Eckhard Jankowsky

List of Publications by Year
in descending order

87 papers	8,234 citations	71102 41 h-index	58581 82 g-index
91 all docs	91 docs citations	91 times ranked	8255 citing authors

#	Article	IF	Citations
1	Measuring the impact of cofactors on RNA helicase activities. Methods, 2022, 204, 376-385.	3.8	3
2	G-quadruplex DNA inhibits unwinding activity but promotes liquidâ€"liquid phase separation by the DEAD-box helicase Ded1p. Chemical Communications, 2021, 57, 7445-7448.	4.1	9
3	Alternative RNA degradation pathways by the exonuclease Pop2p from Saccharomyces cerevisiae. Rna, 2021, 27, 465-476.	3.5	3
4	The kinetic landscape of an RNA-binding protein in cells. Nature, 2021, 591, 152-156.	27.8	50
5	Active and Passive Destabilization of G-Quadruplex DNA by the Telomere POT1-TPP1 Complex. Journal of Molecular Biology, 2021, 433, 166846.	4.2	7
6	Kinetics of RNAâ€"protein interactions in cells. Trends in Biochemical Sciences, 2021, 46, 861-862.	7.5	0
7	Adaptive translational pausing is a hallmark of the cellular response to severe environmental stress. Molecular Cell, 2021, 81, 4191-4208.e8.	9.7	18
8	High throughput approaches to study RNA-protein interactions in vitro. Methods, 2020, 178, 3-10.	3.8	5
9	Approaches for measuring the dynamics of RNAâ€"protein interactions. Wiley Interdisciplinary Reviews RNA, 2020, 11, e1565.	6.4	32
10	Substrate selectivity by the exonuclease Rrp6p. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 982-992.	7.1	8
11	Small molecules as potent biphasic modulators of protein liquid-liquid phase separation. Nature Communications, 2020, 11, 5574.	12.8	96
12	A comparative study of small molecules targeting eIF4A. Rna, 2020, 26, 541-549.	3.5	27
13	Binding of a viral IRES to the 40S subunit occurs in two successive steps mediated by eS25. Nucleic Acids Research, 2020, 48, 8063-8073.	14.5	9
14	Function of Auxiliary Domains of the DEAH/RHA Helicase DHX36 in RNA Remodeling. Journal of Molecular Biology, 2020, 432, 2217-2231.	4.2	11
15	STEM-08. PLATELETS DRIVES GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. Neuro-Oncology, 2020, 22, ii198-ii198.	1.2	0
16	STEM-04. PLATELETS DRIVE GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. Neuro-Oncology, 2020, 22, ii197-ii197.	1.2	0
17	DEAD-box RNA helicases Dbp2, Ded1 and Mss116 bind to G-quadruplex nucleic acids and destabilize G-quadruplex RNA. Chemical Communications, 2019, 55, 4467-4470.	4.1	26
18	A helicase links upstream ORFs and RNA structure. Current Genetics, 2019, 65, 453-456.	1.7	8

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19	The DEAD-box protein Dbp2p is linked to noncoding RNAs, the helicase Sen1p, and R-loops. Rna, 2018, 24, 1693-1705.	3.5	23
20	Small-molecule AgrA inhibitors F12 and F19 act as antivirulence agents against Gram-positive pathogens. Scientific Reports, 2018, 8, 14578.	3.3	32
21	The helicase Ded1p controls use of near-cognate translation initiation codons in 5â€² UTRs. Nature, 2018, 559, 130-134.	27.8	143
22	Mapping specificity landscapes of RNA-protein interactions by high throughput sequencing. Methods, 2017, 118-119, 111-118.	3.8	11
23	Biochemical Differences and Similarities between the DEAD-Box Helicase Orthologs DDX3X and Ded1p. Journal of Molecular Biology, 2017, 429, 3730-3742.	4.2	36
24	The contribution of the C5 protein subunit of <i>Escherichia coli</i> ribonuclease P to specificity for precursor tRNA is modulated by proximal 5â€² leader sequences. Rna, 2017, 23, 1502-1511.	3.5	12
25	The RNA helicase Mtr4p is a duplex-sensing translocase. Nature Chemical Biology, 2017, 13, 99-104.	8.0	23
26	Analysis of the RNA Binding Specificity Landscape of C5 Protein Reveals Structure and Sequence Preferences that Direct RNase P Specificity. Cell Chemical Biology, 2016, 23, 1271-1281.	5.2	21
27	Optimization of high-throughput sequencing kinetics for determining enzymatic rate constants of thousands of RNA substrates. Analytical Biochemistry, 2016, 510, 1-10.	2.4	10
28	Determination of the Specificity Landscape for Ribonuclease P Processing of Precursor tRNA 5â€² Leader Sequences. ACS Chemical Biology, 2016, 11, 2285-2292.	3.4	10
29	Autoinhibitory Interdomain Interactions and Subfamily-specific Extensions Redefine the Catalytic Core of the Human DEAD-box Protein DDX3. Journal of Biological Chemistry, 2016, 291, 2412-2421.	3.4	71
30	Coupling between the DEAD-box RNA helicases Ded1p and eIF4A. ELife, 2016, 5, .	6.0	55
31	From exotic to exciting. Rna, 2015, 21, 655-656.	3.5	0
32	Division of Labor in an Oligomer of the DEAD-Box RNA Helicase Ded1p. Molecular Cell, 2015, 59, 541-552.	9.7	60
33	Inherited and Somatic Defects in DDX41 in Myeloid Neoplasms. Cancer Cell, 2015, 27, 658-670.	16.8	341
34	Specificity and nonspecificity in RNAâ€"protein interactions. Nature Reviews Molecular Cell Biology, 2015, 16, 533-544.	37.0	216
35	The Ded1/DDX3 subfamily of DEAD-box RNA helicases. Critical Reviews in Biochemistry and Molecular Biology, 2014, 49, 343-360.	5.2	147
36	DEAD-Box Helicases Form Nucleotide-Dependent, Long-Lived Complexes with RNA. Biochemistry, 2014, 53, 423-433.	2.5	43

