Eckhard Jankowsky

List of Publications by Year in Descending Order

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	Adaptive translational pausing is a hallmark of the cellular response to severe environmental stress. *Molecular Cell*, **2021**, 81, 4191-4208.e8	17.6	3
83	Active and Passive Destabilization of G-Quadruplex DNA by the Telomere POT1-TPP1 Complex. *Journal of Molecular Biology*, **2021**, 433, 166846	6.5	4
82	G-quadruplex DNA inhibits unwinding activity but promotes liquid-liquid phase separation by the DEAD-box helicase Ded1p. *Chemical Communications*, **2021**, 57, 7445-7448	5.8	0
81	Alternative RNA degradation pathways by the exonuclease Pop2p from. *Rna*, **2021**, 27, 465-476	5.8	0
80	The kinetic landscape of an RNA-binding protein in cells. *Nature*, **2021**, 591, 152-156	50.4	15
79	Kinetics of RNA-protein interactions in cells. *Trends in Biochemical Sciences*, **2021**, 46, 861-862	10.3	
78	Small molecules as potent biphasic modulators of protein liquid-liquid phase separation. *Nature Communications*, **2020**, 11, 5574	17.4	36
77	A comparative study of small molecules targeting eIF4A. *Rna*, **2020**, 26, 541-549	5.8	13
76	Binding of a viral IRES to the 40S subunit occurs in two successive steps mediated by eS25. *Nucleic Acids Research*, **2020**, 48, 8063-8073	20.1	3
75	Function of Auxiliary Domains of the DEAH/RHA Helicase DHX36 in RNA Remodeling. *Journal of Molecular Biology*, **2020**, 432, 2217-2231	6.5	5
74	STEM-08. PLATELETS DRIVES GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. *Neuro-Oncology*, **2020**, 22, ii198-ii198	1	
73	STEM-04. PLATELETS DRIVE GLIOBLASTOMA ONCOGENESIS BY ENHANCING THE GLIOMA STEM CELL PHENOTYPE. *Neuro-Oncology*, **2020**, 22, ii197-ii197	1	
72	Substrate selectivity by the exonuclease Rrp6p. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 982-992	11.5	5
71	High throughput approaches to study RNA-protein interactions in vitro. *Methods*, **2020**, 178, 3-10	4.6	1
70	Approaches for measuring the dynamics of RNA-protein interactions. *Wiley Interdisciplinary Reviews RNA*, **2020**, 11, e1565	9.3	14
69	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	5.8	13
68	A helicase links upstream ORFs and RNA structure. *Current Genetics*, **2019**, 65, 453-456	2.9	5

67	The DEAD-box protein Dbp2p is linked to noncoding RNAs, the helicase Sen1p, and R-loops. *Rna*, **2018**, 24, 1693-1705	5.8	12
66	Small-molecule AgrA inhibitors F12 and F19 act as antivirulence agents against Gram-positive pathogens. *Scientific Reports*, **2018**, 8, 14578	4.9	19
65	The helicase Ded1p controls use of near-cognate translation initiation codons in 5' UTRs. *Nature*, **2018**, 559, 130-134	50.4	87
64	Mapping specificity landscapes of RNA-protein interactions by high throughput sequencing. *Methods*, **2017**, 118-119, 111-118	4.6	5
63	Biochemical Differences and Similarities between the DEAD-Box Helicase Orthologs DDX3X and Ded1p. *Journal of Molecular Biology*, **2017**, 429, 3730-3742	6.5	22
62	The contribution of the C5 protein subunit of ribonuclease P to specificity for precursor tRNA is modulated by proximal 5' leader sequences. *Rna*, **2017**, 23, 1502-1511	5.8	10
61	The RNA helicase Mtr4p is a duplex-sensing translocase. *Nature Chemical Biology*, **2017**, 13, 99-104	11.7	13
60	Determination of the Specificity Landscape for Ribonuclease P Processing of Precursor tRNA 5' Leader Sequences. *ACS Chemical Biology*, **2016**, 11, 2285-92	4.9	8
59	Autoinhibitory Interdomain Interactions and Subfamily-specific Extensions Redefine the Catalytic Core of the Human DEAD-box Protein DDX3. *Journal of Biological Chemistry*, **2016**, 291, 2412-21	5.4	38
58	Coupling between the DEAD-box RNA helicases Ded1p and eIF4A. *ELife*, **2016**, 5,	8.9	34
57	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	8.2	15
56	Optimization of high-throughput sequencing kinetics for determining enzymatic rate constants of thousands of RNA substrates. *Analytical Biochemistry*, **2016**, 510, 1-10	3.1	6
55	Division of Labor in an Oligomer of the DEAD-Box RNA Helicase Ded1p. *Molecular Cell*, **2015**, 59, 541-52	17.6	34
54	Inherited and Somatic Defects in DDX41 in Myeloid Neoplasms. *Cancer Cell*, **2015**, 27, 658-70	24.3	228
53	Specificity and nonspecificity in RNA-protein interactions. *Nature Reviews Molecular Cell Biology*, **2015**, 16, 533-44	48.7	149
52	From exotic to exciting. *Rna*, **2015**, 21, 655-6	5.8	
51	The Ded1/DDX3 subfamily of DEAD-box RNA helicases. *Critical Reviews in Biochemistry and Molecular Biology*, **2014**, 49, 343-60	8.7	96
50	DEAD-box helicases form nucleotide-dependent, long-lived complexes with RNA. *Biochemistry*, **2014**, 53, 423-33	3.2	29

