## Tuesday, June 24, 2025

10:00–5:00 pm	Exhibitor and Posterboard Set-Up   Medical School Lobbies and Faculty Conference Room
	Wednesday, June 25, 2025
10:00–2:30 pm	Registration   Albert Sherman Center (ASC) Lobby (Career workshop participants register by 12:45pm)
1.00–2.30 pm	Career Workshop (pre-registration required)   Paul J. Dimare Center Conference Room
2.40–2.45 pm	Welcome and Introduction, Phillip D. Zamore, RTI, UMass Chan Medical School
2.45–3.30 pm	Regulation of exogenous RNAs: From viral RNAs to mRNA therapeutics Keynote: V. Narry Kim, Seoul National University
3.40–4.30 pm	Poster Flash Talks and Exhibit Hall   ASC2.2102 Auditorium & Medical School Lobbies & Online Session Chair: Theodore Carrigan-Broda, RTI, UMass Chan
4.30–6.00 pm	RNATx Kickoff & Happy Hour   Paul J. Dimare Center Conference Area and Foyer

## Thursday, June 26, 2025

7.45–8.45 am Registration & Continental Breakfast | ASC Multipurpose Room (MPR)

7.45–8.45 am	Registration & Continental Breakfast   ASC Multipurpose Room (MPR)
Session I	The Long and the Short of ncRNAs   ASC2.2102 & Online Session Chairs: Samantha Ho & Haoyang Cheng, RTI, UMass Chan
8.50–8.55 am	Welcome and Introduction, Phillip D. Zamore, RTI, UMass Chan Medical School
8.55–9.20 am	MicroRNA-mediated gene regulation in animal development Victor Ambros, UMass Chan Medical School
9.25–9.50 am	Conserved roles of miRNAs in development Luisa Cochella, Johns Hopkins School of Medicine
9.55–10.20 am	Investigating the structure-function relationships of noncoding RNAs Alisha "Jonesy" Jones, New York University
10.25–10.35 am	Evidence for Mutator component-independent piRNA silencing in <i>C. elegans</i> Wendy Tan, <i>RTI, UMass Chan Medical School</i>
ON DEMAND	Short Talks
10.40–11.10 am	Networking & Coffee Break   Medical School Lobbies
Session II	RNA Structure & Mechanism   ASC2.2102 & Online Session Chairs: William Cruz & Min Zhang RTI, UMass Chan
11.15–11.40 am	From noise to signal: studying the efficiency of mRNA splicing Athma Pai, RTI, UMass Chan Medical School
11.45–12.10 pm	tRNA modifications & codon-biased translation in cancer Richard I. Gregory, UMass Chan Medical School
12.15–12.25 pm	Cell surface glycoRNA biology Ryan Flynn, Boston Children's, Harvard Medical School
12.30–12.40 pm	Uncovering the postfertilization regulatory mechanisms required for intergenerational epigenetic inheritance in mice  Grace Lee, University of Pennsylvania
12.45–1.45 pm	Lunch   ASC Multipurpose Room (MPR)
1.45–3.30 pm	Poster Session I (Even Posters) & Exhibit Hall Medical School Lobbies & Online
Session III	RNA Technologies   ASC2.2102 & Online Session Chairs: Marina Krykbaeva & Valeria Sanabria, RTI, UMass Chan
3.30–3.55 pm	Cross-kingdom RNA communication & RNA-based innovative strategies for crop-protection Hailing Jin, <i>UC Riverside</i>
4.00–4.25 pm	Ancient RNA - Possibilities and Limitations Marc Friedländer, Stockholm University
4.30–4.40 pm	irCLIP-RNP and Re-CLIP reveal patterns of dynamic protein assemblies on RNA Luca Ducoli, Stanford University

