



# HANSA

## BIOPHARMA

### Investor Presentation

Redeye lunch meeting  
Stockholm, October 21, 2022

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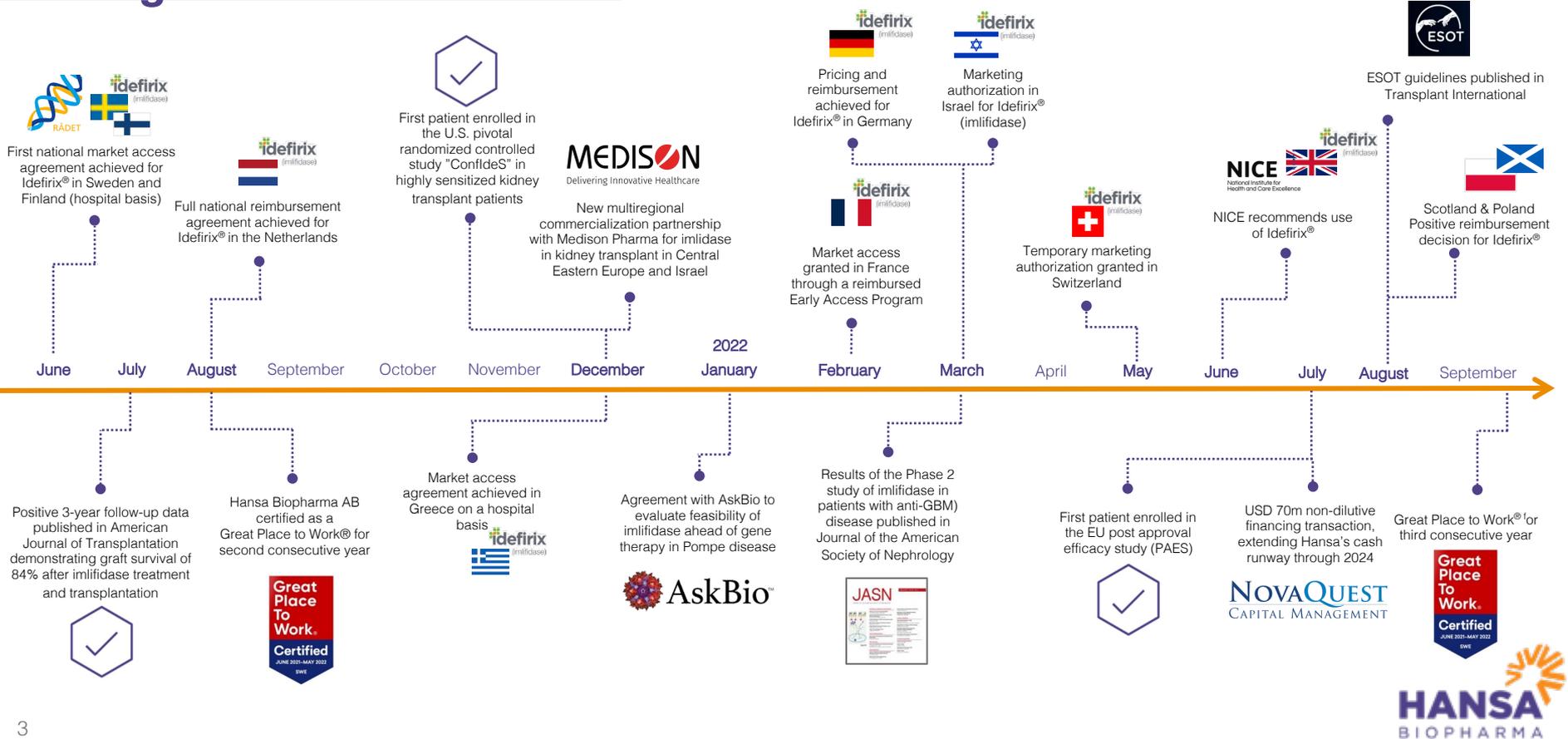
# Forward-looking statements

This presentation may contain certain forward-looking statements and forecasts based on our current expectations and beliefs regarding future events and are subject to significant uncertainties and risks since they relate to events and depend on circumstances that will occur in the future. Some of these forward-looking statements, by their nature, could have an impact on Hansa Biopharma's business, financial condition and results of operations [or that of its parent, affiliate, or subsidiary companies]. Terms such as "anticipates", "assumes", "believes", "can", "could", "estimates", "expects", "forecasts", "intends", "may", "might", "plans", "should", "projects", "will", "would" or, in each case, their negative, or other variations or comparable terminology are used to identify forward-looking statements. There are a number of factors that could cause actual results and developments to differ materially from those projected, whether expressly or impliedly, in a forward-looking statement or affect the extent to which a particular projection is realized. Such factors may include, but are not limited to, changes in implementation of Hansa Biopharma's strategy and its ability to further grow; risks and uncertainties associated with the development and/or approval of Hansa Biopharma's product candidates; ongoing clinical trials and expected trial results; the ability to commercialize imlifidase if approved; changes in legal or regulatory frameworks, requirements, or standards; technology changes and new products in Hansa Biopharma's potential market and industry; the ability to develop new products and enhance existing products; the impact of competition, changes in general economy and industry conditions and legislative, regulatory and political factors.

The factors set forth above are not exhaustive and additional factors could adversely affect our business and financial performance. We operate in a very competitive and rapidly changing environment, and it is not possible to predict all factors, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements. Given these risks and uncertainties, investors should not place undue reliance on forward-looking statements as a prediction of actual results.

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# Many milestones achieved during the last 15 months



## Positive reimbursement decisions received in Poland and Scotland; \$70 million raised in non-dilutive financing; ESOT guidelines published in *Transplant International*

