circio

Circular RNA expression systems for enhanced gene and cell therapies

R&D and corporate update webcast 28 May 2025

Important notice and disclaimer

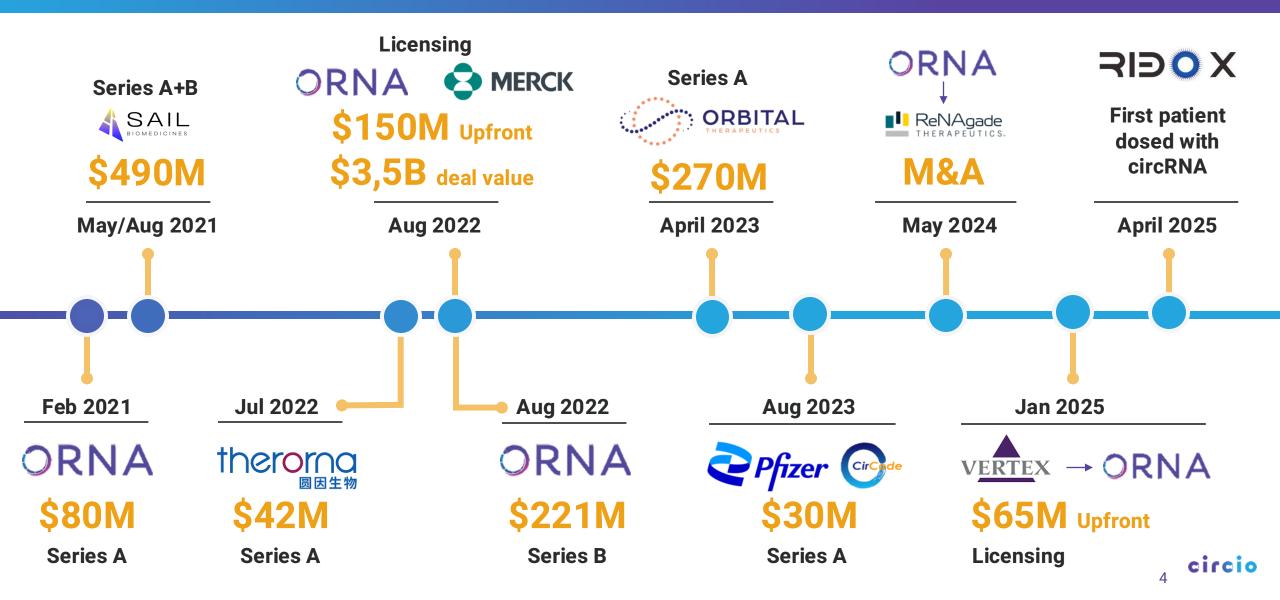
This report contains certain forward-looking statements based on uncertainty, since they relate to events and depend on circumstances that will occur in the future and which, by their nature, will have an impact on the results of operations and the financial condition of Circio Holding ASA and the Circio 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 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 b usiness conditions; risks relating to the company's ability to retain key personnel; and risks relating to the impact of competition.

Market update

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

Continued high deal activity in circular RNA space



Two recent circRNA and gene therapy deals highlight substantial commercial opportunity in Circio areas



\$65m up-front

+ up to \$635m in milestones

LNP-circRNA for *in vivo* gene editing in blood diseases

- circRNA (oRNA) manufacturing and LNP delivery platform
- Develop two novel therapeutic candidates for sickle cell disease and beta thalassemia



\$1.1b

in up-front + milestones

AAV gene therapy for muscular dystrophies

- AAV capsid engineering technology platform
- Three preclinical neuromuscular therapeutic candidates for DM1, DMD and FSHD

Circio's circVec platform is technologically differentiated, opportunity in next generation gene and cell therapies



Muscle and cardiac genetic disease

Tissue-specific AAV format

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



. . . .

