HANSA BIOPHARMA

Investor Road Show Year-end Report/Q4 2023

Lund, February 2, 2024

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Business update Q4'2023







Hansa enters 2024 in a strong position to successfully execute on our key priorities

Q4: Strong commercial performance

Strong revenue generation in Q4 2023

- SEK 43m in Idefirix product sales
- Growth supported by U.K., Germany, and Spain

Commercial partnership with NewBridge

- Covering MENA in kidney transplantation
- Market Access for Idefirix[®] in Slovenia
- Initiated restructuring program
 - Will provide SEK 75-85m in annual savings

Pipeline: Encouraging read-outs across several indications

- AMR: Full data from AMR phase 2 study
- ✓ GBS: Positive high-level phase 2 data
- Anti-GBM: Positive momentum continues
- **HNSA-5487:** Encouraging high-level P1 data

Kidney Transplantation:

- ConfldeS: Randomization completion mid-2024
- Sustained positive outcomes out to year 5

SRP-9001-104 imlifidase in DMD:

Initiation of phase 1 study mid-December 2023



Key strategic priorities



Commercialize Idefirix[®] in first indication and markets

- Successfully launch Idefirix[®] in Europe
- Secure FDA approval and launch Idefirix[®] in the U.S.
- Geographic expansion

Advance our ongoing clinical programs

2

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

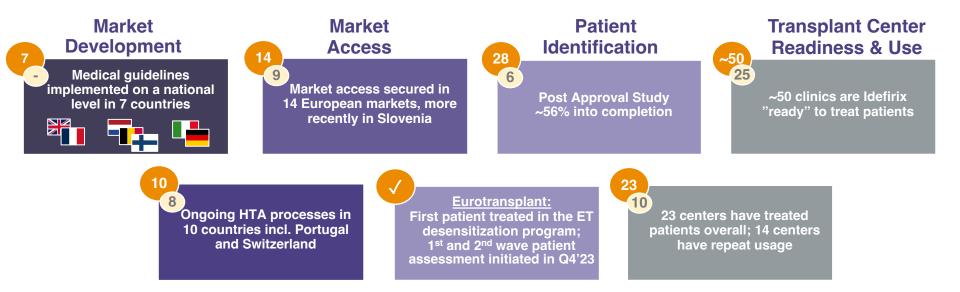
Expand our IgG-cleaving enzyme technology

