

Jacqueline Anne Wilce

List of Publications by Year in descending order

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85
papers

3,060
citations

185998

28
h-index

174990

52
g-index

88
all docs

88
docs citations

88
times ranked

5201
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging COVID-19 coronavirus: glycan shield and structure prediction of spike glycoprotein and its interaction with human CD26. <i>Emerging Microbes and Infections</i> , 2020, 9, 601-604.	3.0	508
2	Structure and mechanism of a proline-specific aminopeptidase from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 3472-3477.	3.3	180
3	Targeting peptide nucleic acid (PNA) oligomers to mitochondria within cells by conjugation to lipophilic cations: implications for mitochondrial DNA replication, expression and disease. <i>Nucleic Acids Research</i> , 2001, 29, 1852-1863.	6.5	151
4	Novel Binding of HuR and Poly(C)-binding Protein to a Conserved UC-rich Motif within the 3' Untranslated Region of the Androgen Receptor Messenger RNA. <i>Journal of Biological Chemistry</i> , 2002, 277, 27183-27192.	1.6	123
5	SLIRP, a Small SRA Binding Protein, Is a Nuclear Receptor Corepressor. <i>Molecular Cell</i> , 2006, 22, 657-668.	4.5	118
6	Huntingtin Inclusions Trigger Cellular Quiescence, Deactivate Apoptosis, and Lead to Delayed Necrosis. <i>Cell Reports</i> , 2017, 19, 919-927.	2.9	98
7	Supramolecular Self-Assembly of <i>N</i> -Acetyl-Capped β -Peptides Leads to Nano-to Macroscale Fiber Formation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8266-8270.	7.2	71
8	Elucidation of a C-Rich Signature Motif in Target mRNAs of RNA-Binding Protein TIAR. <i>Molecular and Cellular Biology</i> , 2007, 27, 6806-6817.	1.1	70
9	RBM5 Is a Male Germ Cell Splicing Factor and Is Required for Spermatid Differentiation and Male Fertility. <i>PLoS Genetics</i> , 2013, 9, e1003628.	1.5	68
10	A functional comparison of the venom of three Australian jellyfish— <i>Chironex fleckeri</i> , <i>Chiropsalmus</i> sp., and <i>Carybdea xaymacana</i> —on cytosolic Ca ²⁺ , haemolysis and <i>Artemia</i> sp. lethality. <i>Toxicon</i> , 2005, 45, 233-242.	0.8	66
11	Jellyfish envenoming syndromes: unknown toxic mechanisms and unproven therapies. <i>Medical Journal of Australia</i> , 2003, 178, 34-37.	0.8	62
12	Sequence requirements for RNA binding by HuR and AUF1. <i>Journal of Biochemistry</i> , 2012, 151, 423-437.	0.9	60
13	Different modes of interaction by TIAR and HuR with target RNA and DNA. <i>Nucleic Acids Research</i> , 2011, 39, 1117-1130.	6.5	59
14	Targeting large molecules to mitochondria. <i>Advanced Drug Delivery Reviews</i> , 2001, 49, 189-198.	6.6	58
15	The androgen receptor mRNA. <i>BioEssays</i> , 2004, 26, 672-682.	1.2	58
16	Constraints within major histocompatibility complex class I restricted peptides: Presentation and consequences for T-cell recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5534-5539.	3.3	58
17	RNA Recognition and Stress Granule Formation by TIA Proteins. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23377-23388.	1.8	58
18	Crystal Structures of the Substrate Free-enzyme, and Reaction Intermediate of the HAD Superfamily Member, Haloacid Dehalogenase DehIVa from <i>Burkholderia cepacia</i> MBA4. <i>Journal of Molecular Biology</i> , 2007, 368, 706-717.	2.0	49