Auto-immune disease, oncology

LNP: DNA format, redosable

Very large patient population, only autologous options available today



In vivo CAR

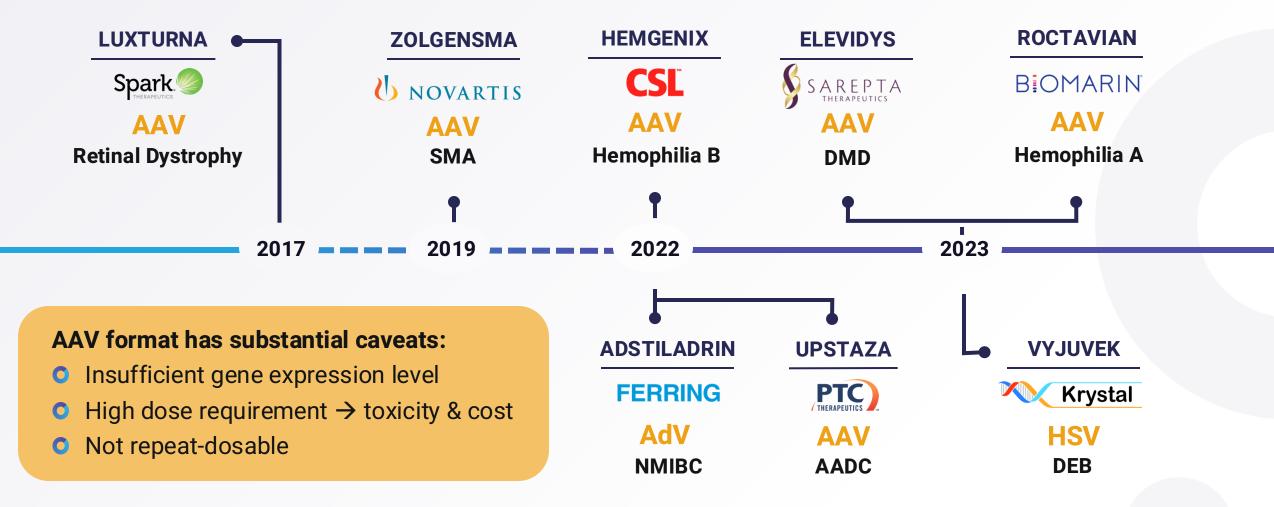


R&D: circVec AAV

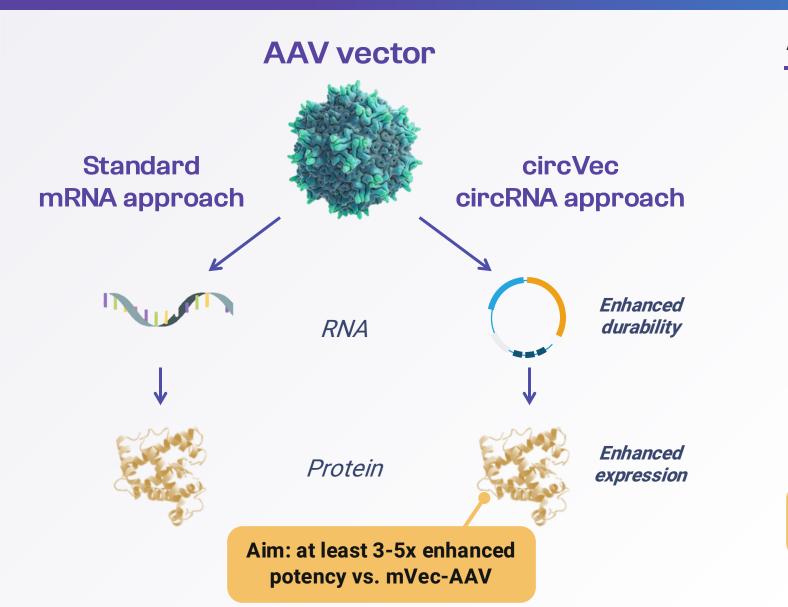
3. Corporate update



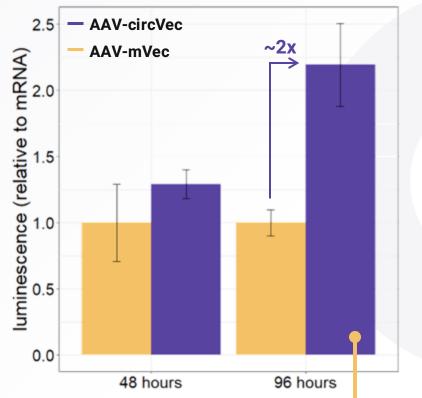
AAV virus is the main gene therapy format today, circVec addresses major caveats