3

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

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

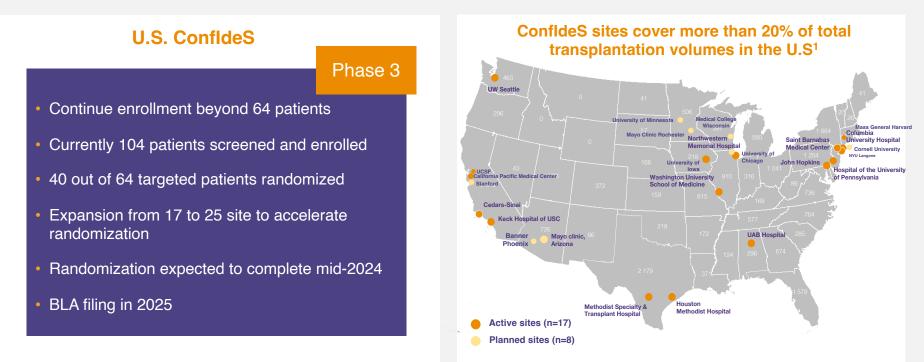
Q4 2023





Potential to disrupt transplantation care in the U.S. with imlifidase

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

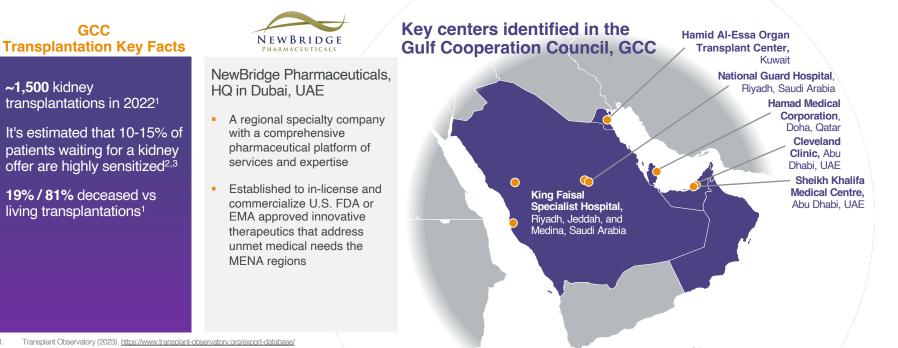


Commercial partnership with NewBridge Pharmaceuticals expands market to Middle East & North Africa (MENA)



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The MENA region will be the third region outside Europe where Idefirix is commercialized aimed at enabling kidney transplantation in highly sensitized kidney transplant patients

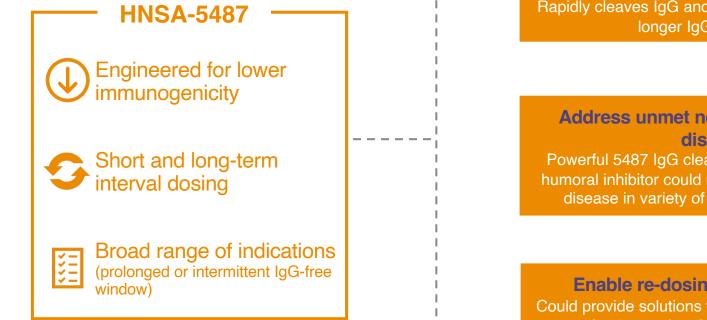


EDQM. (2020). International figures on donation and Transplantation 2019

SRTR Database and individual assessments of allocation systems

Advancing HNSA 5487 – a high potential next-gen enzyme for repeat dosing





Broaden the IgG free window Rapidly cleaves IgG and could potentially create a longer IgG-low period

Address unmet need in autoimmune disease

Powerful 5487 IgG cleaving in combination with humoral inhibitor could result in greater control of disease in variety of autoimmune diseases

Enable re-dosing in gene therapy Could provide solutions to enable re-dosing in AAV gene therapy and prolonged dosing of oncolytic viruses

Potential indication landscape for HNSA-5487 and reasons to believe



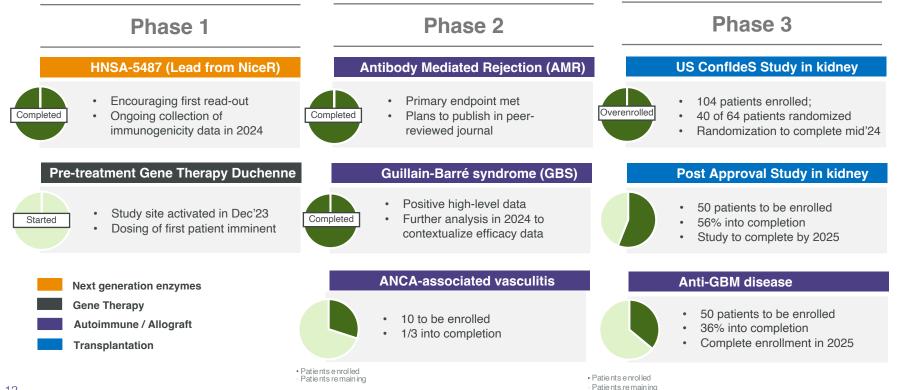


First in Human Study Results

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



Strong momentum across the pipeline in areas of high unmet need



Strong revenue generation in Q4 2023, including SEK 43m in Idefirix product sales

Product sales improved +113% vs Q4 2022 and +163% vs Q3 2023; Growth driven by uptake in U.K., Spain, Germany

Revenue (Q/Q)

Q4'22 Q1'23 Q2'23 Q3'23 Q4'23



Revenue (12M/12M)

0004

2021	2022	2023	
	154.5	134.1	
		10111	 Product sales
		103.7	
33.9 15.0 15.7	64.3	27.4	 Revenue recognition from AskBio and Sarepta Axis-Shield
3.2	3.5	3.0	



