



# Atrium Therapeutics

February 2026

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# Forward Looking Statements

**FORWARD LOOKING STATEMENTS AND OTHER INFORMATION:** Certain statements in this Presentation may constitute “forward-looking statements” for purposes of the federal securities laws. Our forward-looking statements include, but are not limited to, statements regarding our future results of operations and financial position, business strategies and plans, the planned completion and timing of the proposed acquisition of Avidity Biosciences, Inc. (“Avidity”) by Novartis AG and Avidity’s related spin-off of the Company, research and development plans, the anticipated timing, costs, design and conduct of our ongoing and planned preclinical studies and clinical trials for our product candidates, the timing and likelihood of regulatory filings and approvals for our product candidates, the timing and likelihood of success, plans and objectives of management for future operations and future results of anticipated product development efforts, and inflationary pressures on our business, are forward-looking statements. The forward-looking statements contained in this Presentation are based on our current expectations and beliefs concerning future developments and their potential effects on us. There can be no assurance that future developments affecting us will be those that we have anticipated. There can be no guarantee that the conditions to the closing of the Transactions will be satisfied on the expected timetable or at all or that the expected benefits or synergies from the Transactions will be achieved in the expected timeframe, or at all. These forward-looking statements involve a number of risks, uncertainties (some of which are beyond our control) or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements including, but not limited to: the initiation, timing, progress, potential registrational quality, and results of our research and development programs, preclinical studies, any clinical trials, Investigational New Drug Application, and other regulatory submissions; the beneficial characteristics, including potential safety, efficacy and therapeutic effects of our product candidates and the potential advantages of our product candidates compared to alternative therapies; the success and capabilities of the RNA delivery platform; the prevalence of certain diseases and conditions we intend to treat and our estimates of the potential market opportunity for our product candidates; the number of patients that we will enroll in our clinical trials; the timing of and costs involved in obtaining and maintaining regulatory approval of our current product candidates and any future product candidates that we may identify or develop; our ability to meet future regulatory standards with respect to our product candidates, if approved; our plans relating to the further development and manufacturing of our product candidates, including for additional indications that we may pursue; the rate and degree of market acceptance and therapeutic benefits of our product candidates, if approved; our ability to develop or partner and progress our current and future product candidates; the implementation of our strategic plans for our business, product candidates, research programs and technologies; the scope of protection we are able to establish and maintain for intellectual property rights covering our product candidates; anticipated developments related to our competitors and our industry; our competitive position and the success of competing therapies that are or may become available; our ability to maintain our current license agreements and collaborations and identify and enter into future license agreements and collaborations; the expected potential benefits of strategic collaborations with third parties and our ability to attract collaborators with development, regulatory, manufacturing or commercialization expertise; our reliance on third parties to conduct preclinical studies and clinical trials of our product candidates; our ability to efficiently and cost-effectively conduct our current and future clinical trials; our reliance on third parties for the manufacture of our product candidates; our plans relating to sales strategy, manufacturing and commercializing our product candidates, if approved; anticipated regulatory developments in the United States and foreign countries in which we may seek regulatory approval for our product candidates in the future; the timing and likelihood of the achievement of milestones pursuant to our existing collaboration agreements; our ability to attract and retain key scientific and management personnel; the costs of operating as a public company; the accuracy of our estimates regarding future expenses, future revenue, capital requirements and the need for additional financing; the period over which we estimate our existing cash and cash equivalents will be sufficient to fund our future operating expenses and capital expenditure requirements; our ability to obtain funding for our operations necessary to complete further development and commercialization of our current and future product candidates; our anticipated use of our existing resources, estimates of our expenses, capital requirements and needs for additional financing; and other factors specified in the Company’s Registration Statement on Form 10, initially publicly filed by the Company with the Securities and Exchange Commission (the “SEC”) on December 10, 2025 and in other filings and furnishings made by the Company with the SEC from time to time. Should one or more of these risks or uncertainties materialize, or should any of our assumptions prove incorrect, actual results may vary in material respects from those projected in these forward-looking statements. We undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required under applicable securities laws. The Company is currently a wholly owned subsidiary of Avidity and the description of its business contained in this Presentation assumes that the Transactions have been consummated.

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## ***Our vision:***

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***To pioneer precision RNA medicines for the heart and profoundly improve the lives of people impacted by cardiac diseases***



## Unlocking precision cardiology for genetically driven cardiomyopathies

### Targeted RNA Delivery Platform

Designed at Avidity  
Biosciences

### Focused Pipeline

Two lead programs  
(PRKAG2 & PLN) with  
near term catalysts

### Clear Medical Need

Limited targeted  
therapies in genetic  
cardiomyopathies<sup>1</sup>

<sup>1</sup>Aro, A. et al, "Population Burden of Sudden Death Associated With Hypertrophic Cardiomyopathy" *Circulation* vol 136 (2017)

