

Arraystar Small RNA Modification Arrays

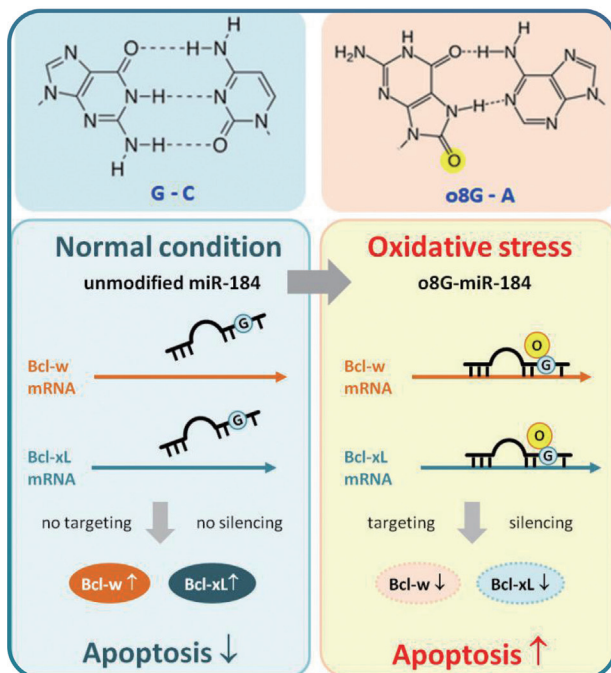
Quantifying Modifications in Small RNAs with High Sensitivity & Accuracy

- o8G/m7G/m6A/Ψ/m5C in miRNAs, pre-miRNAs & tsRNAs

Why Study Small RNA Modifications?

Small RNA modifications modulate the activities of small RNAs in diverse biological processes and play pivotal roles in pathological conditions. They can:

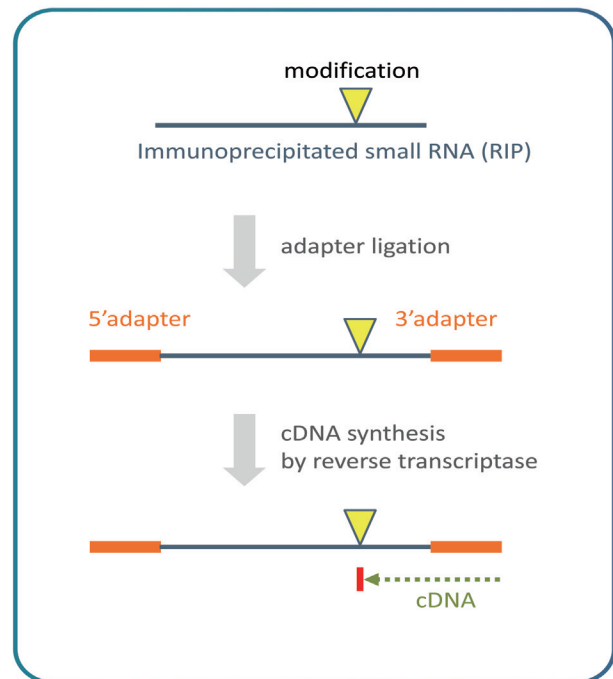
- Influence miRNA targeting
- Inhibit protein translation
- Serve as biomarkers



Oxidative modification of miR-184 enables it to target Bcl-xL and Bcl-w, based on Wang, J. X., et al. (2015) Mol Cell [PMID: 26028536]

