

Maria Vilanova Brugus

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,268

citations

21

h-index

33

g-index

70

ext. papers

1,356

ext. citations

4.6

avg, IF

3.68

L-index

#	Paper	IF	Citations
67	Pressure versus heat-induced unfolding of ribonuclease A: the case of hydrophobic interactions within a chain-folding initiation site. <i>Biochemistry</i> , 1999 , 38, 15952-61	3.2	79
66	Bovine pancreatic ribonuclease A as a model of an enzyme with multiple substrate binding sites. <i>BBA - Proteins and Proteomics</i> , 1995 , 1253, 16-24		77
65	On the track of antitumour ribonucleases. <i>Molecular BioSystems</i> , 2005 , 1, 294-302		62
64	NMR spectroscopy reveals that RNase A is chiefly denatured in 40% acetic acid: implications for oligomer formation by 3D domain swapping. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1621-30	16.4	56
63	The severed activation segment of porcine pancreatic procarboxypeptidase A is a powerful inhibitor of the active enzyme. Isolation and characterisation of the activation peptide. <i>BBA - Proteins and Proteomics</i> , 1982 , 707, 74-80		55
62	A nuclear localization sequence endows human pancreatic ribonuclease with cytotoxic activity. <i>Biochemistry</i> , 2004 , 43, 2167-77	3.2	51
61	Intracellular pathway of Onconase that enables its delivery to the cytosol. <i>Journal of Cell Science</i> , 2007 , 120, 1405-11	5.3	50
60	The contribution of noncatalytic phosphate-binding subsites to the mechanism of bovine pancreatic ribonuclease A. <i>Cellular and Molecular Life Sciences</i> , 1998 , 54, 766-74	10.3	47
59	Pressure versus temperature unfolding of ribonuclease A: an FTIR spectroscopic characterization of 10 variants at the carboxy-terminal site. <i>Protein Science</i> , 2001 , 10, 725-34	6.3	45
58	The structure of an engineered domain-swapped ribonuclease dimer and its implications for the evolution of proteins toward oligomerization. <i>Structure</i> , 2001 , 9, 967-76	5.2	43
57	Analysis of the thermal unfolding of porcine procarboxypeptidase A and its functional pieces by differential scanning calorimetry. <i>FEBS Journal</i> , 1988 , 176, 225-30		42
56	A human ribonuclease induces apoptosis associated with p21WAF1/CIP1 induction and JNK inactivation. <i>BMC Cancer</i> , 2011 , 11, 9	4.8	35
55	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, 49-60	6.5	28
54	Carbodiimide EDC induces cross-links that stabilize RNase A C-dimer against dissociation: EDC adducts can affect protein net charge, conformation, and activity. <i>Bioconjugate Chemistry</i> , 2009 , 20, 1459-73	6.3	27
53	Pancreatic Ribonucleases 1997 , 271-304		26
52	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, 461-9	4	25
51	Purification of engineered human pancreatic ribonuclease. <i>Methods in Enzymology</i> , 2001 , 341, 221-34	1.7	24

50	Urea-gradient gel electrophoresis studies on the association of procarboxypeptidases A and B, proproteinase E, and their tryptic activation products. <i>FEBS Letters</i> , 1985 , 191, 273-7	3.8	23
49	Formation, structure, and dissociation of the ribonuclease S three-dimensional domain-swapped dimer. <i>Journal of Biological Chemistry</i> , 2006 , 281, 9400-6	5.4	22
48	Pressure-jump-induced kinetics reveals a hydration dependent folding/unfolding mechanism of ribonuclease A. <i>Biophysical Journal</i> , 2006 , 91, 2264-74	2.9	22
47	Distinct unfolding and refolding pathways of ribonuclease a revealed by heating and cooling temperature jumps. <i>Biophysical Journal</i> , 2008 , 94, 4056-65	2.9	21
46	The use of pressure-jump relaxation kinetics to study protein folding landscapes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 489-96	4	21
45	Crowding agents and osmolytes provide insight into the formation and dissociation of RNase A oligomers. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 506, 123-9	4.1	20
44	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, 548-57.5	6.5	20
43	Production of engineered human pancreatic ribonucleases, solving expression and purification problems, and enhancing thermostability. <i>Protein Expression and Purification</i> , 1999 , 17, 169-81	2	19
42	Intracellular routing of cytotoxic pancreatic-type ribonucleases. <i>Current Pharmaceutical Biotechnology</i> , 2008 , 9, 169-79	2.6	18
41	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, 1163-71		18
40	Valine 108, a chain-folding initiation site-belonging residue, crucial for the ribonuclease A stability. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 356-60	3.4	18
39	A cytotoxic ribonuclease reduces the expression level of P-glycoprotein in multidrug-resistant cell lines. <i>Investigational New Drugs</i> , 2012 , 30, 880-8	4.3	17
38	The activation segment of procarboxypeptidase A from porcine pancreas constitutes a folded structural domain. <i>FEBS Letters</i> , 1982 , 149, 257-60	3.8	17
37	Pressure- and temperature-induced unfolding studies: thermodynamics of core hydrophobicity and packing of ribonuclease A. <i>Biological Chemistry</i> , 2006 , 387, 285-96	4.5	16
36	Activating transcription factor 3 is crucial for antitumor activity and to strengthen the antiviral properties of Onconase. <i>Oncotarget</i> , 2017 , 8, 11692-11707	3.3	16
35	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, 1000-9	6.3	15
34	Thermal unfolding of eosinophil cationic protein/ribonuclease 3: a nonreversible process. <i>Protein Science</i> , 2006 , 15, 2816-27	6.3	15
33	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, 370-93	2.8	14

