



Non-coding RNA and Epitranscriptomic Solutions



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Accurately profile circular RNAs by highly specific circular junction probe design

| **LncRNA Arrays**

Overcome the limitations of RNA-seq for lncRNAs often at low abundance

| **Small RNA Arrays**

Accurately profile miRNA, pre-miRNA, tRNA, tsRNA, and snoRNA simultaneously

| **Epitranscriptomic Arrays**

Quantify the percentage of m6A modifications at the transcript specific level

| **m6A Single Nucleotide Arrays**

Locate and quantify the exact m6A site at single nucleotide resolution

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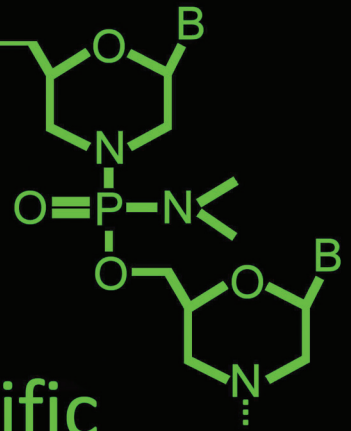
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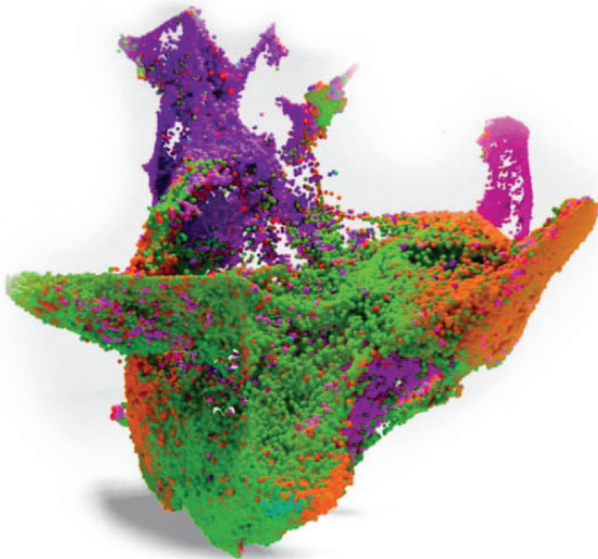
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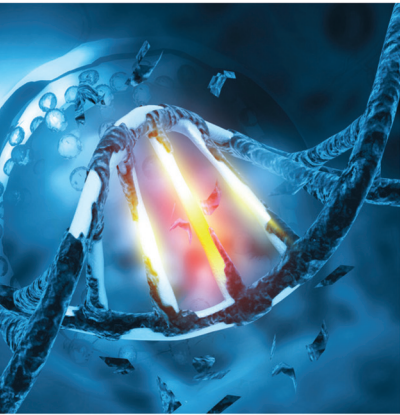
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Cancer Research: Translating Cancer Evolution and Data Science: The Next Frontier

December 3-6, 2023 | Boston, MA

Conference Cochairs: Anna D. Barker, Franziska Michor, and Jeffrey P. Townsend

San Antonio Breast Cancer Symposium December 5-9, 2023 | San Antonio, TX

Codirectors: Carlos L. Arteaga and Virginia G. Kaklamani



DNA Damage Repair: From Basic Science to Future Clinical Application

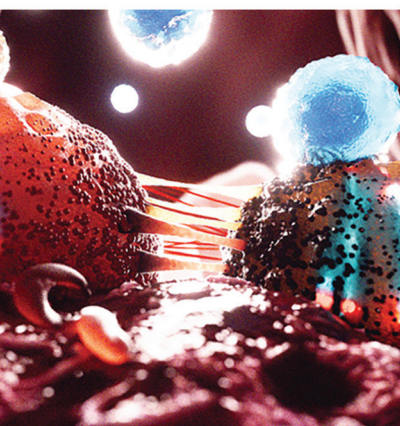
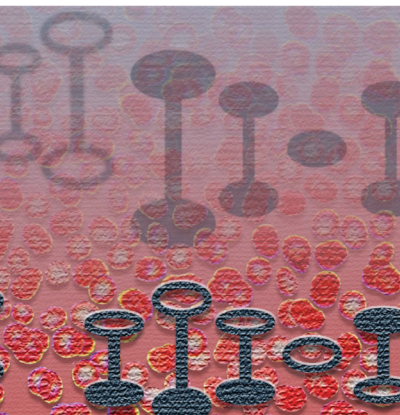
January 9-11, 2024 | Washington, DC
Conference Cochairs: Robert G. Bristow, David K. Cortez, Susan P. Lees-Miller, and Simon N. Powell

EACR-AACR Basic and Translational Research Conference: How to Bring Basic Science Discoveries to the Clinic

February 27-29, 2024 | Dublin, Ireland
Committee Cochairs: Rene Bernards, Christine M. Lovely, and Tracy Robson

Blood Cancer Discovery Symposium March 4-6, 2024 | Boston, MA

Symposium Co-chairs: Kenneth C. Anderson, and Riccardo Dalla-Favera



April 5-10, 2024 | San Diego, CA
Early Registration Deadline: December 15, 2023
**Late Breaking Abstract Submission Opens:
December 18, 2023**

Program Committee Chairs: Keith T. Flaherty and Christina Curtis

Bladder Cancer: Transforming the Field May 17-20, 2024 | Charlotte, NC

Conference Cochairs: Lars Dyrskjøjt Andersen, Donna E. Hansel, Dan Theodorescu, and Tahlita C. M. Zuiverloon