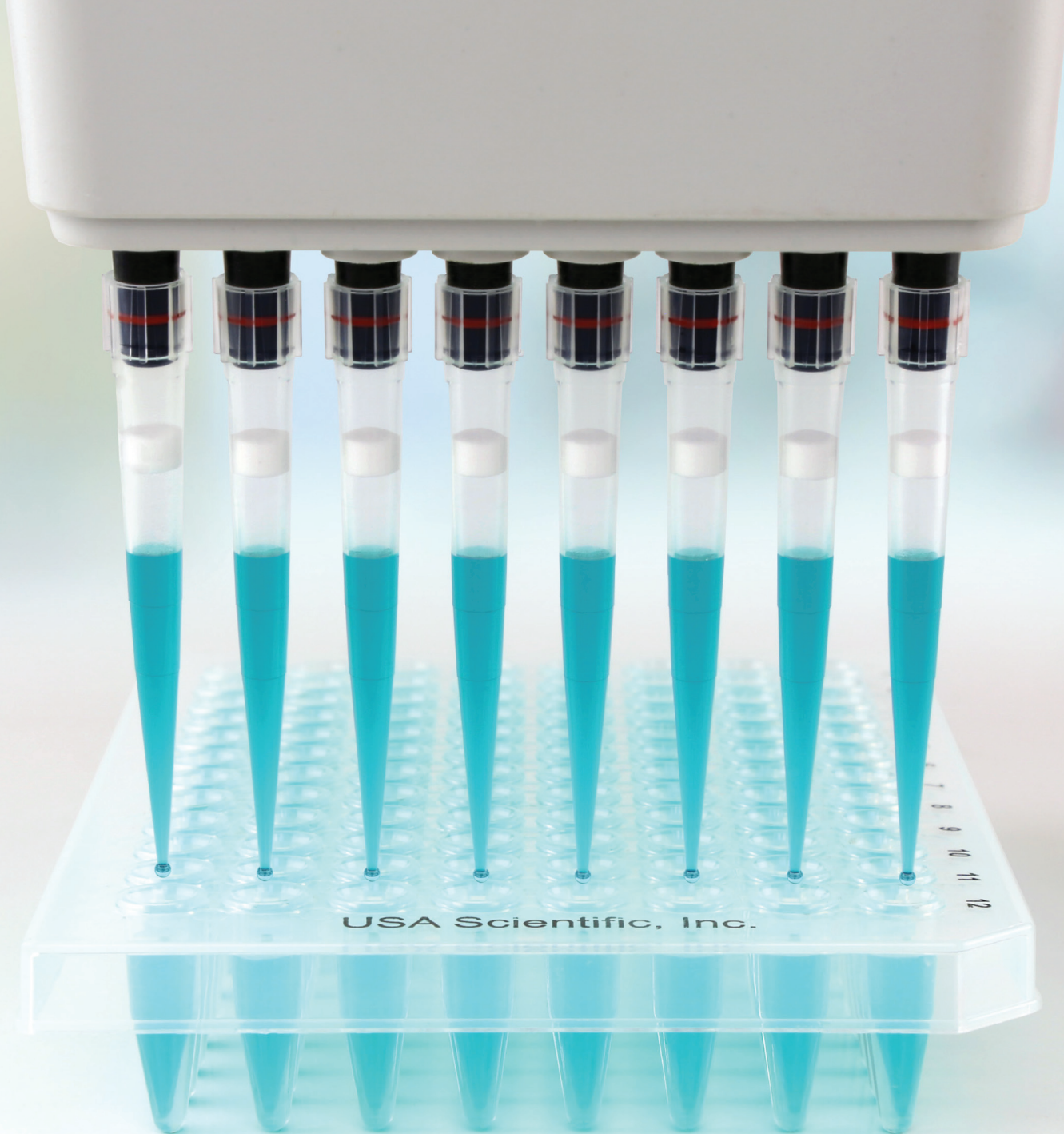
Challenges to Quantify Small RNA Modifications Accurately

During small RNA MeRIP-sequencing library construction, the cDNA synthesis step is blocked by RNA modifications. It severely reduces the sequencing coverage and quantification accuracy.



Non-Sequencing Based Solution: Small RNA Modification Arrays

- Gold standard for accurate quantification of modified small RNAs.
- One step direct labeling that eliminates the problems of RNA modifications blocking cDNA synthesis during RNA-seq library prep.
- No PCR to distort native RNA levels.
- Low sample amount requirements.
- Array coverage of multiple small RNA classes, including miRNAs, pre-miRNAs, and tsRNAs.



Proven to block >99% of aerosol contaminants*

Eliminate harmful aerosol transfers between samples with TipOne® filter tips. Pipetting generates aerosols that can be transferred from one sample to another. The right filter tips can prevent contamination of sensitive experiments and loss of time and/or are samples. Our ultra high density filters are proven to block >99% of aerosol contaminants.