32	A nuclear-directed human pancreatic ribonuclease (PE5) targets the metabolic phenotype of cancer cells. <i>Oncotarget</i> , 2016 , 7, 18309-24	3.3	13
31	The nuclear transport capacity of a human-pancreatic ribonuclease variant is critical for its cytotoxicity. <i>Investigational New Drugs</i> , 2011 , 29, 811-7	4.3	12
30	Asymmetric kinetics of protein structural changes. <i>Accounts of Chemical Research</i> , 2009 , 42, 778-87	24.3	11
29	Destabilizing mutations alter the hydrogen exchange mechanism in ribonuclease A. <i>Biophysical Journal</i> , 2008 , 94, 2297-305	2.9	11
28	Stabilization of human pancreatic ribonuclease through mutation at its N-terminal edge. <i>Protein Engineering, Design and Selection</i> , 2002 , 15, 887-93	1.9	10
27	Generation of new cytotoxic human ribonuclease variants directed to the nucleus. <i>Molecular Pharmaceutics</i> , 2012 , 9, 2894-902	5.6	9
26	Characterization of the dimerization process of a domain-swapped dimeric variant of human pancreatic ribonuclease. <i>FEBS Journal</i> , 2006 , 273, 1166-76	5.7	8
25	A family of manganese complexes containing heterocyclic-based ligands with cytotoxic properties. <i>Journal of Inorganic Biochemistry</i> , 2018 , 182, 124-132	4.2	7
24	X-ray crystallographic studies of RNase A variants engineered at the most destabilizing positions of the main hydrophobic core: further insight into protein stability. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 658-69	4.2	7
23	Contribution of the C30/C75 disulfide bond to the biological properties of onconase. <i>Biological Chemistry</i> , 2008 , 389, 1127-36	4.5	7
22	A truncated apoptin protein variant selectively kills cancer cells. <i>Investigational New Drugs</i> , 2017 , 35, 260-268	4.3	6
21	Structural investigation of ribonuclease A conformational preferences using high pressure protein crystallography. <i>Chemical Physics</i> , 2016 , 468, 53-62	2.3	6
20	Human pancreatic ribonuclease presents higher endonucleolytic activity than ribonuclease A. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 471, 191-7	4.1	6
19	Apoptin, A Versatile Protein with Selective Antitumor Activity. <i>Current Medicinal Chemistry</i> , 2018 , 25, 3540-3559	4.3	6
18	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 , 11, 221-237	4.4	6
17	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	3.7	5
16	Bactericidal activity engineered on human pancreatic ribonuclease and onconase. <i>Molecular Pharmaceutics</i> , 2009 , 6, 531-42	5.6	5
15	Antitumor Ribonucleases. <i>Nucleic Acids and Molecular Biology</i> , 2011 , 55-88		4

14	Mapping the stability clusters in bovine pancreatic ribonuclease A. <i>Biopolymers</i> , 2009 , 91, 1038-47	2.2	4
13	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	4.1	3
12	Interactions crucial for three-dimensional domain swapping in the HP-RNase variant PM8. <i>Biophysical Journal</i> , 2011 , 101, 459-67	2.9	3
11	Conformational predictive studies on the activation segment of pancreatic procarboxypeptidases. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 149, 729-34	3.4	3
10	A scanning microcalorimetric study of procarboxypeptidase A and its tryptic pieces carboxypeptidase A and activation segment. <i>Biochemical Society Transactions</i> , 1985 , 13, 343-344	5.1	2
9	Strengths and Challenges of Secretory Ribonucleases as AntiTumor Agents. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
8	Construction of Highly Stable Cytotoxic Nuclear-Directed Ribonucleases. <i>Molecules</i> , 2018 , 23,	4.8	2
7	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	8.2	2
6	(1)H, (13)C and (15)N resonance assignments of the Onconase FL-G zymogen. <i>Biomolecular NMR Assignments</i> , 2013 , 7, 13-5	0.7	1
5	Investigating the effects of double mutation C30A/C75A on onconase structure: Studies at atomic resolution. <i>Biopolymers</i> , 2014 , 101, 454-60	2.2	1
4	Approaches to Endow Ribonucleases with Antitumor Activity: Lessons Learned from the Native Cytotoxic Ribonucleases 2016 ,		1
3	A Nuclear-Directed Ribonuclease Variant Targets Cancer Stem Cells and Inhibits Migration and Invasion of Breast Cancer Cells. <i>Cancers</i> , 2021 , 13,	6.6	1
2	Exploring the Energy Landscape of Protein Unfolding under High Pressure 2003 , 55-59		
1	Contribution of the C30/C75 disulfide bond to the biological properties of onconase. <i>Biological Chemistry</i> , 2008 , 080808065103147-30	4.5	