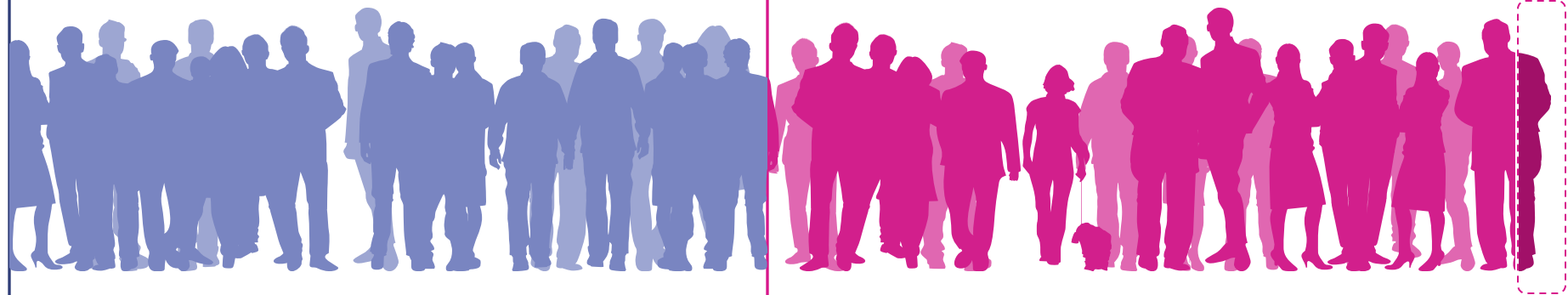
# Millions of people with genetic cardiomyopathies lack disease-modifying treatments

**~2 Million**  
diagnosed in the US<sup>1</sup>

**50%**

have underlying genetic driver of disease<sup>2,3</sup>

Most managed through symptom control<sup>4</sup>



**Opportunity for RNA-based precision therapies**

<sup>1</sup> Kramer, C. et al, "Hypertrophic Cardiomyopathy Registry: The rationale and design of an international, observational study of hypertrophic cardiomyopathy." Am Heart J. 2015 Aug;170(2):223-30 and Ababio, Yaa et al, "Prevalence and Clinical Burden of Idiopathic Dilated Cardiomyopathy in the United States". Am J of Medicine Open Volume 10, 2023.

<sup>2</sup> Ho, C.Y. "Genotype and lifetime burden of disease in hypertrophic cardiomyopathy"

<sup>3</sup> Cheng, Z., et al, "Hypertrophic Cardiomyopathy: From Phenotype and Pathogenesis to Treatment". Frontiers in Cardiovascular Medicine vol. 8 (2021). DOI=10.3389/fcvm.2021.722340

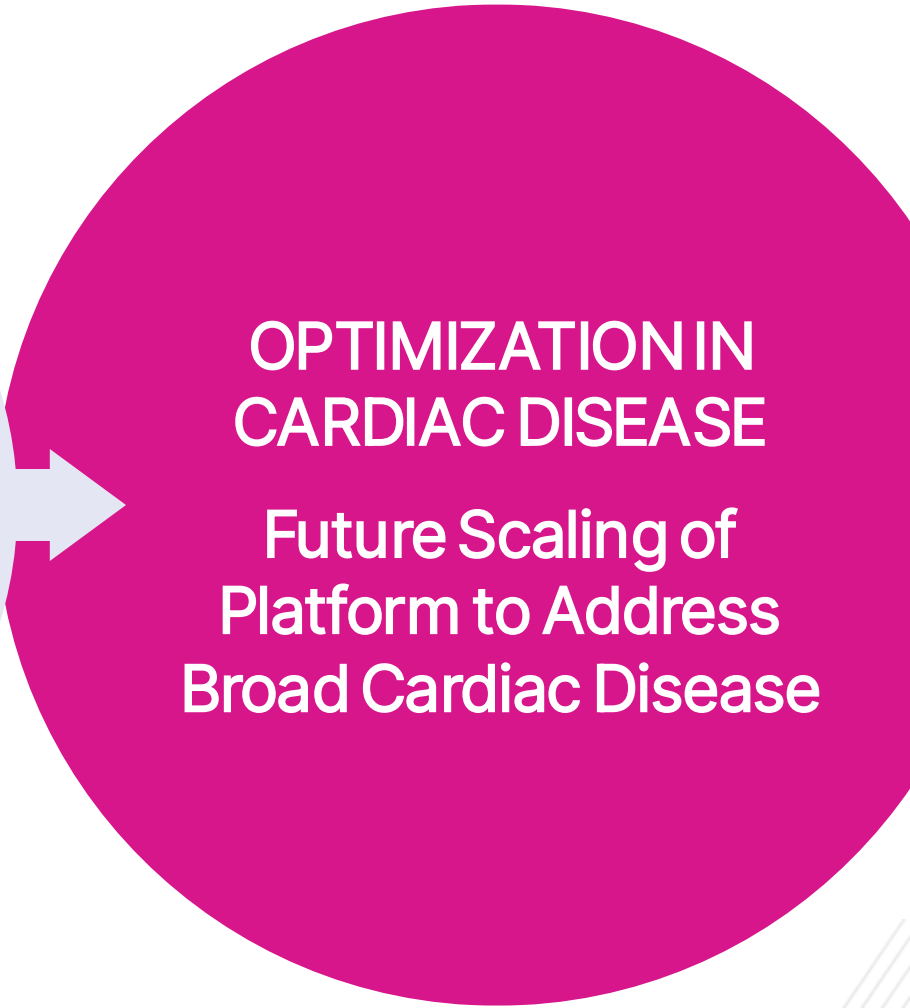
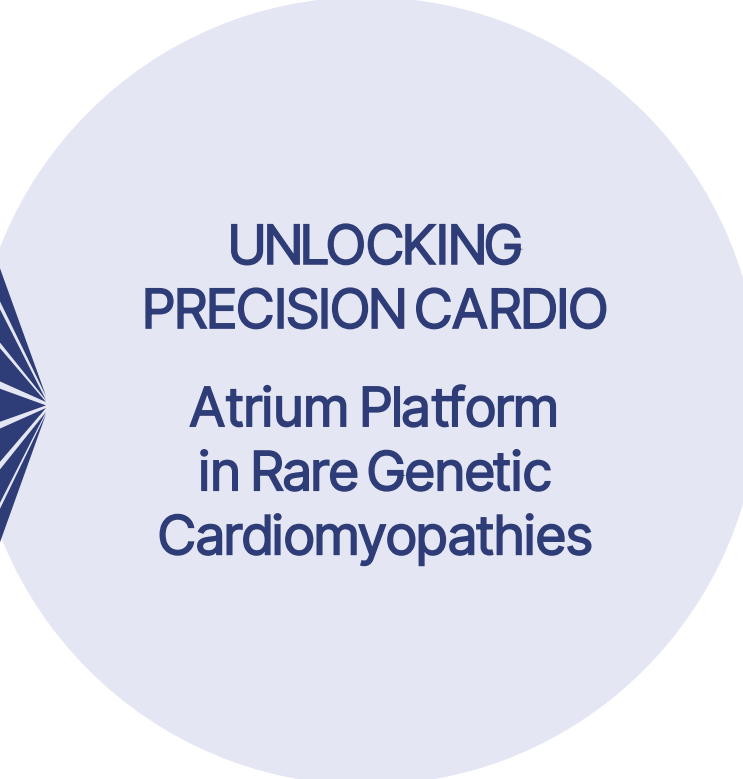
<sup>4</sup> Hutt, E, et al, "Medical Treatment Strategies for Hypertrophic Cardiomyopathy." American Journal of Cardiology vol 212, S33 -41

