



Accelerating RNA therapeutics development through integrated academic platforms



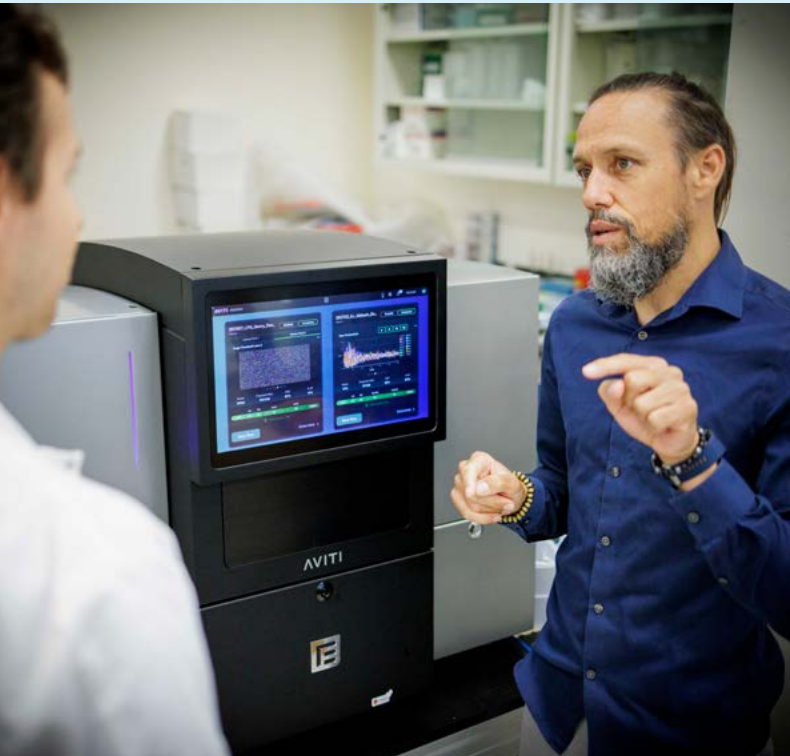
The **Quebec RNA Therapeutics Network** brings together Quebec's three leading academic RNA platforms — Université de Sherbrooke, IRCM and McGill University — under a **unified and collaborative framework**. By integrating complementary expertise, technologies, and infrastructure, the Network supports the **efficient advancement of RNA-based therapeutics** from early design through to **preclinical validation**.



DESIGN & SCREENING	PRODUCTION & FORMULATION	FUNCTIONAL VALIDATION
<ul style="list-style-type: none"> • Experimental design Consultation • mRNA, ASO, siRNA, PMO, sgRNA, lncRNA sequence design & optimization • CRISPR-dCas13Rx-based and ASO-based reprogramming of RNA splicing • Bioinformatics & target discovery (RNA-Seq) 	<ul style="list-style-type: none"> • solid-phase ASO, siRNA, sgRNA, PMO synthesis & Quality Control • mRNA synthesis IVT & Quality control • LNP formulation & encapsulation ASO, siRNA, PMO & LNP conjugation • QC & cross-platform reproducibility 	<ul style="list-style-type: none"> • Automated screening & validation (Cellular model) • <i>In vivo</i> rodent models testing & validation (BSL1/2/3) • RNA delivery, RT-PCR, RNA-Seq & splicing modulation assays • Fluorescence microscopy imaging, <i>in vivo</i> imaging & phenotypic screening

VALUE PROPOSITION

- **End-to-end RNA therapeutic development**, from design to preclinical validation
- Broad range of RNA modalities: mRNA-LNP, ASO, siRNA, PMO, sgRNA, and lncRNA
- **Standardized workflows and SOPs** ensuring quality, traceability, and reproducibility
- **Cross-platform integration** enabling robust and reliable data packages
- **Flexible engagement models:** fee-for-service, collaborative R&D, and co-development partnerships



ACCESS AND COLLABORATION

Exploring RNA-based therapeutics?
Engage with the Quebec
RNA Therapeutics Network.

We support collaborative initiatives and public-private partnerships, providing coordinated access to integrated platforms for efficient project alignment and execution.

The Quebec RNA Therapeutics Network operates within ARENA, Quebec's RNA Hub, established with the support of the Government of Quebec. Its activities are aligned with and contribute to projects supported by Médicament Québec.

arenapole.ca/en/initiative/service-platforms-for-the-development-of-rna-therapies/



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