49	Angiogenin-cleaved tRNA halves interact with cytochrome c, protecting cells from apoptosis during osmotic stress. *Molecular and Cellular Biology*, **2014**, 34, 2450-63	4.8	172
48	DDX41 Is a Tumor Suppressor Gene Associated with Inherited and Acquired Mutations. *Blood*, **2014**, 124, 125-125	2.2	0
47	Hidden specificity in an apparently nonspecific RNA-binding protein. *Nature*, **2013**, 502, 385-8	50.4	66
46	An Arabidopsis ATP-dependent, DEAD-box RNA helicase loses activity upon IsoAsp formation but is restored by PROTEIN ISOASPARTYL METHYLTRANSFERASE. *Plant Cell*, **2013**, 25, 2573-86	11.6	22
45	AMP sensing by DEAD-box RNA helicases. *Journal of Molecular Biology*, **2013**, 425, 3839-45	6.5	23
44	DEAD-box helicases as integrators of RNA, nucleotide and protein binding. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2013**, 1829, 884-93	6	112
43	Mutational analysis of the yeast RNA helicase Sub2p reveals conserved domains required for growth, mRNA export, and genomic stability. *Rna*, **2013**, 19, 1363-71	5.8	15
42	Discovery of antivirulence agents against methicillin-resistant Staphylococcus aureus. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 3645-52	5.9	92
41	Effect of pre-tRNA 5′-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	0.9	
40	Unwinding initiation by the viral RNA helicase NPH-II. *Journal of Molecular Biology*, **2012**, 415, 819-32	6.5	16
39	Analysis of duplex unwinding by RNA helicases using stopped-flow fluorescence spectroscopy. *Methods in Enzymology*, **2012**, 511, 1-27	1.7	7
38	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, 7292-7	11.5	50
37	The RNA helicase Mtr4p modulates polyadenylation in the TRAMP complex. *Cell*, **2011**, 145, 890-901	56.2	76
36	The DEAD-box protein Ded1 modulates translation by the formation and resolution of an eIF4F-mRNA complex. *Molecular Cell*, **2011**, 43, 962-72	17.6	155
35	From unwinding to clamping - the DEAD box RNA helicase family. *Nature Reviews Molecular Cell Biology*, **2011**, 12, 505-16	48.7	641
34	RNA helicases at work: binding and rearranging. *Trends in Biochemical Sciences*, **2011**, 36, 19-29	10.3	362
33	The RNA helicase database. *Nucleic Acids Research*, **2011**, 39, D338-41	20.1	52
32	SF1 and SF2 helicases: family matters. *Current Opinion in Structural Biology*, **2010**, 20, 313-24	8.1	578