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19	The Crystal Structure of DehI Reveals a New $\hat{\alpha}$ -Haloacid Dehalogenase Fold and Active-Site Mechanism. <i>Journal of Molecular Biology</i> , 2008, 378, 284-294.	2.0	48
20	Grb7 SH2 domain structure and interactions with a cyclic peptide inhibitor of cancer cell migration and proliferation. <i>BMC Structural Biology</i> , 2007, 7, 58.	2.3	47
21	TDP-43 and FUS structural insights into RNA recognition and self-association. <i>Current Opinion in Structural Biology</i> , 2019, 59, 134-142.	2.6	41
22	Role of Interfacial Hydrophobic Residues in the Stabilization of the Leucine Zipper Structures of the Transcription Factors c-Fos and c-Jun. <i>Journal of Biological Chemistry</i> , 2002, 277, 23-31.	1.6	39
23	pH-Dependent Changes in the in Vitro Ligand-Binding Properties and Structure of Human Clusterin. <i>Biochemistry</i> , 2000, 39, 1411-1419.	1.2	38
24	Prokaryotic origins for the mitochondrial alternative oxidase and plastid terminal oxidase nuclear genes. <i>FEBS Letters</i> , 2003, 555, 425-430.	1.3	37
25	Contribution of the first K-homology domain of poly(C)-binding protein 1 to its affinity and specificity for C-rich oligonucleotides. <i>Nucleic Acids Research</i> , 2012, 40, 5101-5114.	6.5	37
26	Structure of the RTP-DNA complex and the mechanism of polar replication fork arrest. <i>Nature Structural Biology</i> , 2001, 8, 206-210.	9.7	36
27	Venom as a source of useful biologically active molecules. <i>Emergency Medicine (Fremantle, W A)</i> , 2001, 13, 28-36.	0.0	35
28	Structural characterization of <i>Staphylococcus aureus</i> biotin protein ligase and interaction partners: An antibiotic target. <i>Protein Science</i> , 2013, 22, 762-773.	3.1	32
29	Structure and RNA binding of the third KH domain of poly(C)-binding protein 1. <i>Nucleic Acids Research</i> , 2005, 33, 1213-1221.	6.5	30
30	Grb7-SH2 domain dimerisation is affected by a single point mutation. <i>European Biophysics Journal</i> , 2005, 34, 454-460.	1.2	29
31	A Molecular Switch Governs the Interaction between the Human Complement Protease C1s and Its Substrate, Complement C4. <i>Journal of Biological Chemistry</i> , 2013, 288, 15821-15829.	1.6	29
32	Synthesis of Stapled $\hat{\alpha}$ 3-Peptides through Ring-Closing Metathesis. <i>Organic Letters</i> , 2009, 11, 4438-4440.	2.4	28
33	Tandem RNA binding sites induce self-association of the stress granule marker protein TIA-1. <i>Nucleic Acids Research</i> , 2021, 49, 2403-2417.	6.5	27
34	Site-directed mutants of RTP of <i>Bacillus subtilis</i> and the mechanism of replication fork arrest 1 Edited by M. Gottesman. <i>Journal of Molecular Biology</i> , 1999, 286, 1325-1335.	2.0	26
35	Domain-specific phosphomimetic mutation allows dissection of different protein kinase C (PKC) isotype-triggered activities of the RNA binding protein HuR. <i>Cellular Signalling</i> , 2013, 25, 2485-2495.	1.7	26
36	Distinct binding properties of TIAR RRM3 and linker region. <i>RNA Biology</i> , 2013, 10, 579-589.	1.5	25

