



Theresa Heggie October 17, 2019

# **The Alnylam Epic Journey**





### **Alnylam Journey is a Three-Act Play**

Based on Nobel-Prize winning science, focused on rare genetic diseases, invested and investing in Europe

Extra copies of same gene = Cosuppression

Alnylam was founded in 2002 with a vision to turn RNA interference (RNAi), a Nobel-Prize winning discovery, into a new class of medicines

Among RNAi's broad potential, Alnylam has made the deliberate, scientifically guided choice of focusing on diseases where the unmet medical need is high, primarily rare genetic diseases

Alnylam continues to invest in Europe and around the world through clinical research, job creation and partnerships with the health community to improve patients' lives

1. Science

2. Innovation

3. Impact



# Alnylam Today: the Leader in RNAi Therapeutics

#### ~25 sites in 18 countries

- Includes: US, Switzerland, UK, France, Portugal, Spain, Germany, Austria, Italy, Benelux, Japan, Brazil, Canada
- >1200 employees

#### Global commercial company

- ONPATTRO for hATTR amyloidosis w/ polyneuropathy
- Approved in U.S., EU, Japan, Canada, Switzerland

#### Robust product portfolio

- Focus on 4 Strategic Therapeutic Areas (STArs)
  - Genetic Medicines, Cardio-Metabolic Disease, Hepatic Infectious Disease, and CNS/Ocular Disease
- 10 Programs in clinical development
  - 1 in Phase 4, 1 in Registration, 4 in Phase 3

### Leaders in RNAi technology

Design, synthesis, characterization, and delivery

### **Leading IP estate**

Robust fundamental, delivery and product-specific patent protection

#### Industry-leading partnerships and collaborations

>12 major partnerships with Pharma/Biotech

#### Well-capitalized and strong balance sheet

- Raised ~\$5.3B, invested ~\$3B since inception
- ~\$8B market cap; Q2'19 cash ~\$2B

#### Vision:

Harnessing a revolution in biology for human health®





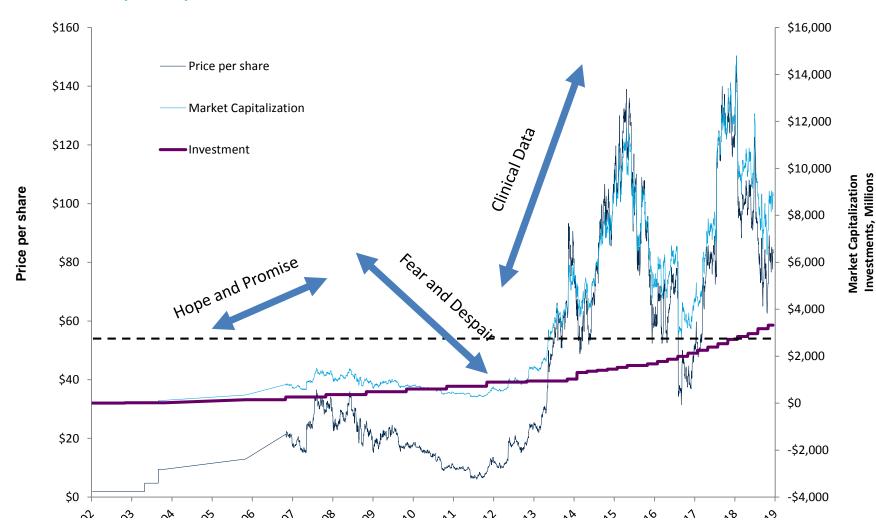
#### Mission:

Build a top-tier, independent biopharmaceutical company founded on RNAi

### **ALNY Value Since Inception**

### **ALNY Value Since Inception**

PPS / Market Cap / Enterprise Value / Investment



# The first RNAi therapeutic is APPROVED IN U.S., EU, CANADA & JAPAN and SWITZERLAND

















# **Supporting ONPATTRO® Success Globally**

Alnylam Commitment to Medical and Commercial Excellence





# Alnylam: Building a Biotech Leader

### Global commercial-stage biotech with emerging self-sustainability

- Address patient unmet needs around world
- Transitioning toward profitability over next 3-5 years