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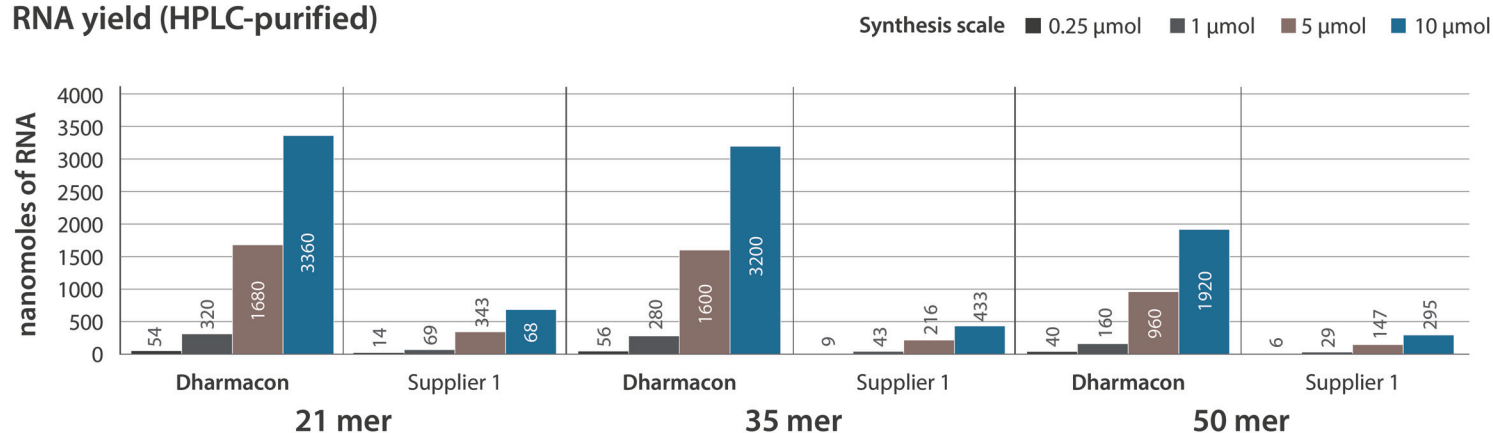
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Better RNA yields give you more for your money.

RNA yield (HPLC-purified)



The yield for RNA oligos of three different lengths was compared for all available synthesis scales between Dharmacon and a competitor.

2022 SCIENTIFIC CONFERENCES

Presenting the most significant research on cancer etiology,
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**Sixth CRI-ENCI-AACR International
Cancer Immunotherapy Conference:
Translating Science into Survival**
September 28-October 1, 2022 | New York, NY

Conference Cochairs: Özlem Türeci,
E. John Wherry, and Jedd D. Wolchok

Colorectal Cancer
October 1-4, 2022 | Portland, OR

Conference Cochairs: Jiyoung Ahn,
Robert J. Coffey, and Scott Kopetz

Cancer Epigenomics
October 6-8, 2022 | Washington, D.C.

Conference Cochairs: Scott A. Armstrong,
Howard Y. Chang, Arul M. Chinnaiyan,
and Margaret A. Goodell

Tumor Immunology and Immunotherapy
October 21-24, 2022 | Boston, MA

Conference Cochairs: Thomas F. Gajewski,
Jennifer A. Wargo, and Jedd D. Wolchok

**Innovation and Biomarkers in
Cancer Drug Development (IBCD):
A Joint Meeting Presented by
the EORTC, NCI, EMA, and AACR**

October 25, 2022 | Barcelona, Spain
Scientific Committee Cochairs: Roberto Salgado,
Tracy G. Lively, and David B. Solit

**EORTC-NCI-AACR Molecular Targets and
Cancer Therapeutics Symposium**
October 26-28, 2022 | Barcelona, Spain

Scientific Committee Cochairs: Ruth Plummer,
James L. Gulley, and Lillian L. Siu

Myeloma and Plasma Cell Dyscrasias
November 3-5, 2022 | Boston, MA

Conference Cochairs: Kenneth C. Anderson and
Irene M. Ghobrial

**2nd AACR-KCA Joint Workshop on
Precision Medicine in Cancer**
November 10-11, 2022 | Seoul, Korea

Workshop Cochairs: Nilofer S. Azad and Tae Min Kim

Cancer Metastasis
November 14-17, 2022 | Portland, OR

Conference Cochairs:
Fabrice Andre, Sean J. Morrison, Danny R. Welch,
and Zena Werb

**Precision Prevention, Early Detection, and
Interception of Cancer**

November 17-19, 2022 | Austin, TX

Conference Chair: Timothy R. Rebbeck
Conference Cochairs: Sangeeta N. Bhatia, Luis A.
Diaz, Jr., Ernest T. Hawk, and Philip W. Kantoff

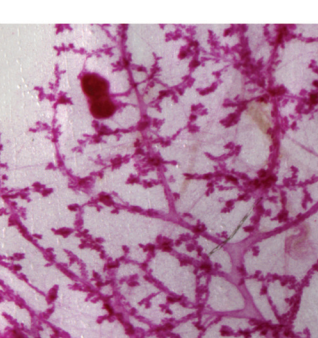
Aging and Cancer
November 17-20, 2022 | San Diego, CA