<sup>5</sup> Aro, A. et al, "Population Burden of Sudden Death Associated With Hypertrophic Cardiomyopathy". Circulation vol 136 (2017)

# Genetic cardiomyopathy is at an inflection point<sup>1,2</sup> and primed for precision therapies

Science & Technology Convergence:

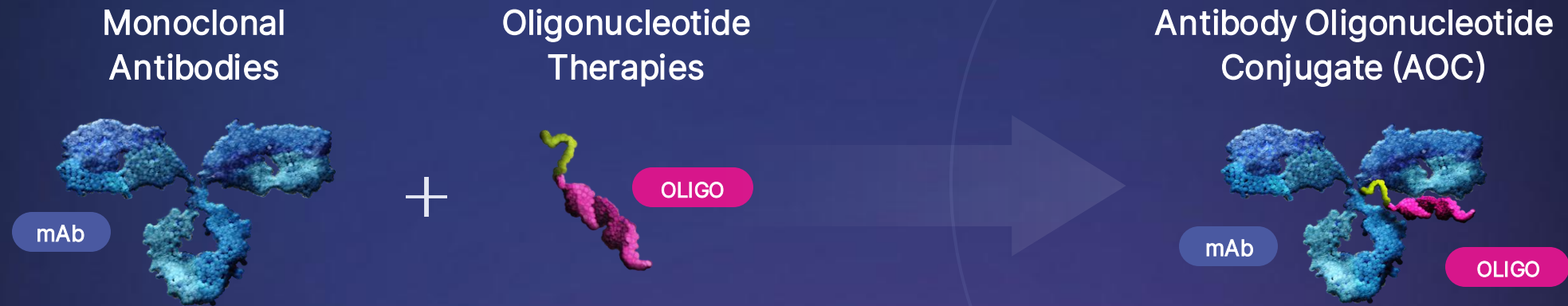
- Precise clinical development
- Rapid disease growth
- Genetic testing adoption
- RNA therapies
- Novel regulatory approaches
- Increasing target validation
- RWE and registry data



<sup>1</sup> Javad, S, and Halliday, B. "Precision therapy in dilated cardiomyopathy: Pipedream or paradigm shift?." *Cambridge prisms. Precision medicine* vol. 1 e34. 20 Nov. 2023, doi:10.1017/pcm.2023.24

<sup>2</sup> Nomuro, S, Ono M. "Precision and genomic medicine for dilated and hypertrophic cardiomyopathy". *Frontiers in Cardiovascular Medicine* vol 10 (2023) DOI=10.3389/fcvm.2023.1137498

# A precision RNA platform primed for genetic cardiomyopathies



## Targeted Delivery

- ✓ RNA delivery technology designed to efficiently reach heart tissue
- ✓ Built on technology developed at Avidity

## Genetic Precision

- ✓ Designed to directly target pathogenic RNA
- ✓ Potential to modify disease progression

## Scalable Platform

- ✓ AOCs applicable across multiple genetically-defined cardiomyopathies
- ✓ Efficient expansion potential to additional indications