### Deep clinical pipeline of transformative medicines to fuel robust growth

- Rich pipeline with large number of late-stage programs
- · Essentially annual product launches for foreseeable future

### Product engine to fuel organic and sustainable innovation for future

- Reproducible and modular approach for discovery
- Leadership in advancing a whole new class of medicines

### **Culture and team in place for long-term success**

- · Industry leadership and recognition
- Commitment to patients and excellence

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## **Alnylam Clinical Development Pipeline**

Focused in 4 Strategic Therapeutic Areas (STArs):								
Genetic Medicines	Cardio-Metabolic Diseas	ses						
Hepatic Infectious Diseas	ses CNS/Ocular Diseases		UMAN POC <sup>1</sup>	BREAKTHROUGH DESIGNATION	EARLY STAGE (IND or CTA Filed-Phase 2)	LATE STAGE (Phase 2-Phase 4)	REGISTRATION/ COMMERCIAL <sup>3</sup>	COMMERCIAL RIGHTS
onpattro (patisiran) lei medari rection	hATTR Amyloidosis²		<b>V</b>	× ×			•	Global
Givosiran	Acute Hepatic Porphyria		<b>*</b>	×			•	Global
Patisiran	ATTR Amyloidosis Label Expansion			<b>T</b> A 141	0" ' 15			Global
Fitusiran	Hemophilia and Rare Bleeding Disorders	3 STArs with Clinical Programs						15-30% royalties
Inclisiran	Hypercholesterolemia	<ul><li>1 Marketed Product</li><li>10 Clinical Programs</li></ul>						Milestones & up to 20% royalties
Lumasiran	Primary Hyperoxaluria Type 1							Global
Vutrisiran	ATTR Amyloidosis	<ul> <li>5 Late-Stage Programs</li> <li>3 Breakthrough Designations</li> <li>Substantial Global Rights</li> </ul>						Global
Cemdisiran	Complement-Mediated Diseases							50-50
Cemdisiran/Pozelimab Combo <sup>4</sup>	Complement-Mediated Diseases							Milestone/Royalty
ALN-AAT02	Alpha-1 Liver Disease							Global
<b>ALN-HBV02</b> (VIR-2218)	Hepatitis B Virus Infection				•			50-50 option rights post-Phase 2
ALN-AGT	Hypertension				•			Global

<sup>1</sup> POC, proof of concept – defined as having demonstrated target gene knockdown and/or additional evidence of activity in clinical studies



<sup>&</sup>lt;sup>2</sup> Approved in the U.S. and Canada for the polyneuropathy of hATTR amyloidosis in adults, in the EU for the treatment of hATTR amyloidosis in adults with stage 1 or stage 2 polyneuropathy, and in Japan for the treatment of transthyretin (TTR) type familial amyloidosis with polyneuropathy <sup>3</sup> Includes marketing application submissions

<sup>&</sup>lt;sup>4</sup> Cemdisiran is currently in Phase 2 development and pozelimab is currently in Phase 1 development; Alnylam and Regeneron are evaluating potential combinations of these two investigational therapeutics As of September 2019

### Reflections on our 16-year Journey

- Founded on and stayed committed to a BOLD Vision and Mission
- Committed to scientific and business EXCELLENCE in everything we've done
- Pioneered new frontiers of medicine advancing a WHOLE NEW DRUG CLASS
- Took major RISKS and conquered key technology HURDLES
- Clear partnership principles that bring COMPLIMENTARY CAPABILITIES
- GREAT people and "CHALLENGE ACCEPTED" culture were key success factors
- Pursued BREADTH of opportunity, but FOCUSED when needed
- Great at THINKING LONG-TERM; making decisions not just for today but how to grow from a product perspective and geographically
- Always kept **PATIENTS** front and center





