circio

Circular RNA expression systems for enhanced gene and cell therapies

1H 2025 report and R&D update Webcast - 28 August 2025



Important notice and disclaimer

This report contains certain forward-looking statements based on uncertainty, since they relate to events and depend on circumstances that will occur in the future and which, by their nature, will have an impact on the results of operations and the financial condition of Circio Holding ASA and the Circio Group. Such forward-looking statements reflect the current views of Circio and are based on the information currently available to the company. Circio cannot give any assurance as to the correctness of such statements.

There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in these forward-looking statements. These factors include, among other things, risks or uncertainties associated with the success of future clinical trials; risks relating to personal injury or death in connection with clinical trials or following commercialization of the company's products, and liability in connection therewith; risks relating to the company's freedom to operate (competitors patents) in respect of the products it develops; risks of non-approval of patents not yet granted and the company's ability to adequately protect its intellectual property and know-how; risks relating to obtaining regulatory approval and other regulatory risks relating to the development and future commercialization of the company's products; risks that research and development will not yield new products that achieve commercial success; risks relating to the company's ability to successfully commercialize and gain market acceptance for Circio's products; risks relating to the future development of the pricing environment and/or regulations for pharmaceutical products; risks relating to the company's ability to secure additional financing in the future, which may not be available on favorable terms or at all; risks relating to currency fluctuations; risks associated with technological development, growth management, general economic and business conditions; risks relating to the company's ability to retain key personnel; and risks relating to the impact of competition.

Highlights & market update

- 2. R&D update
- 3. Corporate update

First half year 2025 highlights

Financing

- Number of outstanding convertible bonds substantially reduced
- Extended financing commitment with Atlas, securing access to funding until end of 2025

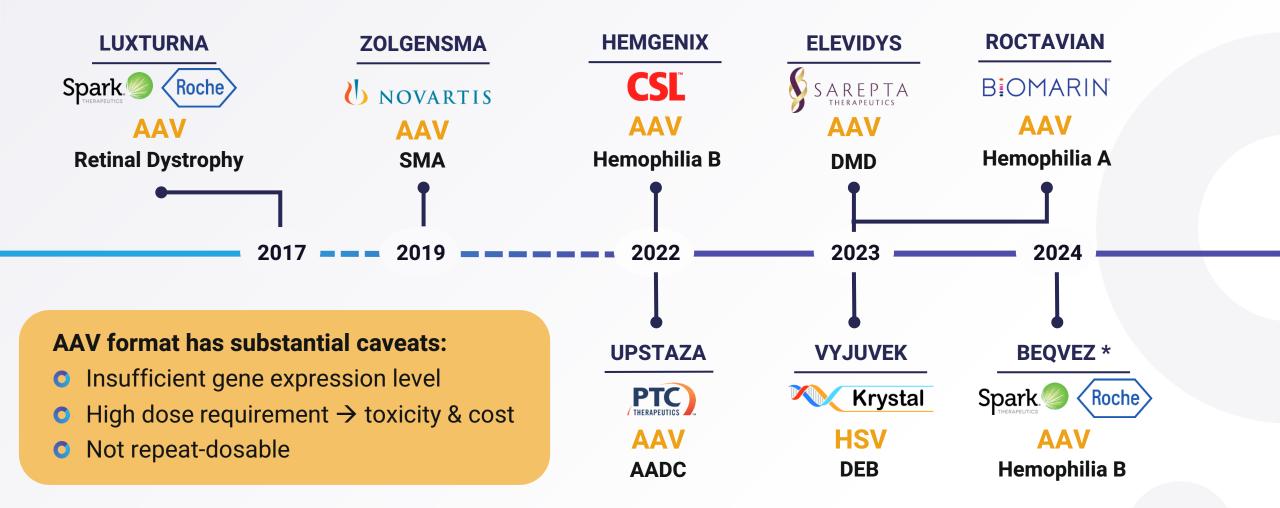
Business development

- Entered 7 R&D collaborations with international partners for circVec DNA delivery, novel DNA formats and protein production
- 4basebio, Certest, Entos, Neoregen, Lonza (+ 2 confidential)

circVec R&D

- Showed in vivo PoC with robust circVec advantage for AAV gene therapy and in vivo cell therapy
- Published circular RNA review in Nature Reviews Genetics
- Presented circVec gene and cell therapy data at ASGCT, the leading global conference in the field

The AAV vector is the main gene therapy format today, 7 approved products to date



The circVec technology platform can address major challenges of current gold-standard AAV gene therapy



Danon Disease Patient Dies in Rocket Gene Therapy Trial



a patient in a

disease gene therapy candidate RP-A501, a study that the FDA has placed on clinical hold.