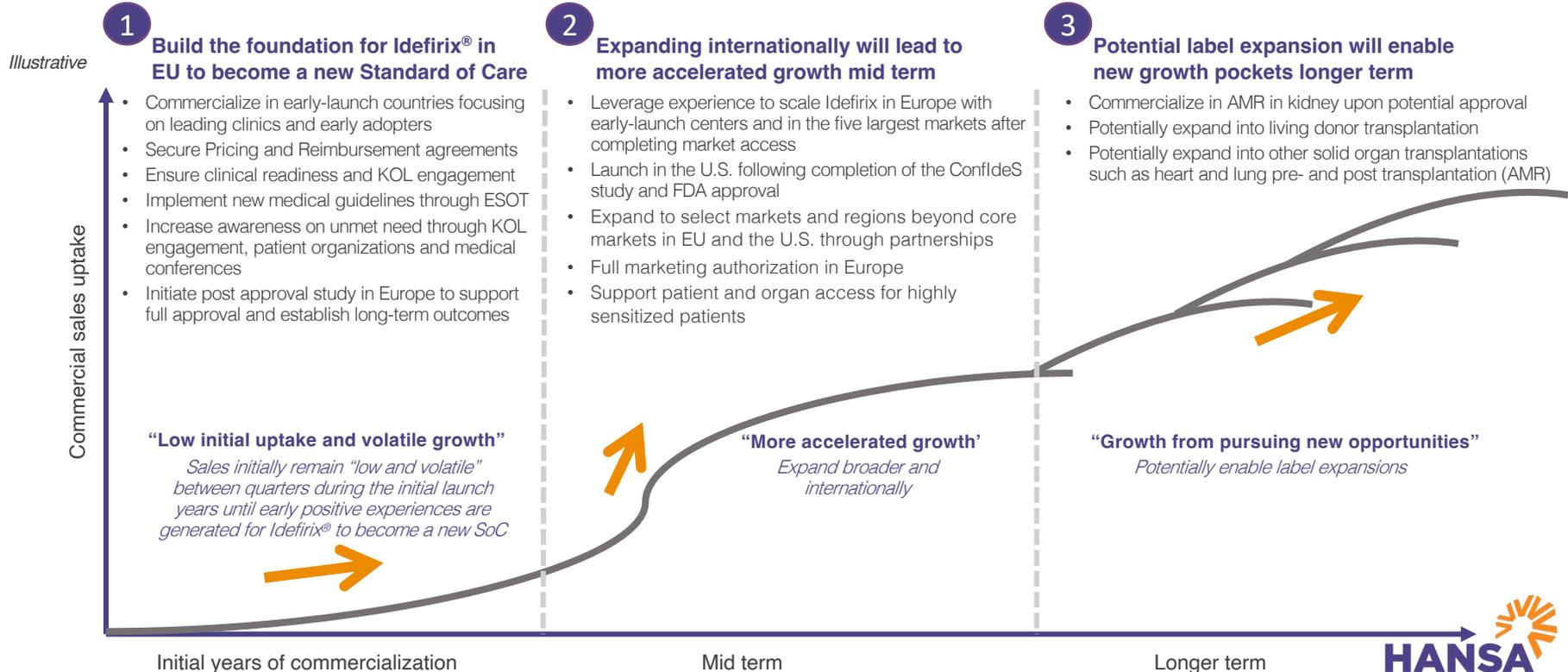
### Highlights for the third quarter of 2022

- ✓ Launch activities and market access efforts in EU progressing as planned
  - Total Q3 revenue of SEK 67m including SEK 23m in product sales and SEK 44m under our agreements with Sarepta and AskBio
  - Positive reimbursement decisions received in Poland and Scotland for Idefirix®
  - Market access has now been secured in nine European countries and procedures are ongoing in eight countries including Spain, Italy and Belgium
  - The European Society for Organ Transplantation's (ESOT) guidelines for desensitization treatment of highly sensitized kidney transplant patients published in *Transplant International*.
  - First patient treated in the post-authorization efficacy study (PAES) of imlifidase in highly sensitized kidney transplant patients, at Vall d'Hebron Hospital, Barcelona.
- ✓ Clinical pipeline
  - U.S. ConfldeS Study in kidney transplantation: 39/64 patients enrolled
  - Anti-GBM: Expect to commence Phase 3 study later this year, as previously guided
  - AMR: Patient enrollment completed; First data read-out expected in H2'22
  - GBS: 20/30 patients enrolled in the GBS phase 2 study; Higher infection rates are expected as the winter season approaches as well as additional measures will be implemented to accelerate recruitment in the coming months. Completion of enrollment in the GBS trail is anticipated H2 2022/H1 2023
- ✓ Great Place to Work® certification for the 3<sup>rd</sup> consecutive year
- ✓ \$70 million raised in non-dilutive financing
  - Transaction supports the continued development of Hansa's antibody-cleaving enzyme technology platform while extending the cash runway through 2024



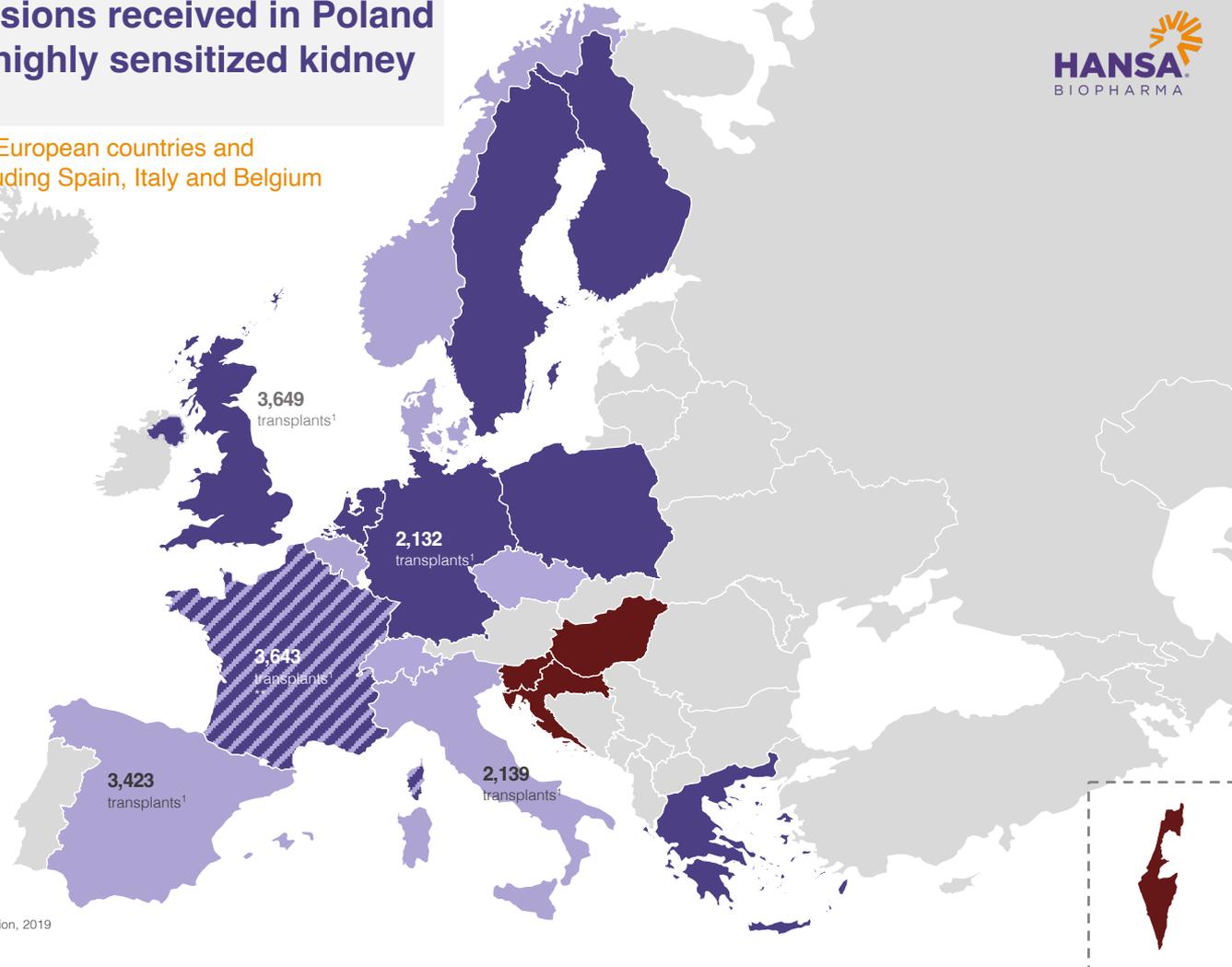
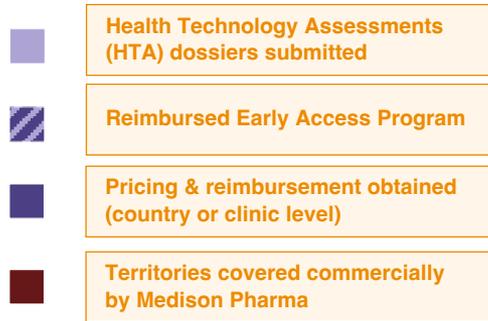
# Our center focused and sequenced launch process will help build the foundation for Idefirix<sup>®</sup> to become a new Standard of Care in transplantation