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37	Angiogenin-Cleaved tRNA Halves Interact with Cytochrome <i>c</i>, Protecting Cells from Apoptosis during Osmotic Stress. Molecular and Cellular Biology, 2014, 34, 2450-2463.	2.3	236
38	DDX41 Is a Tumor Suppressor Gene Associated with Inherited and Acquired Mutations. Blood, 2014, 124, 125-125.	1.4	1
39	Hidden specificity in an apparently nonspecific RNA-binding protein. Nature, 2013, 502, 385-388.	27.8	85
40	An Arabidopsis ATP-Dependent, DEAD-Box RNA Helicase Loses Activity upon IsoAsp Formation but Is Restored by PROTEIN ISOASPARTYL METHYLTRANSFERASE. Plant Cell, 2013, 25, 2573-2586.	6.6	25
41	AMP Sensing by DEAD-Box RNA Helicases. Journal of Molecular Biology, 2013, 425, 3839-3845.	4.2	28
42	DEAD-box helicases as integrators of RNA, nucleotide and protein binding. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 884-893.	1.9	164
43	Mutational analysis of the yeast RNA helicase Sub2p reveals conserved domains required for growth, mRNA export, and genomic stability. Rna, 2013, 19, 1363-1371.	3.5	21
44	Discovery of Antivirulence Agents against Methicillin-Resistant Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2013, 57, 3645-3652.	3.2	116
45	Effect of preâ€‘tRNA 5â€™ leader sequence variation on the thermodynamic coupling and shared molecular recognition between RNA and protein components of RNase P. FASEB Journal, 2013, 27, 777.2.	0.5	0
46	Analysis of Duplex Unwinding by RNA Helicases Using Stopped-Flow Fluorescence Spectroscopy. Methods in Enzymology, 2012, 511, 1-27.	1.0	8
47	RNA unwinding by the Trf4/Air2/Mtr4 polyadenylation (TRAMP) complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7292-7297.	7.1	65
48	Unwinding Initiation by the Viral RNA Helicase NPH-II. Journal of Molecular Biology, 2012, 415, 819-832.	4.2	19
49	The RNA Helicase Mtr4p Modulates Polyadenylation in the TRAMP Complex. Cell, 2011, 145, 890-901.	28.9	92
50	The DEAD-Box Protein Ded1 Modulates Translation by the Formation and Resolution of an eIF4F-mRNA Complex. Molecular Cell, 2011, 43, 962-972.	9.7	203
51	From unwinding to clamping â€" the DEAD box RNA helicase family. Nature Reviews Molecular Cell Biology, 2011, 12, 505-516.	37.0	886
52	RNA helicases at work: binding and rearranging. Trends in Biochemical Sciences, 2011, 36, 19-29.	7.5	449
53	The RNA helicase database. Nucleic Acids Research, 2011, 39, D338-D341.	14.5	61
54	SF1 and SF2 helicases: family matters. Current Opinion in Structural Biology, 2010, 20, 313-324.	5.7	756