Challenges for AAV gene therapy:

- Very high AAV dose level required (= high tox & cost)
- Co-administration of immune suppressive medication
- >> Severe adverse events (SAEs), incl. risk of death

Circio's circVec technology can unlock:

- >10-fold reduction of AAV dose level (= lower tox & cost)
- Reduction of immune suppressive medication
- Elimination of most severe adverse events (SAEs)

circVec: a first-in-class, industry-leading circRNA expression system with platform potential in several disease areas

Lead program, in house focus



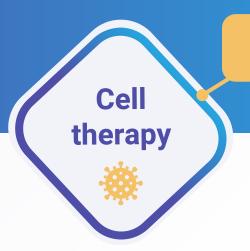
Muscle, cardiac and other genetic disease

Tissue-specific, enhanced potency AAV

>150,000 patients in target diseases, with no approved therapies



Next Gen AAV



Next step / partnership

Auto-immune disease, oncology

LNP: DNA format, redosable

Very large patient population, only autologous options available today

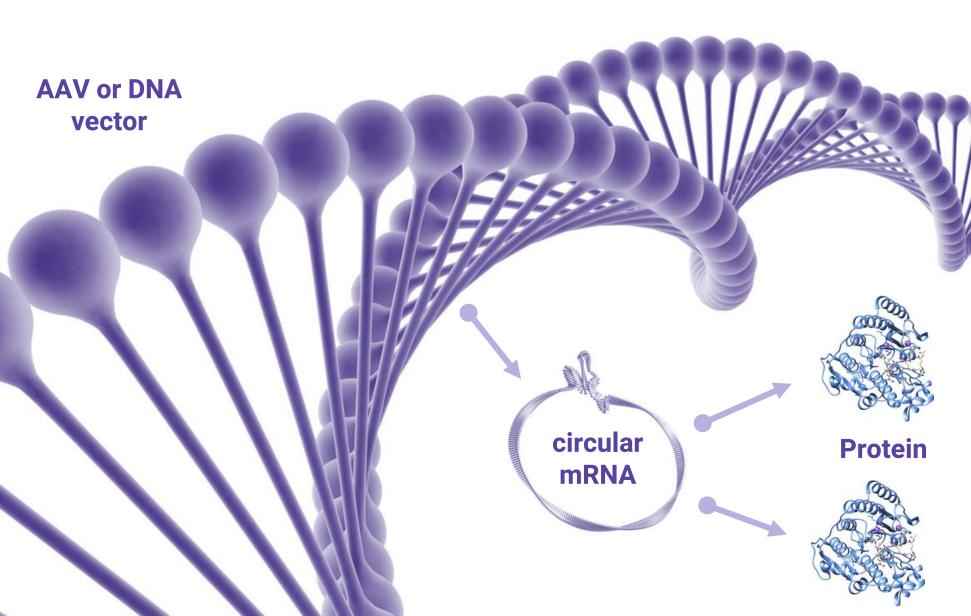


In vivo CAR

R&D update

3. Corporate update

Circio's unique circVec expression system: Enhanced potency and durability by circular RNA