Idefirix<sup>®</sup> is the first and only approved treatment in Europe for desensitization treatment of highly sensitized kidney transplant patients. The long-term market uptake is highly dependent on successful early experiences in key early adopter centers



# Positive reimbursement decisions received in Poland and Scotland for Idefirix® in highly sensitized kidney transplant patients

Market access has now been secured in nine European countries and procedures are ongoing in eight countries including Spain, Italy and Belgium



<sup>1</sup>Annual kidney transplantations 2019 (pre-Corona)

\*Transplantation data is from Global Observatory on Donation and Transplantation, 2019

\*\*Pricing & reimbursement obtained in France on an early access basis

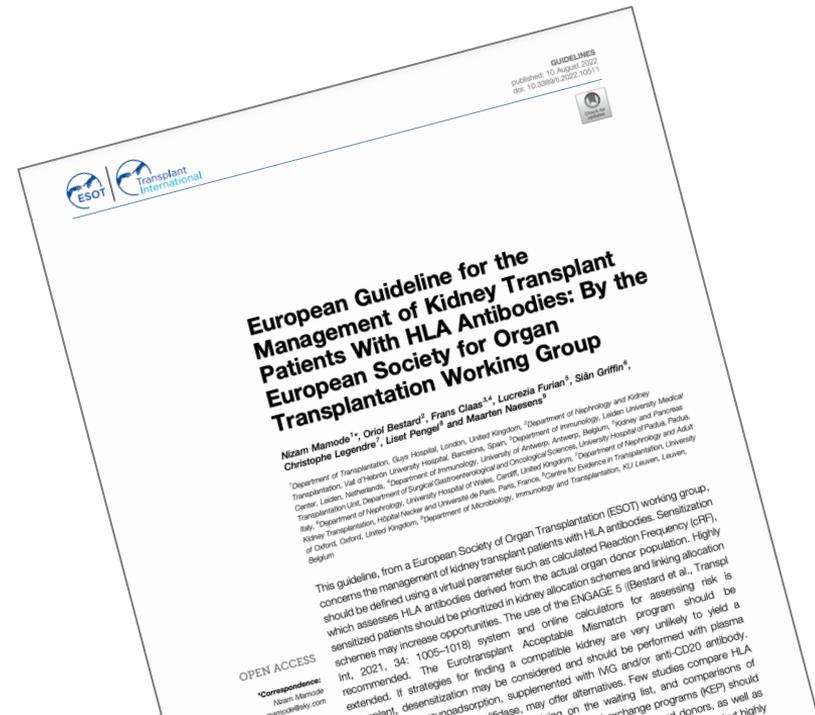
# The European Society for Organ Transplantation's (ESOT) guidelines for desensitization treatment of highly sensitized patients published in *Transplant International* in August 2022

## Guidelines represent first international consensus on a management pathway for highly sensitized patients

- The European guidelines document is a result of an expert working group, led by Professor Nizam Mamode M.D. Professor of Transplant Surgery, previously at Guys and St Thomas Hospital, London, and supported by other leading experts in the transplantation field.<sup>1</sup>
- Guidelines include imlifidase and provide a new clinical practice tool for healthcare professionals and represent the first international consensus on a management pathway for highly sensitized patients.
- Guidelines articulate the variability in definitions, approaches, outcomes as well as the perceived success of HLA-related transplantations
- Hansa Biopharma sponsors desensitization workstream as part of ESOT's educational programs, via an educational grant

## *Transplant International*

<https://www.frontierspartnerships.org/articles/10.3389/ti.2022.10511/full>



<sup>1</sup>Mamode N, Bestard O, Claas F, Furian L, Griffin S, Legendre C, Pengel L and Naesens M (2022) European Guideline for the Management of Kidney Transplant Patients With HLA Antibodies: By the European Society for Organ Transplantation Working Group. *Transpl Int* 35:10511. doi: 10.3389/ti.2022.10511

# Continuous progress in our ongoing clinical programs

Enrollment status  
Oct 19, 2022

## Antibody Mediated Rejection Phase 2 study

- 30/30 patients enrolled in the AMR phase 2 study
- Enrollment completed May 2022
- First data read out expected toward the end of 2022\*
- Data from the Phase 2 program will determine the path forward for imlifidase in patients with active AMR episodes



## Guillain-Barré Syndrome Phase 2 study

- 20/30 patients enrolled in the GBS program
- Ten centers are active and open for recruitment; Additional measures will be implemented to accelerate recruitment in the coming months.
- Aim to complete enrollment of GBS patients H2'22/H1'23
- Enrollment expected to be boosted from higher infection rates during winter season, while increased capacity at the enrollment sites is also expected to support a faster enrollment
- Aim to communicate first high-level data read out in H2 2023



- Patients enrolled
- Patients remaining

Enrollment status  
Oct 19, 2022

## Anti-GBM Phase 3 study

- FDA has accepted Hansa's Investigational New Drug (IND) application to proceed with a pivotal global Phase 3 study
- Aim to commence the planned anti-GBM study later this year, as previously guided. Study will target 50 patients\*