circVec for gene therapy – enhancing AAV vectors



AAV protein expression, in vitro f-Luc



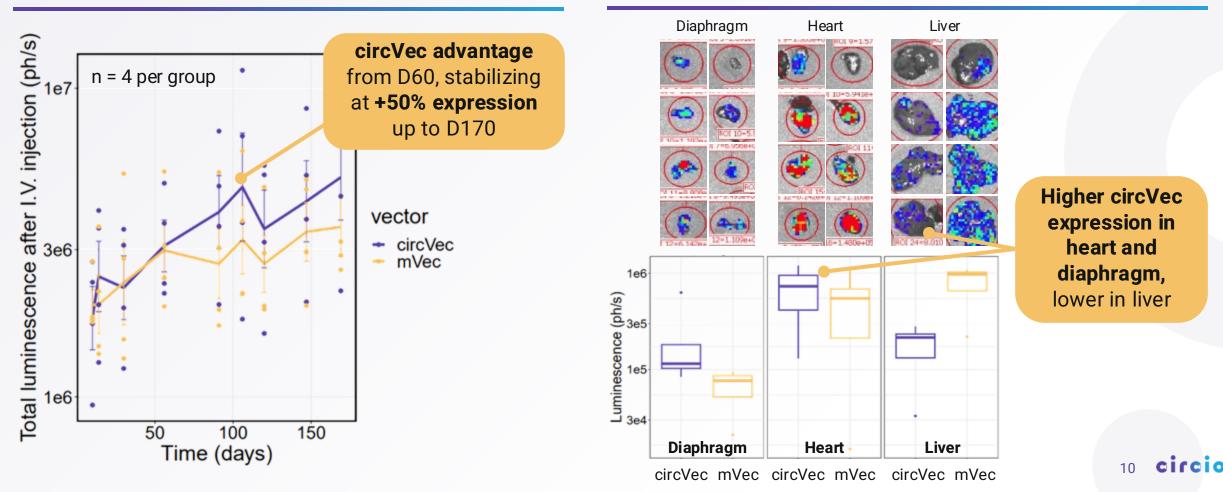
circVec-AAV feasibility validated, testing and optimization of constructs ongoing

Multiple circVec-AAV designs have been tested in various tissues and delivery routes

AAV-circVec, <u>muscle</u> specific

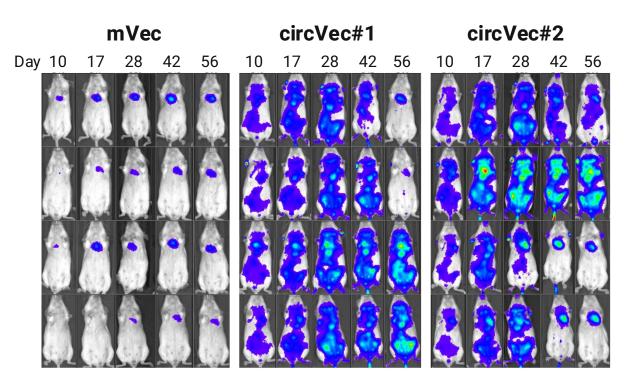
Quantification of signal (luminescence)

Tissue-specific signal from AAV-circVec Post mortem ex vivo analysis (luminescence)

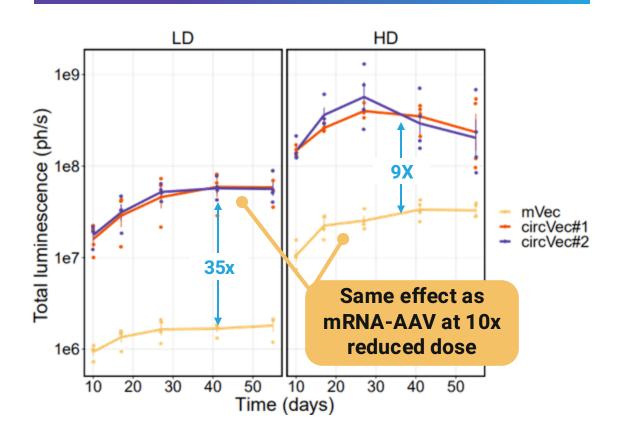


Early data shows 10-fold increased potency for heart-specific circVec-AAV

AAV circVec, <u>heart</u> **specific** – two AAV designs Quantification of signal (luminescence), high dose

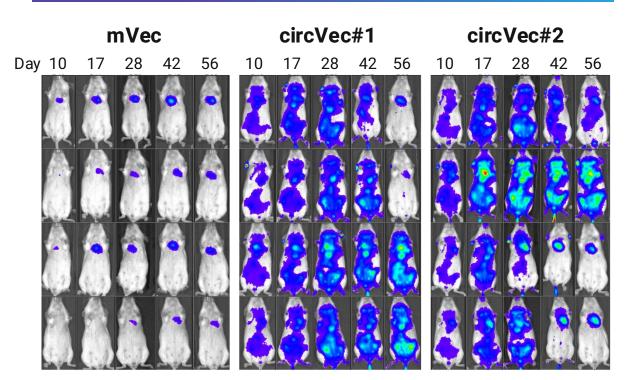


AAV-circVec, <u>heart</u> **specific** – two AAV designs Quantification of signal, high/low dose comparison