Pediatric Cancer September 5-8, 2024 | Toronto, ON, Canada

Conference Cochairs: Alejandro Gutierrez, Cynthia E. Hawkins, Andrea A. Hayes, and Gilles Vassal

Pancreatic Cancer September 15-18, 2024 | Boston, MA

Conference Cochairs: Peter J. Allen, Stephanie K. Dougan, Michael A. (Tony) Hollingsworth, and Alec C. Kimmelman

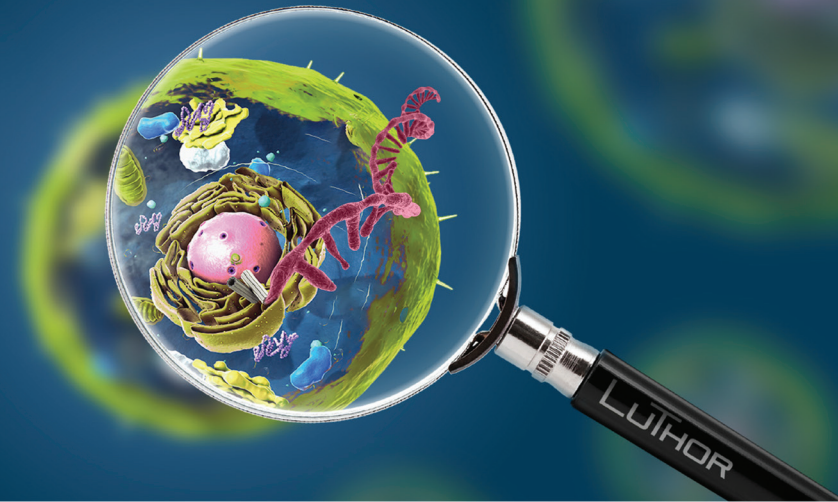
Tumor Immunology and Immunotherapy in association with the Cancer Immunology (CIMM) Working Group

October 18-21, 2024 | Boston, MA
Conference Cochairs: Yvonne Y. Chen, Sergio Quezada, Robert D. Schreiber, and Fernando Vidal-Vanaclocha

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Library preparation starts with generation of a double-stranded template for T7-promoted *in vitro* transcription, at the gene 3' end (Fig. 1). Amplified RNA is then prepared by random-primed reverse transcription and subsequent library amplification (not shown).

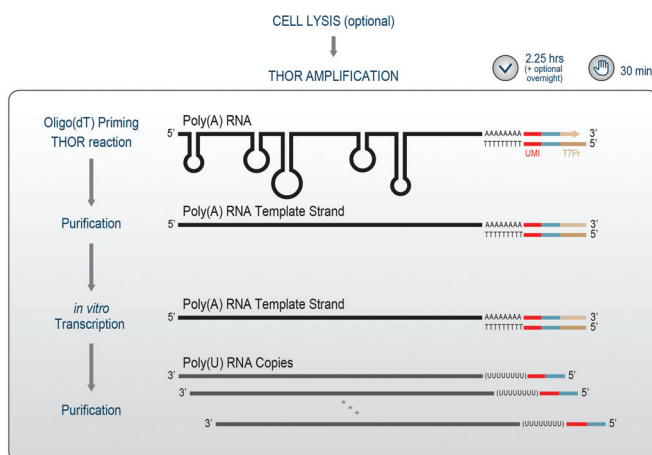


Figure 1 | THOR (T7 High-resolution Original RNA amplification) reaction diagram. Red line: UMI; blue line: Illumina adapter; light brown line: T7 promoter.

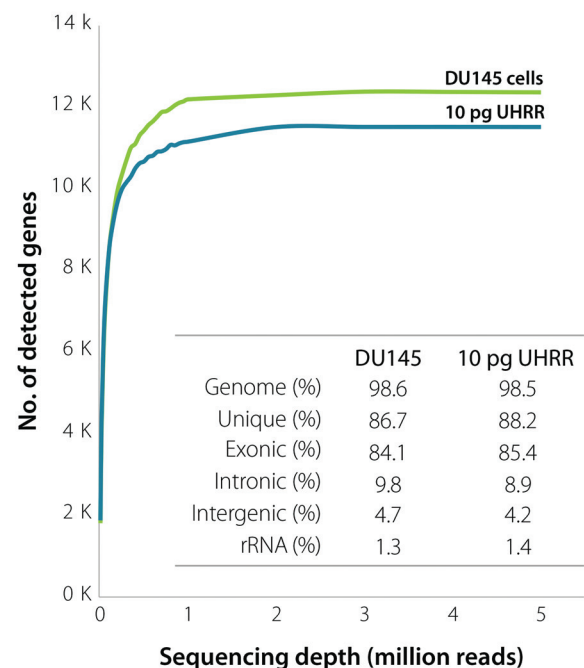


Figure 2 | Sensitivity of LUTHOR. Scatter plots of the average number of genes detected per DU145 human cell (contains 18.3 ± 1.5 pg of total RNA) and 10 pg Universal Human Reference RNA (UHRR) inferred across four replicates at stepwise-reduced read fractions (CPM > 1). Table shows sequencing alignment metrics across four DU145 cells and 10 pg UHRR replicates at 1 million read depth.



Interested to learn more?

Check the *Nature Methods* application note!