- Patients enrolled
- Patients remaining

## U.S. ConfldeS Phase 3 study

- Randomized, controlled trial in highly sensitized kidney transplant patients across up to 15 centers
- 39/64 patients enrolled for randomization
  - Aim to complete of enrollment expected toward end of 2022
  - Aim to complete randomization n the first half 2023
  - BLA submission is expected in 2024 under the accelerated approval path



- Patients enrolled
- Patients remaining

# Broad clinical pipeline in transplantation and auto-immune diseases

Candidate/Project	Indication	Research/Preclinical	Phase 1	Potentially Pivotal/Phase 2	Phase 3	Marketing Authorization	Marketed	Next Anticipated Milestone
Imlifidase	EU: Kidney transplantation in highly sensitized patients <sup>1,2</sup>						EU: Additional agreements around reimbursement from H2'21	
	US: Kidney transplantation in highly sensitized patients <sup>1,2</sup>						Completion of enrollment (64 patients) H2'22	
	Anti-GBM antibody disease <sup>3</sup>						Pivotal Phase 3 study expected to commence in 2022 (50 patients)	
	Antibody mediated kidney transplant rejection (AMR)						First data read-out H2 2022	
	Guillain-Barré syndrome (GBS)						Completion of enrollment (30 patients) H2'22/H1'23	
	Pre-treatment ahead of gene therapy in Limb-Girdle (Partnered with Sarepta)						Preclinical research	
	Pre-treatment ahead of gene therapy in Duchenne (Partnered with Sarepta)						Preclinical research	
	Pre-treatment ahead of gene therapy in Pompe disease (Partnered with AskBio)						Preclinical research	
NiceR	Recurring treatment in autoimmune disease, transplantation and oncology						Completion of GLP toxicology studies in 2022	
EnzE	Cancer immunotherapy						Research	

<sup>1</sup> Results from the Phase 1 study have been published, Winstedt et al. (2015) PLOS ONE 10(7)

<sup>2</sup> Lorant et al American Journal of Transplantation and 03+04 studies (Jordan et al New England Journal of Medicine)

<sup>3</sup> Investigator-initiated study by Mårten Segelmark, Professor at the universities in Linköping and Lund

 Completed

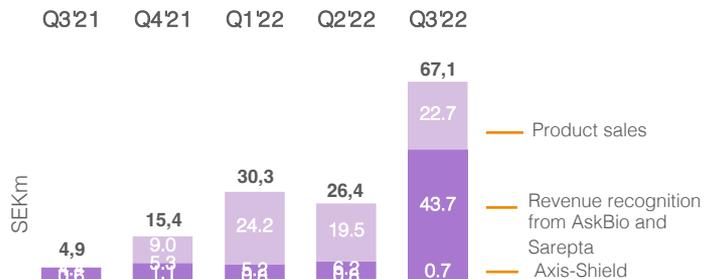
 Planned

 Ongoing

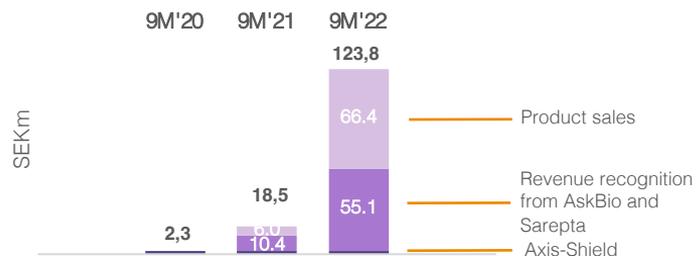
 Post approval study running in parallel with commercial launch

# Total Revenue amounted to SEK 67m in the third quarter including SEK 23m in product sales

## Revenue (Q/Q)



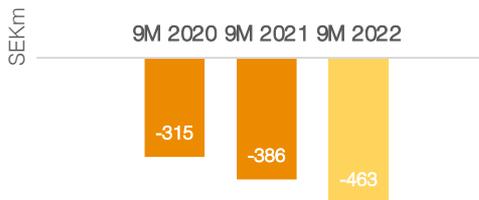
## Revenue (9M/9M)



## Net loss (Q/Q)



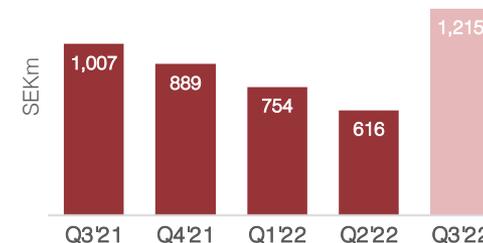
## Net loss (9M/9M)



## Operating cash flow (Q/Q)

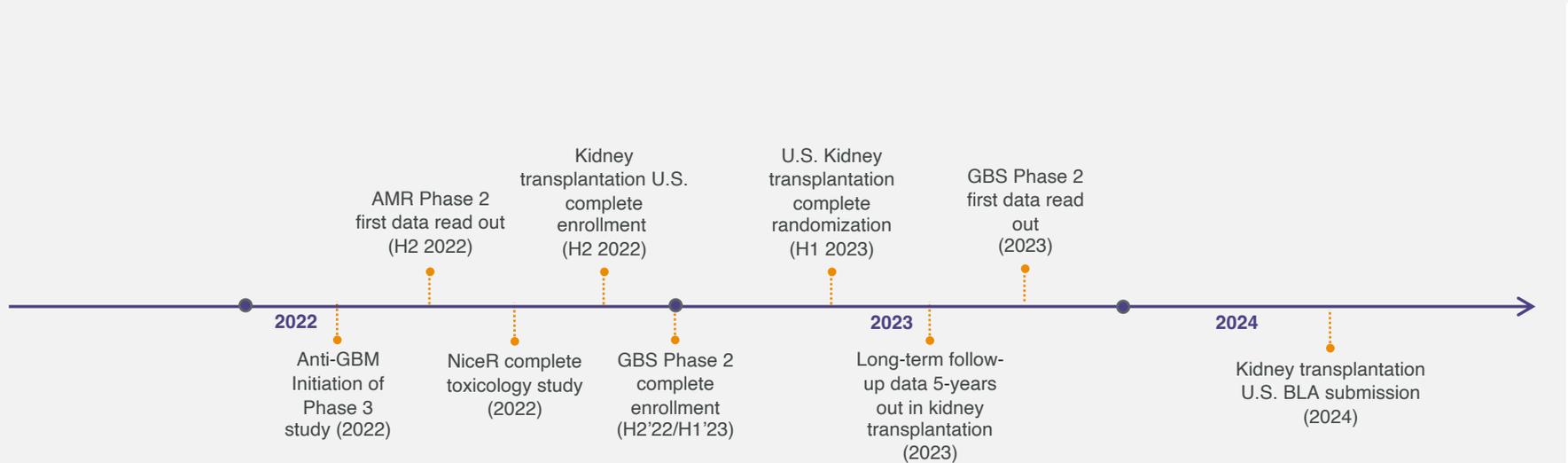


## Cash & short-term investments (Q/Q)



# Upcoming milestones

Milestones subject to potential COVID-19 impact



*Guidance assumes no persistent impact or further escalation of the COVID-19 pandemic potentially forcing trial centers to reprioritize patient recruitment or even shut down again.*

