

# **Forward-looking statements**

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# Strong commercial performance in the first quarter; Raised SEK ~372m (USD ~34.6m) in a directed share issue

# Q1: Second consecutive quarter with solid IDEFIRIX product sales

## **✓** SEK 47m in IDEFIRIX product sales

- Growth supported by U.K., Germany and France
- Expect utilization in new centers and repeat use to drive sales continued sales growth in 2024

# ✓ IDEFIRIX has achieved market access in 75% of the European transplant market

Ongoing HTA processes in 11 countries

## ✓ Cash runway extended into 2026

 Directed share issue was subscribed by international healthcare specialist investors

## ✓ Evan Ballantyne joined Hansa as CFO

Evan brings more than 30 years of international experience in life sciences

# Pipeline: Clinical programs continue to progress as planned

#### Anti-GBM disease:

Enrollment in pivotal Phase 3 50% complete

## ✓ Kidney Transplantation:

- ConfldeS (Phase 3): Randomization completion mid-2024
- European Post Approval Study: More than a doubling of patients treated in the last six months

## ✓ Guillian-Barré Syndrome:

Contextualized efficacy data from Phase 2 (exp 2024)

#### ✓ HNSA-5487:

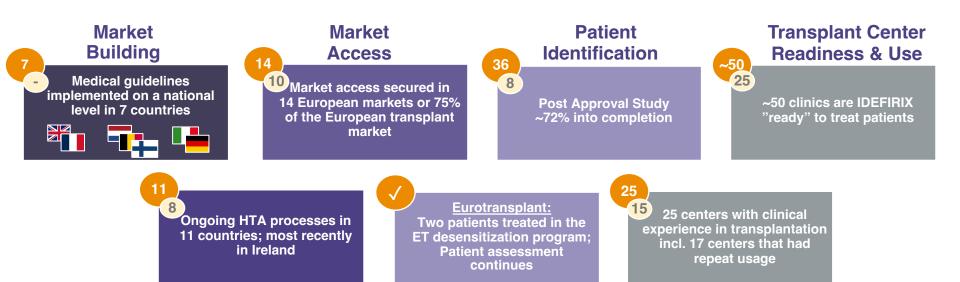
 Further analysis around endpoints from Phase 1 to be completed in 2024 incl. selection of lead indication

### ✓ SRP-9001-104 imlifidase in DMD:

First high-level data read-out from Phase 1b (exp 2024)

# Continued progress against our key launch metrics led by in-market growth





Major markets to support growth going forward: France, U.K., Germany, Spain and Italy

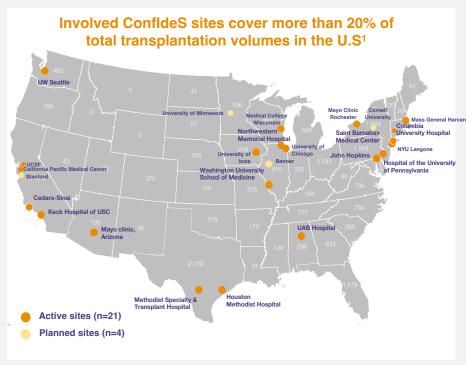
Q1 2024 Q1 2023

# Strong momentum in ConfldeS trial: More than 20% increase in activated sites during Q1 will accelerate randomization



ConfideS phase 3 trial will further advance potential for imlifidase to address unmet need in desensitization

# **U.S. ConfldeS** Phase 3 Continue enrollment beyond 64 patients Currently 122 patients screened and enrolled 49 out of 64 targeted patients randomized Four additional clinics activated in Q1, increasing total number of recruiting clinics to 21 sites to accelerate randomization Randomization expected to complete mid-2024 BLA filing in 2025



# Significant progress in anti-GBM trial underpins potential for imlifidase in autoimmune disease



# First in class IgG cleaving enzyme

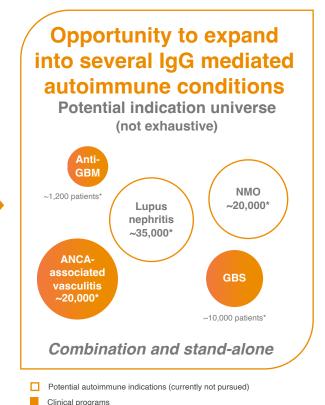
Unique antibody cleaving enzyme

Rapid onset of action

Targets IgG and inhibits IgGmediated immune response

# Anti-GBM as catalyst to enter autoimmune

- A rare acute autoimmune disease affecting 1,200 people in US and Europe annually
- SoC (PLEX, steroids etc.)
   deemed insufficient
- PoC: Encouraging data from Phase 2 trial published in JASN
- Phase 3 study in 50 patients;
   50% enrolled after 10 months



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# Strong momentum across the pipeline in areas of high unmet need

## Phase 1

## Phase 2

## Phase 3

#### HNSA-5487 (Lead from NiceR)

### **Antibody Mediated Rejection (AMR)**

#### **US ConfldeS Study in kidney**



- Encouraging first read-out
- Ongoing collection of immunogenicity data in 2024



- Primary endpoint met
- Plans to publish in peerreviewed journal (2024)



- 122 patients enrolled;
- 49 of 64 patients randomized
- Randomization to complete mid'24

#### **Pre-treatment Gene Therapy Duchenne**

#### **Guillain-Barré syndrome (GBS)**

#### **Post Approval Study in kidney**



- · Study initiated in Dec'23
- First high-level data read-out from Phase 1 expected in 2024



- · Positive high-level data
- Further analysis in 2024 to contextualize efficacy data



- 50 patients to be enrolled
- 72% into completion
- Study to complete by 2025

#### Next generation enzymes

- Gene Therapy
- Autoimmune / Allograft
- Transplantation

#### ANCA-associated vasculitis\*



- 10 patients to be enrolled
- 1/3 into completion

#### **Anti-GBM disease**



- 50 patients to be enrolled
- 50% enrollment
- Complete enrollment in 2025

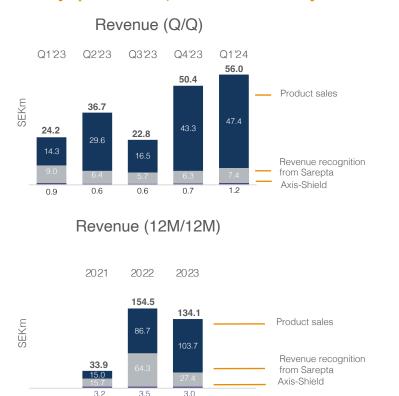
<sup>•</sup> Patients enrolled • Patients remaining

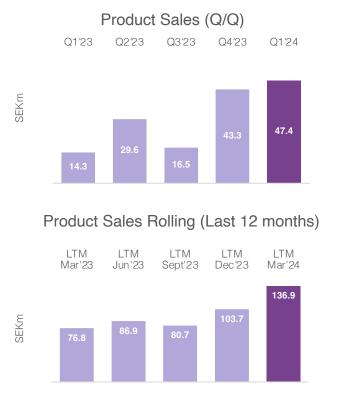
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# Strong commercial performance with total Q1 revenue of SEK 56m including product sales of SEK 47m



Product sales improved +9% vs Q4 2023 and +231% vs Q1 2023; Growth driven by uptake in U.K., France and Germany





# Continued investments in commercialization and R&D activities



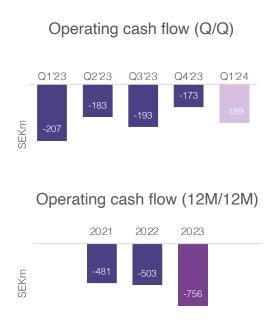


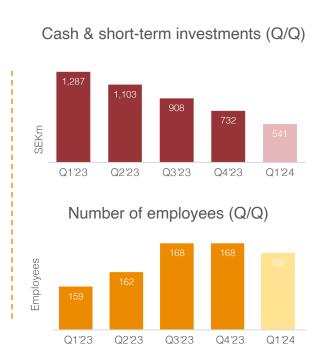


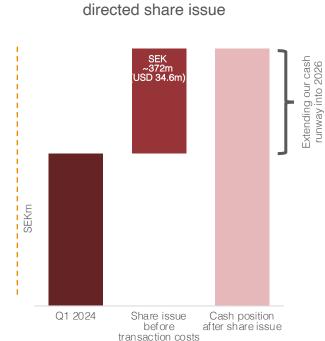


# Extended our cash runway into 2026 through a USD 34.6m directed share issue









Cash position post recent



# Q4 2023 achievements and upcoming milestones 2024/25

2023	2024	2025
Q4 2023		
HNSA-5487 (Lead NiceR candidate): High-level data readout from Phase 1 Long-term follow-up (Kidney tx): 5-year data readout GBS Phase 2: First data readout AMR Phase 2: Full data readout Sarepta DMD pre-treatment Phase 1b: Commenced clinical study	GBS Phase 2:  Outcome of comparative efficacy analysis Genethon Crigler-Najjar Phase 1/2: Initiate clinical study with imlifidase prior to GNT-0003 HNSA-5487 (Lead NiceR candidate): Further analysis around endpoints to be completed in 2024 incl. lead indication U.S. ConfldeS (Kidney tx) Phase 3: Complete randomization Sarepta imlifidase in phase 1b in DMD: First high level data read-out from phase 1b	U.S. ConfideS (Kidney tx) Phase 3:     BLA submission     Anti-GBM disease Phase 3:     Complete enrolment

# **Company overview**







# Hansa Biopharma today

A successful track record and a promising future...



## A validated technology

- Commercial stage biotech company
- Approval in kidney transplantation (EU)
- Market Access in 14 European markets
- PoC in autoimmune diseases
- Three partnerships in gene therapy



## **Broad clinical pipeline**

- Imlifidase being investigated in seven ongoing clinical programs in transplantation and autoimmune disease
- Ongoing clinical study in gene therapy
- HNSA-5487: Encouraging data from phase I first-in-human trial



15

## Skilled and experienced team

- A high-performance organization with 20 years on average in life science
- Purpose driven culture
- Headquartered in Lund, Sweden (166 employees)
- Operations in both EU and the US



## **Financial position**

- Hansa is financed into 2026.
- Market cap (USD): ~170m (April 2023)
- Listed on Nasdaq Stockholm
- 20.000 shareholders
- Foreign ownership make up ~48%

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# We are building a global leader in rare diseases

## **Today**

We are launching our first commercially approved product for enablement of kidney transplantation in Europe\*

#### **Tomorrow**

We envision a world where patients with rare immunologic diseases and conditions can lead long and healthy lives



# Hansa Biopharma's history



#### 2. Clinical development

2013

After the first-in-man study in 2013. Hansa has completed four Ph. II studies since 2014. Additionally Hansa has ongoing and completed trials in anti-GBM disease. AMR. GBS and ANCA-associated vasculitis. In 2019 a MAA was submitted for imlifidase in kidney transplantation.

The EU Commission grants conditional approval for Idefirix® in highly sensitized kidney transplant patients in Europe

Hansa Biopharma enters the gene therapy space through partnership agreement with Sarepta Therapeutics to develop imlifidase as a pre-treatment to enable gene therapy in seropositive patients

...... 2020 2021 2022

Provisional approval received in Australia: Marks first time Idefirix has been approved in both living and deceased donors

Market access secured in 13 countries

board

Commercialization

#### 1. Turning foe into friend

The therapeutic potential in using a bacterial enzyme with specificity for IgG-antibodies, to neutralize pathogenic antibodies was discovered around 2006. The original enzyme, IdeS, has been developed by Streptococcus pyogenes over thousands of years and by transferring a majority of the IdeS coding nucleotide into harmless E. colibacteria, the IgG-cleaving part of the IdeS molecule can be expressed and purified, resulting in the Hansa Biopharma drug imlifidase, i.e., turning a former foe to a friend.



kidney

transplantation

#### 3. Commercialization

In august 2020, Hansa received conditional approval for Idefirix (imlifidase) in kidney transplantation. Additionally, Hansa entered into the gene therapy field through a commercial partnership with Sarepta Therapeutics. Thus far, Hansa achieved market access in 13 European markets including the five largest markets. Market access procedures are ongoing in additional countries.