circVec AAV or DNA vector therapeutic



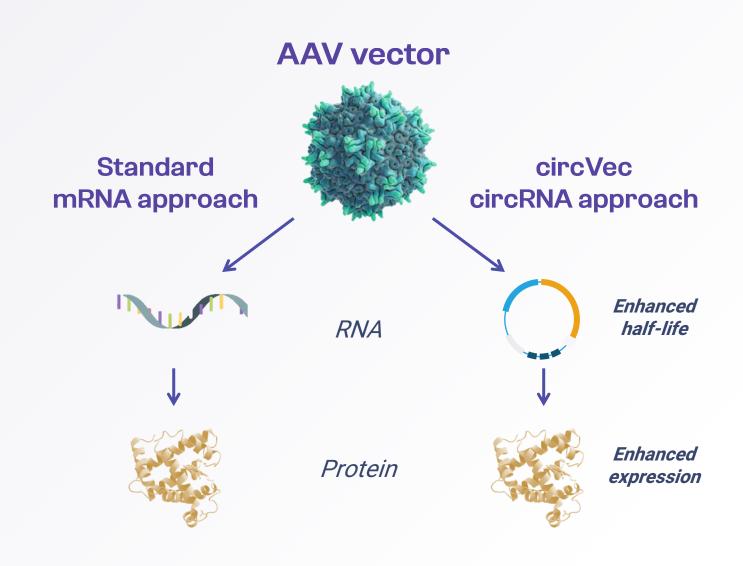
circRNA expression in patient cells



Higher and more durable protein expression

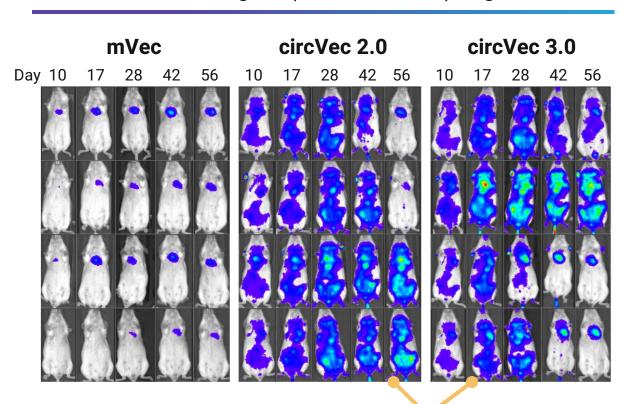
circio

Boosting the activity of AAVs by circVec expression



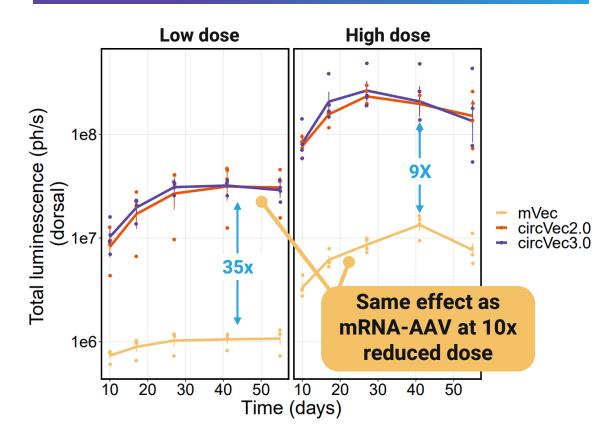
Data from May 2025: >10x advantage of circVec 2nd and 3rd generation vs. mVec-AAV in heart

AAV circVec, heart specific – two AAV designs Quantification of signal (luminescence), high dose