# Antibody Mediated Rejection

Long term graft survival is challenged by AMR post transplantation

## There is no approved treatment for AMR

- Active antibody mediated rejection after transplantation occurs in 5-7% of kidney transplants<sup>1</sup> annually<sup>4</sup> and is a significant challenge to long term graft survival
- Today's standard of care include plasma exchange, and treatment with steroid and IVIg. AMR patients not treated successfully risk graft failure, dialysis and return to the waitlist
- The AMR Phase 2 study is a randomized, open-label, multi-center, active control study designed to evaluate the safety and efficacy of imlifidase in eliminating donor specific antibodies (DSAs) in the treatment of active episodes of acute and chronic acute AMR in kidney transplant patients
- Completion of enrollment in 30 patient at 14 centers across the US, Europe and Australia was done May 2022
- First data read out expected in H2 2022

<sup>1</sup> Puttarajappa et al., Journal of Transplantation, 2012, Article ID 193724.

<sup>2</sup> Seven major markets – US, Germany, UK, France, Spain, Italy, and Japan



## AMR Phase 2

# AMR Phase 2 study

Aim of the study is test imlifidase ability to reduce the amount of donor specific antibodies in AMR patients post transplantation



### CLINICALTRIALS.GOV ID

NCT03897205 (2019)

### SUBJECTS

30 patients targeted (20 patients will be treated with imlifidase and 10 with Plasma exchange). Recruitment from 11 sites in the U.S., EU and Australia.

### DOSES/FOLLOW UP TIME

1 dose of imlifidase (0.25 mg/kg) or 5-10 sessions of plasma exchange

### MAIN OBJECTIVES

- Imlifidase ability to reduce the amount of DSA in comparison with plasma exchange in patients who have an active AMR post transplantation
- Ensure safety for patients

### STUDY DESIGN

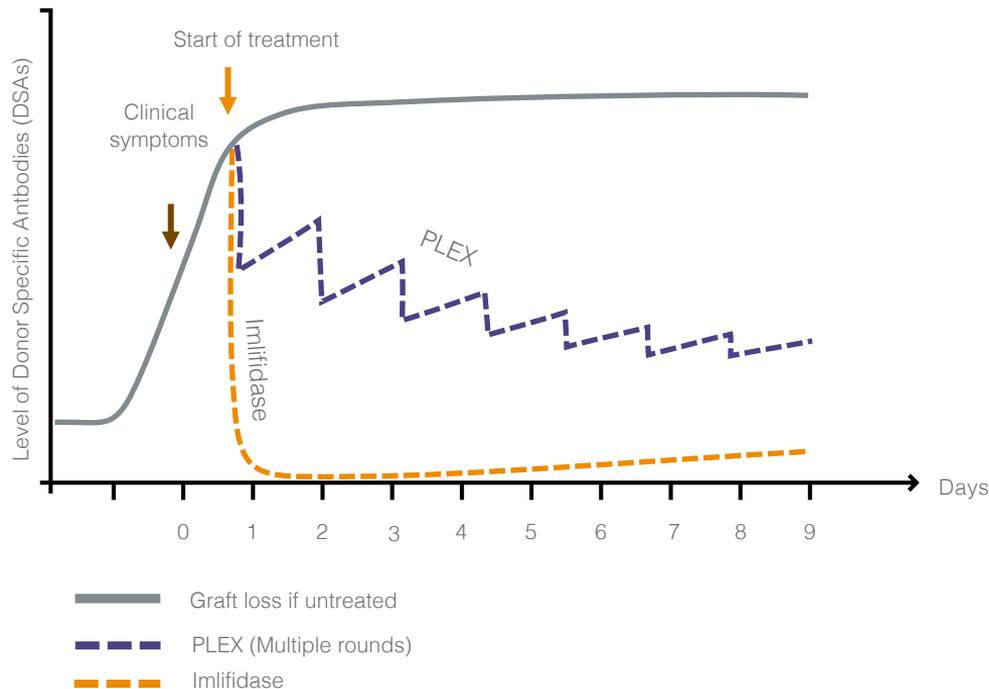
- Randomized, open-label multi-center active control study, designed to evaluate the safety and efficacy of imlifidase in eliminating DSA in active AMR

### STATUS

Completed enrollment awaiting first data read out H2 2022

## Potential of using imlifidase vs. PLEX in AMR

*Illustrative*



# Imlifidase in kidney transplantation

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# U.S. ConfideS study: Completion of enrollment expected H2 2022; BLA submission expected 2024

## U.S. trial design

64 highly sensitized kidney patients with the highest unmet medical need

- Patients with a cPRA score of  $\geq 99.9\%$  will be enrolled
- First patients enrolled at Columbia University, NYC
- 39 patients enrolled across ten sites October 19, 2022

## 1:1 Randomization

- When a donor organ becomes available and a positive crossmatch with the intended recipient indicates that the organ is not compatible, the patient will be randomized to either imlifidase or to a control arm, where patients either remain waitlisted for a match or receive experimental desensitization treatment\*

## Primary endpoint

- Mean estimated glomerular filtration rate (eGFR) "kidney function" at 12 months.
- For randomized patients who do not undergo transplantation, lose their graft or die before 12 months, eGFR will be set to zero, consistent with kidney failure

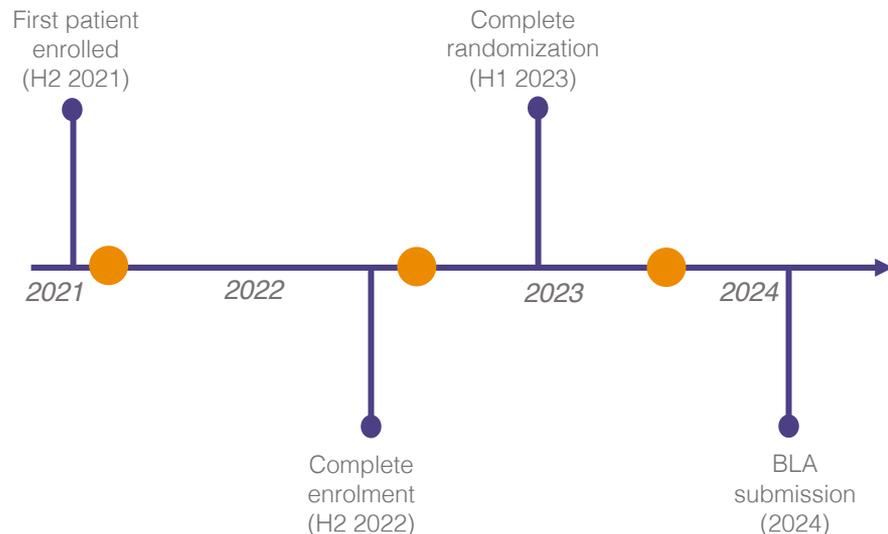
## Secondary endpoint

- Patient survival at 12 months

Up to 15 leading transplantation centers in the U.S. will be engaged in the study