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55	Unwinding by Local Strand Separation Is Critical for the Function of DEAD-Box Proteins as RNA Chaperones. Journal of Molecular Biology, 2009, 389, 674-693.	4.2	76
56	Helicase Multitasking in Ribosome Assembly. Molecular Cell, 2009, 36, 537-538.	9.7	6
57	Intrinsic RNA Binding by the Eukaryotic Initiation Factor 4F Depends on a Minimal RNA Length but Not on the m7G Cap. Journal of Biological Chemistry, 2009, 284, 17742-17750.	3.4	34
58	Duplex Unwinding with DEAD-Box Proteins. Methods in Molecular Biology, 2009, 587, 245-264.	0.9	34
59	Degradation of hypomodified tRNA_i^{Met} in vivo involves RNA-dependent ATPase activity of the DExH helicase Mtr4p. Rna, 2008, 14, 107-116.	3.5	84
60	Function of the C-terminal Domain of the DEAD-box Protein Mss116p Analyzed in Vivo and in Vitro. Journal of Molecular Biology, 2008, 375, 1344-1364.	4.2	74
61	Dynamic Regulation of Alternative Splicing by Silencers that Modulate 5â€² Splice Site Competition. Cell, 2008, 135, 1224-1236.	28.9	118
62	RNA Unwinding Activity of the Hepatitis C Virus NS3 Helicase Is Modulated by the NS5B Polymerase. Biochemistry, 2008, 47, 1126-1135.	2.5	35
63	ATP hydrolysis is required for DEAD-box protein recycling but not for duplex unwinding. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20209-20214.	7.1	213
64	Duplex Unwinding and RNP Remodeling With RNA Helicases. Methods in Molecular Biology, 2008, 488, 343-355.	0.9	14
65	Involvement of DEAD-box Proteins in Group I and Group II Intron Splicing. Biochemical Characterization of Mss116p, ATP Hydrolysis-dependent and -independent Mechanisms, and General RNA Chaperone Activity. Journal of Molecular Biology, 2007, 365, 835-855.	4.2	149
66	DEAD-box-protein-assisted RNA Structure Conversion Towards and Against Thermodynamic Equilibrium Values. Journal of Molecular Biology, 2007, 368, 1087-1100.	4.2	35
67	Do DEAD-Box Proteins Promote Group II Intron Splicing without Unwinding RNA?. Molecular Cell, 2007, 28, 159-166.	9.7	61
68	DEAD-Box Proteins Unwind Duplexes by Local Strand Separation. Molecular Cell, 2007, 28, 253-263.	9.7	141
69	Indifferent chaperones. Nature, 2007, 449, 999-1000.	27.8	5
70	RNA helicases â€” one fold for many functions. Current Opinion in Structural Biology, 2007, 17, 316-324.	5.7	224
71	Robust Translocation Along a Molecular Monorail: the NS3 Helicase from Hepatitis C Virus Traverses Unusually Large Disruptions in its Track. Journal of Molecular Biology, 2006, 358, 974-982.	4.2	45
72	The DEAD-box protein Ded1 unwinds RNA duplexes by a mode distinct from translocating helicases. Nature Structural and Molecular Biology, 2006, 13, 981-986.	8.2	132

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73	Remodeling of ribonucleoprotein complexes with DExH/D RNA helicases. Nucleic Acids Research, 2006, 34, 4181-4188.	14.5	116
74	Discriminatory RNP remodeling by the DEAD-box protein DED1. Rna, 2006, 12, 903-912.	3.5	61
75	RNA Helicases: Versatile ATP-Driven Nanomotors. Journal of Nanoscience and Nanotechnology, 2005, 5, 1983-1989.	0.9	15
76	Helicase snaps back. Nature, 2005, 437, 1245-1245.	27.8	4
77	Stimulation of mammalian translation initiation factor eIF4A activity by a small molecule inhibitor of eukaryotic translation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10460-10465.	7.1	209
78	ATP- and ADP-Dependent Modulation of RNA Unwinding and Strand Annealing Activities by the DEAD-Box Protein DED1. Biochemistry, 2005, 44, 13591-13601.	2.5	165
79	Backbone tracking by the SF2 helicase NPH-II. Nature Structural and Molecular Biology, 2004, 11, 526-530.	8.2	69
80	Protein Displacement by DExH/D "RNA Helicases" Without Duplex Unwinding. Science, 2004, 304, 730-734.	12.6	218
81	<i>mda-5</i>: An interferon-inducible putative RNA helicase with double-stranded RNA-dependent ATPase activity and melanoma growth-suppressive properties. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 637-642.	7.1	577
82	The hepatitis C viral NS3 protein is a processive DNA helicase with cofactor enhanced RNA unwinding. EMBO Journal, 2002, 21, 1168-1176.	7.8	191
83	The DExH protein NPH-II is a processive and directional motor for unwinding RNA. Nature, 2000, 403, 447-451.	27.8	209
84	[10] Using DNAzylnes to cut, process, and map RNA molecules for structural studies or modification. Methods in Enzymology, 2000, 317, 140-146.	1.0	49
85	The DExH/D protein family database. Nucleic Acids Research, 2000, 28, 333-334.	14.5	44
86	Oligonucleotide facilitators enable a hammerhead ribozyme to cleave long RNA substrates with multiple-turnover activity. FEBS Journal, 1998, 254, 129-134.	0.2	16
87	Efficient Improvement of Hammerhead Ribozyme Mediated Cleavage of Long Substrates by Oligonucleotide Facilitatorsâ€. Biochemistry, 1996, 35, 15313-15321.	2.5	28