# Robust pipeline supported by strong capital position

PROGRAM/INDICATION	TARGET	RESEARCH	IND-ENABLING	CLINICAL			ANTICIPATED UPCOMING MILESTONES
				PHASE 1	PHASE 2	PHASE 3	
PRKAG2 syndrome	PRKAG2	ATR 1072					IND filing in 2H '26
PLN cardiomyopathy	PLN	ATR 1086					IND filing in 2027

**\$270M**

Cash and cash equivalents<sup>1</sup>

**Strong  
balance sheet**

runway through clinical proof-of-concept

**\$1.5B**

potential R&D milestone payments from existing collaborations with BMS and LLY<sup>2</sup>

<sup>1</sup> Reflects amount of cash to be contributed to the Company by Avidity Biosciences in connection with the Separation and Distribution

<sup>2</sup> Receipt of such milestone payments are subject to the terms and conditions of the collaboration agreements with BMS and LLY, respectively, which will be assigned to the Company in connection with the Separation and Distribution

**ATR1072**

PRKAG2 Syndrome



# PRKAG2 Syndrome

A rare, progressive disease that can lead to sudden cardiac death

- Autosomal dominant disease caused by gene mutations in PRKAG2 that leads to AMPK overactivity resulting in glycogen accumulation in heart muscle
- Contributes to cardiomyopathy due to thickened heart muscles, electrical conduction problems and arrhythmias
- Causes heart failure and sudden cardiac death
- Current treatment limited to symptom management for arrhythmias and myocardial hypertrophy
- No therapy targeting root cause of disease
- Typically emerges during adolescence and early adulthood<sup>1</sup>

0

Approved  
therapies

1,000-2,000

People with PRKAG2  
in the U.S.<sup>2</sup>

Up to 100%

of people inheriting the mutation  
will develop symptoms<sup>3</sup>

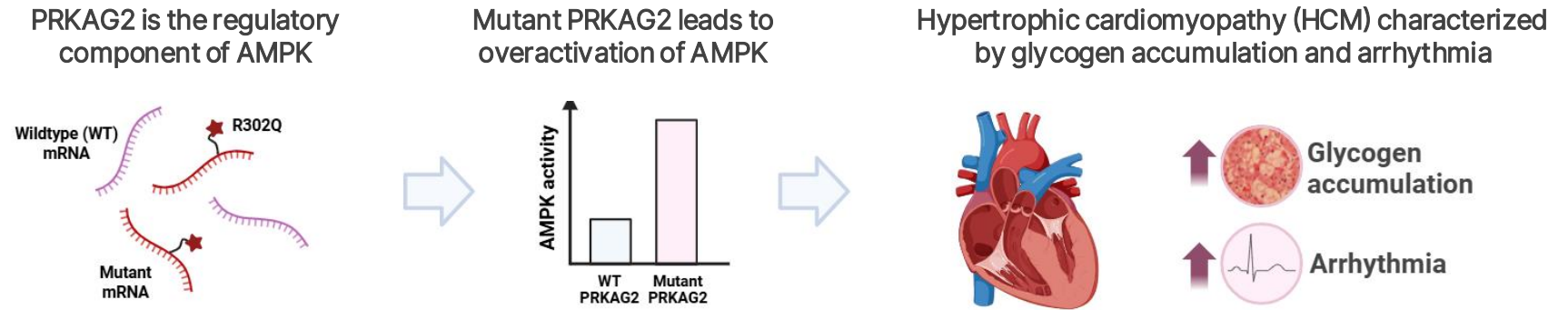
<sup>1</sup> van der Steid, L et al. "PRKAG2 syndrome, a rare hypertrophic cardiomyopathy: a Brazilian long-term follow-up with extracardiac disorders." *Einstein (Sao Paulo, Brazil)* vol. 22 eAO0549. 26 Jul. 2024, doi:10.31744/einstein\_journal/2024AO0549

<sup>2</sup> Murphy, R, et al. "Adenosine Monophosphate-Activated Protein Kinase Disease Mimicks Hypertrophic Cardiomyopathy and Wolff-Parkinson-White Syndrome." *Journal of the American College of Cardiology* vol 45 (2005). doi:10.1016/j.jacc.2004.11.053

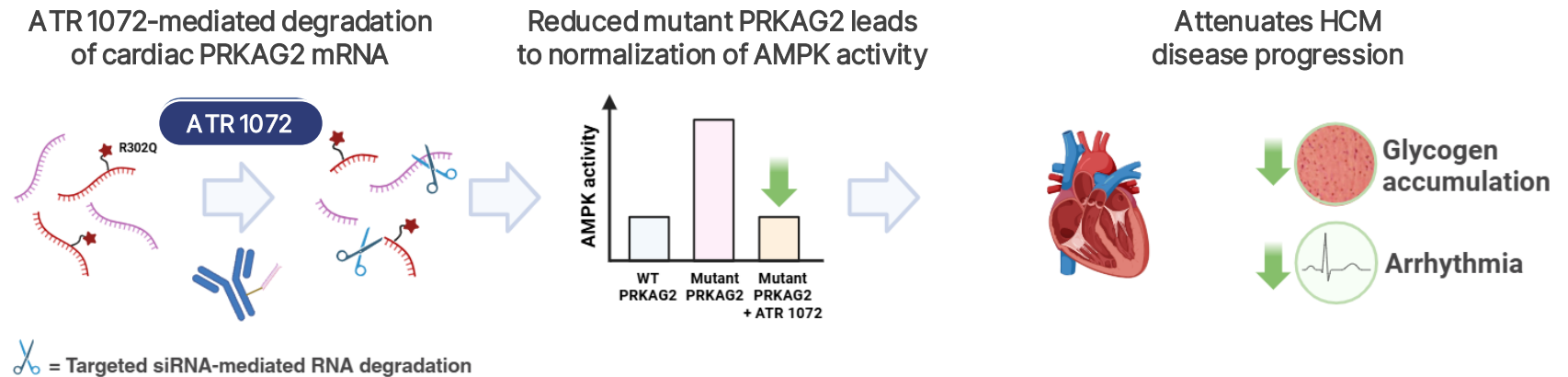
<sup>3</sup> Porto, A, et al. "Clinical Spectrum of PRKAG2 Syndrome." *Circ Arrhythm Electrophysiol.* Jan 2016.