- Robert A. Montgomery, M.D. Professor of Surgery and Director, NYU Langone Transplant Institute, NYC is appointed to be the principal investigator

## Timeline



\*Experimental desensitization treatment can include any combination of plasma exchange (PLEX), intravenous IVIg, anti-CD20 antibody, and eculizumab. Link to the full protocol at [ClinicalTrials.gov](https://clinicaltrials.gov)

# U.S. kidney transplantation landscape

Our ConfideS study is currently enrolling patients across ten leading transplantation centers across seven states covering ~10% of annual kidney transplants in the U.S.; Aim to have up to 15 centers recruiting patients

>23,000<sup>1</sup> annual kidney transplantations

~71%<sup>1</sup> deceased donor

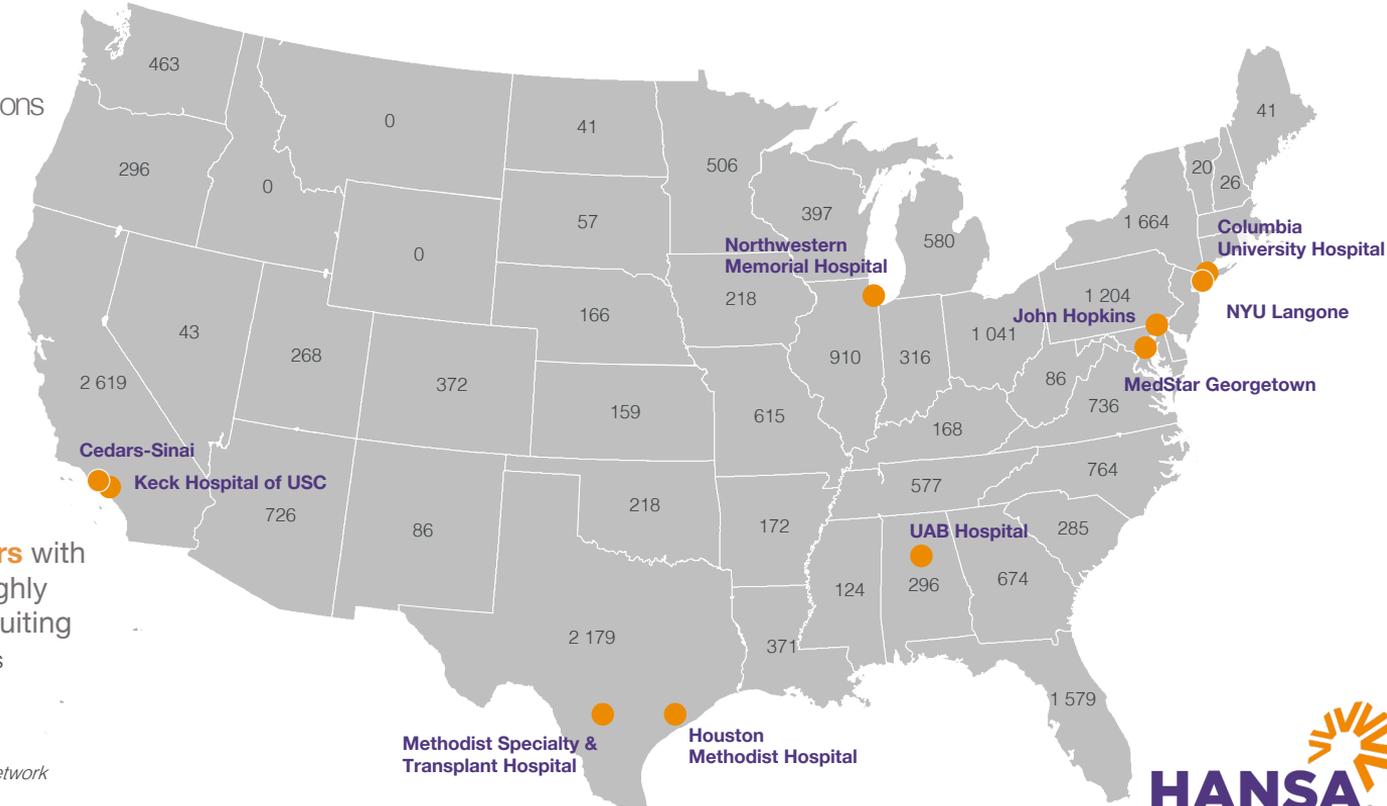
~90,000<sup>2</sup> waiting for a kidney transplant

10-15%<sup>3</sup> of waitlisted patients are highly sensitized

Ten leading transplantation centers with experience in desensitization and highly sensitized patients are currently recruiting

2,542<sup>1</sup> combined annual kidney transplants

334<sup>1</sup> highly sensitized (>80% cPRA)



<sup>1</sup>2019 data from Organ Procurement & Transplantation Network

<sup>2</sup>United Network for Organ Sharing

<sup>3</sup>EDQM. (2020). International figures on donation and Transplantation 2019 and SRTT Database and individual assessments of allocation systems

# First patient experiences with Idefirix (imlifidase) in highly sensitized kidney transplant patients post approval published

## 29-year-old woman transplanted with Idefirix at Erasmus Medical Center, Rotterdam

The woman has had kidney disease since childhood and has been dialysis dependent since 2016, after previously having had two transplantations where the organs were rejected.

Due to high levels of antibodies, it was virtually impossible for her to find a match through Eurotransplant but in March 2022, the 29-year-old was transplanted using Idefirix and is since doing well.

*“She gained new perspective on a good life through transplantation” says nephrologist Annelies de Weerd*

[Link article in Amazing Erasmus from July 7, 2022](#)

## 54-year-old man successfully transplanted at Vall d’Hebron, Barcelona after being on dialysis since 1984

The first patient transplanted in the post-approval study was a 54-year-old man who had been on dialysis since 1984. After two failed transplantation attempts in the 90s, the patient’s immune system became sensitized, with very high antibody levels.

In May 2022, the patient received imlifidase treatment followed by a kidney transplant. After three months, he continues to be followed up on and does not require dialysis.

