LeoÅ¡ ValÃ¡Å¡ek

List of Publications by Year
in descending order

62	3,757	101496	138417
papers	citations	36 h-index	58 g-index

67	67	67	2753
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust heat shock induces eIF2Î±-phosphorylation-independent assembly of stress granules containing eIF3 and 40S ribosomal subunits in budding yeast,Saccharomyces cerevisiae. Journal of Cell Science, 2009, 122, 2078-2088.	1.2	204
2	Interactions of Eukaryotic Translation Initiation Factor 3 (eIF3) Subunit NIP1/c with eIF1 and eIF5 Promote Preinitiation Complex Assembly and Regulate Start Codon Selection. Molecular and Cellular Biology, 2004, 24, 9437-9455.	1.1	152
3	A Unique ISR Program Determines Cellular Responses to Chronic Stress. Molecular Cell, 2017, 68, 885-900.e6.	4.5	135
4	The yeast eIF3 subunits TIF32/a, NIP1/c, and eIF5 make critical connections with the 40S ribosome in vivo. Genes and Development, 2003, 17, 786-799.	2.7	133
5	eIF3a cooperates with sequences 5â€² of uORF1 to promote resumption of scanning by post-termination ribosomes for reinitiation on GCN4 mRNA. Genes and Development, 2008, 22, 2414-2425.	2.7	125
6	Direct eIF2-eIF3 contact in the multifactor complex is important for translation initiation in vivo. EMBO Journal, 2002, 21, 5886-5898.	3.5	119
7	Eukaryotic Translation Initiation Factor 3 (eIF3) and eIF2 Can Promote mRNA Binding to 40S Subunits Independently of eIF4G in Yeast. Molecular and Cellular Biology, 2006, 26, 1355-1372.	1.1	111
8	â€˜Ribozoominâ€™ â€“ Translation Initiation from the Perspective of the Ribosome-bound Eukaryotic Initiation Factors (eIFs). Current Protein and Peptide Science, 2012, 13, 305-330.	0.7	110
9	Multiple roles for the C-terminal domain of eIF5 in translation initiation complex assembly and GTPase activation. EMBO Journal, 2001, 20, 2326-2337.	3.5	103
10	Embraced by eIF3: structural and functional insights into the roles of eIF3 across the translation cycle. Nucleic Acids Research, 2017, 45, 10948-10968.	6.5	102
11	The RNA Recognition Motif of Eukaryotic Translation Initiation Factor 3g (eIF3g) Is Required for Resumption of Scanning of Postermination Ribosomes for Reinitiation on GCN4 and Together with eIF3i Stimulates Linear Scanning. Molecular and Cellular Biology, 2010, 30, 4671-4686.	1.1	99
12	A subcomplex of three eIF3 subunits binds eIF1 and eIF5 and stimulates ribosome binding of mRNA and tRNAiMet. EMBO Journal, 2001, 20, 2954-2965.	3.5	98
13	Functions of eIF3 downstream of 48S assembly impact AUG recognition and GCN4 translational control. EMBO Journal, 2004, 23, 1166-1177.	3.5	95
14	Related eIF3 subunits TIF32 and HCR1 interact with an RNA recognition motif in PRT1 required for eIF3 integrity and ribosome binding. EMBO Journal, 2001, 20, 891-904.	3.5	94
15	Selective Translation Complex Profiling Reveals Staged Initiation and Co-translational Assembly of Initiation Factor Complexes. Molecular Cell, 2020, 79, 546-560.e7.	4.5	92
16	Translation Initiation Factors eIF3 and HCR1 Control Translation Termination and Stop Codon Read-Through in Yeast Cells. PLoS Genetics, 2013, 9, e1003962.	1.5	91
17	Translation initiation factor eIF3 promotes programmed stop codon readthrough. Nucleic Acids Research, 2015, 43, 5099-5111.	6.5	89
18	The C-Terminal Region of Eukaryotic Translation Initiation Factor 3a (eIF3a) Promotes mRNA Recruitment, Scanning, and, Together with eIF3j and the eIF3b RNA Recognition Motif, Selection of AUG Start Codons. Molecular and Cellular Biology, 2010, 30, 4415-4434.	1.1	86

