

RNA

A PUBLICATION OF THE RNA SOCIETY

VOL. 32, NO. 7



JULY 2026

CONTENTS

Communications

- A 2025 meeting report from the Venice lagoon: International graduate program
RNAmed – Future Leaders in RNA-based Medicine meets on San Servolo 983^{OA}
Jörg Vogel, Charlotte Kamm, Giorgia Gerolimetto, Pranjal Meel, Alexandre Trubert, Stina Rademacker,
and Christian Fröschel

Bioinformatics and Databases

- The impact of read depth and read length on RNA-seq splicing analysis 993^{OA}
Annika Ladwig, Melina Klostermann, and Kathi Zarnack
- Target-site dynamics explain a large share of apparent microRNA differential expression 1005^{OA}
Mert Cihan, Piyush More, Maximilian Sprang, Federico Marini, and Miguel A. Andrade-Navarro

RNA and Gene Expression

- ADARs mediate distinct RNA editing activity and gene regulation in the *Caenorhabditis*
elegans germline 1020^{OA}
Emily A. Erdmann, Leanne H. Kelley, and Heather A. Hundley
- Synthesis and RNA transcription of colored 4-selenouridine triphosphate with atom mutagenesis 1032
Dan Liu, Huiyan Sun, Sibao Jiang, Jin Pei, and Zhen Huang
- Chronology of tRNA structural dynamics prior to and during interaction with a pseudouridine synthase 1041^{OA}
Emily M. Dennis, Nico E. Conoan Nieves, Madison Kadrmas, Abigail L. Vaaler, Margaret L. Barry, David M. Garcia,
and Julia R. Widom
- Both neighboring codon adjacent nucleotides and codon optimality influence mRNA decay rates 1061
Reed S. Sorenson and Leslie E. Sieburth
- Neuronal subtype-specific ribosomal protein mRNA expression 1077^{OA}
Joaquín Garat, Sofía Niño-Rivero, Patricia Lagos, Andrés Di Paolo, Pablo Smircich, and José Sotelo-Silveira

(continued)

Cover Illustration: Fission yeast nuclear basket subunits Rsm1 and Nup211 (C terminus) cooperate with the CPF (cleavage and polyadenylation factor) complex in RNA 3'-processing and transcription termination. (Image modified from Singh D, Soni N, Hutchings J, Echeverria I, Shaikh F, Duquette M, Suslov S, Li Z, van Eeuwen T, Molloy K, et al. 2024. The molecular architecture of the nuclear basket. Cell **187**: 5267–5281.e13.)

Nuclear basket subunits Nup211 and Rsm1 influence RNA 3'-processing and transcription termination in fission yeast	1101
<i>Lauren Bednor, Aleksei Innokentev, Ana M. Sanchez, Angela Sem, Beate Schwer, and Stewart Shuman</i>	
Direct RNA-seq provides evidence for an antiterminator function of the yeast Hrp1 protein on RNA polymerase II transcripts	1115
<i>Emma C. Goguen, Kylie A. Zawisza, and David A. Brow</i>	
Dual role of 3' UTR length in modulating translation termination efficiency	1129
<i>Ali Salman, Mikhail Loev, Tatiana Egorova, Alexey Shuvalov, Anastasia Zharikova, Sergey E. Dmitriev, Ekaterina Shuvalova, Nikita Biziaev, and Elena Alkalaeva</i>	
Cancer-associated synonymous mutations reveal stress signal-dependent mRNA folding that selectively modulates protein function	1147
<i>Sivakumar Vadivel Gnanasundram, Lixiao Wang, Sa Chen, Ondrej Bonczek, Borivoj Vojtesek, and Robin Fahraeus</i>	
A method of comprehensive sequencing analysis of the small RNA fragmentome (RiboMarker)	1156^{OA}
<i>Rachel C. Clark, Aidan C. Manning, Jonathan M. Howard, Sergio Barberán-Soler, and Sergei A. Kazakov</i>	
Development of Universal Mass Exclusion List (UMEL) for RNA modification mapping	1182
<i>Asif Rayhan, Patrick A. Limbach, and Balasubrahmanyam Addepalli</i>	
RNA: Instructions for contributors	1193

^{OA}Open Access paper