



EDITOR IN CHIEF

Timothy W. Nilsen
Case Western Reserve University

DEPUTY EDITOR

Eric Phizicky
University of Rochester School
of Medicine and Dentistry

REVIEWS EDITOR

Thomas R. Cech
Howard Hughes Medical Institute

EDITORS

Javier F. Caceres
MRC Human Genetics Unit

Maria Carmo-Fonseca
Instituto de Medicina Molecular,
University of Lisbon

Kathleen Collins
University of California, Berkeley

Elena Conti
Max Planck Institute of Biochemistry,
Martinsried

Adrian R. Ferré-D'Amaré
National Heart, Lung and Blood Institute

Fátima Gebauer
Centre for Genomic Regulation (CRG)

Britt Glaunsinger
University of California, Berkeley

Daniel Kolakofsky
University of Geneva

Marina V. Rodnina
Max Planck Institute for Biophysical
Chemistry

Rob Singer
Albert Einstein School of Medicine

Erik Sontheimer
University of Massachusetts Medical School

Peter F. Stadler
Leipzig University

Jörg Vogel
University of Würzburg

Eric Westhof
CNRS, Strasbourg

John Woolford
Carnegie Mellon University

Mihaela Zavolan
Biozentrum, University of Basel

EDITORIAL BOARD

Manuel Ares
University of California, Santa Cruz

David P. Bartel
Massachusetts Institute of Technology

Brenda L. Bass
University of Utah

Philip C. Bevilacqua
Pennsylvania State University

Douglas L. Black
University of California, Los Angeles

Ronald R. Breaker
Yale University

Chris Burge
Massachusetts Institute of Technology

Lingling Chen
Shanghai Institutes for Biological Sciences,
Chinese Academy of Sciences

Soo-Chen Cheng
Institute of Molecular Biology, Academia Sinica

Bryan Cullen
Duke University Medical Center

Anne Ephrussi
EMBL, Heidelberg

Witold Filipowicz
Friedrich Miescher Institute

Mariano A. Garcia-Blanco
Duke University

Wendy Gilbert
Yale University

Brenton R. Graveley
University of Connecticut Health Center

Matthias W. Hentze
EMBL, Heidelberg

Daniel Herschlag
Stanford University

Jane E. Jackman
The Ohio State University

Allan Jacobson
University of Massachusetts Medical School

Martin Jinek
University of Zurich

Arlen Johnson
The University of Texas at Austin

Katrin Karbstein
The Scripps Research Institute

Magda Konarska
Warsaw University

Andrei Korostelev
University of Massachusetts
Medical School

Adrian R. Krainer
Cold Spring Harbor Laboratory

Alan M. Lambowitz
University of Texas at Austin

David M.J. Lilley
University of Dundee

Reinhard Lührmann
Max Planck Institute for Biophysical Chemistry,
Göttingen

Kristen W. Lynch
University of Pennsylvania School
of Medicine

James Manley
Columbia University

Lynne E. Maquat
University of Rochester

Harry F. Noller
University of California, Santa Cruz

Mary O'Connell
Masaryk University

Richard A. Padgett
Lerner Research Institute, Cleveland Clinic

Tao Pan
University of Chicago

Roy Parker
University of Colorado, Boulder

Joseph A. Piccirilli
The University of Chicago

Ramesh Pillai
University of Geneva

Anna Marie Pyle
Yale University

Donald Rio
University of California, Berkeley

Michael Rosbash
Brandeis University

Phillip A. Sharp
Massachusetts Institute
of Technology

Stewart Shuman
Memorial Sloan Kettering
Cancer Center

Haruhiko Siomi
Keio University School of Medicine

Mikiko C. Siomi
The University of Tokyo

Jonathan Staley
University of Chicago

Joan A. Steitz
Yale University

Gisela Storz
National Institute of Child Health
and Human Development

Scott Strobel
Yale University

David Tollervey
University of Edinburgh

Juan Valcárcel
ICREA and Centre de Regulació
Genòmica

Yanli Wang
Institute of Biophysics, Chinese Academy
of Sciences

Marvin Wickens
University of Wisconsin, Madison

Sandra L. Wolin
National Cancer Institute

Sarah A. Woodson
Johns Hopkins University

Phillip Zamore
University of Massachusetts
Medical School

PRODUCTION MANAGER

Denise Weiss
Cold Spring Harbor
Laboratory Press

PRODUCTION EDITOR

Marie Cotter
Cold Spring Harbor
Laboratory Press

PRODUCTION EDITOR

Mary Mulligan
Cold Spring Harbor
Laboratory Press

EDITORIAL COORDINATOR

Ann Marie Micenmacher
Case Western Reserve University

Editorial Office: RNA, Center for RNA Molecular Biology, Room W127, School of Medicine, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4973, USA. Telephone: 216-368-1852; fax: 216-368-2010; e-mail: majournal@case.edu.