Hansa Biopharma enters collaborations with Medison (commercial). NewBridge (commercial), AskBio and Genethon (both gene therapy)

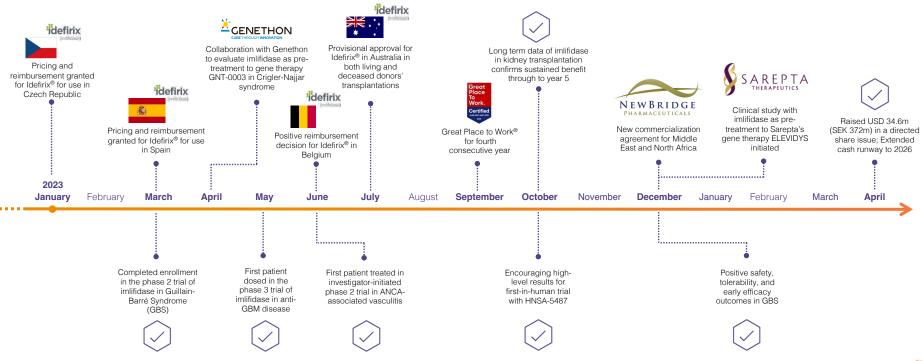








# Key milestones achieved during the last 15 months





# **Imlifidase**



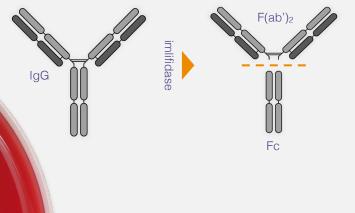


## Origins from a bacteria Streptococcus pyogenes

- Species of Gram-positive, spherical bacteria in the genus Streptococcus
- Usually known from causing a strep throat infection

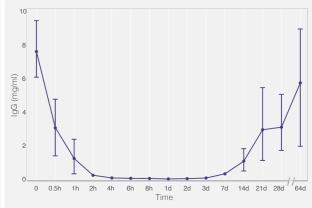
## A unique IgG antibody-cleaving enzyme

- Interacts with Fc-part of IgG with extremely high specificity
- Cleaves IgG at the hinge region, generating one F(ab')2 fragment and one homo-dimeric Fc-fragment



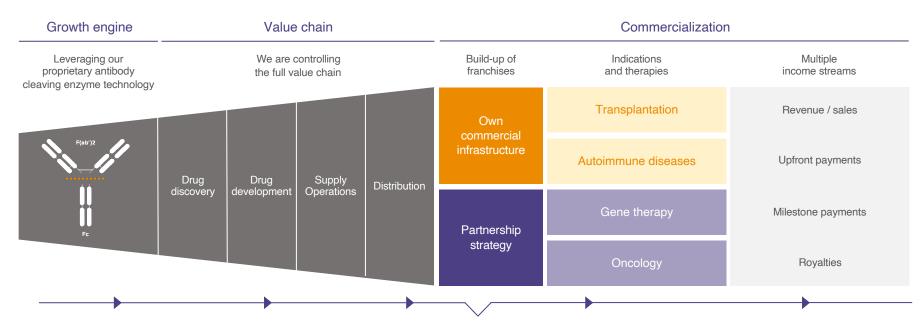
### **Inactivates IgG in 2-6 hours**

- Rapid onset of action that inactivates IgG below detectable level in 2-6 hours
- IgG antibody-low window for approximately one week



# **Our Business model**

Leveraging our technology platform to develop new therapies targeting rare diseases with unmet medical need across a range of indications



Evolution into a fully integrated biopharmaceutical company



#### Gene therapy pre-treatment **Potential indication universe** (partnership opportunities) Transplantation and post transplantation (Own commercial infrastructure in EU/US) **Autoimmune** Pompe indications Heart Lung (LGMD) Other Lung First generation antibody Kidnev\*; **AMR** cleaving enzyme technology Obtained EU conditional approval\*,\*\* HNSA-5487 Heart First generation our lead antibody AMR Clinical program Gene therapy cleaving enzyme antibody-cleaving candidate for Potential opportunities enzyme technology repeat dosing Partnership Preclinical program (Sarepta Therapeutics, AskBio, and Genethon) Anti-GBM DSA+ HSCT Oncolytic virus repeat dosing Acute autoimmune diseases New therapies (Own commercial infrastructure in EU/US) \*) The EU Commission has granted conditional approval for imlifidase in highly sensitized kidney transplant patients. \*\*) In the US a new study has commenced targeting a BLA filing in 2025



# **Key strategic priorities**



Commercialize Idefirix<sup>®</sup> in first indication and markets



- Successfully launch Idefirix<sup>®</sup> in Europe
- Secure FDA approval and launch Idefirix<sup>®</sup> in the U.S.
- Geographical expansion



Advance our ongoing clinical programs



- Achieve approval/ usage of imlifidase in follow-on indications
- Broaden the Idefirix® label beyond kidney transplantation



Expand our IgG-cleaving enzyme technology



- Expand our IgGcleaving enzyme technology platform into gene therapy
- Develop our next gen IgG-cleaving enzymes for repeat usage

# Our culture is driven by people passionate about making changes





# Purpose driven culture

Helping patients with rare diseases serves as a **strong purpose** for our colleagues to **go the extra mile** 



# Diverse and international

~45%

Internationals across ~35 nationalities

~55/45

Male/female gender split in the leadership team



# Skilled and experienced team

>50%

With relevant PhD in R&D

# ~20 years\*

of life science experience on average from Big Pharma, Biotech and Academia

ers Management, R&D, and Commerc.



# **Motivated** workforce

For fourth consecutive year Hansa is certified as a **Great Place to Work**® with **100%** participation rate in the survey



# **Experienced Board and Executive Committee**

Extensive experience from the global healthcare industry

#### **Executive Committee**



Søren Tulstrup President & CEO (2018) +30 years in the Healthcare sector Fx-CFO at Vifor Pharma Ex-SVP at Shire Pharmaceuticals Ex-CEO at Santaris Pharma Shareholding: 50,347



Hitto Kaufmann CSO (2023) +20 vears in R&D Ex-CSO at Pieris Pharmaceuticals Ex-Head of Strategy and Operations at Sanofi Shareholding: 0



Evan Ballantvne SVP & CFO (2024) +30 years in the life science sector Ex-CFO at Gain Therapeutics, OncXerna Therapeutics, and Orchestra BioMed Shareholding: 0



Achim Kaufhold SVP & CMO (2020) +40 years in the Healthcare sector Ex-CMO Basilea Pharmaceutica Ex-CEO Affitech (merged with Pharmexa Ex-CMO Chiron (acquired by Novartis) Shareholding: 8,800



Matthew Shaulis CCO & US President (2023) +20 years in the Healthcare sector Ex-SVP Global Commerical and Medical Go-To-Market model transformation at Pfizer Inc. Shareholding: 0



Anne Säfström Lanner SVP & CHRO (2019) Ex-Head of HR European Spallation Source Fx-Head of HR Cellavision Shareholding: 7,273

#### **Board of Directors**



Chairman (2022) +30 years in the Healthcare sector Chairman of Tunstall Healthcare, Sciensus & Versantis Held senior executive roles at Baxter, Bayer, Novartis & Bristol-Myers Squibb



Board Member (2021) COO at Valo Health (US). Chief Regulatory Officer & Head of Global Regulatory Affairs at Sanofi (2013-2019) SVP & Head of Worldwide Regulatory Strategy at Pfizer (2009-2011)

Hilary Malone

Shareholding: 0

Eva Nilsagård



Anders Gersel Pedersen Board Member (2018) +30 years in the Healthcare sector Fx-FVP R&D H.I undbeck Chairman of Hansa Biopharma's Scientific Committee

Shareholding: 2.500



Board Member (2019) Board member of several companies, e.g. Addlife, Bufab, Irras, Xbrane Ex-CFO of Vitrolife and Plasta



Shareholding: 3.000



Mats Blom Board Member (2019) CFO of NorthSea Therapeutics Ex-CFO Zealand Pharma Member of Hansa Biopharma's Audit Committee Shareholding: 1,000

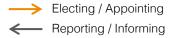


**Andreas Eggert** Board Member (2018) Fx-SVP at H. Lundbeck A/S Ex-VP Wveth/Pfizer in the U.S. Member of Hansa Biopharma's Audit Committee and Renumeration Committee Shareholding: 5.500



# Hansa Biopharma's Governance Structure





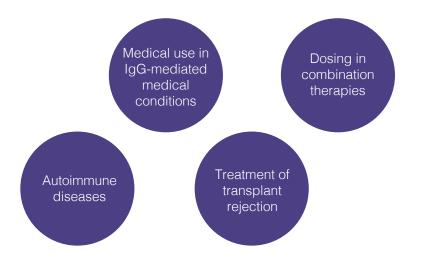


# Strong technology protection through patents and orphan drug designations



## Patent coverage out to 2035 in key markets

- Our lead product, imlifidase, is protected by six patent families including both granted patents and pending applications and cover the use of imlifidase
- Patents cover use of imlifidase at least in:



## **Orphan drug designation**

- Orphan drug designation is granted to drugs intended for rare diseases (affecting max 5 patients in 10,000 persons in EU or affecting less than 200,000 patients in the US)
- The designation provides development and commercial incentives, including ten years of market exclusivity in the EU and seven years in the U.S., protocol assistance on the development of the drug, including clinical studies and certain exemptions from or reductions in regulatory fees

# Orphan drug designation & marketing authorization **EMA/EC** Orphan drug designation

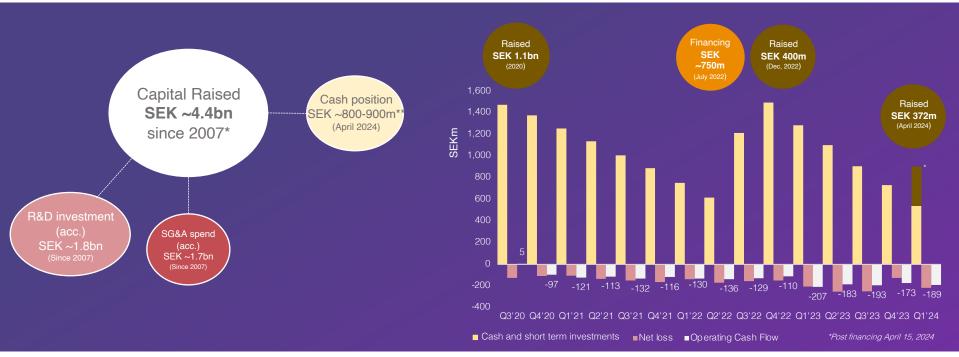
# **FDA**

#### Orphan drug designations



# Hansa Biopharma is financed into 2026

Financing to support the continued development of Hansa's antibody-cleaving enzyme technology platform and commercial preparations toward regulatory approval in the U.S.



<sup>\*</sup>Including SEK ~750m from NovaQuest financing agreement & SEK



<sup>~100</sup>m upfront payments from Sarepta

<sup>\*\*</sup> Cash post Q1 2024 plus equity raise in April before transaction cost

# **Mid-term financial priorities**

Our key financial priorities over the coming years will be focused on ensuring a successful European launch of Idefirix®, while targeting mid-term product profitability

With the recent financing Hansa is fully financed into 2026 We expect to use our current cash position to:

SEK ~800-900m\*

(USD ~80-90m)

in cash and short-term investments post recent financing

Fund the commercialization of Idefirix® in Europe and the preparations for a potential launch in the U.S.

Complete our EU post-approval commitments and patient enrollment in our ConfldeS study

Advance our R&D pipeline through achieve approval/usage of imlifidase in followon indications and broaden the Idefirix label beyond kidney transplantation

Advance our next generation enzymes (HNSA-5487) in the clinical as well as our initiatives in our other indications such as gene therapy and oncology

Fund working capital and general corporate purposes

\*Cash of SEK 541m end of March 2024 and SEK 372m raise before transaction as per April 12, 2024



# HANSA.

# Strategic plan to build U.S. presence ahead of potential regulatory approval and commercial launch of imlifidase in the US

## Three shots on goal to enter important US market







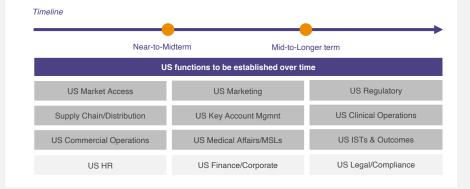
US pivotal phase 3 study in kidney transplantation

Pivotal phase 3 study in anti-GBM disease

Pre-treatment to SRP-9001 in Gene Therapy (DMD)

### Critical functions to be established

- Small and agile team with deep clinical and U.S. marketplace expertise
- Comprehensive functional coverage with dedicated U.S. based and experienced team members
- Strength of global strategy and key global functions





# An exciting journey ahead!

This is just the beginning!

- Clinical validation
- External validation
- Regulatory validation
- Validated manufacturing
- Strong IPR
- Exciting pipeline
- Strong team

## Key milestones to be achieved

- Expand Idefirix® label in transplantation and in other solid organs
- Expand our platform and obtain regulatory approval in indications beyond kidney transplantation
- Advance our lead second generation molecule HNSA-5487 successfully through phase 1 and identify lead indication area
- Expand partnerships in gene therapy
- Advance imlifidase as pre-treatment into Limb-Girdle, Duchenne, Pompe Disease and Crigler-Najjar syndrome in gene therapy
- Show PoC in new indications
- · Advance potential combination treatment into the clinic

#### **Our future**

Hansa Biopharma is a recognized global leader in rare diseases across multiple broad therapeutic areas with several market leading products and a highly valuable pipeline of latestage drug candidates



# Imlifidase in kidney transplantation



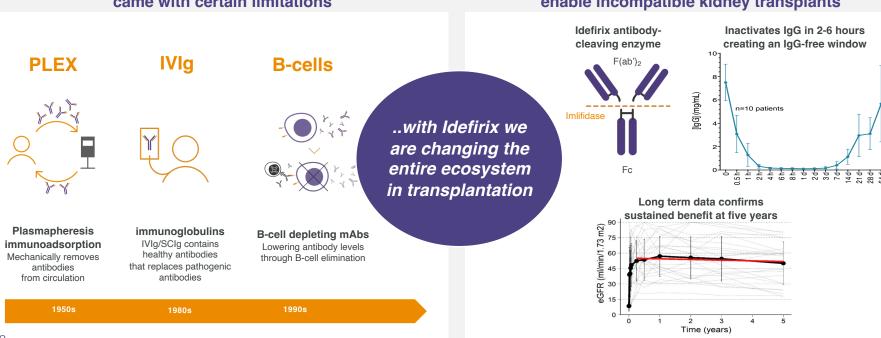


# The long-term market uptake of Idefirix is highly dependent on successful early experiences in patients



For decades, medical practice (SoC) in transplantation has been predicated on compatibility as modalities came with certain limitations

Idefirix addresses the limitations of these other modalities and is the first and only approved drug to enable incompatible kidney transplants



# Idefirix® is the first and only approved drug in Europe for desensitization of highly sensitized kidney transplant patients



Inability to match or effectively desensitize patients remains a barrier for transplantation in highly sensitized patients. Between 80,000 and 100,000 kidney transplant patients are waiting for a new kidney in both Europe and the U.S.

transfusion

Low complexity transplants High complexity transplants Calculated Panel Reactive Antibodies (cPRA) is a measure for HLA-sensitization ~70% of patients1,2 15-20% of patients<sup>1,2</sup> 10-15% of patients<sup>1,2</sup> Moderately sensitized Non or less sensitized Highly sensitized (cPRA < 20%) (20% < cPRA < 80%) (cPRA > 80%)Addressable market (annually) Causes of sensitization include 4,000-6,000 split across Europe and the US **Patients** Patients that unlikely to be are likely to be transplanted transplanted with a under current prioritization compatible programs donor **Previous** Pregnancy Blood

transplantations

<sup>&</sup>lt;sup>1</sup> EDQM. (2020). International figures on donation and Transplantation 2019

