

Clara L Kielkopf

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,456
citations

236925

25
h-index

214800

47
g-index

56
all docs

56
docs citations

56
times ranked

2725
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for Gâ€¢C recognition in the DNA minor groove. <i>Nature Structural Biology</i> , 1998, 5, 104-109.	9.7	226
2	U2AF homology motifs: protein recognition in the RRM world. <i>Genes and Development</i> , 2004, 18, 1513-1526.	5.9	203
3	A Novel Peptide Recognition Mode Revealed by the X-Ray Structure of a Core U2AF35/U2AF65 Heterodimer. <i>Cell</i> , 2001, 106, 595-605.	28.9	192
4	Structural Basis for Polypyrimidine Tract Recognition by the Essential Pre-mRNA Splicing Factor U2AF65. <i>Molecular Cell</i> , 2006, 23, 49-59.	9.7	170
5	U2AF1 mutations alter sequence specificity of pre-mRNA binding and splicing. <i>Leukemia</i> , 2015, 29, 909-917.	7.2	107
6	Structure of a photoactive rhodium complex intercalated into DNA. <i>Nature Structural Biology</i> , 2000, 7, 117-121.	9.7	106
7	Conformational flexibility of B-DNA at 0.74 Å resolution: d(CCAGTACTGG) ₂ . <i>Journal of Molecular Biology</i> , 2000, 296, 787-801.	4.2	106
8	Structural Basis for NADH/NAD ⁺ Redox Sensing by a Rex Family Repressor. <i>Molecular Cell</i> , 2010, 38, 563-575.	9.7	89
9	X-Ray Structure of a Rex-Family Repressor/NADH Complex Insights into the Mechanism of Redox Sensing. <i>Structure</i> , 2005, 13, 43-54.	3.3	78
10	Wild-Type U2AF1 Antagonizes the Splicing Program Characteristic of U2AF1-Mutant Tumors and Is Required for Cell Survival. <i>PLoS Genetics</i> , 2016, 12, e1006384.	3.5	72
11	Structural effects of DNA sequence on Tâ€¢A recognition by hydroxypyrrrole/pyrrole pairs in the minor groove 1 Edited by I. Tinoco. <i>Journal of Molecular Biology</i> , 2000, 295, 557-567.	4.2	69
12	Multiple U2AF65 Binding Sites within SF3b155: Thermodynamic and Spectroscopic Characterization of Proteinâ€¢Protein Interactions among pre-mRNA Splicing Factors. <i>Journal of Molecular Biology</i> , 2006, 356, 664-683.	4.2	63
13	An extended U2AF65â€¢RNA-binding domain recognizes the 3â€¢ splice site signal. <i>Nature Communications</i> , 2016, 7, 10950.	12.8	58
14	Splicing Factor Mutations in Myelodysplasias: Insights from Spliceosome Structures. <i>Trends in Genetics</i> , 2017, 33, 336-348.	6.7	56
15	Structure of Phosphorylated SF1 Bound to U2AF65 in an Essential Splicing Factor Complex. <i>Structure</i> , 2013, 21, 197-208.	3.3	55
16	Major phosphorylation of SF1 on adjacent Ser-Pro motifs enhances interaction with U2AF65. <i>FEBS Journal</i> , 2006, 273, 577-587.	4.7	51
17	Staufen1 dimerizes through a conserved motif and a degenerate dsRNA-binding domain to promote mRNA decay. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 515-524.	8.2	51
18	Cancer-relevant Splicing Factor CAPER1± Engages the Essential Splicing Factor SF3b155 in a Specific Ternary Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 17325-17337.	3.4	49