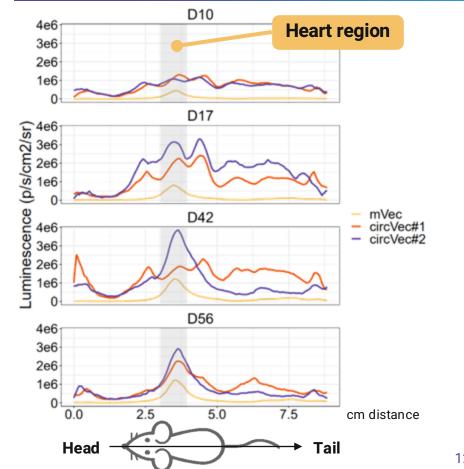


Early data shows 10-fold increased potency for circVec-AAV: peak signal from heart region

AAV circVec, <u>heart</u> **specific** – two AAV designs Quantification of signal (luminescence), high dose

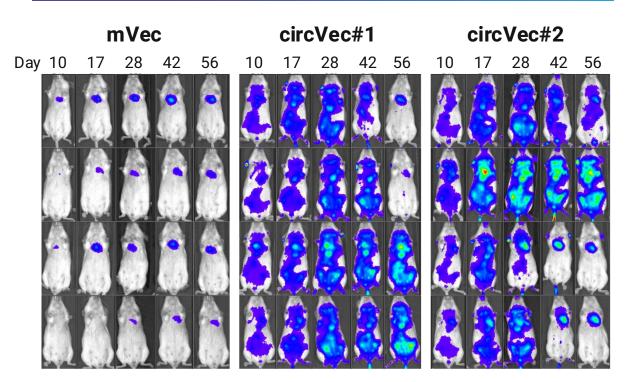


AAV circVec, <u>heart</u> specific Vertical signal profile from head to tail

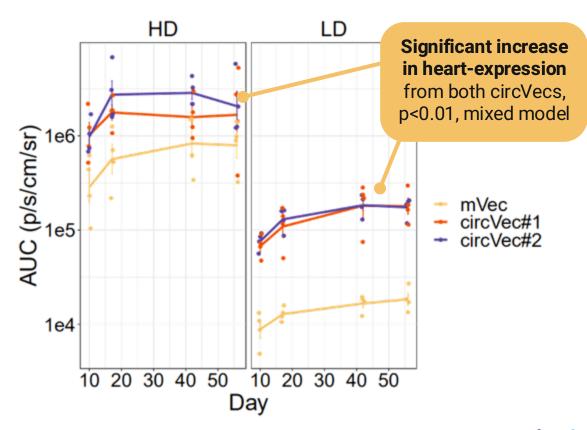


Early data shows 10-fold increased potency for circVec-AAV: significant signal increase in heart vs. mVec

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



AAV circVec, <u>heart</u> specific Total signal (luminescence), heart region



Summary and next steps: circVec AAV

Current status	 circVec validated in AAV format, multiple designs tested Identified tissue-specific circVec AAV expression profile 10-fold increased potency vs. mRNA for heart-specific AAV
	Further exploration and enhancement of tissue-specific circVec performance using AAV vectors
Next steps	 Development and testing of AAV-circVec for treatment of muscular dystrophies and cardiomyopathies in relevant mouse disease models
Business Development	 Establish research collaborations with AAV specialist companies in tissue / target specific setting External testing and validation of circVec-AAV advantage