Conference Cochairs: Steven E. Artandi, Joanna L.
Grodén, and Eileen P. White

San Antonio Breast Cancer Symposium
December 6-10, 2022 | San Antonio, TX

Codirectors: Carlos L. Arteaga and Virginia G.
Kaklamani

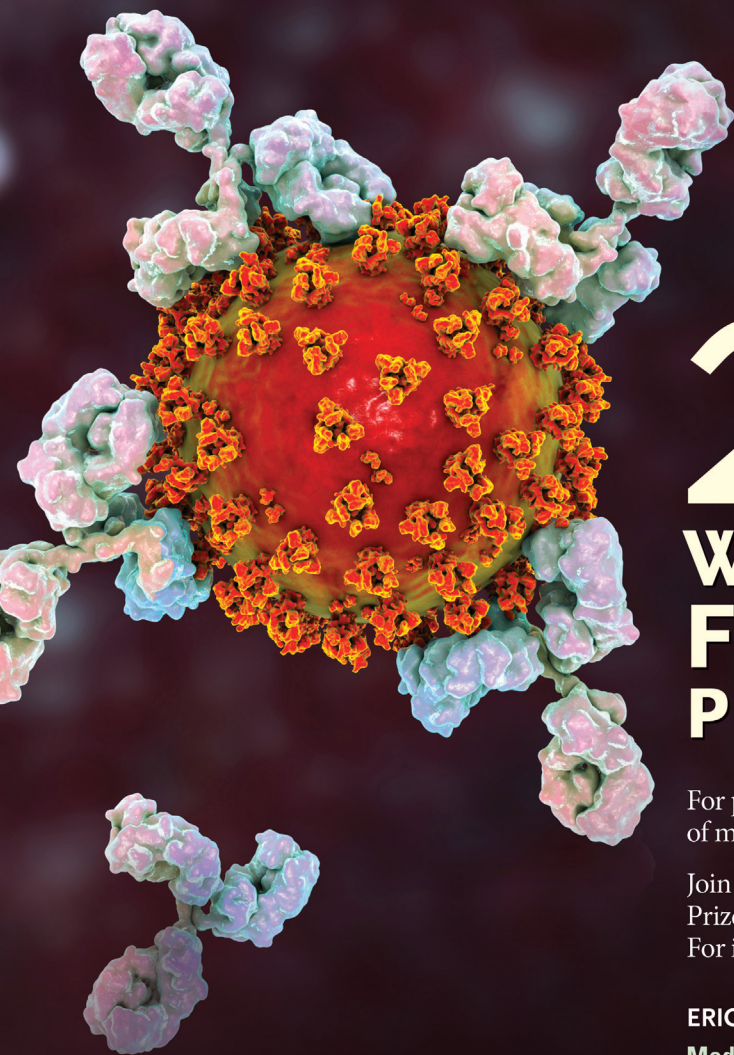
Due to the nature of the COVID-19 pandemic, dates may be subject to change.



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2022

WARREN ALPERT FOUNDATION PRIZE RECIPIENTS

For pioneering work leading to the discovery and development of mRNA vaccines.

Join us on October 6 for the 2022 Warren Alpert Foundation Prize virtual symposium to honor this year's prize recipients. For information, please visit warrenalpert.org/symposium

ERIC HUANG, PhD
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BioNTech SE

KATALIN KARIKÓ, PhD
BioNTech SE

DREW WEISSMAN, MD, PhD
University of Pennsylvania

UGUR ŞAHİN, MD
BioNTech SE

CALL FOR NOMINATIONS FOR THE 2023 PRIZE

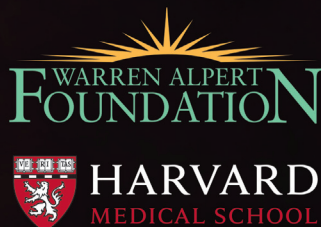
The Warren Alpert Foundation's Scientific Advisory Board, comprising internationally renowned biomedical scientists and chaired by the Dean of Harvard Medical School, invites your nominations for the 2023 Warren Alpert Foundation Prize.