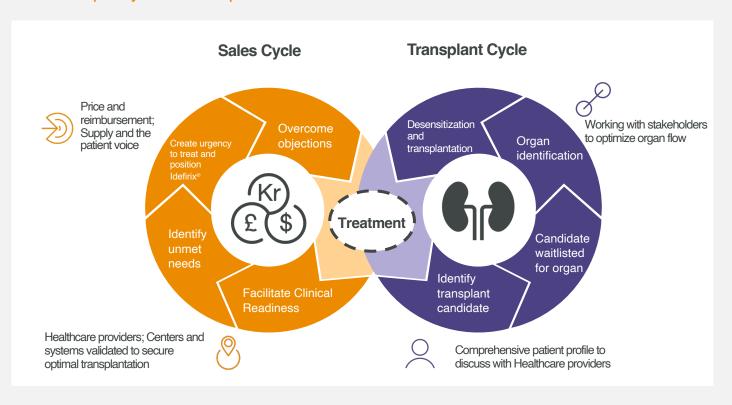
<sup>&</sup>lt;sup>2</sup> SRTR Database and individual assessments of allocation systems

# The unique market position of Idefirix® requires consideration of both the sales- and the transplant cycle



Sales and transplant cycle adds complexity and time to patient treatment

# Excellence revolves around four strategic themes **Market** Access Clinical readiness Organ allocation **Patient** selection and treatment



# **Encouraging patient outcome in new markets** following imlifidase-enabled kidney transplantations







First living donor transplantation in **Australia enabled by** imlifidase was carried out in a 64-year-old highly sensitized male patient (cPRA 99.8)

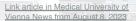
The patient had been waitlisted for more than 4 years and received two incompatible kidney offers previously





51-year-old highly sensitized male patient transplanted at the **University Hospital Vienna** following graft loss 20 years after receiving a kidney from his father

The patient had been on dialysis for four years with deteriorating kidney function









43-year-old highly sensitized female kidney transplant patient was transplanted at University **Hospital of Padua after** being on dialysis for almost 14 years and experiencing one graft loss

This transplantation was the first imlifidase-enabled kidney transplantation in Italy

Link article Veneto.it from December 14, 2022

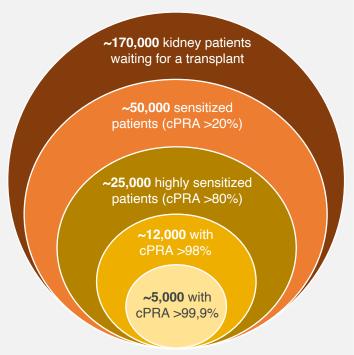
Link article in The Age from

# Only 1 in 4 patients are offered access to a lifesaving transplantation



#### Up to 15% of patients are highly sensitized

Breakdown of the kidney transplant waitlist in U.S. and EU



## ~50,000 transplantations done annually in Europe and the U.S.



Market Access obtained in 14 markets covering markets with 3/4 of transplant volumes in Europe

HTA processes running in 11 countries including Portugal, Switzerland

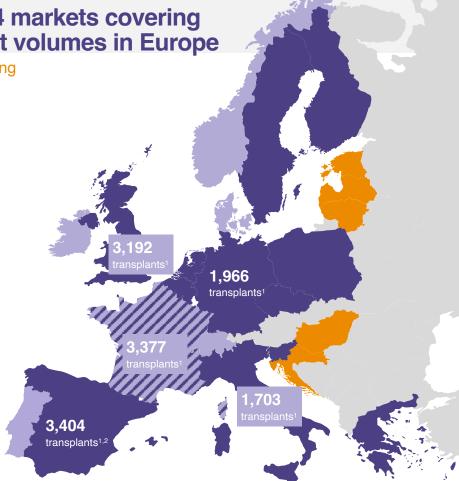
Health Technology Assessments (HTA) dossiers submitted

Reimbursed Early Access Program

Pricing & reimbursement obtained (country or clinic level)

Territories covered commercially by Medison Pharma

Transplantation, <a href="https://www.transplant-observatorv.org/">https://www.transplant-observatorv.org/</a> (Accessed 2023-07-10]
2 positive recommendation for pricing and retimbursement of Idefinix® in Spain was published on February 6, 2023, https://www.sanidad.gob.es/profesionales/flamacai.pdf/20230022\_ACUERDOS\_CIPM\_230.pdf



Israel

<sup>&</sup>lt;sup>1</sup> Annual kidney transplantations 2022. Transplantation data is from Global Observatory on Donation and

# Scaling Idefirix® globally as we transform the desensitization treatment landscape and advance a new way of transplanting patients



Build the foundation for Idefirix®

Commercialize in early-launch countries

- Secure Market Access in key markets
- Ensure clinical readiness/KOL engagement
- Implement medical guidelines (ESOT and country specific guidelines)
- Increase awareness on unmet need
- Initiate post approval study in Europe
- Support patient and organ access

Expanding internationally

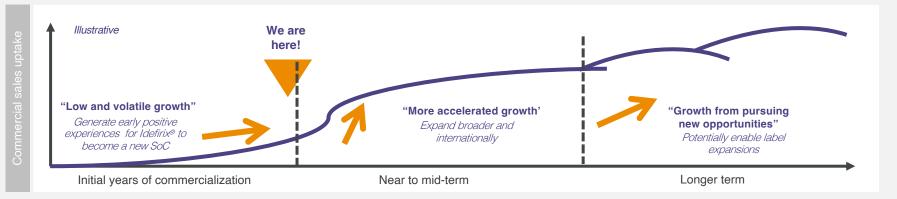
Leverage experience to scale Idefirix in Europe

- Secure FDA approval and launch in the U.S.
- Geographical expansion beyond core markets
- Full marketing authorization in Europe

3 Potential label expansion

Potentially expand into living donor transplantation

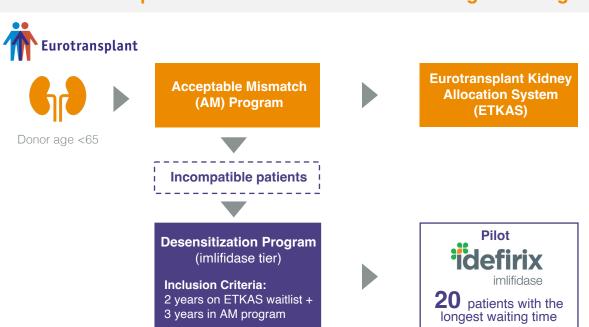
Potentially expand into other solid organs





# **Eurotransplant Desensitization Program set to transform desensitization across eight European membership countries**

First patient treated in the new Eurotransplant Desensitization Program; Second wave of patients identified for treatment through the Program





# Completed and ongoing studies in kidney transplantation





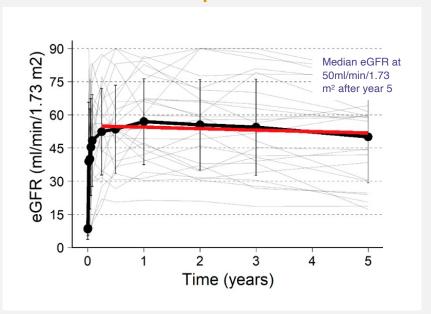
# Long term data confirms sustained benefit at five years in graft survival and overall patient survival



### Results is a continuation of the 3-year data

- After 5 years graft survival (death censored) was 82%, in line with outcomes seen at 3-years post-transplant
- Patient survival rate was 90%<sup>1</sup>
- At five years kidney function measured by mean estimated glomerular filtration rate (eGFR) was 50 ml/min/m<sup>2</sup> at year 5
- The 5-year data is a continuation of the analysis at 3years of crossmatch positive patients published in the *American Journal of Transplantation*
- Further data from extended pool analysis expected in 2024

# Stable long-term outcomes on graft survival and patient survival



<sup>&</sup>lt;sup>1)</sup> Three deaths occurring between six months and one year, and no deaths occurring between one and five years (not related to imlifidase)

# Strong momentum in ConfldeS trial: More than 20% increase in activated sites during Q1 will accelerate randomization

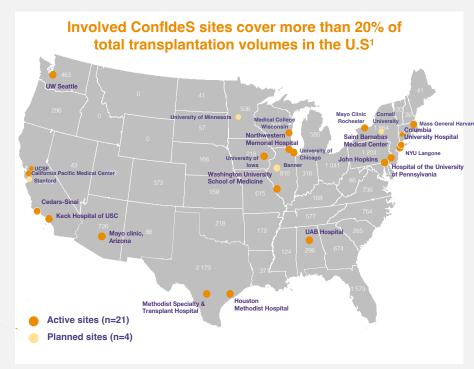


ConfideS phase 3 trial will further advance potential for imlifidase to address unmet need in desensitization

# U.S. ConfldeS

Phase 3

- Continue enrollment beyond 64 patients
- Currently 122 patients screened and enrolled
- 49 out of 64 targeted patients randomized
- Four additional clinics activated in Q1, increasing to total number of recruiting clinics to 21 sites to accelerate randomization
- Randomization expected to complete mid-2024
- BLA filing in 2025



# Imlifidase may complement the US Kidney Allocation System, as thousands of patients are still unlikely to find a match



### Factors impacting the KAS score<sup>1</sup>

- Waiting time
- Age
- Transplantation history
- Sensitization (cPRA score)
- Distance and recipient
- Quality of donor kidney (KDPI)

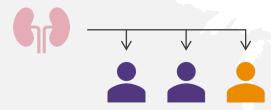


KAS gives patients points with regards to levels of sensitization, increasing the likelihood of finding a match for sensitized patients



Transplantation of highly sensitized patients has increased since the introduction of KAS.

However, thousands of patients are still unlikely to find a match



## Highly sensitized patients are less likely to find a matching organ from a deceased donor through KAS

		cPRA%	Est. no. of organs to find match <sup>2</sup>	Estimated number of patients on waitlist (U.S) <sup>3</sup>	
Degree of sensitization	Less or moderate	0-20	1-2	~66,000	
		20-80	2-14	~16,000	
	Highly sensitized	80-98	14-300	~5,000	
		98-99.9	300-3,000	~3,500	
		>99.9	3,000-300,000	~2,500	



If approved, Idefirix® may address highly sensitized kidney transplant patients, who are incompatible to a deceased donor in the US Kidney Allocation System

<sup>1</sup> OPTN, https://optn.transplant.hrsa.gov/media/1200/optn\_policies.pdf

<sup>&</sup>lt;sup>2</sup> p=95%, Clinical Journal of the American Society of Nephrology, 2016

<sup>&</sup>lt;sup>3</sup> Company estimates, OPTN and Global Observatory on Donation and Transplantation

# U.S. ConfldeS study: Potential to disrupt transplantation care in the U.S. with imlifidase

### U.S. trial design

64 highly sensitized kidney patients with the highest unmet medical need

- Patients with a cPRA score of ≥99.9% will be enrolled
- First patients enrolled at Columbia University, NYC
- 122 patients enrolled across 21 sites with 49 of targeted 64 patients randomized
- 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

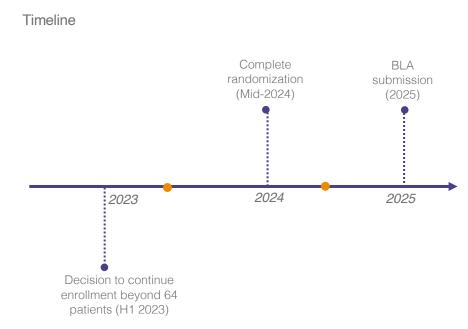
- Mean estimated glomerular filtration rate (eGFR) "kidney function" at 12 months.
- For randomized patients who do not undergo transplantation, lose their graft or die before 12 months. eGFR will be set to zero, consistent with kidney failure

### Secondary endpoint

Patient survival at 12 months

Up to 25 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





<sup>\*</sup>Experimental desensitization treatment can include any combination of plasma exchange (PLEX), intravenous IVIg, anti-CD20 antibody, and eculizumab. Link to the full protocol at ClincalTrials.gov



### Idefirix receives provisional approval in Australia

First market to approve use in transplants from both living and deceased donors

### **Transplant statistics**

~15,200 patients suffer from ESRD and need dialysis

**1,338** waitlisted for deceased donors in 2021

~21% of patients on waitlist have a cPRA score of 95 or higher

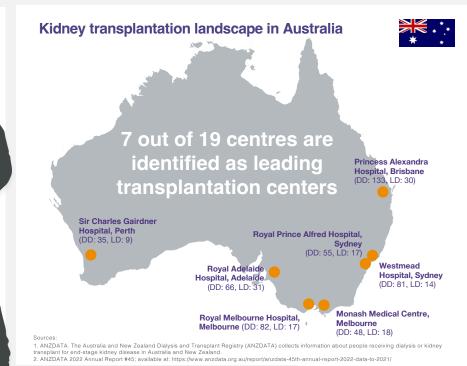
**76/24** deceased vs living donor transplantations

### First living donor transplantation

First living donor transplantation in Australia enabled by imlifidase was carried out in a 64year-old highly sensitized male patient (cPRA >99.8)

The patient had been waitlisted for more than 4 years and received two kidney offers previously

Link article in The Age from November 5, 2023



# First patient treated in post-authorization efficacy study (PAES) of Idefirix® (imlifidase) in highly sensitized kidney transplant patients

The study will provide further important insights regarding Idefirix® desensitization treatment of highly sensitized kidney transplant patients

### An open-label Phase 3 study in 50 patients

- First patient was treated by Dr. Oriol Bestard, Chair of Nephrology and Kidney Transplantation at Vall d'Hebron University Hospital in Barcelona
- Ongoing enrollment ~72% into completion end of Q1'24
- The study is an obligation under the conditional marketing authorization for Idefirix® granted by EMA in August 2020, in order to complete a full marketing authorization in the EU. Study is expected to be complete by the end of 2025
- The aim will be to confirm the long-term efficacy and safety of Idefirix® with the primary objective to determine the one-year graft failure-free survival of the Idefirix® treated and transplanted patients.
- In addition, a total of 50-100 patients undergoing compatible kidney transplantation at the participating centers will be included and serve as a non-comparative concurrent reference cohort, with no formal comparison, to contextualize the one-year graft failure-free survival of the Idefirix® treated patients





NCT01802697 (2013/2014)

#### **SUBJECTS**

29 (20 active plus 9 placebo) health subjects (Sweden)

### DOSES/FOLLOW UP TIME

The starting dose was 0.01 mg/kg BW and the highest dose group received 0.24 mg/kg BW

#### MAIN OBJECTTIVES

 The objectives were to assess safety, efficacy in IgG cleavage, pharmacokinetics and immunogenicity of imlifidase following intravenous administration

#### STUDY DESIGN

 Randomized placebo-controlled dose-escalation study with 29 (2 active plus 9 placebo) healthy subjects

#### STATUS

#### Campalatad

 The 01 study showed that Imlifidas was considered safe to use 47

### The 01 study results

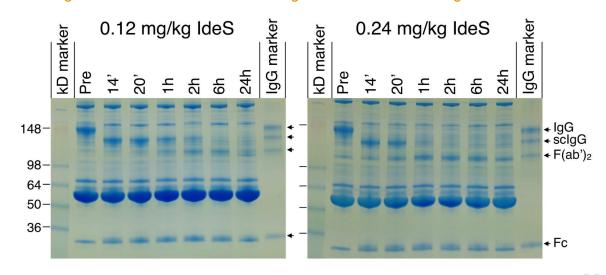
Data showed complete removal of IgG and a good tolerability profile

Efficacy

✓ Rapid degradation of IgG in serum in subjects dosed with 0.12 and 0.24 mg/kg imlifidase. Imlifidase had full effect within 6 hours. The entire IgG pool was converted into F(ab')<sub>2</sub> and Fc-fragments. Maximal effect was accomplished 2-6 hours after dosing.