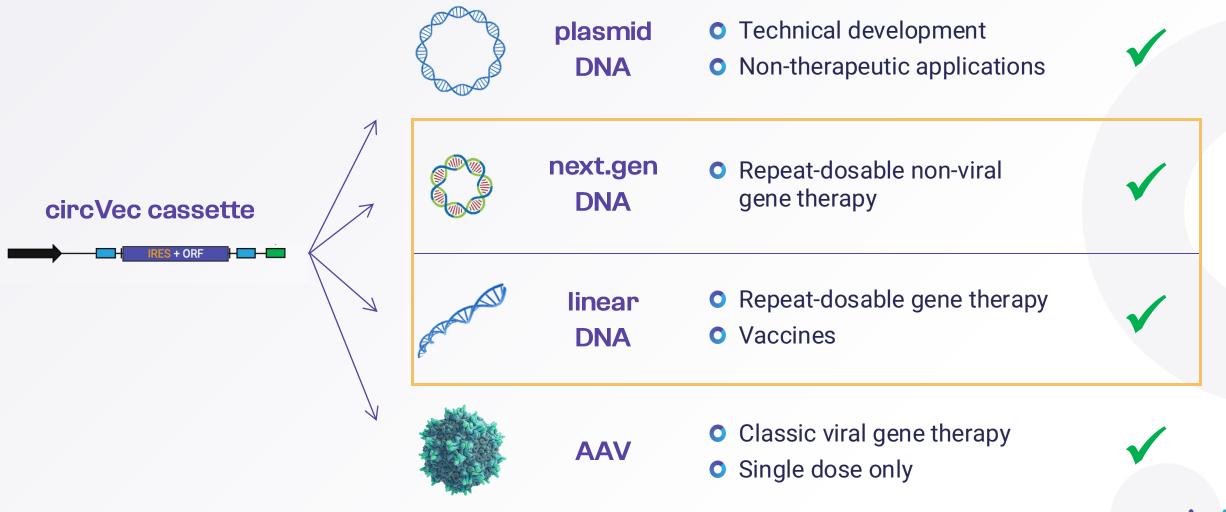


R&D: circVec DNA

3. Corporate update

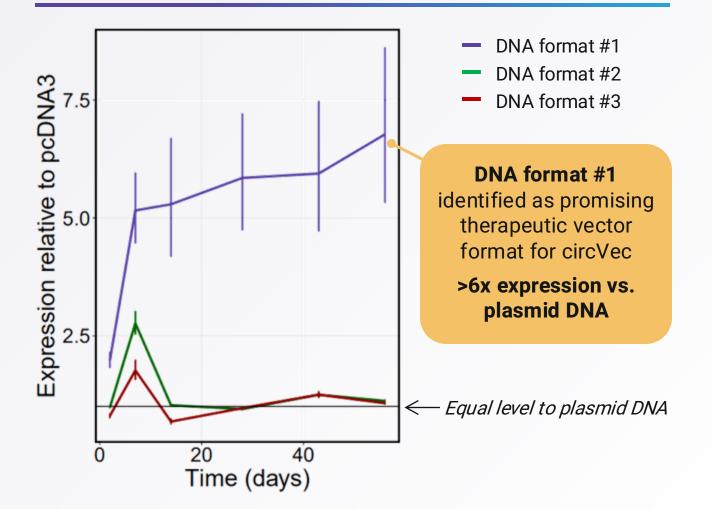


Testing and validation of circVec in therapeutic vectors



Optimal format for therapeutic DNA vectors identified for continued development

DNA vector expression relative to plasmid DNA Quantification of in vivo signal, time course



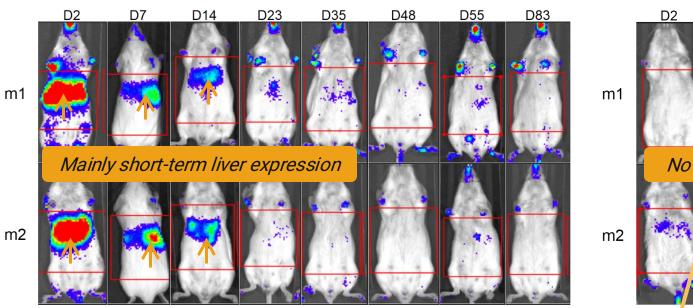
DNA format gene & cell therapy

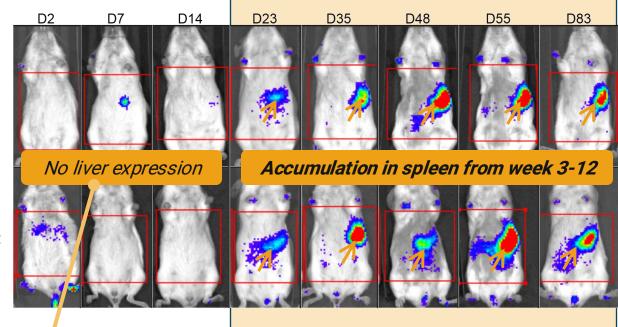
- Reduced cost vs. current approaches
- Repeat-dosable
- Larger payload capacity than AAV
- Longer expression than RNA
- Considered the future format for gene and cell therapy
- Substantial efforts ongoing to establish enhanced vectors and delivery systems
- Technologies to target and extend expression are highly sought after

LNP-circVec expressing selectively in spleen, unique opportunity for in vivo cell therapy