# ATR 1072 designed to silence mutant PRKAG2 to normalize AMPK activity

## Mechanism of Disease

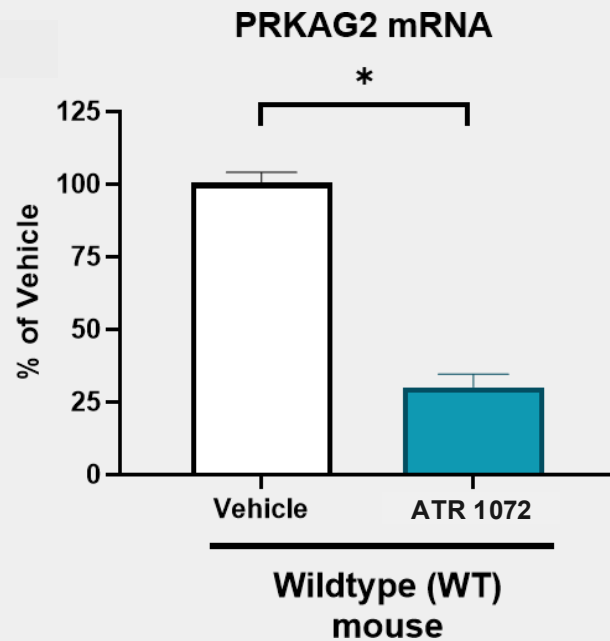


## Therapeutic Approach

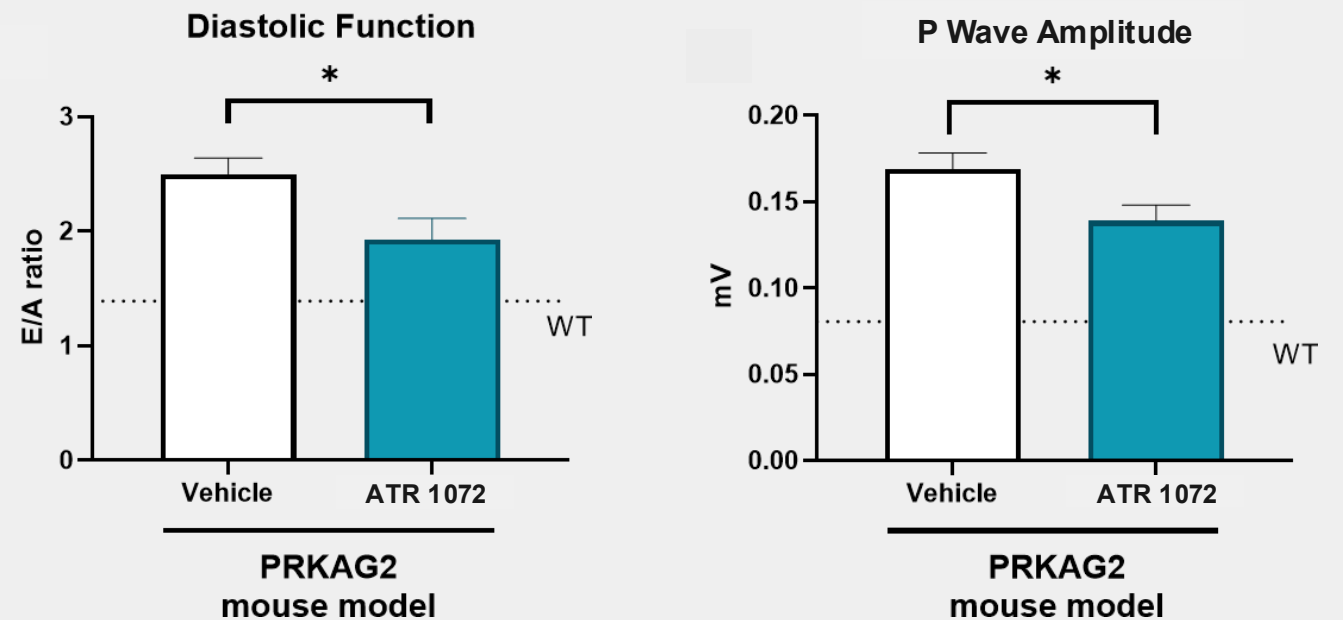


# ATR 1072 normalizes key cardiac functional measures in pre-clinical studies<sup>1</sup>

Reduction of PRKAG2 at Day 28 following single dose of ATR 1072 (3mg/kg)



Improvements in Cardiac Relaxation and Atrial Signaling at 24 weeks following 3 doses of ATR 1072 (3 mg/kg, q12w)



E/A ratio: Ratio of the E wave peak velocity to the A wave peak velocity. Data are presented as mean  $\pm$  SEM. Student's t-test. \* p < 0.05.