Safety

✓ Newly synthesized intact IgG was clearly detectable in all subjects after 1-2 weeks after dosing. After 3 weeks the level of intact IgG constituted the main IgG fraction in serum





NCT0222482

### **SUBJECTS**

8 Patients with chronic kidney disease (Sweden)

### DOSES/FOLLOW UP TIME

0.12 & 0.25 mg/kg BW given once or twice within 48 hours

#### MAIN OBJECTTIVES

- Efficacy defined as Imlifidase dosing scheme resulting in HLA antibody levels acceptable for transplantation, within 24 hours from dosing
- Safety

#### STUDY DESIGN

- Single-center, Single arm with
- ascending doses, open-label
- Halispianiation not part of protoct

### **STATUS**

#### Completed

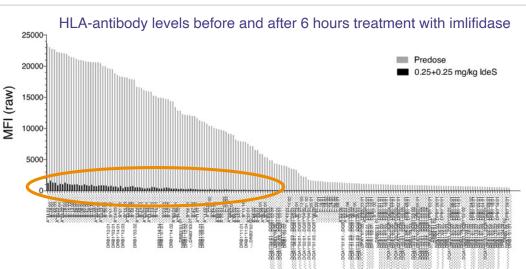
- Primary efficacy endpoint reache
- · Sale allu well toleratet

### 48

### The 02 study results

Data showed that 1-2 doses of imlifidase at 0.25 mg/kg BW resulted in HLA antibody levels acceptable for transplantation<sup>1</sup>

- ✓ Imlifidase is well tolerated in patients with chronic kidney disease
- ✓ Efficacy results strongly support further development in the patient population
- ✓ The first HLA-incompatible transplantation ever after desensitization with imlifidase was performed in one of these patients (2014)



HANSA BLODHARMA



NCT0247555

### **SUBJECTS**

10 Patients (Sweden

### DOSES/FOLLOW UP TIME

0.25 and 0.50 mg/kg during 180 days

### MAIN OBJECTTIVES

- · Safety in the transplantation setting
- Efficacy defined as HLA antibody levels acceptable for transplantation

### STUDY DESIGN

- Single-center, single-arm, openlabel, no prior desensitization
- Similar design as 13-HMedIdeS-02 but transplantation part of protocol
- In deceased and living donors

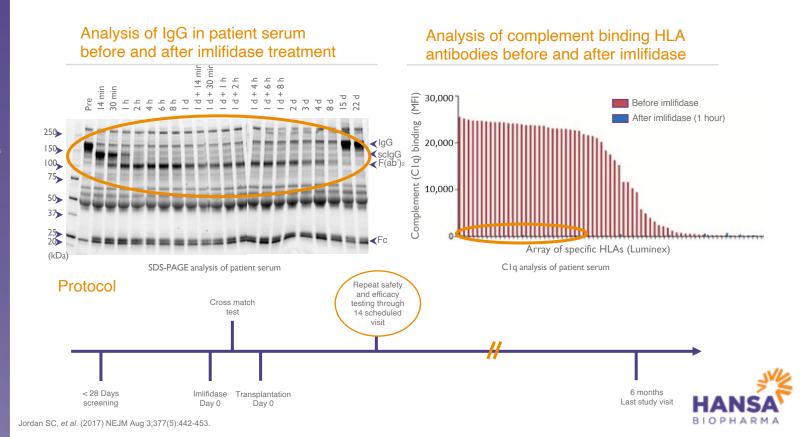
### **STATUS**

#### Completed

 Proofed safety and efficacy with HLA antibodies at acceptable levels; enabling transplantation i all patients

## The 03 study proved safety and efficacy

HLA antibodies at acceptable levels; enabling transplantation in all patients





NCT024226684

#### **SUBJECTS**

17 Patients (US)

#### DOSES/FOLLOW UP TIME

0.24 mg/kg 180 days

### MAIN OBJECTTIVES

- Safety in combination with Cedars Sinai's "standard protocol" for desensitization of highly sensitized patients
- · Efficacy in preventing AM

### STUDY DESIGN

- Investigator initiated study
- Investigator sponsored INE
- Imilifidase to desensitize patient previously treated with rituximal and IVIa
- Deceased donors on

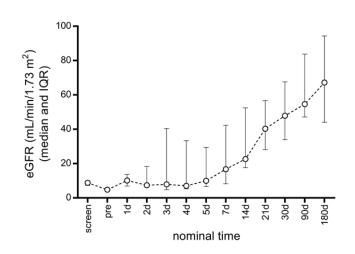
#### STATUS

Completed

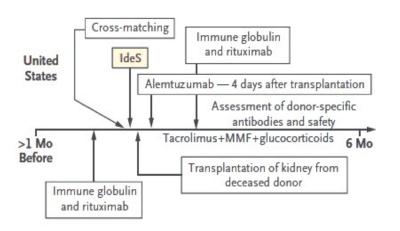
### The 04 study results

Study proved safety and efficacy with Cedar Sinai's standard protocol (rituximab and IVIg)

### Graft function (eGFR) post six months



# Cedar's desensitization protocol in combination with imlifidase







NCT02790437

#### SUBJECTS

18 Patients (US+Sweden+France)
19 safety set, 18 efficacy set

### DOSES/FOLLOW UP TIME

0.25 mg/kg 180 days

### MAIN OBJECTTIVES

Efficacy in creating a negative crossmatch test

### STUDY DESGIN

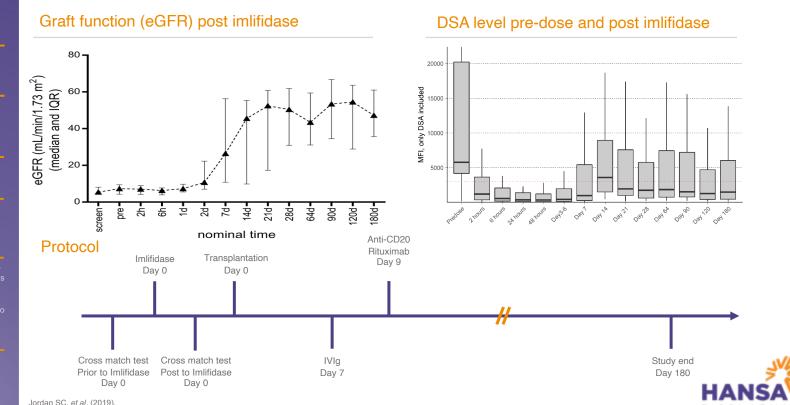
 Multicenter, multinational, singlearm, open-label Included patient who may have had prior unsuccessful desensitization or patients in whom it was unlikely the offective

### STATUS

Completed

### The 06 study results

Study showed proved safety and efficacy in making highly sensitized patients eligible for kidney transplantation



Results from the international phase II study on the safety and efficacy of imlifidase in highly-sensitized kidney transplant patients. Abstract presented at ATC.

## Completed studies with imlifidase in transplantation



STUDY	SUBJECTS/ COUNTRY	STUDY DESIGN	PRIMARY ENDPOINT	SECONDARY ENDPOINTS	STATUS/ PUBLICATION
Study 01 Phase 1	29 subjects	<ul> <li>Randomized placebo-controlled dose- escalation study with 29 (20 active plus 9 • placebo) healthy subjects</li> </ul>	Safety and tolerability	<ul> <li>Efficacy in IgG cleavage, the pharmacokinetics (PK) and immunogenicity of imlifidase</li> </ul>	Complete PLOS ONE (2015) <sup>1</sup>
Study 02 Phase 2	8 subjects	Single-center, single-arm, open-label	Dosing resulting in HLA-antibody reduction (MFI<1100)	Efficacy: HLA antibody reduction acceptable for transplantation (MFI <1100 as measured in SAB assay)	Complete Lorant et al (2018) American Journal of Transplantation <sup>2</sup>
Study 03 Phase 2	10 subjects	<ul> <li>Single-center, single-arm, open-label</li> <li>No prior desensitization</li> </ul>	Safety: AEs, clinical laboratory tests, vital signs, ECGs	Efficacy: HLA antibody reduction acceptable for transplantation (MFI <1100 as measured in SAB assay)	Complete The New England Journal of Medicine (2017) <sup>3</sup>
Study 04 Phase 2	17 subjects	<ul> <li>Investigator initiated study, Single-center, single-arm, open-label</li> <li>All patients had prior desensitization with IVIG and/or plasmapheresis</li> </ul>	Assessment of efficacy in eliminating DSAs in DSA and flow cytometry positive, highly sensitized patients Assessment of safety Assessment of efficacy/kidney function	<ul> <li>Serum creatinine (0-6 months)</li> <li>Proteinuria (0-6 months)</li> <li>DSA at multiple timepoints posttransplant (day 0, D30, D90, D180)</li> </ul>	Complete The New England Journal of Medicine (2017) <sup>3</sup>
Study 06 "Highdes" Phase 2	18 subjects	Multicenter, multinational, single-arm, open-label Included pts who may have had prior unsuccessful desensitization or pts in whom it was unlikely to be effective	Crossmatch conversion in DSA+ patients who have a positive XM test to their available LD or DD	<ul> <li>DSA reduction at multiple timepoints (2, 6, 24, 48 h after imlifidase)</li> <li>Time to create negative CDC XM test and/or flow cytometry (FACS) XM test</li> <li>Safety</li> </ul>	Complete Annals of Surgery (Lonze et al, only New York patients) Montgomery et al ATC abstract (2019) <sup>4</sup>
Long-term follow-up study	Up to 46 subjects	A prospective, observational long-term follow-up study of patients treated with imlifidase prior to kidney transplantation	Long-term graft survival in patients who have undergone kidney transplantation after imlifidase administration	<ul> <li>Patient survival, kidney function, comorbidity, treatments and QoL</li> <li>Safety</li> <li>DSA</li> <li>Immunogenicity</li> </ul>	Ongoing Long term data confirms benefit through to year 5 (Oct. 2023)

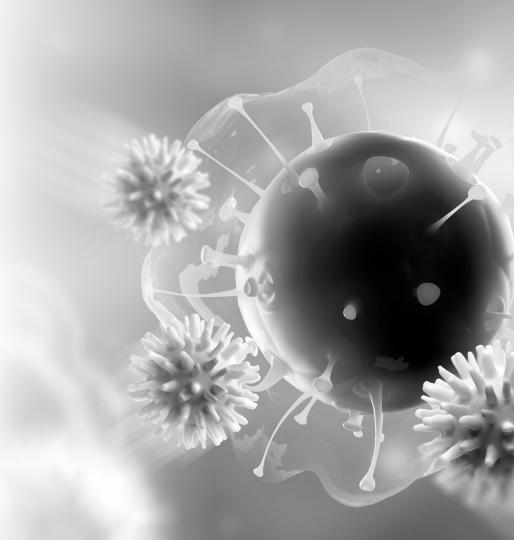
<sup>1</sup> Winstedt et al., "Complete Removal of Extracellular IgG Antibodies in a Randomized Dose Escalation Phase I Study with the Bacterial Enzyme IdeS – A Novel Therapeutic Opportunity", PLOS ONE 2015, 10(7) 2 Lorant et al., "Safety, immunogenicity, pharmacokinetics and efficacy of degradation of anti-HLA antibodies by IdeS (imilifidase) in chronic kidney disease patients" Am J Transplant. 2018 Nov;18(11):2752-2762

Lorant et al., "Sately, immunogenicity, pnarmacokinetics and efficacy or degradation or arti-HLA antibooles by lose (imilitade) in corronic kidney disease patients. Am J transpiant. 2018 Nov; 18(11):275-276.
 Jordan et al., "ligG Endopeptidase in Highly Sensitized Patients Undergoing Transplantation", N. Engl J Med 2017;774-42-53.