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19	Please do not recycle! Translation reinitiation in microbes and higher eukaryotes. FEMS Microbiology Reviews, 2018, 42, 165-192.	3.9	85
20	Translation Reinitiation Relies on the Interaction between eIF3a/TIF32 and Progressively Folded cis-Acting mRNA Elements Preceding Short uORFs. PLoS Genetics, 2011, 7, e1002137.	1.5	78
21	The Indispensable N-Terminal Half of eIF3j/HCR1 Cooperates with its Structurally Conserved Binding Partner eIF3b/PRT1-RRM and with eIF1A in Stringent AUG Selection. Journal of Molecular Biology, 2010, 396, 1097-1116.	2.0	77
22	Polysome Analysis and RNA Purification from Sucrose Gradients. Methods in Molecular Biology, 2011, 703, 293-309.	0.4	69
23	Functional and Biochemical Characterization of Human Eukaryotic Translation Initiation Factor 3 in Living Cells. Molecular and Cellular Biology, 2014, 34, 3041-3052.	1.1	69
24	Rules of UGA-N decoding by near-cognate tRNAs and analysis of readthrough on short uORFs in yeast. Rna, 2016, 22, 456-466.	1.6	68
25	Yeast eIF4B binds to the head of the 40S ribosomal subunit and promotes mRNA recruitment through its N-terminal and internal repeat domains. Rna, 2013, 19, 191-207.	1.6	66
26	Structural analysis of an eIF3 subcomplex reveals conserved interactions required for a stable and proper translation pre-initiation complex assembly. Nucleic Acids Research, 2012, 40, 2294-2311.	6.5	64
27	In vivoevidence that eIF3 stays bound to ribosomes elongating and terminating on short upstream ORFs to promote reinitiation. Nucleic Acids Research, 2017, 45, gkx049.	6.5	64
28	In Vivo Stabilization of Preinitiation Complexes by Formaldehyde Cross-Linking. Methods in Enzymology, 2007, 429, 163-183.	0.4	63
29	The eIF3c/NIP1 PCI domain interacts with RNA and RACK1/ASC1 and promotes assembly of translation preinitiation complexes. Nucleic Acids Research, 2012, 40, 2683-2699.	6.5	62
30	Dual Function of eIF3j/Hcr1p in Processing 20 S Pre-rRNA and Translation Initiation. Journal of Biological Chemistry, 2001, 276, 43351-43360.	1.6	60
31	Interaction of the RNP1 Motif in PRT1 with HCR1 Promotes 40S Binding of Eukaryotic Initiation Factor 3 in Yeast. Molecular and Cellular Biology, 2006, 26, 2984-2998.	1.1	58
32	Human eIF3b and eIF3a serve as the nucleation core for the assembly of eIF3 into two interconnected modules: the yeast-like core and the octamer. Nucleic Acids Research, 2016, 44, 10772-10788.	6.5	58
33	ABCE1: A special factor that orchestrates translation at the crossroad between recycling and initiation. RNA Biology, 2017, 14, 1279-1285.	1.5	55
34	Eukaryotic translation initiation factor 3 plays distinct roles at the mRNA entry and exit channels of the ribosomal preinitiation complex. ELife, 2016, 5, .	2.8	54
35	Fail-safe mechanism of GCN4 translational controlâ€"uORF2 promotes reinitiation by analogous mechanism to uORF1 and thus secures its key role in GCN4 expression. Nucleic Acids Research, 2014, 42, 5880-5893.	6.5	42
36	Rpg1, the Saccharomyces cerevisiae Homologue of the Largest Subunit of Mammalian Translation Initiation Factor 3, Is Required for Translational Activity. Journal of Biological Chemistry, 1998, 273, 21253-21260.	1.6	41

