. <i>Biofabrication</i> , 2022, 14, 025018.	3.7	6
50	Mapping the stability clusters in bovine pancreatic ribonuclease A. <i>Biopolymers</i> , 2009, 91, 1038-1047.	1.2	5
51	Antitumor Ribonucleases. <i>Nucleic Acids and Molecular Biology</i> , 2011, , 55-88.	0.2	5
52	Structural Insights into Subunits Assembly and the Oxyester Splicing Mechanism of Neq pol Split Intein. <i>Cell Chemical Biology</i> , 2018, 25, 871-879.e2.	2.5	5
53	Converging antigenic structure of a recombinant viral peptide displayed on different frameworks of carrier proteins. <i>FEBS Letters</i> , 1996, 397, 169-172.	1.3	4
54	Peptide insertions in β -galactosidase activating interface can improve binding in TPEG-Sepharose affinity chromatography. <i>Biotechnology Letters</i> , 1995, 9, 767-770.	0.5	3

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55	Interactions Crucial for Three-Dimensional Domain Swapping in the HP-RNase Variant PM8. <i>Biophysical Journal</i> , 2011, 101, 459-467.	0.2	3
56	Insights into the mechanism of Apoptin's exquisitely selective anti-tumor action from atomic level characterization of its conformation and dynamics. <i>Archives of Biochemistry and Biophysics</i> , 2017, 614, 53-64.	1.4	3
57	Construction of Highly Stable Cytotoxic Nuclear-Directed Ribonucleases. <i>Molecules</i> , 2018, 23, 3273.	1.7	2
58	A Nuclear-Directed Ribonuclease Variant Targets Cancer Stem Cells and Inhibits Migration and Invasion of Breast Cancer Cells. <i>Cancers</i> , 2021, 13, 4350.	1.7	2
59	A model for continuous production of thermally induced recombinant proteins. <i>Biotechnology Letters</i> , 1991, 13, 249-254.	1.1	1
60	¹ H, ¹³ C and ¹⁵ N resonance assignments of the Onconase FL-G zymogen. <i>Biomolecular NMR Assignments</i> , 2013, 7, 13-15.	0.4	1
61	Approaches to Endow Ribonucleases with Antitumor Activity: Lessons Learned from the Native Cytotoxic Ribonucleases. , 0, , .		1
62	The Selectivity for Tumor Cells of Nuclear-Directed Cytotoxic RNases Is Mediated by the Nuclear/Cytoplasmic Distribution of p27KIP1. <i>Molecules</i> , 2021, 26, 1319.	1.7	1
63	Biosensor characterization of antigenic site A of foot-and-mouth disease virus presented in different vector systems. <i>FEMS Immunology and Medical Microbiology</i> , 1998, 21, 101-115.	2.7	1
64	Ribonucleases directed to the nucleus as a novel proapoptotic anticancer strategy. <i>New Biotechnology</i> , 2009, 25, S8-S9.	2.4	0
65	Contribution of the C30/C75 disulfide bond to the biological properties of onconase. <i>Biological Chemistry</i> , 2008, .	1.2	0