Johanner al., 19d Endopenidase in Ingliny Sensingue Patients ondergoing Interpretable I

# Our antibody cleaving enzyme technology





# Broad clinical pipeline in transplantation, autoimmune diseases, and gene therapy





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

Complete





Planned

Post approval study running in parallel with commercial launch

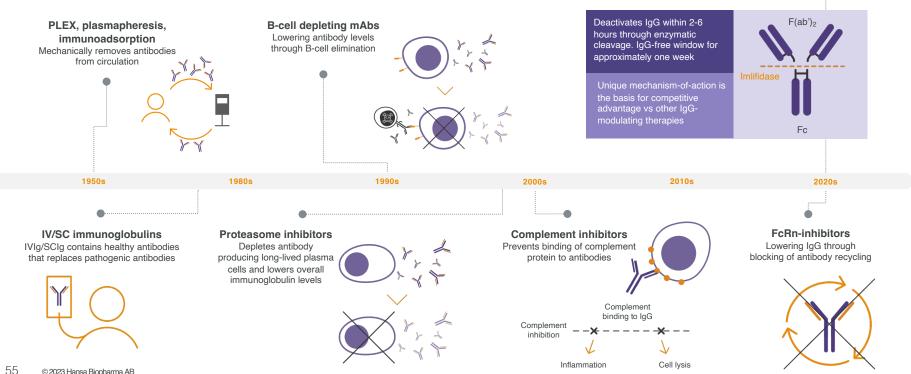
<sup>&</sup>lt;sup>2</sup> Lorant et al., American Journal of Transplantation and 03+04 studies (Jordan et al., New England Journal of Medicine)
<sup>3</sup> Investigator-initiated study by Dr. Adrian Schreiber and Dr. Philipp Enghard, at Charité Universitätsmedizin, Berlin, Germany



Imlifidase - IgG-cleaving enzyme

### **Development of IgG-modulating technologies**

### Mechanisms can be both complementary and competing

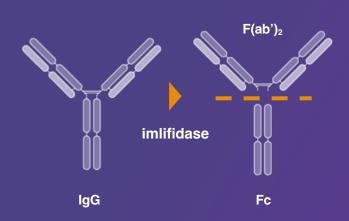


### Imlifidase mode of action

Novel approach to effectively eliminate pathogenic IgG

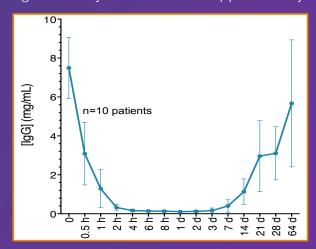
### Proven mechanism of action

- Interacts with Fc-part of IgG with extremely high specificity
- Cleaves IgG at the hinge region, generating one F(ab')2 fragment and one homo-dimeric Fc-fragment



### Inactivation of IgG in human serum

- Rapid onset of action that takes down IgG below detectable level in 2-6 hours post 15 min infusion
- IgG antibody-free window for approximately one week





# Our unique antibody cleaving enzyme technology may have relevance across a range of indications



### **Targeting rare IgG mediated diseases**



### **Auto-immune diseases**

Anti-GBM disease paves the way for development in other autoimmune diseases

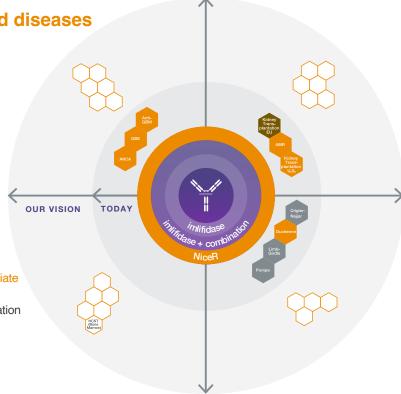
- Rapidly progressive glomerulonephritis
- Neurological disorders
- Skin and blood disorders



### **New therapies**

IgG-cleaving enzymes to enable or even potentiate cancer therapy

 Allogenic stem cell (bone marrow) transplantation (HSCT)





### **Transplantation**

Shaping a new standard for desensitization will help enable new indications in transplantations

- Antibody mediated rejection (AMR) in kidney transplantation
- Other transplantation types



### Gene therapy

Exploring opportunities in gene therapy

- Encouraging preclinical data published in Nature
- Validation through collaborations with Sarepta, AskBio, Genethon
- Wide indication landscape beyond

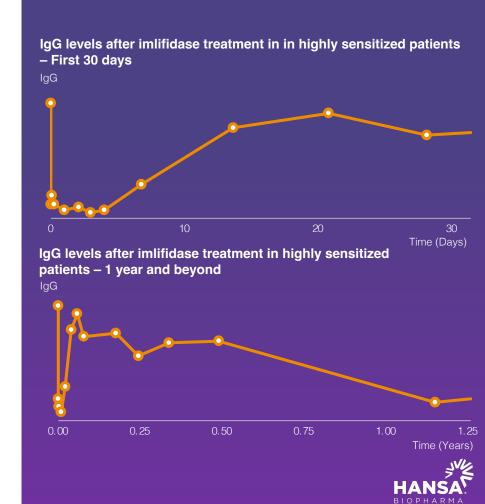
# The technology platform is the primary basis for achieving our vision

Targeting rare IgG mediated diseases and conditions

### **Key opportunities:**

- Expanding into new indications
- Reduce immune response to IgG-cleaving enzyme, i.e. allow repeated treatment
- Combination therapy, i.e. induction and maintenance therapy



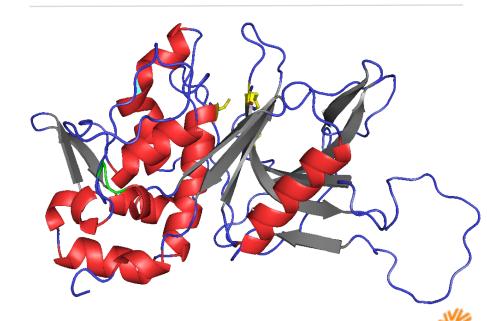


# Our IgG antibody-cleaving enzyme, imlifidase

### Origins from Streptococcus pyogenes

- Cysteine protease derived from an Immunoglobulin G (IgG)degrading enzyme of Streptococcus pyogenes
- Contains only one cysteine no disulfide bridges
- Monomeric protein with a molecular mass of 35 Kilo Dalton
- Isoelectric point of 6.1
- The coding gene for imlifidase is cloned and expressed in Escherichia coli

### Imlifidase consists of 311 amino acids



# Imlifidase is a lyophilized product formulation

Shelf life of 18 months at 2-8° Celsius storage; Ongoing stability studies indicate a shelf life of at least 24 months.

### Imlifidase will be infused in 15 minutes

- The product for commercial supply will be a lyophilized (cold chain) powder concentrate (11 mg solution) for infusion currently with a claimed shelf life of 18 months at 2-8°c storage. Ongoing stability studies indicate a shelf life of at least 24 months.
- Each vial is filled with 1.2 mL of a 10 mg/mL solution before freeze drying (=12 mg). Extractable volume after reconstitution with 1.2 mL sterile water is 1.1 mL of 10 mg/mL solution resulting in 11 mg product
- The protein concentration,10 mg/mL, has desirable characteristics with respect to not form aggregates
- Continuous stability programs ongoing to study changes in protein characteristics and performance.
- Imlifidase dose is clinically set to 0.25 mg/kg bodyweight (11 mg / 0.25 mg/kg = 44 kg (BW) / vial content) 2R vial size is suitable for the content





### Manufacturing process

Hansa has close collaborations with highly experienced European based third party CMOs

Drug substance production process (API)

### **Northway Biotech**



### Fermentation/ harvesting

- · Working Cell Bank
- Pre-Cultivation
- Main Cultivation
- Cell Harvest

### Protein purification

- Cell Disruption
- Ion Exchange Chromatography Protein Release
  - Ceramic Hydroxy Apatite Chromatography

Protein purification cont.

Filling

Formulation.

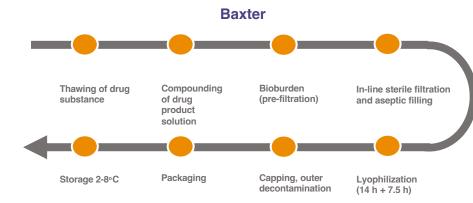
filtration, filling and

100

storage (-80°C)

- Hvdrophobic Interaction Chromatography
- · Ultrafiltration/ Diafiltration

### Drug product production process (upscaling)





### **Facts**

- Based in Vilnius, Lithuania
- Start-up Year: 2004
- Capacity: 300 L fermentor (1000 L fermentor in 2020)
- · Certifications: GMP compliance, Manufacturing authorization license
- · Inspections: National regulatory agency (EU), EU/US customer inspections. FDA mock inspection

### Baxter

### **Facts**

- Based in Halle/Westfalen Germany
- Start-up Year: 2001 (contract manufacturing)
- Capacity: 6-35 L drug product solution per batch (5,000-30,000 vials)
- · Certifications: GMP compliance, Manufacturing authorization license
- · Inspections: National regulatory agency (EU), FDA, **EU/US** customer inspections

# Clinical development programs







### **Autoimmune attacks**

### A result of when the body's immune system by mistake damages its own tissue

### **Blood**

Autoimmune hemolytic anemia, Immune thrombocytopenia



### **GI tract**

Crohn's disease



### **Nerves**

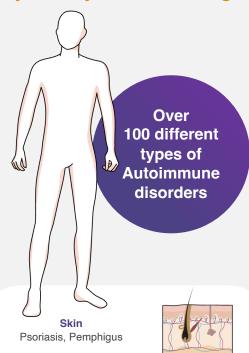
Guillain-Barré syndrome, Myasthenia gravis



### Lung

Wegner's granulomatosis







### Brain

Multiple sclerosis, Neuromyelitis optica



### Thyroid

Hashimoto's disease, Graves' disease



### Kidney

Anti-GBM disease



### Bone and muscle

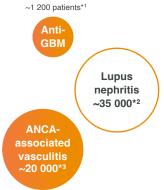
Rheumatoid arthritis, Dermatomyositis+ 32

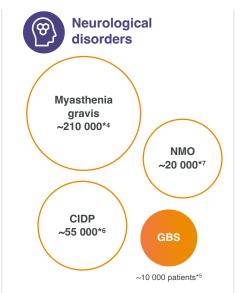
## Hansa's antibody cleaving enzyme technology

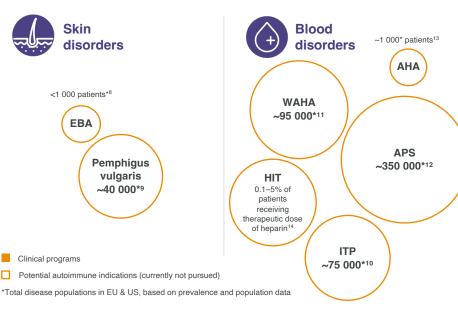


may have relevance in several autoimmune diseases where IgG plays an important role in the pathogenesis









**CIDP**: Chronic inflammatory demyelinating polyradiculoneuropathy

NMO: Neuromyelitis optica

**EBA**: Epidermolysis bullosa acquisita **ITP**: Immune thrombocytopenia

**WAHA:** Warm antibody hemolytic anemia **APS:** Antiphospholipid syndrome

AHA: acquired hemophilia A
HIT: Heparin-induced thrombocytopenia

<sup>1</sup>DeVrieze, B.W. and Hurley, J.A. *Goodpasture Syndrome*. StatPearls Publishing, Jan 2021. https://www.ncbi.nlm.nih.gov/books/NBK459291/ [accessed 2021-03-29]

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Berti A, Cornec D, Crowson CS, Specks U, Matteson EL. The Epidemiology of ANCA Associated Vasculitis in the U.S.: A 20 Year

Population Based Study. Arthritis Rheumatol. 2017-69.

\*Myasthenia Gravis. National Organization for Rare Disorders, <a href="https://ltrarediseases.org/trare-diseases/myasthenia-oravis/">https://ltrarediseases.org/trare-diseases/myasthenia-oravis/</a> [accessed 2021-03-29] 

\*\*Odullain-Barré syndrome. Orpha.net, <a href="https://lwww.orpha.net/consort/cgi-bin/OC">https://lwww.orpha.net/consort/cgi-bin/OC</a> Exp.php?Lng=GB&Expert=2103 [accessed 2021-03-29]

"-dumain-barre syndrome. Orpina tel., <u>midos/nwww.orpina.tel.orpin</u>

Marrie, R.A. The Incidence and Prevalence of Neuromyelitis Optica. International Journal of MS Care, 2013 Fall: 113-118

<sup>8</sup>Mehren, C.R. and Gniadecki, R. *Epidermolysis bullosa acquisita: current diagnosis and therapy*. Dermatol

Wertenteil, S. et al. Prevalence Estimates for Pemphigus in the United States. JAMA Dermatol, May 2019: 627-629.

<sup>10</sup>Immune Thrombocytopenia. National Organization for Rare Disorders, <a href="https://trarediseases.org/trarediseases/immune-thrombocytopenia/L">https://trarediseases.org/trarediseases.org/trarediseases.org/trarediseases/immune-thrombocytopenia/L</a> [accessed 2021-03-29]

\*\*IWarm Autoimmune Hemolytic Anemia. National Organization for Rare Disorders, <a href="https://rarediseases.org/rare-diseases/warm-autoimmune-hemolytic-anemia/">https://rarediseases.org/rare-diseases/warm-autoimmune-hemolytic-anemia/</a> [accessed 2021-03-29]

<sup>12</sup>Litvinova, E. et al. *Prevalence and Significance of Non-conventional Antiphospholipid Antibodies in Patients With Clinical APS Criteria*. Frontiers in Immunology, 2018-12-14.

<sup>13</sup>NORD, Acquired Hemophilia [accessed 2022-10-17], available at <a href="https://rarediseases.org/rare-">https://rarediseases.org/rare-</a>

eases/acquired-hemophilia/

<sup>14</sup>Hogan M, Berger JS. Heparin-induced thrombocytopenia (HIT): Review of incidence, diagnosis, and management. Vascular Medicine. 2020;25(2):160-173. doi:10.1177/1358863X19898253



### Anti-GBM, a rare acute autoimmune disease

### Incidence

in a million affected annually<sup>1,2</sup>

### Standard of Care

- Plasma Exchange
- Cyclophosphamide (CYC)
- Glucocorticoids

### **Data published** in JASN

CLINICAL RESEARCH WWW.jasn.org

Endopeptidase Cleavage of Anti-Glomerular Basement Membrane Antibodies in vivo in Severe Kidney Disease: An Open-Label Phase 2a Study

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ABSTRACT

Background The prognosis for kidney survival is poor in patients presenting with circulating anti-glomenular basement membrane (QBMM antibodies and servers licitary injury. It is selection in treatment with an endopeptidise that deviews circulating and kidney bound IgG can after the prognosis. next was an encoproposate mot claves or culturing and slowy boost (of Gin what the program). Methods An invested evidence place is even entudy (Musch 2004-60082-20) and participated in Methods and Company of the Co

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Conclusions in this pilot study, the use of millidease was associated with a better outcome compared with earlier publications, without major safety issues, but the findings need to be confirmed in a randomized Clinical Trial registration number: EUDRACT 2016-004082-39 https://www.clinicaltrials.search/bial/2007-001377-28/results

JASN 33: \*\*\* \*\*\* , 2022. doi: https://doi.org/10.1681/ASN 2021111460

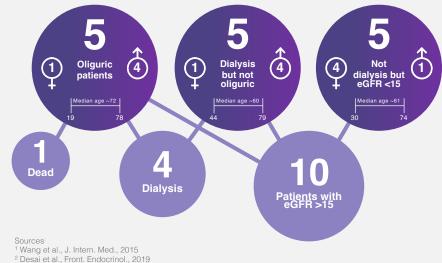
idney survival is poor in patients presenting

with circulating anti-glomerular basement mem-brane (anti-GBM) antibodies and advanced kid.

