

# Eckhard Jankowsky

## List of Publications by Citations

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84  
papers

6,432  
citations

37  
h-index

80  
g-index

91  
ext. papers

7,476  
ext. citations

13.2  
avg, IF

6.22  
L-index

#	Paper	IF	Citations
84	From unwinding to clamping - the DEAD box RNA helicase family. <i>Nature Reviews Molecular Cell Biology</i> , <b>2011</b> , 12, 505-16	48.7	641
83	SF1 and SF2 helicases: family matters. <i>Current Opinion in Structural Biology</i> , <b>2010</b> , 20, 313-24	8.1	578
82	mda-5: An interferon-inducible putative RNA helicase with double-stranded RNA-dependent ATPase activity and melanoma growth-suppressive properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 637-42	11.5	520
81	RNA helicases at work: binding and rearranging. <i>Trends in Biochemical Sciences</i> , <b>2011</b> , 36, 19-29	10.3	362
80	Inherited and Somatic Defects in DDX41 in Myeloid Neoplasms. <i>Cancer Cell</i> , <b>2015</b> , 27, 658-70	24.3	228
79	RNA helicases--one fold for many functions. <i>Current Opinion in Structural Biology</i> , <b>2007</b> , 17, 316-24	8.1	195
78	Protein displacement by DExH/D "RNA helicases" without duplex unwinding. <i>Science</i> , <b>2004</b> , 304, 730-4	33.3	193
77	The DExH protein NPH-II is a processive and directional motor for unwinding RNA. <i>Nature</i> , <b>2000</b> , 403, 447-51	50.4	192
76	ATP hydrolysis is required for DEAD-box protein recycling but not for duplex unwinding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 20209-14	11.5	185
75	Stimulation of mammalian translation initiation factor eIF4A activity by a small molecule inhibitor of eukaryotic translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 10460-5	11.5	181
74	The hepatitis C viral NS3 protein is a processive DNA helicase with cofactor enhanced RNA unwinding. <i>EMBO Journal</i> , <b>2002</b> , 21, 1168-76	13	177
73	Angiogenin-cleaved tRNA halves interact with cytochrome c, protecting cells from apoptosis during osmotic stress. <i>Molecular and Cellular Biology</i> , <b>2014</b> , 34, 2450-63	4.8	172
72	The DEAD-box protein Ded1 modulates translation by the formation and resolution of an eIF4F-mRNA complex. <i>Molecular Cell</i> , <b>2011</b> , 43, 962-72	17.6	155
71	Specificity and nonspecificity in RNA-protein interactions. <i>Nature Reviews Molecular Cell Biology</i> , <b>2015</b> , 16, 533-44	48.7	149
70	ATP- and ADP-dependent modulation of RNA unwinding and strand annealing activities by the DEAD-box protein DED1. <i>Biochemistry</i> , <b>2005</b> , 44, 13591-601	3.2	146
69	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. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 835-55	6.5	136
68	DEAD-box proteins unwind duplexes by local strand separation. <i>Molecular Cell</i> , <b>2007</b> , 28, 253-63	17.6	121

67	The DEAD-box protein Ded1 unwinds RNA duplexes by a mode distinct from translocating helicases. <i>Nature Structural and Molecular Biology</i> , <b>2006</b> , 13, 981-6	17.6	113
66	DEAD-box helicases as integrators of RNA, nucleotide and protein binding. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2013</b> , 1829, 884-93	6	112
65	Remodeling of ribonucleoprotein complexes with DExH/D RNA helicases. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 4181-8	20.1	105
64	Dynamic regulation of alternative splicing by silencers that modulate 5' splice site competition. <i>Cell</i> , <b>2008</b> , 135, 1224-36	56.2	103
63	The Ded1/DDX3 subfamily of DEAD-box RNA helicases. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2014</b> , 49, 343-60	8.7	96
62	Discovery of antivirulence agents against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2013</b> , 57, 3645-52	5.9	92
61	The helicase Ded1p controls use of near-cognate translation initiation codons in 5' UTRs. <i>Nature</i> , <b>2018</b> , 559, 130-134	50.4	87
60	The RNA helicase Mtr4p modulates polyadenylation in the TRAMP complex. <i>Cell</i> , <b>2011</b> , 145, 890-901	56.2	76
59	Unwinding by local strand separation is critical for the function of DEAD-box proteins as RNA chaperones. <i>Journal of Molecular Biology</i> , <b>2009</b> , 389, 674-93	6.5	72
58	Function of the C-terminal domain of the DEAD-box protein Mss116p analyzed in vivo and in vitro. <i>Journal of Molecular Biology</i> , <b>2008</b> , 375, 1344-64	6.5	68
57	Hidden specificity in an apparently nonspecific RNA-binding protein. <i>Nature</i> , <b>2013</b> , 502, 385-8	50.4	66
56	Degradation of hypomodified tRNA(iMet) in vivo involves RNA-dependent ATPase activity of the DExH helicase Mtr4p. <i>Rna</i> , <b>2008</b> , 14, 107-16	5.8	65
55	Backbone tracking by the SF2 helicase NPH-II. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 526-30	17.6	62
54	Do DEAD-box proteins promote group II intron splicing without unwinding RNA?. <i>Molecular Cell</i> , <b>2007</b> , 28, 159-66	17.6	59
53	The RNA helicase database. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, D338-41	20.1	52
52	Discriminatory RNP remodeling by the DEAD-box protein DED1. <i>Rna</i> , <b>2006</b> , 12, 903-12	5.8	52
51	RNA unwinding by the Trf4/Air2/Mtr4 polyadenylation (TRAMP) complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 7292-7	11.5	50
50	Using DNazymes to cut, process, and map RNA molecules for structural studies or modification. <i>Methods in Enzymology</i> , <b>2000</b> , 317, 140-6	1.7	44