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37	Context-dependent role of Grb7 in HER2+ve and triple-negative breast cancer cell lines. <i>Breast Cancer Research and Treatment</i> , 2014, 143, 593-603.	1.1	25
38	Structural Basis of Binding by Cyclic Nonphosphorylated Peptide Antagonists of Grb7 Implicated in Breast Cancer Progression. <i>Journal of Molecular Biology</i> , 2011, 412, 397-411.	2.0	24
39	Discovery, Development, and Cellular Delivery of Potent and Selective Bicyclic Peptide Inhibitors of Grb7 Cancer Target. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9349-9359.	2.9	24
40	Conformational rearrangements of RIG-I receptor on formation of a multiprotein:dsRNA assembly. <i>Nucleic Acids Research</i> , 2013, 41, 3436-3445.	6.5	23
41	Toxins not neutralized by brown snake antivenom. <i>Toxicology and Applied Pharmacology</i> , 2006, 213, 117-125.	1.3	21
42	Benzopyrazine derivatives: A novel class of growth factor receptor bound protein 7 antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 693-701.	1.4	21
43	Shortened Penetratin Cell-Penetrating Peptide Is Insufficient for Cytosolic Delivery of a Grb7 Targeting Peptide. <i>ACS Omega</i> , 2017, 2, 670-677.	1.6	21
44	Unexpected involvement of staple leads to redesign of selective bicyclic peptide inhibitor of Grb7. <i>Scientific Reports</i> , 2016, 6, 27060.	1.6	20
45	Cyclic Peptides Incorporating Phosphotyrosine Mimetics as Potent and Specific Inhibitors of the Grb7 Breast Cancer Target. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 7707-7718.	2.9	19
46	Cooperative interplay of let-7 mimic and HuR with MYC RNA. <i>Cell Cycle</i> , 2015, 14, 2729-2733.	1.3	18
47	TIA-1 RRM23 binding and recognition of target oligonucleotides. <i>Nucleic Acids Research</i> , 2017, 45, 4944-4957.	6.5	18
48	Structure of the PCBP2/stem-loop IV complex underlying translation initiation mediated by the poliovirus type I IRES. <i>Nucleic Acids Research</i> , 2020, 48, 8006-8021.	6.5	18
49	Uptake of a cell permeable G7-18NATE construct into cells and binding with the Grb7-SH2 domain. <i>Biopolymers</i> , 2011, 96, 181-188.	1.2	17
50	The binding of TIA-1 to RNA C-rich sequences is driven by its C-terminal RRM domain. <i>RNA Biology</i> , 2014, 11, 766-776.	1.5	16
51	NMR analysis of G7-18NATE, a nonphosphorylated cyclic peptide inhibitor of the Grb7 adapter protein. <i>Biopolymers</i> , 2007, 88, 174-181.	1.2	15
52	Conformational stability studies of a stapled hexa- ²³ -peptide library. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1802.	1.5	15
53	Interaction of the non-phosphorylated peptide G7-18NATE with Grb7-SH2 domain requires phosphate for enhanced affinity and specificity. <i>Journal of Molecular Recognition</i> , 2012, 25, 57-67.	1.1	14
54	Use of SPR to Study the Interaction of G7-18NATE Peptide with the Grb7-SH2 Domain. <i>International Journal of Peptide Research and Therapeutics</i> , 2010, 16, 177-184.	0.9	13

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55	An Asymmetric Structure of the Bacillus subtilis Replication Terminator Protein in Complex with DNA. <i>Journal of Molecular Biology</i> , 2007, 370, 481-491.	2.0	12
56	Design and testing of bicyclic inhibitors of Grb7-are two cycles better than one?. <i>Biopolymers</i> , 2013, 100, 543-549.	1.2	12
57	Synthesis of an Analog of the Thyroid Hormone-binding Protein Transthyretin via Regioselective Chemical Ligation. <i>Journal of Biological Chemistry</i> , 2001, 276, 25997-26003.	1.6	11
58	The impact of single cysteine residue mutations on the replication terminator protein. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 1096-1103.	1.0	10
59	The Discovery of Phenylbenzamide Derivatives as Grb7-Based Antitumor Agents. <i>ChemMedChem</i> , 2013, 8, 280-288.	1.6	10
60	The impact of cell-penetrating peptides on membrane bilayer structure during binding and insertion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1841-1849.	1.4	10
61	1H-NMR structural studies of a cystine-linked peptide containing residues 71-93 of transthyretin and effects of a Ser84 substitution implicated in familial amyloidotic polyneuropathy. <i>FEBS Journal</i> , 1999, 262, 586-594.	0.2	9
62	Assessment of the Robustness of a Serendipitous Zinc Binding Fold: Mutagenesis and Protein Grafting. <i>Structure</i> , 2005, 13, 257-266.	1.6	9
63	The intracellular and nuclear-targeted delivery of an antiandrogen drug by carrier peptides. <i>Biopolymers</i> , 2008, 90, 595-603.	1.2	9
64	RNA-Binding Proteins That Target the Androgen Receptor mRNA. <i>IUBMB Life</i> , 2002, 54, 345-349.	1.5	8
65	Insight into the Selectivity of the G7-18NATE Inhibitor Peptide for the Grb7-SH2 Domain Target. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 64.	1.6	8
66	Oligonucleotide Binding Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2012, 747, 91-104.	0.8	7
67	Evaluation of Cyclic Peptide Inhibitors of the Grb7 Breast Cancer Target: Small Change in Cargo Results in Large Change in Cellular Activity. <i>Molecules</i> , 2019, 24, 3739.	1.7	7
68	Identification of PLA2 and $\hat{I}\pm$ -Neurotoxin Proteins in the Venom of <i>Pseudonaja affinis</i> (Dugite). <i>Toxicology and Applied Pharmacology</i> , 2002, 181, 184-191.	1.3	6
69	Preparation and crystallization of the Grb7 SH2 domain in complex with the G7-18NATE nonphosphorylated cyclic inhibitor peptide. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1640-1643.	0.7	6
70	Combined roles of ATP and small hairpin RNA in the activation of RIG-I revealed by solution-based analysis. <i>Nucleic Acids Research</i> , 2018, 46, 3169-3186.	6.5	6
71	Direct Interaction between Calmodulin and the Grb7 RA-PH Domain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1336.	1.8	5
72	Regulation of TIA-1 Condensates: Zn ²⁺ and RGG Motifs Promote Nucleic Acid Driven LLPS and Inhibit Irreversible Aggregation. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	5