4.45–4	.55 pm	Mime-seq 2.0: Cell-specific sequencing of microRNAs from mammalian tissues and organs Ariane Mandlbauer, <i>Johns Hopkins University</i>
5.00–5	5.10 pm	Deep generative models generate mRNA sequences with enhanced translational capacity and stability He Zhang, Raina Biosciences
6.00 pr	m	RNATx Party Top of the Tower, ticket required
Friday, June 27, 2025		
7.45–8	3.45 am	Registration & Continental Breakfast   ASC MPR
Sessio	on IV	ASOs, Delivery, and Cancer Tx   ASC2.2102 & Online Session Chairs: Thomas Ormsby & Matt Yee, RTI, UMass Chan
8.45–9	9.10 am	Development of SORT lipid nanoparticles (LNPs) for genome correction of disease-causing mutations Daniel J. Siegwart, UT Southwestern
9.15–9	9.40 am	Gain and Loss of RBP Functions a Cancer-Associated Mutation Daniel Dominguez, UNC School of Medicine
9.40–9	9.50 am	Mirror-image Nucleic Acids as Advanced Molecular Therapies Wen Zhang, Indiana University School of Medicine
9.55–1	10.20 am	The Basic and Applied Biology of Engineered Exosomes for Delivery of RNA Therapeutics and Cancer Vaccine Raghu Kalluri, MD Anderson Cancer Center
10.20–1	10.50 am	Networking & Coffee Break   Medical School Lobbies
Sessio	on V	Editing   ASC2.2102 & Online Session Chairs: Anis Barati & Daniel MacVeigh-Fierro, RTI, UMass Chan
10.55–1	1.20 am	Development and Characterization of Precision Genome Editing Tools Alexis Komor, University of California, Berkeley
11.25–1	1.35 am	Applying AlMer-based RNA editing technology to nonsense mutation correction in the CNS and lung Genliang Lu, Wave Life Sciences
11.40–1	1.50 am	Prime editing-mediated conversion of an endogenous tRNA gene into a suppressor tRNA for disease-agnostic therapeutic genome editing Sarah Pierce, <i>Broad Institute</i>
11.55–1	2.05 pm	Mechanistic insights into CRISPR-associated transposons and implications for programmable gene insertion Leifu Chang, Purdue University
12.10–1	2.20 pm	Developing bespoke gene editing treatments for patients with carbamoyl phosphate synthetase 1 (CPS1) deficiency in real time: successes and challenges Xiao Wang, University of Pennsylvania
12.25–	1.15 pm	Lunch   ASC MPR
1.15–2	2.45 pm	Poster Session II (Odd Posters) & Exhibit Hall Medical School Lobbies & Online
Session	n VI	Translating Discoveries   ASC2.2102 & Online Session Chairs: Annie Collins & Emily Knox, RTI, UMass Chan
2.45–3	3.10 pm	Receptor Mediated Targeted Delivery to Proximal Tubules in Kidney Alfica Sehgal, <i>Judo Bio</i>
3.15–3	3.25 pm	MicroRNA-21 is a Potential Therapeutic Agent Targeting Tgfbi and Mitigating High-Fat-Diet-Induced Liver Disease and Cancer Urmila Jagtap, Beth Israel Deaconess Medical Center, Harvard Medical School
3.30–3	3.55 pm	Cancer genes beyond chromosomes Howard Chang, <i>Amgen</i>
4.00-4	1.10 pm	Advancing an intrathecal divalent siRNA for prion disease as an investigator-initiated program Eric Vallabh Minikel, <i>Broad Institute</i>
4.15-	4.25 pm	RSwitch-enabled Gene Therapy to Fine Tune Frataxin Expression for the Treatment of Friedrich's Ataxia Jon Dempersmier, $Rgenta$
4.30–4	1.40 pm	Unlocking the full potential of RNAi therapeutics with LEAD™ Chunyang Zhang, <i>Sanegene Bio</i>
4.45–5	.30 pm	Biomimetic Chemistry of RNA Therapeutics Keynote: Mano Manoharan, Alnylam Pharmaceuticals