<sup>1</sup> Based on preclinical studies conducted by Avidity

# ATR 1072: Clear path to clinical proof-of-concept

## Achievements

- Pre-clinical proof-of-concept
- GMP manufacturing
- Successful pre-IND meeting

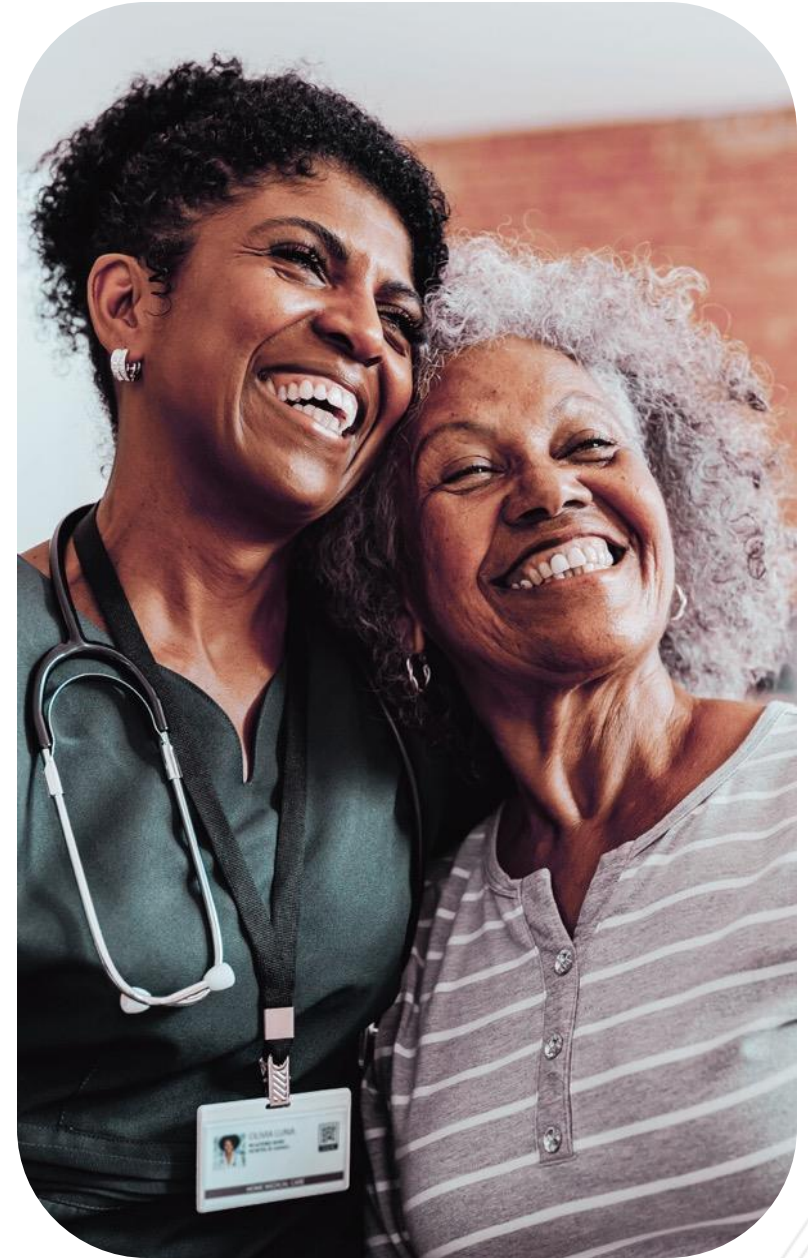
## Upcoming Milestones

- Complete IND-enabling studies
- IND filing planned 2H 2026
- Phase 1 trial study initiation<sup>1</sup>
- Phase 1 proof-of-concept in PRKAG2 syndrome

<sup>1</sup> Subject to successful completion of IND filing and regulatory clearances

# ATR 1086

PLN Cardiomyopathy



# PLN Cardiomyopathy

Is a rare progressive disease with frequent family history

- PLN-R14del is the most common disease-relevant PLN mutation
- Mutant PLN-R14del forms aggregates and impairs cardiomyocyte function
- Characterized by dilated, arrhythmogenic or hypertrophic cardiomyopathy
- Notable for frequent family history of premature sudden cardiac death and progressive cardiac failure
- High incidence of sudden cardiac death, ventricular arrhythmias and cardiac transplantation
- Current treatment focuses on symptom management<sup>1</sup>
- No therapy to target root cause of disease