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37	The Saccharomyces cerevisiae HCR1 Gene Encoding a Homologue of the p35 Subunit of Human Translation Initiation Factor 3 (eIF3) Is a High Copy Suppressor of a Temperature-sensitive Mutation in the Rpg1p Subunit of Yeast eIF3. Journal of Biological Chemistry, 1999, 274, 27567-27572.	1.6	41
38	In-depth analysis of cis-determinants that either promote or inhibit reinitiation on GCN4 mRNA after translation of its four short uORFs. Rna, 2016, 22, 542-558.	1.6	41
39	A Multifactor Complex of eIF1, eIF2, eIF3, eIF5, and tRNAiMet Promotes Initiation Complex Assembly and Couples GTP Hydrolysis to AUG Recognition. Cold Spring Harbor Symposia on Quantitative Biology, 2001, 66, 403-416.	2.0	39
40	Does eIF3 promote reinitiation after translation of short upstream ORFs also in mammalian cells?. RNA Biology, 2017, 14, 1660-1667.	1.5	37
41	Saccharomyces cerevisiae Protein Pci8p and Human Protein eIF3e/Int-6 Interact with the eIF3 Core Complex by Binding to Cognate eIF3b Subunits. Journal of Biological Chemistry, 2001, 276, 34948-34957.	1.6	36
42	Structural integrity of the PCI domain of eIF3a/TIF32 is required for mRNA recruitment to the 43S pre-initiation complexes. Nucleic Acids Research, 2014, 42, 4123-4139.	6.5	35
43	Functional Characterization of the Role of the N-terminal Domain of the c/Nip1 Subunit of Eukaryotic Initiation Factor 3 (eIF3) in AUG Recognition. Journal of Biological Chemistry, 2012, 287, 28420-28434.	1.6	33
44	An evolutionary conserved pattern of 18S rRNA sequence complementarity to mRNA 5â€² UTRs and its implications for eukaryotic gene translation regulation. Nucleic Acids Research, 2013, 41, 7625-7634.	6.5	32
45	Small Ribosomal Protein RPS0 Stimulates Translation Initiation by Mediating 40S-Binding of eIF3 via Its Direct Contact with the eIF3a/TIF32 Subunit. PLoS ONE, 2012, 7, e40464.	1.1	31
46	RPG1 : an essential gene of Saccharomyces cerevisiae encoding a 110-kDa protein required for passage through the G 1 phase. Current Genetics, 1998, 33, 100-109.	0.8	29
47	Polysome Profile Analysis â€“ Yeast. Methods in Enzymology, 2013, 530, 173-181.	0.4	29
48	Adapted formaldehyde gradient cross-linking protocol implicates human eIF3d and eIF3c, k and l subunits in the 43S and 48S pre-initiation complex assembly, respectively. Nucleic Acids Research, 2020, 48, 1969-1984.	6.5	27
49	Study of Translational Control of Eukaryotic Gene Expression Using Yeast. Annals of the New York Academy of Sciences, 2004, 1038, 60-74.	1.8	24
50	Dynamics of the Pollen Sequestrome Defined by Subcellular Coupled Omics. Plant Physiology, 2018, 178, 258-282.	2.3	23
51	Yeast 18 S rRNA Is Directly Involved in the Ribosomal Response to Stringent AUG Selection during Translation Initiation. Journal of Biological Chemistry, 2010, 285, 32200-32212.	1.6	22
52	Increased expression of tryptophan and tyrosine tRNAs elevates stop codon readthrough of reporter systems in human cell lines. Nucleic Acids Research, 2021, 49, 5202-5215.	6.5	17
53	In Vivo Deletion Analysis of the Architecture of a Multiprotein Complex of Translation Initiation Factors. Methods in Enzymology, 2007, 431, 15-32.	0.4	16
54	Nuclear LSm8 affects number of cytoplasmic processing bodies via controlling cellular distribution of Like-Sm proteins. Molecular Biology of the Cell, 2012, 23, 3776-3785.	0.9	14

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55	Structural Differences in Translation Initiation between Pathogenic Trypanosomatids and Their Mammalian Hosts. Cell Reports, 2020, 33, 108534.	2.9	14
56	Yeast applied readthrough inducing system (YARIS): an invivo assay for the comprehensive study of translational readthrough. Nucleic Acids Research, 2019, 47, 6339-6350.	6.5	13
57	A systematic computational analysis of the rRNAâ€“3â€² UTR sequence complementarity suggests a regulatory mechanism influencing post-termination events in metazoan translation. Rna, 2016, 22, 957-967.	1.6	7
58	eIF4G is retained on ribosomes elongating and terminating on short upstream ORFs to control reinitiation in yeast. Nucleic Acids Research, 2021, 49, 8743-8756.	6.5	7
59	uS3/Rps3 controls fidelity of translation termination and programmed stop codon readthrough in co-operation with eIF3. Nucleic Acids Research, 2019, 47, 11326-11343.	6.5	6
60	An emergency brake for protein synthesis. ELife, 2017, 6, .	2.8	5
61	mRNA Translation: Fungal Variations on a Eukaryotic Theme. , 2014, , 113-134.		2
62	Translation Initiation in Eukaryotes, Reinitiation. , 2013, , 2267-2271.		0