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73	Formation of an $\hat{\pm}$ CP1-KH3 complex with UC-rich RNA. <i>European Biophysics Journal</i> , 2005, 34, 423-429.	1.2	4
74	Interaction of the replication terminator protein of <i>Bacillus subtilis</i> with DNA probed by NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2005, 335, 361-366.	1.0	4
75	Preparation of crystals for characterizing the Grb7 SH2 domain before and after complex formation with a bicyclic peptide antagonist. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 182-186.	0.4	4
76	Preparation and cellular uptake of bicyclic $\hat{\epsilon}$ peptide cargo clicked to cell penetrating peptides. <i>Peptide Science</i> , 2018, 110, e24037.	1.0	4
77	Synthesis and Structural Analysis of the N-Terminal Domain of the Thyroid Hormone-Binding Protein Transthyretin. <i>Clinical Chemistry and Laboratory Medicine</i> , 2002, 40, 1221-8.	1.4	3
78	Partners of wild type Grb7 and a mutant lacking its calmodulin-binding domain. <i>Archives of Biochemistry and Biophysics</i> , 2020, 687, 108386.	1.4	3
79	Enhancing the Bioactivity of Bicyclic Peptides Targeted to Grb7-SH2 by Restoring Cell Permeability. <i>Biomedicines</i> , 2022, 10, 1145.	1.4	2
80	Crystallization and preliminary X-ray diffraction analysis of the <i>Bacillus subtilis</i> replication termination protein in complex with the 37-base-pair TerI-binding site. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1104-1107.	0.7	1
81	Purification, crystallization and preliminary crystallographic analysis of DehI, a group I $\hat{\pm}$ -haloacid dehalogenase from <i>Pseudomonas putida</i> strain PP3. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 596-598.	0.7	1
82	Mutation and crystallization of the first KH domain of human polycytosine-binding protein 1 (PCBP1) in complex with DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1257-1261.	0.7	1
83	Comparison between clickable cyclic TAT and penetratin for delivery of cyclic and bicyclic $\hat{\epsilon}$ peptide cargos. <i>Peptide Science</i> , 2020, 112, e24163.	1.0	1
84	Detailed protocol for optimised expression and purification of functional monomeric human Heat Shock Factor 1. <i>Protein Expression and Purification</i> , 2020, 176, 105722.	0.6	0
85	The Regulation of TIA $\hat{\epsilon}$ 1 Binding to RNA by pH Conditions. <i>FASEB Journal</i> , 2015, 29, 711.5.	0.2	0