31	Duplex unwinding with DEAD-box proteins. *Methods in Molecular Biology*, **2010**, 587, 245-64	1.4	30
30	Unwinding by local strand separation is critical for the function of DEAD-box proteins as RNA chaperones. *Journal of Molecular Biology*, **2009**, 389, 674-93	6.5	72
29	Helicase multitasking in ribosome assembly. *Molecular Cell*, **2009**, 36, 537-8	17.6	5
28	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, 17742-50	5.4	29
27	Function of the C-terminal domain of the DEAD-box protein Mss116p analyzed in vivo and in vitro. *Journal of Molecular Biology*, **2008**, 375, 1344-64	6.5	68
26	Dynamic regulation of alternative splicing by silencers that modulate 5' splice site competition. *Cell* , **2008**, 135, 1224-36	56.2	103
25	RNA unwinding activity of the hepatitis C virus NS3 helicase is modulated by the NS5B polymerase. *Biochemistry*, **2008**, 47, 1126-35	3.2	34
24	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, 20209-14	11.5	185
23	Degradation of hypomodified tRNA(iMet) in vivo involves RNA-dependent ATPase activity of the DExH helicase Mtr4p. *Rna*, **2008**, 14, 107-16	5.8	65
22	Duplex unwinding and RNP remodeling with RNA helicases. *Methods in Molecular Biology*, **2008**, 488, 343-55	1.4	12
21	RNA helicases--one fold for many functions. *Current Opinion in Structural Biology*, **2007**, 17, 316-24	8.1	195
20	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, 835-55	6.5	136
19	DEAD-box-protein-assisted RNA structure conversion towards and against thermodynamic equilibrium values. *Journal of Molecular Biology*, **2007**, 368, 1087-100	6.5	32
18	Do DEAD-box proteins promote group II intron splicing without unwinding RNA?. *Molecular Cell*, **2007**, 28, 159-66	17.6	59
17	DEAD-box proteins unwind duplexes by local strand separation. *Molecular Cell*, **2007**, 28, 253-63	17.6	121
16	Remodeling of ribonucleoprotein complexes with DExH/D RNA helicases. *Nucleic Acids Research*, **2006**, 34, 4181-8	20.1	105
15	Discriminatory RNP remodeling by the DEAD-box protein DED1. *Rna*, **2006**, 12, 903-12	5.8	52
14	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, 974-82	6.5	43

13	The DEAD-box protein Ded1 unwinds RNA duplexes by a mode distinct from translocating helicases. *Nature Structural and Molecular Biology*, **2006**, 13, 981-6	17.6	113
12	ATP- and ADP-dependent modulation of RNA unwinding and strand annealing activities by the DEAD-box protein DED1. *Biochemistry*, **2005**, 44, 13591-601	3.2	146
11	RNA helicases: versatile ATP-driven nanomotors. *Journal of Nanoscience and Nanotechnology*, **2005**, 5, 1983-9	1.3	14
10	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, 10460-5	11.5	181
9	Backbone tracking by the SF2 helicase NPH-II. *Nature Structural and Molecular Biology*, **2004**, 11, 526-30	17.6	62
8	Protein displacement by DExH/D "RNA helicases" without duplex unwinding. *Science*, **2004**, 304, 730-4	33.3	193
7	The hepatitis C viral NS3 protein is a processive DNA helicase with cofactor enhanced RNA unwinding. *EMBO Journal*, **2002**, 21, 1168-76	13	177
6	mda-5: 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, 637-42	11.5	520
5	The DExH protein NPH-II is a processive and directional motor for unwinding RNA. *Nature*, **2000**, 403, 447-51	50.4	192
4	Using DNAzymes to cut, process, and map RNA molecules for structural studies or modification. *Methods in Enzymology*, **2000**, 317, 140-6	1.7	44
3	The DExH/D protein family database. *Nucleic Acids Research*, **2000**, 28, 333-4	20.1	37
2	Oligonucleotide facilitators enable a hammerhead ribozyme to cleave long RNA substrates with multiple-turnover activity. *FEBS Journal*, **1998**, 254, 129-34		11
1	Efficient improvement of hammerhead ribozyme mediated cleavage of long substrates by oligonucleotide facilitators. *Biochemistry*, **1996**, 35, 15313-21	3.2	25