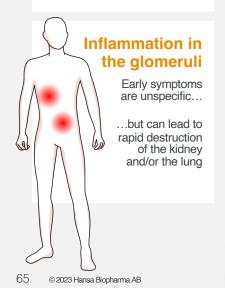
Recived Newerber 12, 2021. Accepted Petrany 1, 2022.

Results from Phase 2 study of imlifidase in anti-GBM disease published in Journal of American Society of Nephrology (JASN)<sup>3</sup>

10 out of 15 patients were dialysis independent after six months vs. the historical cohort<sup>4</sup>, where only 18% had functioning kidney



- 3 Uhlin et al. JASN (2022)
- <sup>4</sup> McAdoo et al.: Patients double-seropositive for ANCA and anti-GBM antibodies have varied renal survival. frequency of relapse, and outcomes compared to single-seropositive patients. Kidney Int 92: 693-702, 2017



# New pivotal phase 3 trial with imlifidase in 50 anti-GBM patients to evaluate kidney function after six months

### **Study Design**

 Open-label, controlled, randomized, multi-center phase 3 trial evaluating renal function in patients with severe anti-GBM disease imlifidase + SoC vs. SoC

### **Subjects**

- 50 anti-GBM patients to be enrolled
- Patients will be followed for six months
- Recruitment at 40-50 clinics across US/UK/EU

### Follow up time

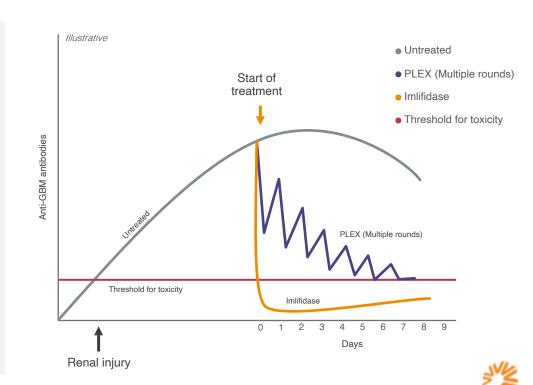
180 days follow up

### **Main Objectives**

- Renal function is evaluated by estimated glomerular filtration rate (eGFR) at 6 months
- Dialysis need at 6 months

### **Status**

25/50 patients enrolled as of April 18, 2024





# Imlifidase demonstrated positive safety, tolerability, and early efficacy outcomes in phase 2 trial in Guillain-Barré Syndrome (GBS)

### Incidence

1-2

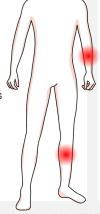
in 100,000 annually in 7 major markets<sup>1</sup>

### Standard of Care

- Intravenous immune globulin (IVIG) or
- Plasma Exchange (PLEX)

### **Indication**

- Rapidly and progressively weakens extremities
- Triggered frequently by viral infections

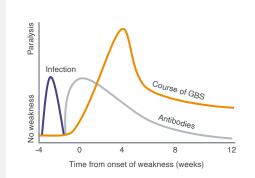


### High unmet need

- 1/3 of hospitalized patients require mechanical ventilation
- Remaining long lasting symptoms in ca 40% of patients

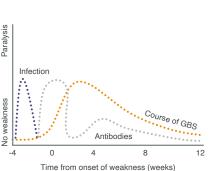
FDA granted Orphan Drug Designation to imlifidase for the treatment of GBS

### Today's standard of care, IVIg or PLEX



### Potential with imlifidase





Study design: Study is an open-label, single arm, multi-center trial in 30 patients

**First high-level data:** Imlifidase was safe and well tolerated, and when compared to previously published data - a rapid improvement across several efficacy outcome measures was observed in patients treated with imlifidase in combination with SoC

Path forward: Further analysis will contextualize efficacy data from the single arm study through a comparison to data from patients receiving standard of care

Sources

1) McGrogan et al. Neuroepidemiology 2009:32(2): 150-63.

### New investigator-initiated phase 2 study in ANCA-associated vasculitis



- a group of autoimmune diseases characterized by inflammation of blood vessels with very few treatment options today

### Incidence

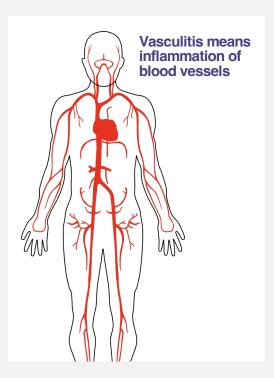
across EU/US of which 8-36% are estimated to have Acute Respiratory Distress Syndrome due to pulmonary hemorrhage<sup>1,2</sup>

### Standard of Care

 Current protocol is Immunosuppression and Intensive support care

### Indication

- Causes damage to small blood vessels in the body resulting in inflammation and damage to organs, such as the kidneys, lungs etc.3
- Progress of the disease results in end stage kidney disease in 25 percent of patients<sup>5</sup>
- Most severe cases involving lungs lead to respiratory failure4
- Few treatment options today



The investigator-initiated trial (IIT) is sponsored by Charité Universitätsmedizin, Berlin



### Study design

- Single arm, single center, phase 2 study with the primary objective to evaluate efficacy and safety on top of SoC
- 10 patients with severe ANCA-associated vasculitis and Acute Respiratory Distress Syndrome will be treated with imlifidase on top of SoC
- 3 out of a target of 10 patients treated Q1'24
- Trial led by Dr. Adrian Schreiber and Dr. Philipp Enghard at Charité

<sup>1.</sup> Berti A, et al. Arthritis Rheum atol. 2017;69

<sup>2</sup> Bathmann J. et al. BMD Open. 2023:9:e002949.

Falk RJ, Jennette JC. The New England journal of medicine. 1988;318(25):1651-7. 4. Flossmann O, et al. Annals of the rheumatic diseases. 2011;70(3):488-94

<sup>5.</sup> Booth AD, et al. American journal of kidney diseases. 2003;41(4):776-84.

# Long term graft survival is challenged by antibody mediated rejection (AMR) episodes following kidney transplantation



### Incidence

Acute AMR episodes occur in

5-7%

of annual kidney transplants<sup>1</sup> (2,500-3,500 patients across US/EU)

### High unmet need

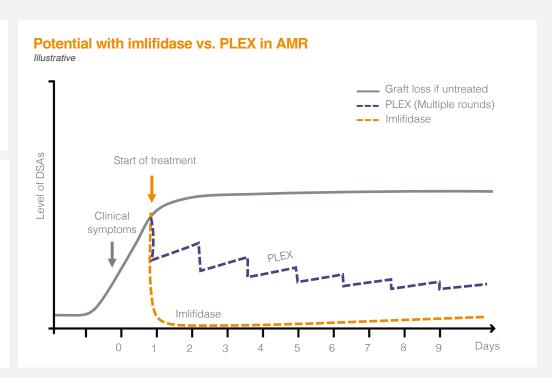
- AMR is one of the most challenging adverse events after kidney transplantation leading to graft dysfunction and loss
- There is no approved treatment for AMR

### Standard of Care

- Intravenous immune globulin (IVIg) or
- Plasma Exchange (PLEX) or
- Steroids

### Phase 2 study design

30 patients with active or chronic active AMR episodes post kidney transplantation have been enrolled and randomized 2:1 to imlifidase vs. SoC

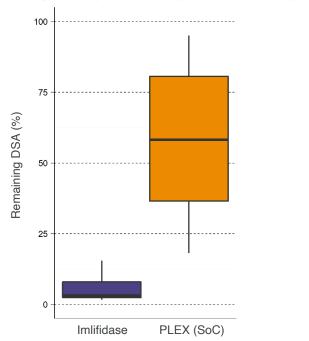


<sup>&</sup>lt;sup>1</sup> Puttarajappa et al., Journal of Transplantation, 2012, Article ID 193724



# Imlifidase met primary endpoint in phase 2 trial in patients with AMR episodes following kidney transplantation

### Remaining donor specific antibody levels, within 5 days



### Primary endpoint was the maximum reduction in DSA level at any time point during the 5 days following the start of treatment

- Patients treated with imlifidase demonstrated a statistically significant reduction of DSAs by 94.4% compared to a 35.6% (p-value: <0.001) reduction in patients who received PLEX (SoC)</li>
- DSA levels subsequently returned to approximately 70% of the initial level in both treatment arms
- Imlifidase demonstrated a safety profile consistent with previous clinical trials

### Secondary endpoints investigated overall kidney function and graft survival

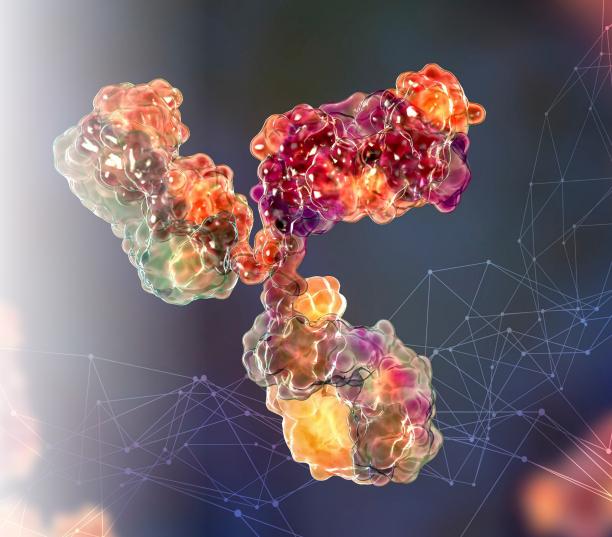
- The imlifidase arm demonstrated a 74% six-month graft survival and eGFR of 30mL/min/1.73m2. A 100% six-month graft survival and eGFR of 33mL/min/1.73m2 was observed in the PE arm
- Given the heterogeneity of the patient population, the trial was not designed nor sufficiently powered to be able show a statistically significant difference in the secondary outcome measures

### Path forward

- Treatment guidance indicate reduction of DSA levels as one of the main goals of any AMR treatment Link to Recommended Treatment for Antibody-mediated Rejection After Kidney Transplantation
- At this stage, Hansa plans to submit a paper for publication in a peer-reviewed journal



Next generation enzymes



# Encouraging data from the first-in-human trial of HNSA-5487 as we continue to explore the potential of our next-gen enzyme for repeat dosing

An enzyme with lower immunogenicity could potentially enable repeat dosing for innovative treatment approaches in a broad range of indications benefiting patients with diseases where a prolonged or intermittent IgG-free window is needed

### **Encouraging high-level results of HNSA-5487**

Single ascending dose study in 36 healthy volunteers

- 1. Administration was safe and well tolerated
- PD showed a fast and complete cleavage of IgG to F(ab')<sub>2</sub> and Fc-fragments with ascending doses; PK in line with expectations
- 3. Further analysis around endpoints and immunogenicity to be completed in 2024 incl. selection of lead indication

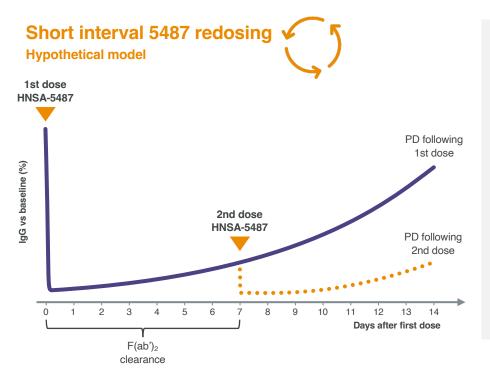
### Potential indication landscape for HNSA-5487

through two different redosing regimens



# Short interval redosing with HNSA-5487 could potentially prolong the IgG-low period





# Enabling treatments through IgG-low period

Repeat dosing of HNSA-5487 can potentially create a longer IgG-low period, enabling treatments such as:

- Short-term treatment in autoimmune diseases
- AAV gene therapy redosing
- HSCT in DSA+ patients
- Repeat dosing of systemic oncolytic virus therapy

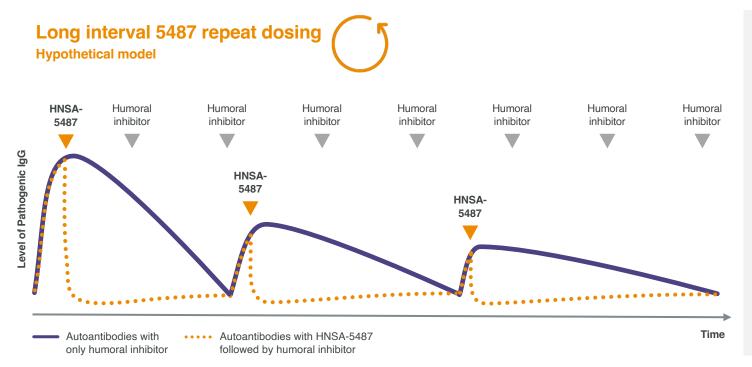
### Short-term treatment in autoimmune diseases

HNSA-5487 has potential to more rapidly than any other treatment reverse an autoimmune attack, potentially leading to:

- Faster recovery to baseline
- Shorter hospital stay and easier management of patients in the hospital
- Less risk for lasting damage from acute antibody-attacks