*“This drug may open the door to transplantation for a group of highly sensitized individuals with virtually no option for a compatible transplant.” says Dr. Francesc Moreso*

[Link article from Vall d’Hebron news forum August 25, 2022](#)

# Gene Therapy

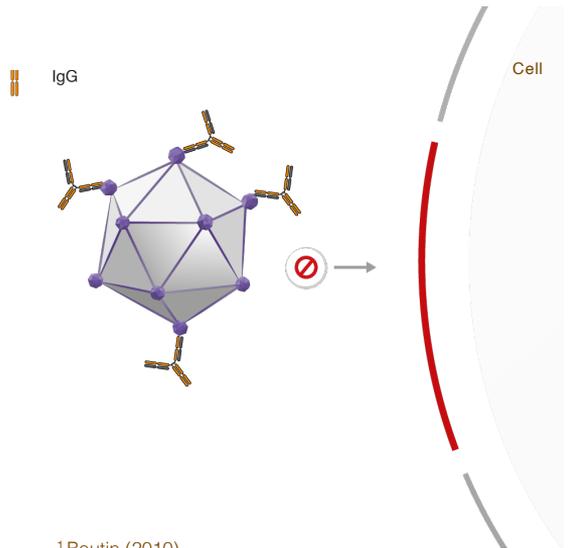
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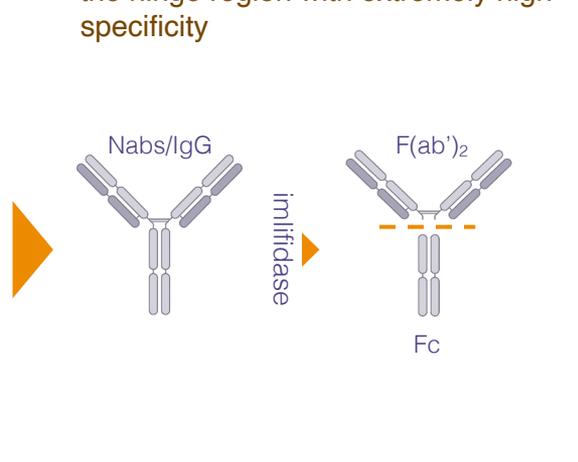
# Neutralizing antibodies (Nabs) are immunological barriers in gene therapy; imlifidase may potentially eliminate Nabs

Between approximately 5% and 70%<sup>1,2</sup> of patients considered for gene therapy treatment carry neutralizing anti-AAV antibodies forming a barrier for treatment eligibility

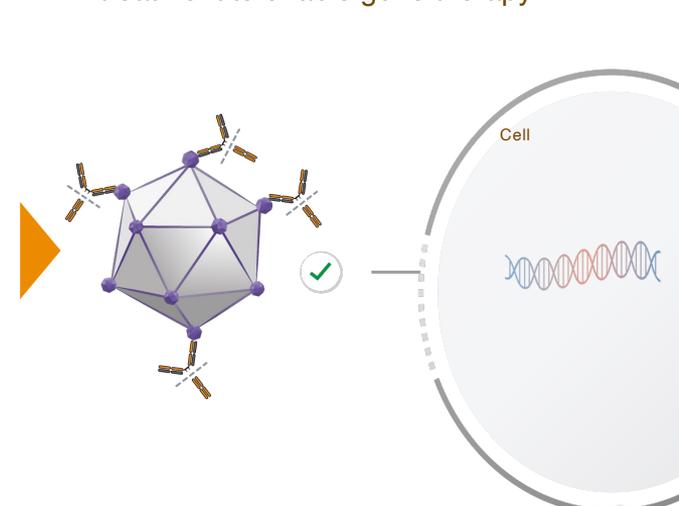
1 Antibodies prevent effective transfer of healthy gene sequence and can be a safety concern



2 Imlifidase is a unique IgG antibody-cleaving enzyme that cleaves IgG at the hinge region with extremely high specificity



3 The idea is to eliminate the neutralizing antibodies as a pre-treatment to enable gene therapy



# Global and exclusive agreement with Sarepta Therapeutics

to develop and promote imlifidase as pre-treatment ahead of gene therapy in select indications



## Indication exclusivity:

- Duchenne Muscular Dystrophy (DMD)
- Limb-Girdle Muscular Dystrophy (LGMD)

## Hansa's key resources

- Imlifidase validated with positive clinical efficacy and safety data as well as European approval
- Positive preclinical data published in *Nature*
- Clear path to U.S. approval (kidney transplant)



## Sarepta's key resources

- World leader within gene therapy targeted at muscular dystrophies
- Pre-clinical plan: PoC and IND-tox
- Clinical / Regulatory
- Promotion

## Collaborative research, development and commercialization – working together at every stage



# Duchenne Muscular Dystrophy (DMD) SRP-9001

## About Duchenne Muscular Dystrophy (DMD)<sup>1</sup>

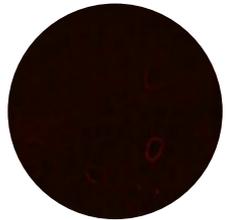
- Rare, fatal neuromuscular genetic disease
- Muscle weakness noticeable by age 3 to 5, and most patients use a wheelchair by the time they are 11
- Cardiac and respiratory muscle deterioration becomes life-threatening
- 1/3,500 to 5,000 male births (worldwide)
- Approximately 15% of patients have pre-existing IgG antibodies to rh74

## SRP-9001 micro-dystrophin gene therapy for treatment of DMD

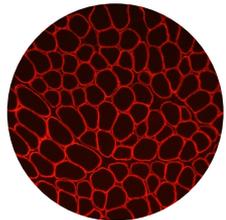
- AAVrh74 vector with micro-dystrophin transgene
- Broad patient experience
- 4 ongoing clinical trials – including recently initiated pivotal study
- Robust micro-dystrophin protein expression with commercially representative process material
- Functional benefits sustained up to 3 years after administration
- Observed safety profile is consistent
- On September 29, 2022, Sarepta announced that it had submitted a Biologics License Application (BLA) to the U.S. FDA for the accelerated approval of SRP-9001 to treat ambulant patients with DMD.

For further information regarding Sarepta's gene therapy programs, please refer to [www.sarepta.com](http://www.sarepta.com)

Pre-treatment



Post-treatment



Source:

<sup>1</sup> Sarepta Therapeutics <https://investorrelations.sarepta.com/static-files/e9393c38-646f-45ee-9f56-955f3bfad71>

<sup>2</sup> National Institutes of Health. Genetics Home Reference. Duchenne and Becker muscular dystrophy. <https://ghr.nlm.nih.gov/condition/duchenne-and-becker-muscular-dystrophy>. Accessed Jan 2020.

