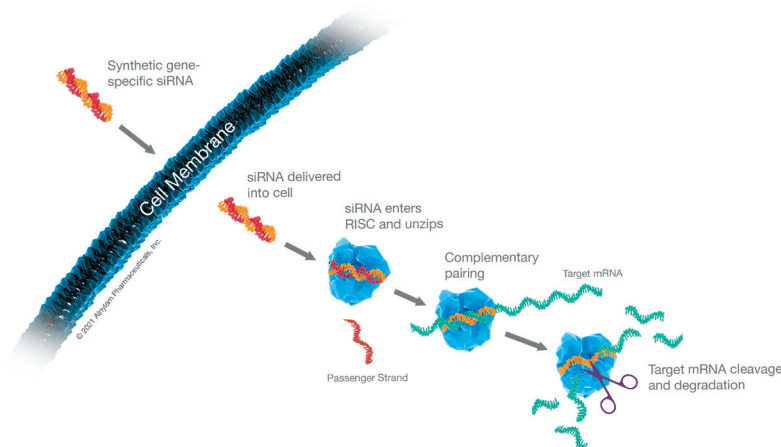


Alnylam Pharmaceuticals

Focused on Developing RNAi Therapeutics

Alnylam is a biopharmaceutical company leading the development of RNA interference (RNAi) therapeutics. The discovery of RNAi has been heralded as a major scientific breakthrough, and represents one of the most promising and rapidly advancing frontiers in biology and drug discovery today.

RNAi is a natural mechanism of gene silencing that occurs in organisms ranging from plants to mammals. RNAi therapeutics in development have the potential to treat diverse disease states and help patients in a fundamentally new way.



Investigational RNAi Therapeutics

Active Product Pipeline and Experience to Date

RNAi therapeutics in development by Alnylam are engineered to enable a consistent level of target knockdown. Alnylam's pipeline of investigational RNAi therapeutics is focused in four Strategic Therapeutic Areas (STARs): **Genetic Medicines, Cardio-Metabolic Diseases, Infectious Disease, and CNS/Ocular Diseases**. These STARs represent a range of diseases from rarest to most common globally.

PROGRAMS
CURRENTLY IN CLINICAL
DEVELOPMENT*

11

PEER-
REVIEWED
PAPERS*

>250

CLINICAL
STUDIES TO
DATE*

>35

LONGEST
DURATION OF
EXPOSURE*

>8 yrs

* As of January 2022 across all active programs. Numbers are approximate as many studies are ongoing and several are blinded.

To learn more about Alnylam and our pipeline advancements, please visit [Alnylam.com](https://www.alnylam.com)

Our Pipeline *Focused in 4 Strategic Therapeutic Areas (STAr):*

● Genetic Medicines
 ● Cardio-Metabolic Diseases
 ● Infectious Diseases
 ● CNS/Ocular Diseases

| | | HUMAN POC ¹ | BREAKTHROUGH DESIGNATION | EARLY/MID STAGE <i>(IND or CTA Filed-Phase 2)</i> | LATE STAGE <i>(Phase 2-Phase 3)</i> | REGISTRATION/ COMMERCIAL ² <i>(OLE/Phase 4/11S/registries)</i> | COMMERCIAL RIGHTS |
|---|---|---------------------------|-----------------------------|--|---|---|---|
| ONPATTRO[®] (patisiran) ³ | <i>hATTR Amyloidosis-PN</i> | | | | | ● | Global |
| GIVLAARI[®] (givosiran) ⁴ | <i>Acute Hepatic Porphyria</i> | | | | | ● | Global |
| OXLUMO[®] (lumasiran) ⁵ | <i>Primary Hyperoxaluria Type 1</i> | | | | | ● | Global |
| Leqvio[®] (inclisiran) ⁶ | <i>Hypercholesterolemia</i> | | | | | ● | Milestones & up to 20% Royalties ⁷ |
| Vutrisiran | <i>ATTR Amyloidosis-PN</i> | | | | | ● | Global |
| Patisiran | <i>ATTR Amyloidosis Label Expansion</i> | | | | ● | | Global |
| Vutrisiran | <i>ATTR Amyloidosis</i> | | | | ● | | Global |
| Vutrisiran⁸ | <i>Stargardt Disease</i> | | | | | | Global |
| Fitusiran | <i>Hemophilia</i> | | | | ● | | 15-30% Royalties |
| Lumasiran | <i>Severe PH1 Recurrent Renal Stones</i> | | | ● | | ● | Global |
| Cemdisiran (+/- Pozelimab)⁹ | <i>Complement-Mediated Diseases</i> | | | | ● | | 50/50; Milestone Royalty |
| Belcesiran¹⁰ | <i>Alpha-1 Liver Disease</i> | | | ● | | | Ex-U.S. option post-Phase 3 |
| ALN-HBV02¹¹ (VIR-2218) | <i>Hepatitis B Virus Infection</i> | | | ● | | | 50-50 option post-Phase 2 |
| Zilebesiran (ALN-AGT) | <i>Hypertension</i> | | | ● | | | Global |
| ALN-HSD | <i>NASH</i> | | | ● | | | 50-50 |
| ALN-APP | <i>Alzheimer's Disease; Cerebral Amyloid Angiopathy</i> | | | ● | | | 50-50 |
| ALN-XDH | <i>Gout</i> | | | ● | | | Global |

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

² Includes marketing application submissions

³ Approved in the U.S. and Canada for the polyneuropathy (PN) of hATTR amyloidosis in adults, and in the EU, Japan and other countries for the treatment of hATTR amyloidosis in adults with stage 1 or stage 2 PN

⁴ Approved in the U.S., Brazil and Canada for the treatment of adults with acute hepatic porphyria (AHP), and in the EU and Japan for the treatment of AHP in adults and adolescents aged 12 years and older

⁵ Approved in the U.S., EU and Brazil for the treatment of primary hyperoxaluria type 1 in all age groups

⁶ Novartis has obtained global rights to develop, manufacture and commercialize inclisiran

⁷ 50% of inclisiran royalty revenue from Novartis will be payable to Blackstone by Alnylam

⁸ Phase 3 study of vutrisiran in Stargardt Disease expected to initiate in late 2022

⁹ Cemdisiran and pozelimab are each currently in Phase 2 development; Alnylam and Regeneron are evaluating potential combinations of these two investigational therapeutics

¹⁰ Dicerna is leading and funding development of Belcesiran

¹¹ Vir is leading and funding development of ALN-HBV02