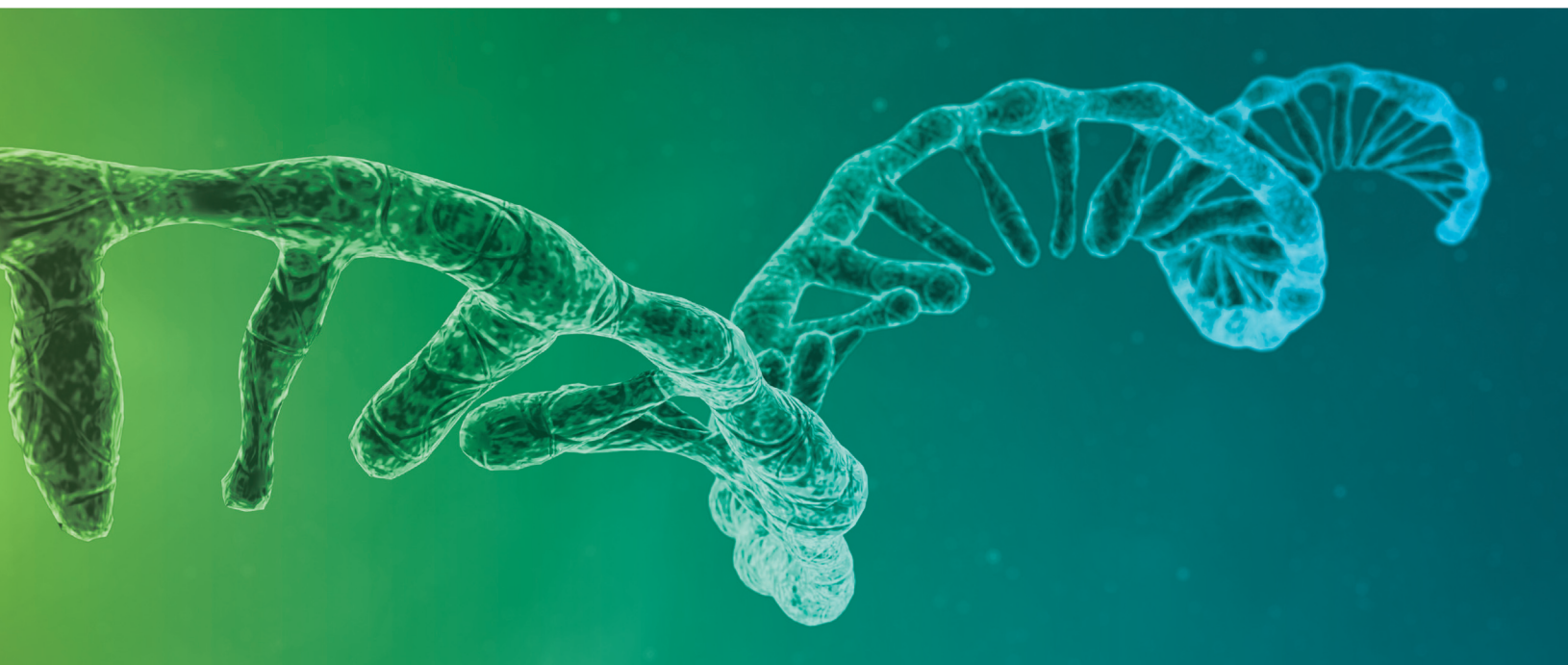
Nominations should be made for scientific achievements that have led to the prevention, cure, or treatment of human disorders or for research that holds great promise to change our ability to treat disease.

Nominations are accepted from academic institutions, centers of research, government, or other biomedical institutions from around the world.

Nomination Deadline: November 7, 2022

For more information, visit www.warrenalpert.org





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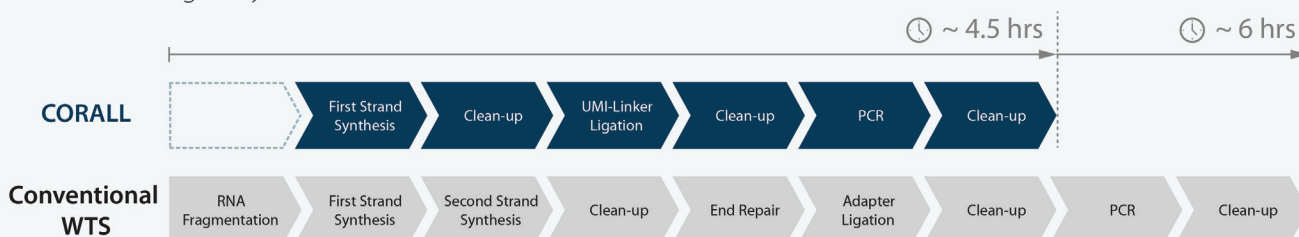
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