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Approved  
therapies

2,000-4,000

People with pathogenic PLN  
variants in the U.S.<sup>2</sup>

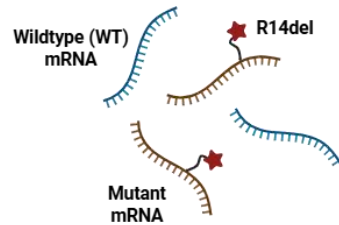
<sup>1</sup>Vafiadaki E, et al. "Phospholamban R14del disease: The past, the present and the future." *Frontiers in Cardiovascular Medicine* vol 10 (2023). doi:10.3389/fcvm.2023.1162205

<sup>2</sup> Internal sources based on discussions with genetic testing providers

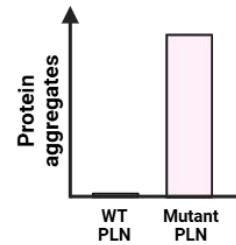
# ATR 1086: Designed to silence mutant PLN to prevent protein aggregates and target root cause of disease<sup>1</sup>

## Mechanism of Disease

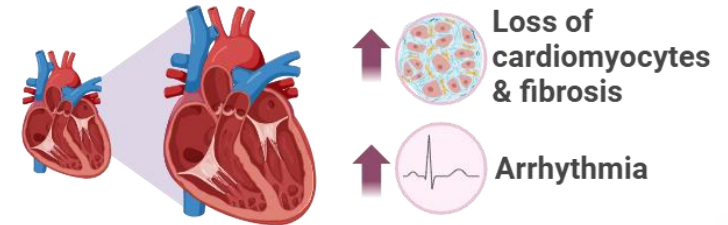
Phospholamban (PLN) regulates Ca<sup>2+</sup> handling in cardiomyocytes



R14del mutation on PLN causes PLN to form protein aggregates

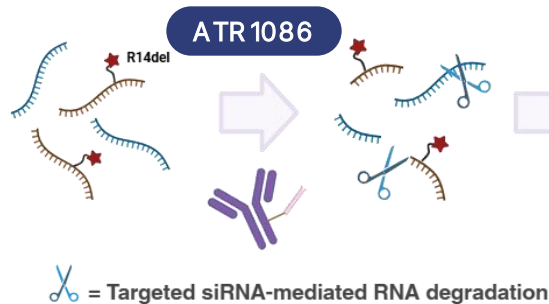


Dilated and Arrhythmogenic cardiomyopathy (DCM & ACM)

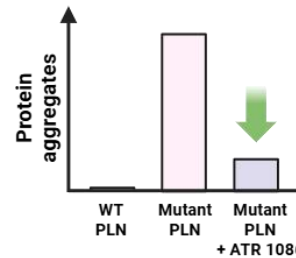


## Therapeutic Approach

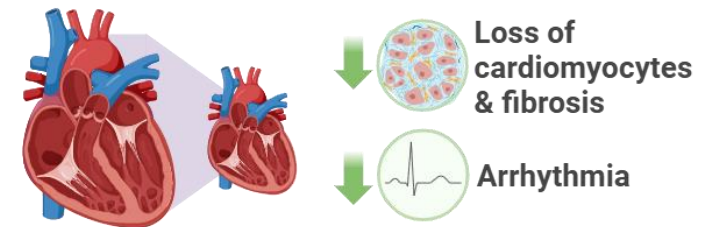
ATR 1086 mediated degradation of cardiac PLN mRNA



Reduced mutant PLN prevents protein aggregate formation



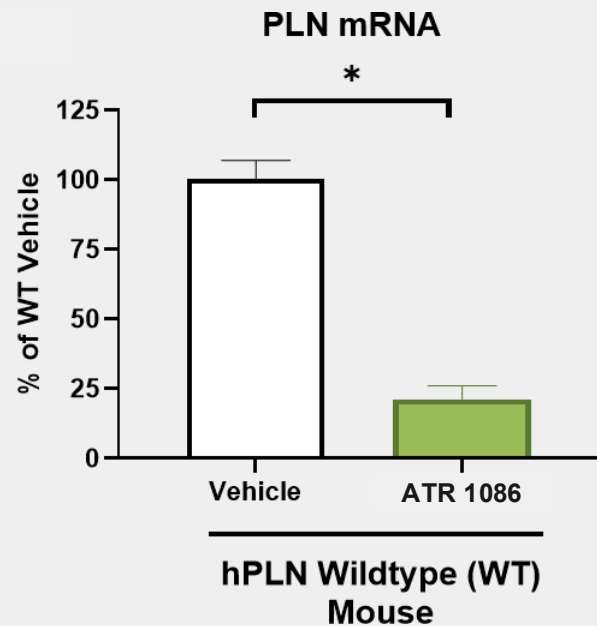
Attenuates DCM & ACM disease progression