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19	X-ray Structures of Threonine Aldolase Complexes: A Structural Basis of Substrate Recognition. <i>Biochemistry</i> , 2002, 41, 11711-11720.	2.5	48
20	Unmasking the U2AF homology motif family: a bona fide protein-protein interaction motif in disguise. <i>Rna</i> , 2016, 22, 1795-1807.	3.5	48
21	U2AF65 adapts to diverse pre-mRNA splice sites through conformational selection of specific and promiscuous RNA recognition motifs. <i>Nucleic Acids Research</i> , 2013, 41, 3859-3873.	14.5	43
22	X-ray Structures of U2 snRNA Branchpoint Duplexes Containing Conserved Pseudouridines. <i>Biochemistry</i> , 2008, 47, 5503-5514.	2.5	40
23	Three RNA Recognition Motifs Participate in RNA Recognition and Structural Organization by the Pro-Apoptotic Factor TIA-1. <i>Journal of Molecular Biology</i> , 2012, 415, 727-740.	4.2	35
24	Different Requirements of the Kinase and UHM Domains of KIS for Its Nuclear Localization and Binding to Splicing Factors. <i>Journal of Molecular Biology</i> , 2008, 381, 748-762.	4.2	33
25	The pre-mRNA splicing and transcription factor Tat-SF1 is a functional partner of the spliceosome SF3b1 subunit via a U2AF homology motif interface. <i>Journal of Biological Chemistry</i> , 2019, 294, 2892-5793.	3.4	33
26	Solution Conformation and Thermodynamic Characteristics of RNA Binding by the Splicing Factor U2AF65. <i>Journal of Biological Chemistry</i> , 2008, 283, 33641-33649.	3.4	30
27	Representative cancer-associated U2AF2 mutations alter RNA interactions and splicing. <i>Journal of Biological Chemistry</i> , 2020, 295, 17148-17157.	3.4	29
28	SF1 Phosphorylation Enhances Specific Binding to U2AF 65 and Reduces Binding to 3'-Splice-Site RNA. <i>Biophysical Journal</i> , 2016, 111, 2570-2586.	0.5	28
29	Cancer-Associated Mutations Mapped on High-Resolution Structures of the U2AF2 RNA Recognition Motifs. <i>Biochemistry</i> , 2017, 56, 4757-4761.	2.5	28
30	A synthetic small molecule stalls pre-mRNA splicing by promoting an early-stage U2AF2-RNA complex. <i>Cell Chemical Biology</i> , 2021, 28, 1145-1157.e6.	5.2	24
31	Alternative Conformations at the RNA-binding Surface of the N-terminal U2AF65 RNA Recognition Motif. <i>Journal of Molecular Biology</i> , 2007, 366, 703-710.	4.2	20
32	Structure of the central RNA recognition motif of human TIA-1 at 1.95 Å... resolution. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 813-819.	2.1	20
33	Large Favorable Enthalpy Changes Drive Specific RNA Recognition by RNA Recognition Motif Proteins. <i>Biochemistry</i> , 2011, 50, 1429-1431.	2.5	20
34	Cus2 enforces the first ATP-dependent step of splicing by binding to yeast SF3b1 through a UHM-ULM interaction. <i>Rna</i> , 2019, 25, 1020-1037.	3.5	19
35	A splice site-sensing conformational switch in U2AF2 is modulated by U2AF1 and its recurrent myelodysplasia-associated mutation. <i>Nucleic Acids Research</i> , 2020, 48, 5695-5709.	14.5	19
36	A Broad Range of Conformations Contribute to the Solution Ensemble of the Essential Splicing Factor U2AF ⁶⁵ . <i>Biochemistry</i> , 2012, 51, 5223-5225.	2.5	17

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37	Insights from structures of cancer-relevant pre-mRNA splicing factors. <i>Current Opinion in Genetics and Development</i> , 2018, 48, 57-66.	3.3	16
38	Structures of SF3b1 reveal a dynamic Achilles heel of spliceosome assembly: Implications for cancer-associated abnormalities and drug discovery. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2019, 1862, 194440.	1.9	16
39	Structure-guided U2AF ⁶⁵ variant improves recognition and splicing of a defective pre-mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17420-17425.	7.1	15
40	Structure of a DNA Repair Substrate Containing an Alkyl Interstrand Cross-Link at 1.65 Å... Resolution. <i>Biochemistry</i> , 2007, 46, 4545-4553.	2.5	13
41	RNA Induces Conformational Changes in the SF1/U2AF65 Splicing Factor Complex. <i>Journal of Molecular Biology</i> , 2011, 405, 1128-1138.	4.2	12
42	Dynamic stacking of an expected branch point adenosine in duplexes containing pseudouridine-modified or unmodified U2 snRNA sites. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 416-421.	2.1	12
43	Crystallization and preliminary X-ray analysis of a U2AF65variant in complex with a polypyrimidine-tract analogue by use of protein engineering. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 457-459.	0.7	11
44	Dividing and Conquering the Family of RNA Recognition Motifs: A Representative Case Based on hnRNP L. <i>Journal of Molecular Biology</i> , 2015, 427, 2997-3000.	4.2	10
45	Pre-mRNA splicing factor U2AF2 recognizes distinct conformations of nucleotide variants at the center of the pre-mRNA splice site signal. <i>Nucleic Acids Research</i> , 2022, 50, 5299-5312.	14.5	8
46	Purification, crystallization and preliminary X-ray crystallographic analysis of a central domain of human splicing factor 1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 486-490.	0.7	4
47	A UHM-U LM interface with unusual structural features contributes to U2AF2 and SF3B1 association for pre-mRNA splicing. <i>Journal of Biological Chemistry</i> , 2022, 298, 102224.	3.4	4
48	Thermodynamic Characteristics of pre-mRNA Splice Site Recognition. <i>Biophysical Journal</i> , 2009, 96, 63a-64a.	0.5	0
49	A Novel Domain Implicated in the Interactions between pre-mRNA Splicing Factors. <i>Biophysical Journal</i> , 2009, 96, 600a.	0.5	0
50	Structural and Thermodynamic Means for Adaptable Splice Site Recognition. <i>Biophysical Journal</i> , 2009, 96, 366a.	0.5	0
51	U2AF1 Driver Mutations in Hematopoietic Disorders Alter but Do Not Abrogate RNA Binding and Enlighten Structural Dependencies of the U2AF-RNA Complex. <i>Blood</i> , 2019, 134, 1230-1230.	1.4	0