LNP-mVec (mRNA), luminescence Systemic I.V. delivery, single dose on Day 0

LNP-circVec (circRNA), luminescence Systemic I.V. delivery, single dose on Day 0







LNP collaboration partner

circVec de-targets liver expression

Summary and next steps: circVec DNA

Current status	 Novel therapeutically relevant DNA format identified circVec LNP-delivery to spleen confirmed 			
	Analysis of circVec spleen delivery at cellular level			
Next steps	Testing new DNA format in advanced and targeted LNP formulations and non-LNP delivery systems			
	 Establish platform for durable circVec in vivo CAR approach using circVec DNA + spleen delivery system 			
Business Development	 Several ongoing collaborations with innovative DNA delivery companies: Certest, Entos, 4BB and others Seeking collaboration partners for in vivo cell therapy 			

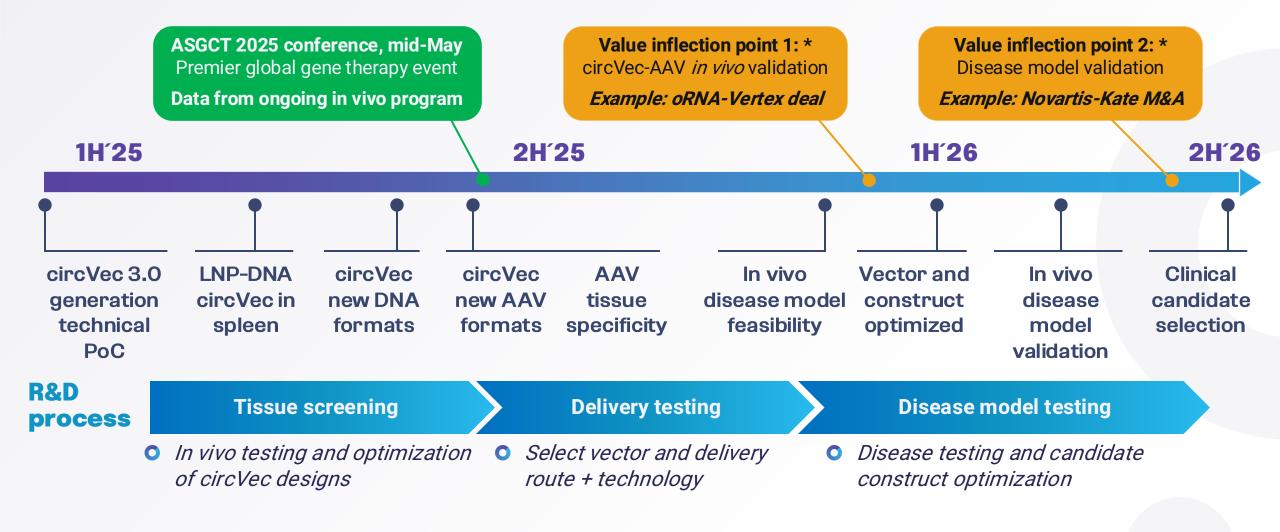
Corporate update



circVec summary – next milestones and BD activities

		Next milestone		BD activities	
	AAV gene	Validate heart dataTest additional tissues	0	Establish collaborations with AAV companies	
	therapy	• Testing in disease models	0	External circVec AAV testing	
	DNA cell	• Replicate findings w/new format	0	Establish collaborations with	
	therapy	o circVec CAR expression		in vivo CAR companies	
		• Ex vivo T cell experiments	0	External circVec DNA testing	
	DNA	• Test additional LNP formulations	0	Several ongoing collaborations	
–≡ ≫⊳β	delivery	O Test other delivery systems	0	Certest, Entos, 4BB + others,	
		• Validate w/new DNA format		data during 2H´2025	

Upcoming milestones and timelines: rich pipeline of R&D milestones with multiple shots on goal



* Expected data package necessary to drive interest to initiate partnering discussions and negotiations

Data & Timeline: current best estimates - experiments have uncertain outcomes and may need to be repeated, impacting plans and timelines

AGM notice – main items

	Reverse split & capital reduction	 The Board selected to withdraw the proposals after careful consideration of the current situation Evaluating alternatives to manage OSE share price rule
	Share issue mandate	 Proposed 40% level enables more flexibility for fundraising in tough market conditions Higher likelihood to attract new and international investors
	RSU and option mandate	 RSU/option program important compensation component Aligns shareholder and employee long-term goals Reduces cash expenditure for the company

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Q&A Session