<sup>1</sup>Based on preclinical studies conducted by Avidity

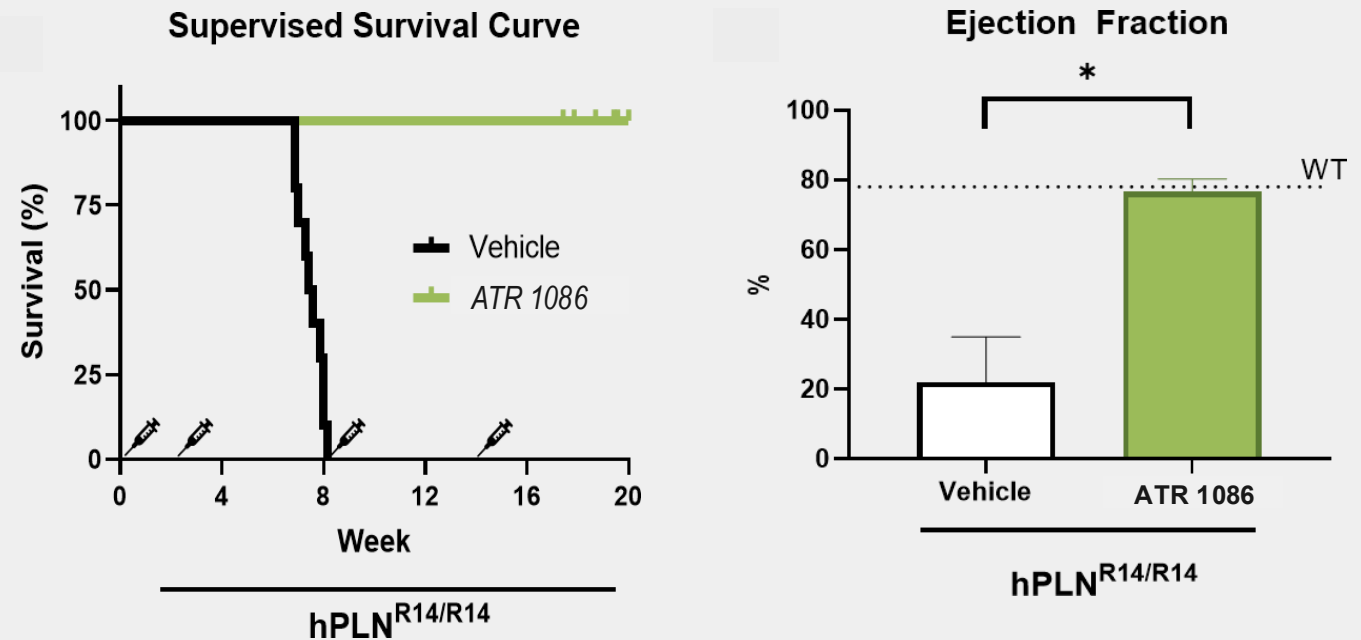
# ATR 1086 demonstrates functional improvement and survival in preclinical model of disease<sup>1</sup>

Reduction of human PLN expression in the heart following treatment with ATR 1086 (6 mg/kg)



PLN mRNA levels were measured in cardiac tissue in transgenic mice expressing hPLN WT.

Improved survival (Kaplan-Meier survival curve) and ejection fraction following repeated ATR 1086 treatment (6 mg/kg) in a humanized mouse model of hPLN<sup>R14/R14</sup>



Ejection fraction measured at 6-weeks of treatment. Dotted lines indicate WT levels. Data are presented as mean ± SEM. Student's t-test, \* p < 0.05.

<sup>1</sup>Based on preclinical studies conducted by Avidity

# ATR 1086: Building clinical-stage pipeline

## Achievements

- Identified ATR 1086 as lead candidate
- Pre-clinical proof-of-concept
- GMP manufacturing

## Upcoming Milestones

- IND-enabling studies planned to initiate in 2026
- Anticipate IND filing in 2027

# Leadership team expertise in rare disease and RNA



**Kath Gallagher** | *Chief Executive Officer and Board Member*

20+ years in the biopharmaceutical industry leading portfolio strategy, program management, investor relations, and corporate affairs in preclinical to commercial stage companies

*AVIDITY, AKCEA, MERRIMACK PHARMA*



**Rocio Martin** | *Chief Strategy Officer*

20+ years in various senior strategy, management and commercial roles in clinical and commercial organizations

*AVIDITY, KRONOS, AUDENTES, ULTRAGENYX, CELGENE*



**Steve Hughes, MD** | *Chief Medical Officer*

25+ years in biopharmaceutical industry contributing to 50+ clinical trials and multiple product filings and launches in rare disease, cardiovascular and neurology therapy areas

*AVIDITY, IONIS, BIOGEN, CSL BEHRING, SANOFI*



**Brendan Winslow** | *Chief Financial Officer*

15+ years financial leadership experience in biotech and diversified healthcare, including global operations, commercialization, and strategic transformations

*AVIDITY, ACADIA, BAXTER*



**Stephanie Kenney** | *Chief Corporate Affairs Officer*

25+ years in biopharmaceutical industry leading corporate affairs, investor relations and marketing at preclinical to commercial stage companies in autoimmune, cardiovascular and renal therapy areas

*AVIDITY, HANSA, ASTRAZENECA*



**Husam Younis, PhD, PharmD** | *Chief Scientific Officer*

20+ years in drug discovery and development, including rare disease, and SVP of development science at Avidity

*AVIDITY, NGM, IONIS, PFIZER*

## Atrium Board Members<sup>1</sup>

**Sarah Boyce (Chair)**



**Carsten Boess**



**W. Michael Flanagan, Ph.D.**



**Kath Gallagher**



**Simona Skerjenac**



**Troy Wilson**





**Leverage proprietary RNA delivery platform for precision cardiology**

**Focused pipeline with growth potential**

**Strong balance sheet and experienced leadership**

# IR Contact

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