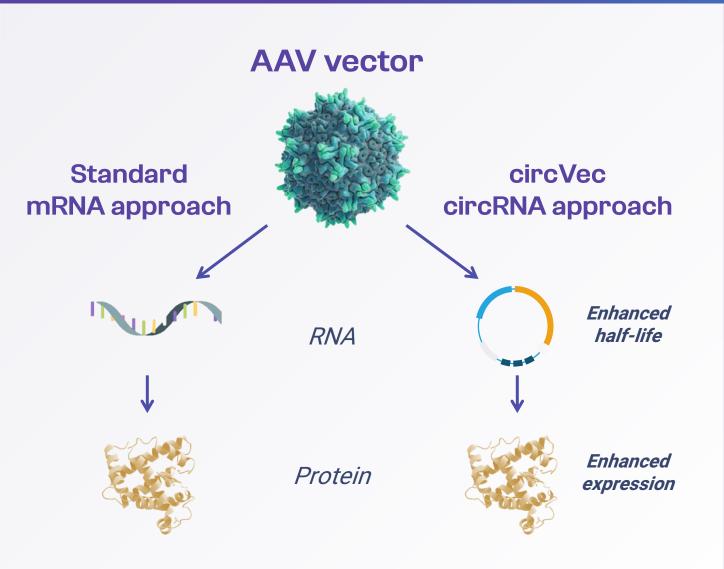


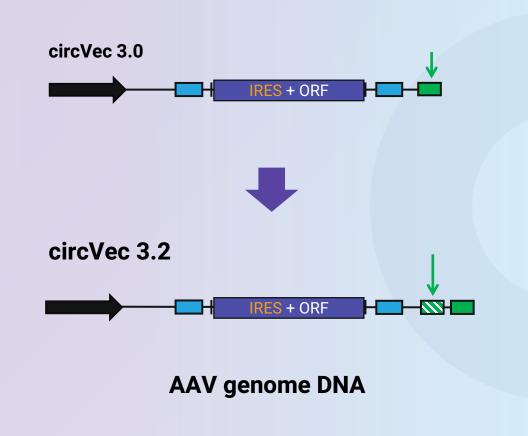
Similar performance for circVec 2.1 and 3.0 in AAV format

AAV-circVec, heart specific – two AAV designs Quantification of signal, high/low dose comparison

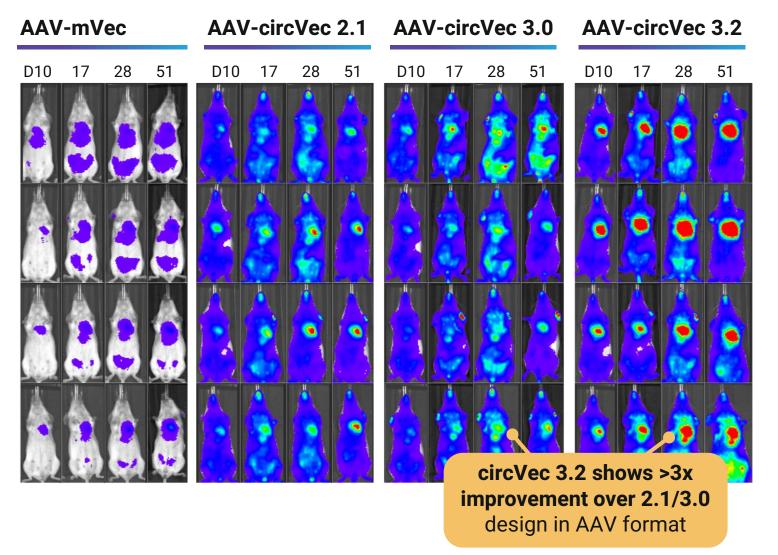


Novel AAV-specific circVec 3.2 design identified

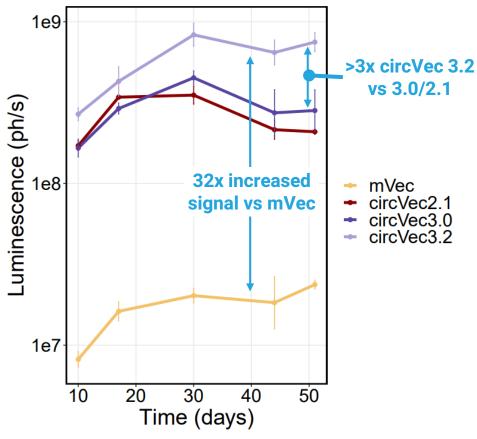




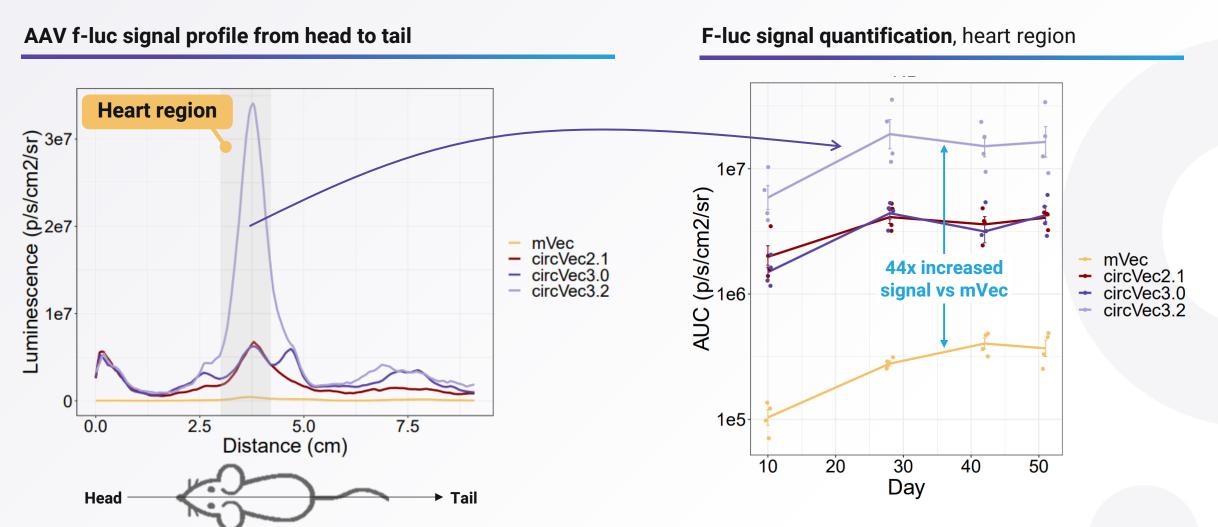
AAV-circVec 3.2 outperforms previous designs, increases advantage to >30x vs. mVec-AAV