49	Robust translocation along a molecular monorail: the NS3 helicase from hepatitis C virus traverses unusually large disruptions in its track. <i>Journal of Molecular Biology</i> , <b>2006</b> , 358, 974-82	6.5	43
48	Autoinhibitory Interdomain Interactions and Subfamily-specific Extensions Redefine the Catalytic Core of the Human DEAD-box Protein DDX3. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 2412-21	5.4	38
47	The DEXH/D protein family database. <i>Nucleic Acids Research</i> , <b>2000</b> , 28, 333-4	20.1	37
46	Small molecules as potent biphasic modulators of protein liquid-liquid phase separation. <i>Nature Communications</i> , <b>2020</b> , 11, 5574	17.4	36
45	Division of Labor in an Oligomer of the DEAD-Box RNA Helicase Ded1p. <i>Molecular Cell</i> , <b>2015</b> , 59, 541-52	17.6	34
44	RNA unwinding activity of the hepatitis C virus NS3 helicase is modulated by the NS5B polymerase. <i>Biochemistry</i> , <b>2008</b> , 47, 1126-35	3.2	34
43	Coupling between the DEAD-box RNA helicases Ded1p and eIF4A. <i>ELife</i> , <b>2016</b> , 5,	8.9	34
42	DEAD-box-protein-assisted RNA structure conversion towards and against thermodynamic equilibrium values. <i>Journal of Molecular Biology</i> , <b>2007</b> , 368, 1087-100	6.5	32
41	Duplex unwinding with DEAD-box proteins. <i>Methods in Molecular Biology</i> , <b>2010</b> , 587, 245-64	1.4	30
40	DEAD-box helicases form nucleotide-dependent, long-lived complexes with RNA. <i>Biochemistry</i> , <b>2014</b> , 53, 423-33	3.2	29
39	Intrinsic RNA binding by the eukaryotic initiation factor 4F depends on a minimal RNA length but not on the m7G cap. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 17742-50	5.4	29
38	Efficient improvement of hammerhead ribozyme mediated cleavage of long substrates by oligonucleotide facilitators. <i>Biochemistry</i> , <b>1996</b> , 35, 15313-21	3.2	25
37	AMP sensing by DEAD-box RNA helicases. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 3839-45	6.5	23
36	Biochemical Differences and Similarities between the DEAD-Box Helicase Orthologs DDX3X and Ded1p. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 3730-3742	6.5	22
35	An Arabidopsis ATP-dependent, DEAD-box RNA helicase loses activity upon IsoAsp formation but is restored by PROTEIN ISOASPARTYL METHYLTRANSFERASE. <i>Plant Cell</i> , <b>2013</b> , 25, 2573-86	11.6	22
34	Small-molecule AgrA inhibitors F12 and F19 act as antivirulence agents against Gram-positive pathogens. <i>Scientific Reports</i> , <b>2018</b> , 8, 14578	4.9	19
33	Unwinding initiation by the viral RNA helicase NPH-II. <i>Journal of Molecular Biology</i> , <b>2012</b> , 415, 819-32	6.5	16
32	Mutational analysis of the yeast RNA helicase Sub2p reveals conserved domains required for growth, mRNA export, and genomic stability. <i>Rna</i> , <b>2013</b> , 19, 1363-71	5.8	15