# Long interval redosing with HNSA-5487 in combination with humoral inhibitor in relapsing autoimmune diseases



#### HNSA-5487 rapidly cleaves IgG - chronic humoral inhibition adds duration of effect

- HNSA-5487 rapidly cleaves IgG, and chronic humoral inhibition can keep the IgG at a low level, potentially leading to greater efficacy vs monotherapy
- HNSA-5487 can be used when other humoral inhibitors/modulators are either too slow or not sufficient
- Humoral inhibition can also mitigate anti-5487 antibodies, thereby further improving the potential redosability of HNSA-5487

# **Gene Therapy**





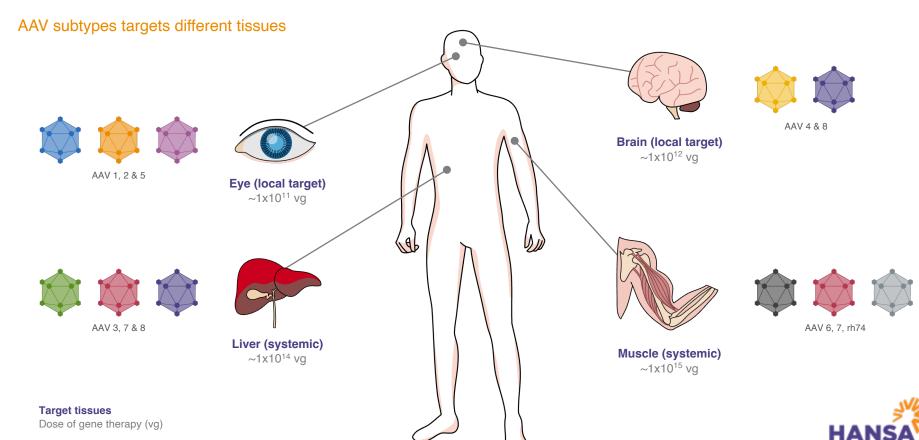
# **Exploring opportunities in gene therapy**



Exploring the opportunities in systemic administration of gene therapy for our unique antibody cleaving enzyme platform to potentially enable gene therapy treatment in NAb+ patients



# **Tropism and target tissue**



# Pre-existing antibodies towards AAVs are a limiting factor in Gene Therapy and excludes patients from clinical trials



#### **AAVs**, the delivery system of Gene Therapy

- Wildtype Adeno Associated Viruses (AAV) belong to the family of parvoviruses
- AAVs come in many serotypes with different tissue distribution
- They carry their genetic information as DNA and normally do not integrate into the host genome but remains in the cells as episomes
- Recombinant AAV is commonly used for gene delivery, resulting in safe and long-term expression of the transgene

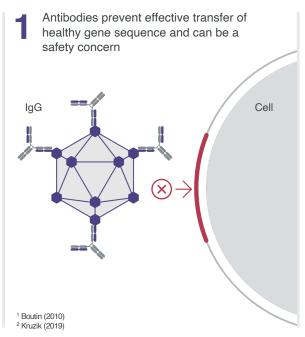
#### Prevalence of NAbs in AAVs AAV 1 CNS, Eye, Skeletal muscle Up to 70% AAV 2 CNS, Eye, Kidney Up to 60% 8 VAA Liver, CNS, Heart, Eye, Pancreas, Skeletal muscle Up to 60% AAV 6 Lung, Skeletal muscle Up to 45% AAV 7 Liver, Skeletal muscle Up to 30% Heart, Liver, Lung, AAV 9 Up to 30% Skeletal muscle CNS, Eye, AAV 5 Up to 30% Skeletal muscle CNS. Liver. Up to 20% Lung, Eye CNS, Lung, Up to 2%

Source: Boutin et al. (2010), Griffin et al. (2019), Wang et al. (2018), Calcedo & Wilson (2013), Falese et al. (2017), Haiyan et al. (2017), Ellsworth et al. (2018), Greig et al. (2017), Klamroth et al. (2022)

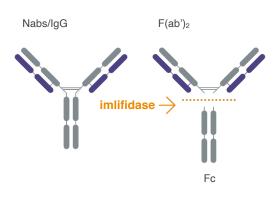
# Neutralizing antibodies (Nabs) are immunological barriers in gene therapy; imlifidase may potentially eliminate Nabs

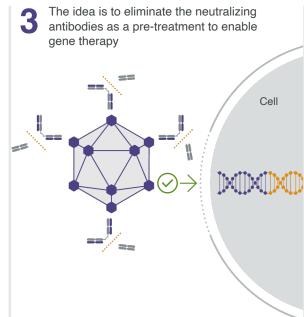


Between approximately 5%-70%<sup>1,2</sup> of patients considered for gene therapy treatment carry neutralizing anti-AAV antibodies forming a barrier for treatment eligibility



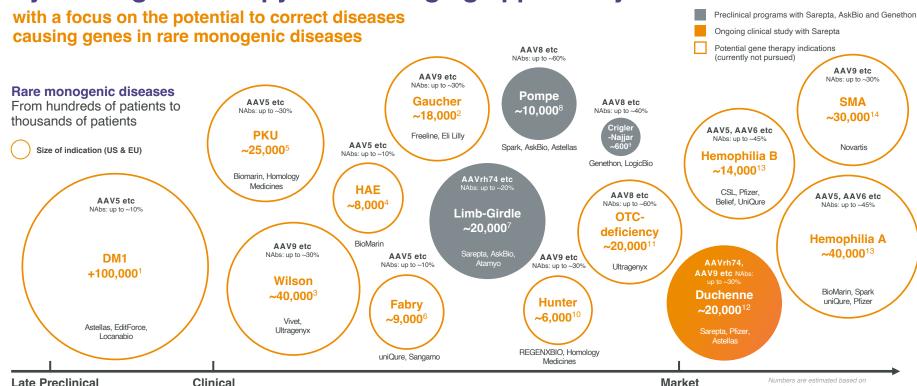
2 Imlifidase is a unique IgG antibody-cleaving enzyme that cleaves IgG at the hinge region with extremely high specificity







### Systemic gene therapy is an emerging opportunity



10. Gajula P, Ramalingam K, Bhadrashetty D. A rare case of mucopolysaccharidosis: Hunter syndrome. J Nat Sci Biol Med. 2012 Jan;3(1):97-100. doi: 10.4103/0976-9688.95984

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<sup>3.</sup> Sandsh 170, Laursen Tt, Munk DE, Vistrup H, Weiss KH, Ott P. The Prevalence of Wison's Disease: An Update. Hepatology. 2020 Feb;71(2):722-732. doi: 10.1002/hep.30911. Epub 2020 Jan 31. PMID: 31449670.

<sup>4.</sup> Ghazi A, Grant JA. Hereditary angioederna: epidemiology, management, and role of licatibant. Biologics. 2013;7:103-13. doi: 10.2147/BIT.327568. Epub 2013 May 3. PMID: 2868043; PMICD: PMICD

<sup>12.</sup> Crisafulli S. et. Al, Global epidemiology of Duchenne muscular dystrophy: an updated systematic review and meta-analysis. Orphanet J Rare Dis. 2020 Jun 5;15(1):141. doi: 10.1186/s13023-020-01430-8. PMID: 32503598; PMCID: PMC7275323. 13. GlobalData (Accessed 2023-12-15)

<sup>14.</sup> Verhaart, I.E.C., Robertson, A., Wilson, I.J. et al. Prevalence, incidence and carrier frequency of 5q-linked spinal muscular atrophy – a literature review. Orphanet J Bare Dis 12. (24 (2017). https://doi.org/10.1188/s13023-017-0671-8



## Global exclusive agreements with three partners in gene therapy

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

#### **Partner**

#### Access to key resources

#### World leader within gene therapy targeted at muscular

- Pre-clinical and clinical plan
- Regulatory

dystrophies

- Promotion
- FDA approval for treatment of 4–5-year-old DMD patients
- Early innovator in gene therapy
- Conducts pre-clinical and clinical trials (Phase 1/2)
- A pioneer in the discovery and development of gene therapies
- Conducts pre-clinical and clinical trials (Phase 1/2)

#### Indication exclusivity

### Duchenne Muscular Dystrophy (DMD)

1/3,500 to 5,000 male births worldwide

#### **Limb-Girdle Muscular Dystrophy**

Global prevalence of ~1.6 per 100k individuals

#### Pompe disease

Affecting ~ 5,000 – 10,000 patients in the US and EU. In addition, 1 in 40,000 births (200 cases) are diagnosed yearly.

#### Crigler-Najjar syndrome

Approximately incidence is 0.6-1 case per one million people or 600 patients in Europe and the U.S

#### Collaborative research, development and commercialization





Phase 1/2 study

(feasibility)



Antibody

technology

cleaving enzyme

Exclusive option for AskBio to negotiate a potential full development and commercialization agreement



The companies will consider a subsequent agreement for commercialization at a later stage





### Global and exclusive agreement with Sarepta Therapeutics

HANSA.

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* (2020) and at *ASGCT* (May 2023)
- Clear path to U.S. approval (kidney transplant)



#### Sarepta's key resources

World leader within gene therapy targeted at muscular dystrophies

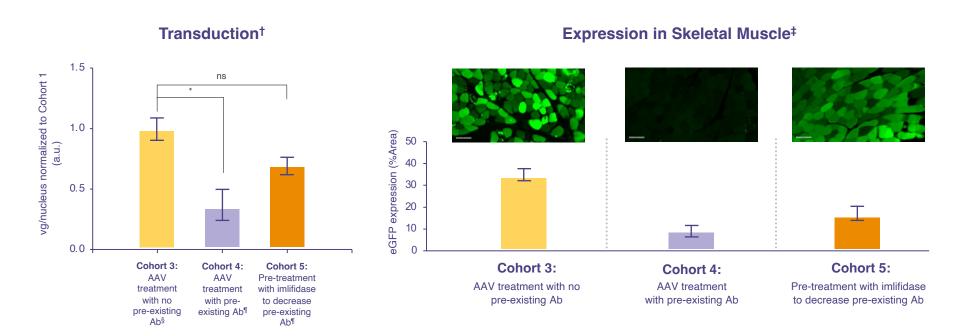
sales of imlifidase

- Pre-clinical plan: PoC and IND-tox
- Clinical / Regulatory
- Promotion
- FDA approval for treatment of 4–5-year-old DMD patients





# Imlifidase pre-treatment decreases pre-existing antibodies and enhances transduction and transgene expression in NHPs



<sup>\*</sup>P<0.05. †Data are represented as mean  $\pm$  SEM and analyzed by one-way ANOVA followed by post-hoc analysis with Dunnett's multiple comparison test . †Data are represented as the mean  $\pm$  SEM for the percent area for all of the muscle tissues analyzed at terminal necropsy. §AAVrh74 titer  $\le$ 1:400. ¶AAVrh74 titer 1:800–1:1600.

AAV, adeno-associated virus; AAVrh74, adeno-associated virus rhesus isolate serotype 74; Ab, antibody; a.u., arbitrary units; eGFP, enhanced green fluorescent protein; NHP, non-human primate; ns, not significant; vg, viral genome.

# Duchenne muscular dystrophy (DMD) is progressive and causes irreversible muscle damage and loss of function



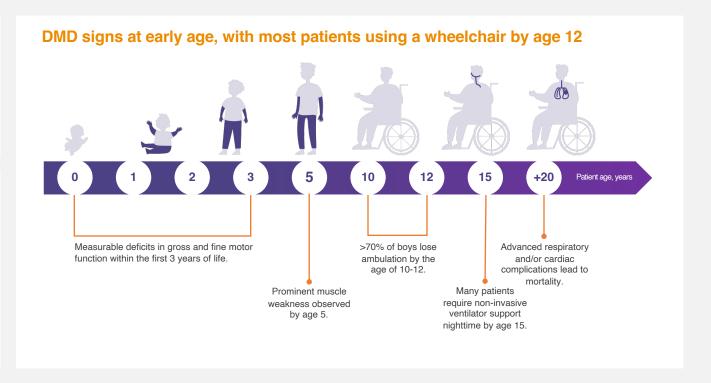
#### **Incidences**

1 in 3,500 to 5,000 male births worldwide

~14% have pre-existing IgG antibodies to rh74

#### **High unmet need**

- DMD is a rare, fatal neuromuscular genetic disease
- Muscle weakness noticeable by age 3-5, and most patients use a wheelchair by the time they are 12, many require respiratory aid by late teens.
- Life expectancy 26-30 years



Source:

Sarepta Therapeutics, https://www.sarepta.com/ [Accessed 2023-06-13]

# Collaboration with AskBio to evaluate imlifidase in gene therapy targeting Pompe disease



Feasibility program to evaluate imlifidase as pre-treatment ahead of gene therapy in Pompe disease for patients with pre-existing neutralizing antibodies (NAbs) to adeno-associated virus (AAV)



#### Hansa's key resources and deliverables

- Imlifidase validated with positive clinical efficacy and safety data as well as European approval
- Significant know-how around antibody cleaving enzymes
- Clear path to U.S. approval (kidney transplant)
- Hansa supplies material and provides additional support

Current agreement scoped around a feasibility program which covers preclinical work and a Phase 1/2 study



Upfront fee of USD 5m



Fully owned subsidiary of Bayer AG

#### AskBio's key resources and deliverables

- Early innovator in the Gene Therapy space with AAV platform and ongoing clinical stage Pompe disease program
- Conducts pre-clinical and clinical trials according to agreed plan

Exclusive option for AskBio to negotiate a potential full development and commercialization agreement





# Pompe disease, an ultra-rare disease is caused by the deficiency of an enzyme called alpha-glucosidase (GAA)



#### **Incidences**

A rare disease affecting approximately 1 in 40,000 with approximately 5,000 to 10,000 patients today on enzyme replacement therapy.