<sup>3</sup> Sarepta Therapeutics <https://investorrelations.sarepta.com/static-files/e9393c38-646f-45ee-9f56-955f3bfad7>

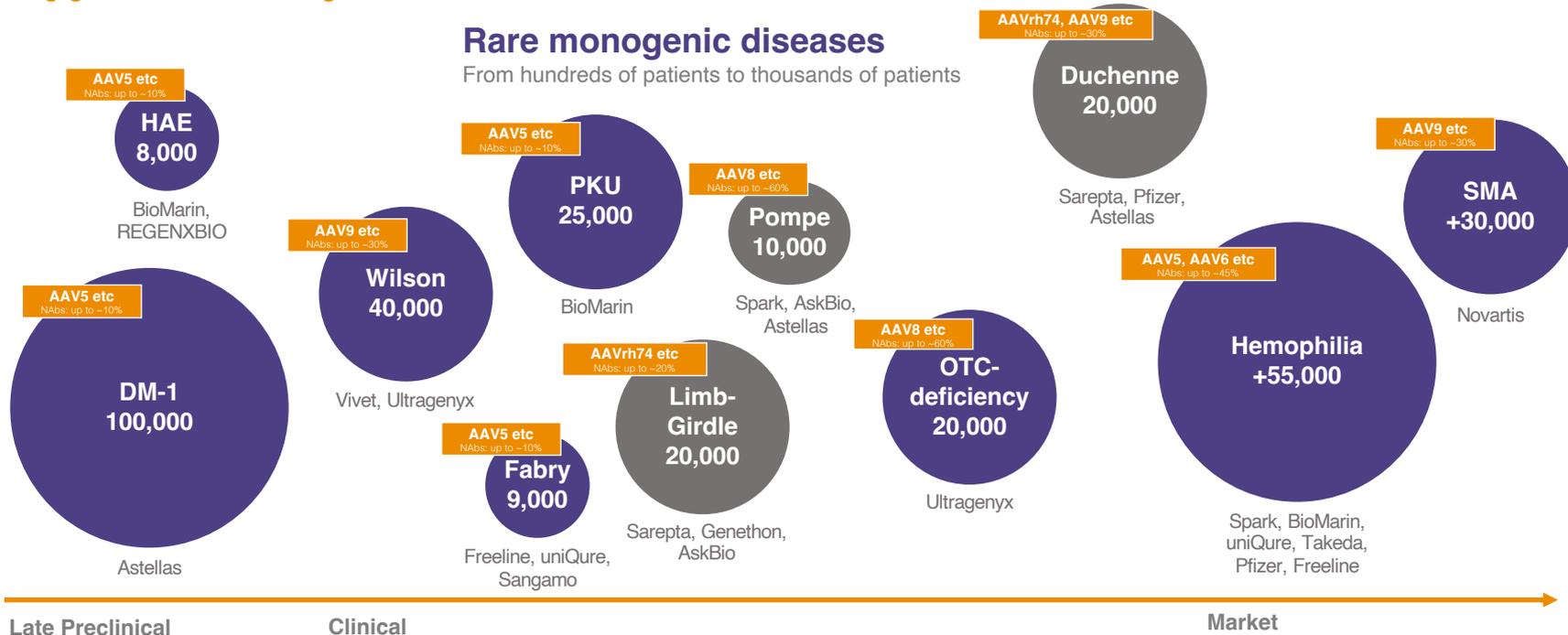
# Systemic gene therapy is an emerging opportunity

with a focus on the potential to correct issues causing genes in rare monogenic diseases

- Preclinical programs with Sarepta and AskBio
- Potential gene therapy indications (currently not pursued)

## Rare monogenic diseases

From hundreds of patients to thousands of patients



Late Preclinical

Clinical

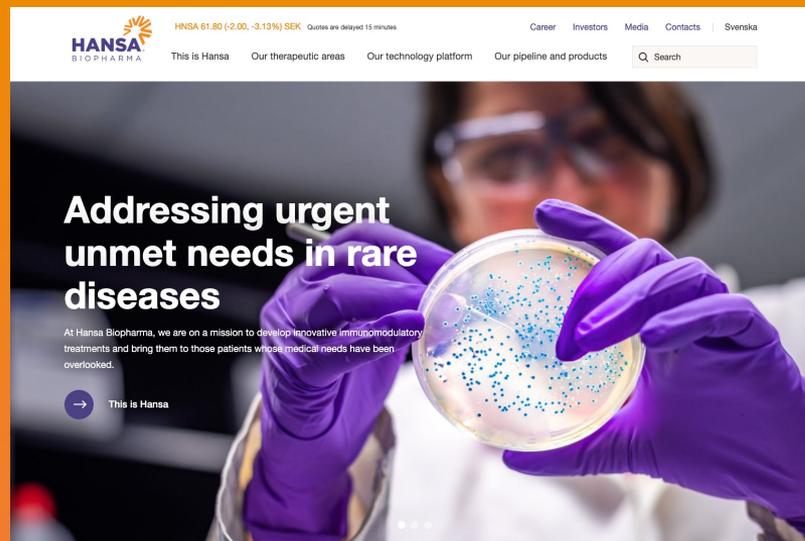
Market

● Size of indication (US & EU)

# Q&A

... at Hansa Biopharma we envision a world where all patients with rare immunologic diseases can lead long and healthy lives...

Visit our new web site  
[www.hansabiopharma.com](http://www.hansabiopharma.com)





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# Investor Relations

## Contact

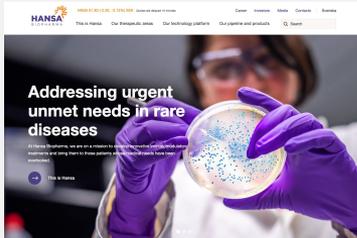


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## Calendar and events

- Oct 20, 2022 Redeye After Work presentation, Gothenburg
- Oct 21, 2022 Redeye Lunch presentation, Stockholm
- Oct 26, 2022 Økonomisk Ugebrev Life Science Conference, Copenhagen
- Oct 27, 2022 HCA Capital Expert call on the commercial progress and launch strategy
- Nov 22, 2022 Bryan Garnier KOL Expert call on kidney transplantation (virtual)
- Nov 23, 2022 SEB Healthcare Seminar 2022, Stockholm
- Nov 24, 2022 Redeye Life Science Day, Stockholm
- Dec 1, 2022 Erik Penser Banks Temadag - Health Care, Stockholm
- Dec 2, 2022 Geneva Corporate Access Midcap Event, Geneva
- Dec 15, 2022 DNB Nordic Healthcare Conference, Oslo
- Jan 9, 2023 JPM Week, San Francisco
- Feb 2, 2023 Interim Report for January-December 2022
- Mar 14, 2023 Carnegie Nordic Healthcare Seminar 2023
- Mar 30, 2023 2022 Annual Report
- April 20, 2023 Interim Report for January-March 2023
- June 14, 2023 2023 Annual General Meeting
- July 20, 2023 Half-year Report for January-June 2023
- Oct 19, 2023 Interim Report for January-September 2023