Publishing and Advertising Offices: Cold Spring Harbor Laboratory Press, 1 Bungtown Road, Cold Spring Harbor, New York 11724-2203. For advertising rates and data, contact Marcie Siconolfi, Advertising Manager, at 516-422-4010 (telephone) or 516-422-4092 (fax).

Instructions for Contributors: Instructions for contributors are published in each issue of RNA and are available online (<http://www.majournal.org>).

Subscriptions: Kathleen Cirone, Subscription Manager. For 2021 institutional prices, go to <http://majournal.cshlp.org/site/subscriptions/cost.dtl>. Orders may be sent to Cold Spring Harbor Laboratory Press, Fulfillment Department, 500 Sunnyside Boulevard, Woodbury, New York 11797-2924. Telephone: Continental U.S. and Canada 1-800-843-4388; all other locations 1-516-422-4100. Fax: 1-516-422-4097. Claims for missing issues must be received within four months of issue date.

Member Subscriptions: Members of the RNA Society automatically receive RNA as part of their annual membership dues.

The RNA Society: Membership information and application forms may be obtained from: The RNA Society, 9650 Rockville Pike, Bethesda, MD 20814-3998, USA. Telephone: 301-530-7120; fax: 301-530-7049; e-mail: ma@faseb.org.

COPYRIGHT INFORMATION: Authors of articles published in RNA retain copyright of the articles (except US Government employees) but grant Cold Spring Harbor Laboratory Press exclusive right to publish the articles for a period of 12 months following full-issue publication. This includes the rights to publish, reproduce, distribute, display, and store the article in all formats; to translate the article into other languages; to create adaptations, summaries, extracts, or derivations of the article; and to license others to do any or all of the above. Authors can reuse their articles in their work as long as RNA is credited as the place of original publication. Twelve months following publication, these articles are made available under a CC-BY-NC 4.0 Creative Commons license. Articles that carry the Open Access designation are available immediately under a CC-BY 4.0 or CC-BY-NC 4.0 Creative Commons license. Detailed copyright terms are online at <http://majournal.cshlp.org/site/misc/terms.xhtml>. Permission information is online at http://majournal.cshlp.org/site/misc/permissions_landing.xhtml.

RNA (ISSN 1355-8382) is published monthly by Cold Spring Harbor Laboratory Press, 500 Sunnyside Blvd., Woodbury, NY 11797-2924. Periodicals paid at Woodbury, NY, and additional mailing offices. **POSTMASTER:** Send address changes to Cold Spring Harbor Laboratory Press, Journals Fulfillment Dept., 500 Sunnyside Blvd., Woodbury, NY 11797-2924.

FORTHCOMING PAPERS

Mini-Review

Cyclic oligoadenylate signaling and regulation by ring nucleases during type III CRISPR defense

Januka S. Athukoralage and Malcolm F. White

Bioinformatics

Isosplitter: identification and characterization of alternative splicing sites without a reference genome

Yupeng Wang, Zhikang Hu, Ning Ye, and Hengfu Yin

Articles

Fusion protein EWS-FLI1 is incorporated into a protein granule in cells

Nasiha S. Ahmed, Lucas M. Harrell, Daniel R. Wieland, Michelle A. Lay, Valery F. Thompson, and Jacob C. Schwartz

RNA-binding proteins regulate aldosterone homeostasis in human steroidogenic cells

Rui Fu, Kimberly Wellman, Amber Baldwin, Juilee Rege, Kathryn Walters, Antje Hirsekorn, Kent Riemondy, William Rainey, and Neelanjana Mukherjee

CRED9: a differentially expressed elncRNA regulates expression of transcription factor CEBPA

Ryan L. Setten, Pritsana Chomchan, Elizabeth W. Epps, John C. Burnett, and John J. Rossi

Annotation of the local context of RNA secondary structure improves the classification and prediction of A-minors

Anna A. Shalybkova, Darya S. Mikhailova, Ivan V. Kulakovskiy, Liliia I. Fakhranurova, and Eugene F. Baulin