In addition, 200 new cases are diagnosed annually

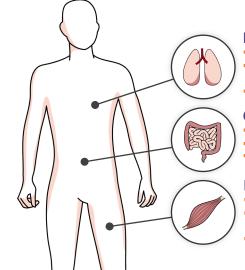
~40-60% patients have pre-existing IgG antibodies

to AAV8

#### Indication

- Defect in a gene making an enzyme called acid alphaglucosidase (GAA), which is used to break down glycogen
- Accumulation of glycogen result in severe impact on the normal organ and muscle function





#### Respiratory

- Respiratory failure
- Diaphragm weakness, sleepdisordered breathing
- Orthopnoea, dyspnea, aspiration

#### Gastrointestinal

- Difficulty chewing/jaw muscle fatigue
- Poor weight gain/maintenance
- Swallowing difficulties/weak tongue

#### Musculoskeletal

- Proximal muscle weakness, muscle pain
- Frequent falls, gait abnormalities,
- difficulty walking/climbing stairs/getting up
- EMG abnormalities, elevated CK, MRI changes

Sources

Pompe Usease, this international control of the con

<sup>\*</sup>ESGCT 27th Annual Congress Abstracts, Sensitivity of different AAV serotypes to pre-existing NAbs, Intiss://www.esact.eu/home/Barcelona%202019/INEW\_All%2DBarcelona%20201stacts.odf
#Outing et al. Prevalence of servining Ga and neutralizing factors against adend-associated virus (AAV) types 1, 2, 5, 6, 8, and 91 the healthy population: implications for gene the rarpy using AAV vectors. Hum Gene Ther. 2010. https://muhmed.ncbi.nlm.nih.gov/20095819/

# Collaboration with Genethon to evaluate imlifidase in gene therapy targeting Crigler-Najjar Syndrome





#### Hansa's key resources and deliverables

- Imlifidase validated with positive clinical efficacy and safety data as well as European approval and clear path to U.S. approval
- Significant know-how around antibody cleaving enzymes
- Hansa supplies material and provides additional support





#### **CURE THROUGH INNOVATION**

#### Genethon's key resources and deliverables

- A pioneer in the discovery and development of gene therapies
- A not-for-profit organization
- Conducts pre-clinical and clinical trials (Phase 1/2)

#### Initial agreement focused on research and development



Upon completion the two companies will consider a subsequent agreement for commercialization

# Genethon co-authored the first article in Nature highlighting the relevance of imlifidase in AAV based gene therapies in the presence of NAbs

Aren Huange<sup>3</sup>, Laetiti van Wittengerghe<sup>3</sup>, Batiric Warolethrana<sup>3</sup>, Dan Lupo<sup>3</sup>, Joseph Silverberg<sup>3</sup>, Victoria Daventure<sup>3</sup>, Henna Beck<sup>3</sup>, Xavier M. Anguela<sup>3</sup>, Gluseppe Ronzitti<sup>3</sup>, Sean M. Armouri<sup>3</sup>, Sebastien Lacroix-Desmazes<sup>3</sup>, and Federico Mingozzi<sup>3</sup>, Sean M. Armouri<sup>3</sup>, Sean M. Armouri<sup>3</sup>, and Federico Mingozzi<sup>3</sup>, Sean M. Armouri<sup>3</sup>, Sean M. Armouri<sup></sup>

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of legf into Field<sup>1</sup>, and Fe at 24.1 (Fig. 1a) and a significant dec institute anni-AM recording of EAN (20) legf concentration (Fig. 1b) and institute antibody title<sup>11</sup> (Hadd) legf concentration (Fig. 1b) and Firmandiction of FIEL 200 film in vitro was noted (Ellina 10). Because Med does film in vitro was noted (Ellina in initial 1b). Because Med does film recording a passive initial initial model of gene transfer, where CXP thing a passive iniwith neutralization model or on or VI VI and then treatment were info the administration on or VI VI and then treatment were info

# Crigler-Najjar (CN) syndrome is an ultra-rare hereditary disorder caused by deficiency in UGT1A1 (liver enzyme)



#### Incidences

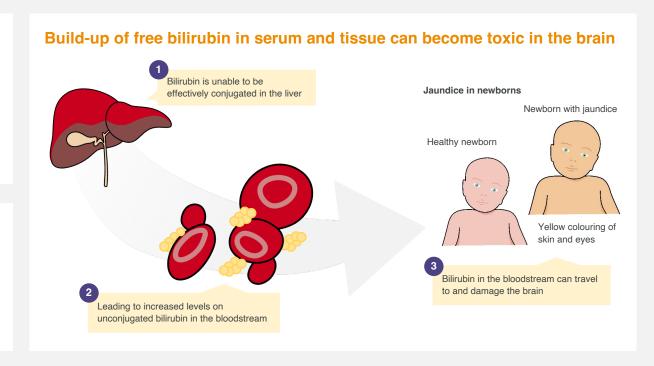
An ultra-rare indication impacting

**0.6-1** per **1,000,000** newborns around the world<sup>1,2</sup>

~30% of patients have pre-existing IgG antibodies to AAV8

#### Indication

- Build-up of free bilirubin in serum and body tissues, which can become toxic in the brain<sup>3</sup>
- Severity can vary from mild to severe, no medication approved for treatment so far



Sources

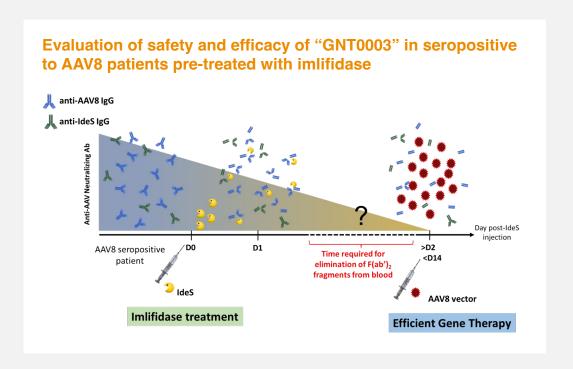
1 Collaud F. Bortolussi G. Guianvarch L. Aronson SJ. Bordet T. Veron P. Charles S. Vidal P. Sola MS. Rundwasser S. Dufour DG. Lacoste F. Luc C. Wittenberghe LV, Martin S, Le Bec C, Bosma PJ, Muro AF, Ronzitti G, Hebben M, Mingozzi F. Precilinical Development of an AAVB-HIGT141 Vector for the Treatment of Crigited-In-align Syndrome. Mol Thre Methods Clin Dev. 2019 Mar 15;12:157-174.

<sup>2</sup> Ebrahimi A, Rahim F. Crigler-Najjar Syndrome: Current Perspectives and the Application of Clinical Genetics. Endocr Metab Immune Disord Drug Targets. 2018;18(3):201-21



# Feasibility program to evaluate imlifidase as pre-treatment to Genethon's gene therapy in patients with severe Crigler-Najjar syndrome

#### Study design and timeline Study expected in a small patient population GNT0003: 5E12 vg/kg Imlifidase: 0.25 mg/kg (possible with two doses) Timeline 2024 January April 2023 2023 Hansa and Initiate clinical Genethon Genethon sians study with launches pivotal clinical trial of collaboration imlifidase as pre-treatment to Gene Therapy Initiation of pre-GNT0003 for Crigler-Najjar clinical study Syndrome with imlifidase as pre-treatment to GNT0003



Source: https://www.genethon.com/

# **ESG**Overview











### **Healthy people**

Address unmet medical need and ensure equitable access to care



### **Healthy business**

Make a difference by operating an ethical, transparent and responsible business and cultivate an engaged culture of collaboration, inspiration and innovation



### **Healthy planet**

Embrace sustainable decision making and environment stewardship



# Formalising our ESG approach



At Hansa, we have always strived to achieve sustainable business practices. We are now formalizing our approach to sustainability and ESG issues, starting with identifying our key material focus areas.



**Our mission:** We leverage our unique enzyme technology platform to develop innovative, lifesaving and life altering immunomodulating therapies, bring these to the patients with rare diseases who need them, and generate value to society at large.

### **Our key ESG material aspects**



### nvironment

#### Climate & waste impacts of production and logistics

Hansa's environmental impact is small because our production is limited in volume. However, as we grow, we need to be transparent about, and make efforts to limit, our climate and waste impacts.













#### Unmet needs and equity in health

Patients with rare conditions in general, and highly sensitized patients in particular, have many unmet needs which our therapies help address. These unmet needs can also be reinforced by ethnic or socio-economic status, particularly regarding access to organ transplants. Collaboration with patient groups can help us reach even more patients who can benefit from our treatments.







#### **Putting patients first**

In the biopharma industry, there is a risk that patient access to innovative treatment is delayed. Hansa can therefore provide bridge financing on a case-by-case basis to benefit patients who have limited treatment options.







#### Employee wellbeing, diversity and inclusion

Ensuring employee wellbeing, diversity and inclusion is a fundamental commitment at Hansa It is also essential for attracting talent in a fastgrowing organization and delivering on our strategy.





#### Third-party risks

We diligently select new business partners, as well as monitor our existing partners and require them to comply with all laws and regulations and our Code of Conduct





#### **Pricing**

In Europe, value-based pricing and universal health coverage is common, but in other countries access is a pressing issue. We can expand access to unfunded patients through collaboration with patient groups.





### Governance

#### Safety, efficacy and ethics

To build a successful company and achieve our mission to extend and enhance the lives of the patients we serve, we must hold ourselves to the very highest standards. Trust is at the core of everything we do.



#### Return to investors

Biopharma companies need to remain economically attractive as an investment. so as to continue to secure capital and develop new treatments.





### **UN Sustainable Development Goals**

The Sustainable Development Goals (SDGs) were adopted by all UN Member States in 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. They have since become a gold standard for sustainability across businesses, and each of our recommended factors have been developed to align with relevant goals.





































# **Capital Markets**





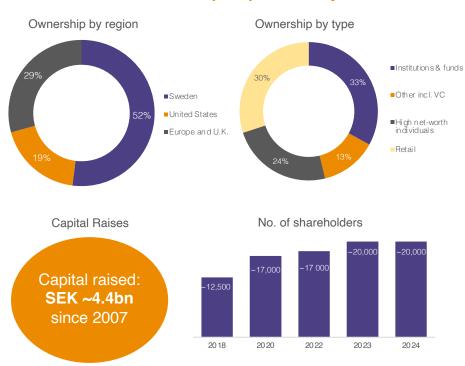
### **Ownership in Hansa Biopharma**



#### Top 10 shareholders as per March 31, 2024\*

Name	No. of shares	Ownership
Redmile Group, LLC	9,647,747	18.3%
Nexttobe AB	2,155,379	4.1%
Jeansson, Theodor	2,150,000	4.1%
Olausson, Thomas	1,917,000	3.6%
Försäkrings AB Avanza Pension	1,799,517	3.4%
Fjärde AP-Fonden (AP 4)	1,700,000	3.2%
Tredje AP-Fonden (AP 3)	1,389,650	2.6%
Braidwell, L.P.	867,530	1.6%
VOB & T Trading AB	644,800	1.2%
Max Mitteregger Kapitalförvaltning AB	600,000	1.1%
Other	29,800,173	56.6%
Total	52,671,796	100.0%

#### Classification of ownership as per January 31, 2024



<sup>\*</sup> Following execution of a directed share issue of SEK 372m (USD 34.6m) on April 12, 2024, the number of outstanding shares will increase to 67,814,241 shares.

# **Company collected consensus**



Consensus is based on a collection of analyst estimates pre-Q1 2024 report (April 2024)

		Patient uptake, EU					Revenue, SEKm			
	Price Target, SEK	WACC	Q1'24e	FY'24e	FY'25e	FY'26e	Q1'24e	FY'24e	FY'25e	FY'26e
Average	92	12%	16	72	107	171	54	235	330	611
Median	92	12%	16	72	105	168	54	240	315	662
High	173	15%	17	89	146	223	54	283	455	887
Low	50	10%	14	58	82	126	54	173	221	314
Number of contributions	8	8	4	6	6	5	9	8	8	7

		EBIT, SEKm			Operating Cash Flow, SEKm				Cash position, SEKm			
	Q1'24e	FY'24e	FY'25e	FY'26e	Q1'24e	FY'24e	FY'25e	FY'26e	Q1'24e	FY'24e	FY'25e	FY'26e
Average	-163	-623	-522	-376	-167	-636	-511	-496	570	436	701	560
Median	-166	-636	-525	-366	-161	-615	-490	-430	569	223	456	655
High	-139	-537	-372	-95	-161	-512	-348	-376	591	1 077	2 895	1 807
Low	-175	-694	-749	-772	-179	-828	-674	-772	550	62	-468	-888
Number of contributions	5	8	8	7	3	6	6	5	3	7	6	5

Analyst recommendat	ons	
8		
	1	
		0
Buy	Hold	Sell

Bank/Research Institution	Analyst	Location	E-mail
SEB	Christopher Uhde, PhD	Stockholm	christopher.uhde@seb.se
ABG Sundal Collier	Aelxander Krämer	Stockholm	alexander.kramer@abgsc.se
Carnegie	Erik Hultgård	Stockholm	erik.hultgard@carnegie.com
Redeye	Johan Unnerus	Stockholm	johan.unnerus@redeve.se
William Blair	Matt Phipps, PhD	Chicago	mphipps@williamblair.com
Van Lanschot Kempen	Suzanne van Voorthuizen	Amsterdam	s.vanvoorthuizen@vanlanschotkempen.com
Intron Health Research	Naresh Chouhan	London	naresh@intronhealthresearch.com
Ökonomiskt Ugebrev	Lars Hatholt	Copenhagen	hatholt@outlook.com
H.C. Wainwright & Co.	Douglas Tsao	New York	dtsao@hcwresearch.com

## **Contact our Investor Relations and Corporate Affairs team**

#### Contact



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#### Calendar and events

Apr 18, 2024 Interim Report for January-March 2024

Apr 22, 2024 ABG Road Show, Stockholm

May 14, 2024 Capital One Biotech Disruptors Event, New York City

May 27, 2024 Carnegie Reverse Road Show, Lund

June 11, 2024 ABG Digital Autoimmunity, Transplantation, and Inflammation Seminar

June 27, 2024 2024 Annual General Meeting

July 18, 2024 Half-year Report January-June 2024

Sept 19, 2024 Pareto Securities' Annual Healthcare Conference, Stockholm

Oct 24, 2024 Interim Report for January-September 2024