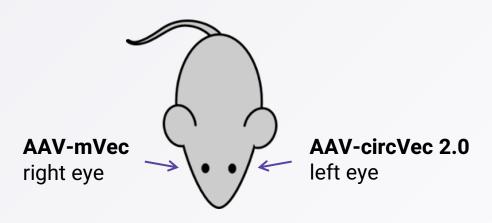
Quantification of f-luc signal, high dose



>40x circVec 3.2 advantage vs mVec in heart region



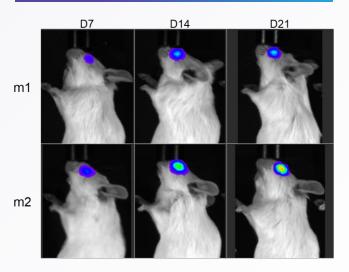
Robust AAV-circVec 2.0 advantage also shown in eye



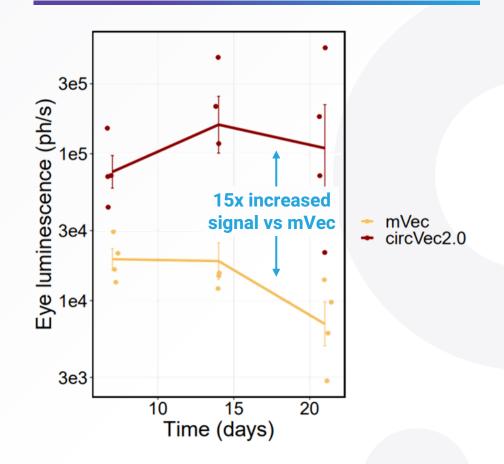
AAV-mVec, IVIS scan Day 7-21*

m1 D7 D14 D21 m2 m2

AAV-circVec, IVIS scan Day 7-21*



F-luc signal quantification in eye, Day 7-21*



Take-home messages: transforming AAV gene therapy



 AAV-circVec consistently outperforms conventional AAV-mVec designs by 10-40x



 AAV-circVec advantage observed in multiple tissues using different AAV variants and promoters

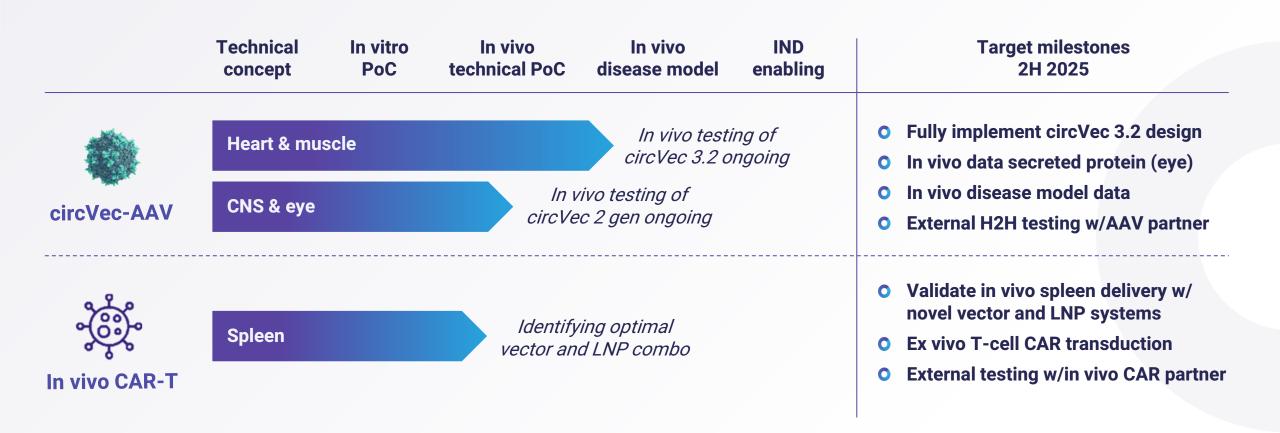


Novel AAV-specific circVec 3.2 design drives 3x enhancement in vivo vs. prior generation 2 and 3 constructs