31	Analysis of the RNA Binding Specificity Landscape of C5 Protein Reveals Structure and Sequence Preferences that Direct RNase P Specificity. <i>Cell Chemical Biology</i> , <b>2016</b> , 23, 1271-1281	8.2	15
30	The kinetic landscape of an RNA-binding protein in cells. <i>Nature</i> , <b>2021</b> , 591, 152-156	50.4	15
29	RNA helicases: versatile ATP-driven nanomotors. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1983-9	1.3	14
28	Approaches for measuring the dynamics of RNA-protein interactions. <i>Wiley Interdisciplinary Reviews RNA</i> , <b>2020</b> , 11, e1565	9.3	14
27	DEAD-box RNA helicases Dbp2, Ded1 and Mss116 bind to G-quadruplex nucleic acids and destabilize G-quadruplex RNA. <i>Chemical Communications</i> , <b>2019</b> , 55, 4467-4470	5.8	13
26	A comparative study of small molecules targeting eIF4A. <i>Rna</i> , <b>2020</b> , 26, 541-549	5.8	13
25	The RNA helicase Mtr4p is a duplex-sensing translocase. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 99-104	11.7	13
24	Duplex unwinding and RNP remodeling with RNA helicases. <i>Methods in Molecular Biology</i> , <b>2008</b> , 488, 343-55	1.4	12
23	The DEAD-box protein Dbp2p is linked to noncoding RNAs, the helicase Sen1p, and R-loops. <i>Rna</i> , <b>2018</b> , 24, 1693-1705	5.8	12
22	Oligonucleotide facilitators enable a hammerhead ribozyme to cleave long RNA substrates with multiple-turnover activity. <i>FEBS Journal</i> , <b>1998</b> , 254, 129-34		11
21	The contribution of the C5 protein subunit of ribonuclease P to specificity for precursor tRNA is modulated by proximal 5' leader sequences. <i>Rna</i> , <b>2017</b> , 23, 1502-1511	5.8	10
20	Determination of the Specificity Landscape for Ribonuclease P Processing of Precursor tRNA 5' Leader Sequences. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 2285-92	4.9	8
19	Analysis of duplex unwinding by RNA helicases using stopped-flow fluorescence spectroscopy. <i>Methods in Enzymology</i> , <b>2012</b> , 511, 1-27	1.7	7
18	Optimization of high-throughput sequencing kinetics for determining enzymatic rate constants of thousands of RNA substrates. <i>Analytical Biochemistry</i> , <b>2016</b> , 510, 1-10	3.1	6
17	Mapping specificity landscapes of RNA-protein interactions by high throughput sequencing. <i>Methods</i> , <b>2017</b> , 118-119, 111-118	4.6	5
16	Function of Auxiliary Domains of the DEAH/RHA Helicase DHX36 in RNA Remodeling. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 2217-2231	6.5	5
15	Helicase multitasking in ribosome assembly. <i>Molecular Cell</i> , <b>2009</b> , 36, 537-8	17.6	5
14	Substrate selectivity by the exonuclease Rrp6p. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 982-992	11.5	5

13	A helicase links upstream ORFs and RNA structure. <i>Current Genetics</i> , <b>2019</b> , 65, 453-456	2.9	5
12	Active and Passive Destabilization of G-Quadruplex DNA by the Telomere POT1-TPP1 Complex. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 166846	6.5	4
11	Binding of a viral IRES to the 40S subunit occurs in two successive steps mediated by eS25. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 8063-8073	20.1	3
10	Adaptive translational pausing is a hallmark of the cellular response to severe environmental stress. <i>Molecular Cell</i> , <b>2021</b> , 81, 4191-4208.e8	17.6	3
9	High throughput approaches to study RNA-protein interactions in vitro. <i>Methods</i> , <b>2020</b> , 178, 3-10	4.6	1
8	DDX41 Is a Tumor Suppressor Gene Associated with Inherited and Acquired Mutations. <i>Blood</i> , <b>2014</b> , 124, 125-125	2.2	0
7	G-quadruplex DNA inhibits unwinding activity but promotes liquid-liquid phase separation by the DEAD-box helicase Ded1p. <i>Chemical Communications</i> , <b>2021</b> , 57, 7445-7448	5.8	0
6	Alternative RNA degradation pathways by the exonuclease Pop2p from. <i>Rna</i> , <b>2021</b> , 27, 465-476	5.8	0
5	From exotic to exciting. <i>Rna</i> , <b>2015</b> , 21, 655-6	5.8	
4	STEM-08. PLATELETS DRIVES GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. <i>Neuro-Oncology</i> , <b>2020</b> , 22, ii198-ii198	1	
3	STEM-04. PLATELETS DRIVE GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. <i>Neuro-Oncology</i> , <b>2020</b> , 22, ii197-ii197	1	
2	Effect of pre-tRNA 5' leader sequence variation on the thermodynamic coupling and shared molecular recognition between RNA and protein components of RNase P. <i>FASEB Journal</i> , <b>2013</b> , 27, 777.2 <sup>0.9</sup>		
1	Kinetics of RNA-protein interactions in cells. <i>Trends in Biochemical Sciences</i> , <b>2021</b> , 46, 861-862	10.3	