- Transformative potential in AAV gene therapy: current data suggests circVec platform can unlock >10x dose reduction
 - Improved safety profile, reduced toxicity
 - Lower cost

Development plan - Rich pipeline of R&D milestones



Continuous platform development: circVec generation 4, vector and delivery optimization



Financial overview 1H 2025



Equity Financing

- Warrant funds and Atlas facility were the source of financing through 1H 2025
- Ongoing discussion with investors for new capital



Extended runway

- Agreement with Atlas extends financing commitment until end of 2025, with option for further extension
- Continued tight cost control, focus on R&D value creation



Reduced risk

- Outstanding bonds reduced from NOK 35m to NOK 9.5m*
- Strengthened cap table with new investors
- Significantly strengthened data package reduces technical risk, attracting partners and new investors

1H 2025 accounts – continued tight cost control

NOK m	1H24	2H24	1H25 ¹
Total revenue	0	0	0
R&D expenses ²	-7	-4	-6
Payroll and related expenses	-10	-12	-10
Other operating expenses ³	-5	-3	-4
Total operating expenses	-23	-20	-20
Operating loss	-23	-20	-20
Net financial items	65	35	-2
Profit/loss before income tax	42	16	-22
Net change in cash	-19	15	-12
Net cash EOP	3	18	6

High number of ongoing in vivo projects **Lean and efficient R&D** team **Cost control continues Waiver of ONCOS-102 R&D loans (2024) Drawing Atlas funds on a** strict need-to basis

Pursuing various options to strengthen the shareholder base and financial outlook



Financing

- Continuously exploring multiple financing options, building on recent strong AAV-circVec data
- Market conditions remain challenging, but improving slowly



Atlas facility

- Financing commitment extended until end of 2025
- Good relationship, option for extension on mutual agreement
- Reliable access to capital during tough market conditions



Business development

- Continue to establish novel technology collaborations
- AAV gene therapy program most likely for short-term deal
- Monetize technology in non-core or complex areas

Seven BD collaborations initiated in 2025



circVec: next milestones and BD activities

		Next milestone	BD activities	
	AAV gene	 Test circVec 3.2 performance in multiple tissues 	 Active discussions with AAV gene therapy companies 	
	therapy	CNS and eye in vivo data	 External circVec AAV testing 	
	DNA cell	 Test new delivery systems 	 Early discussions with cell 	
		circVec CAR expression	therapy companies	
therapy	 Ex vivo T cell experiments 	 External circVec DNA testing 		
	DNA	 Test additional LNP formulations 	 Several ongoing collaborations 	
= >>> g deliver		 Test other delivery systems 	Certest, Entos, 4BB + others,	
	uelivei y	Validate w/new DNA format	data during 2H'2025	

Circio is the leader in circular RNA expression systems for gene and cell therapy - take-home messages:



Durability

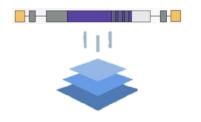
circVec offers 70x durability and 15x protein expression advantage over conventional mRNA-based expression → transformative potential in gene and cell therapy



Versatility

circVec significantly improves both AAV and DNA vectors

- → Up to 40x enhanced activity of AAVs, enabling dose reduction
- → Novel LNP:DNA approach for in vivo CAR-T cell therapy



Platform potential

circVec is a first-in-class, industry-leading circRNA expression system with platform potential in multiple disease areas

✓ Due to its significant advantages, circRNA systems can be expected to replace mRNAbased expression for DNA format therapeutics in the future – just as synthetic circRNA can be expected to replace current mRNA formats

Dr. Alex Wesselhoeft

Scientific founder

oRNA Therapeutics

circio

Q&A Session