SEKm

Continued investments in commercialization and R&D activities



R&D expenses (Q/Q) Q1'23 Q2'23 Q3'23 04'2304'22SEKm R&D expenses (12M/12M) 2023 2021 2022 SEKm

Operating loss (Q/Q)





With current cash position and projected burn-rate, Hansa's operations are financed into 2025







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: Commence clinical study 	GBS Phase 2: Outcome of comparative efficacy analysis Genethon Crigler-Najjar Phase 1/2: Initiate clinical study with imilifidase 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. ConfldeS (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



Skilled and experienced team

- A high-performance organization with 20 years on average in life science
- Purpose driven culture
- Headquartered in Lund, Sweden (168 employees Dec'23)
- Operations in both EU and the US



Financial position

- Hansa is financed into 2025
- Market cap (USD): ~185m (Feb. 2023)
- Listed on Nasdaq Stockholm
- 20,000 shareholders
- Foreign ownership make up ~43%



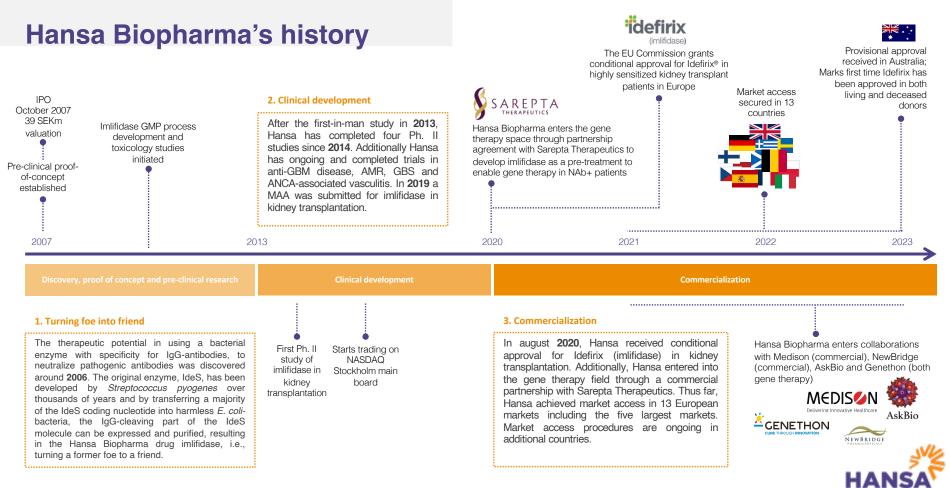
We are building a global leader in rare diseases

Today

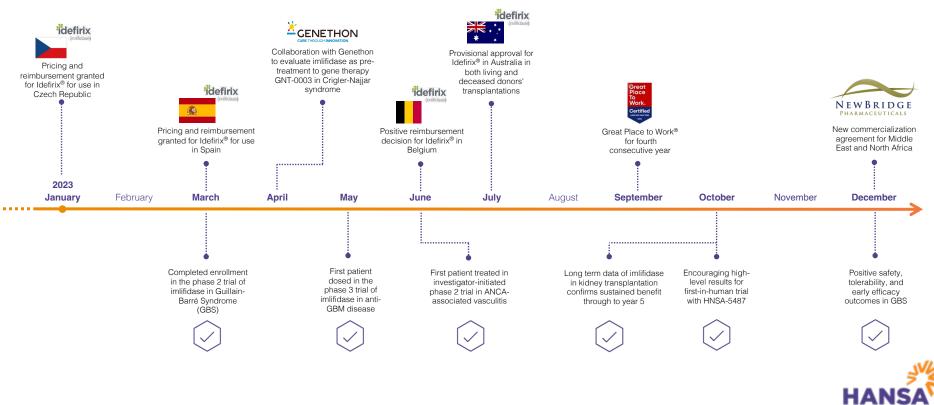
We are launching our first commercially approved product for enablement of kidney transplantation in Europe*



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



Key milestones achieved during the last 12 months



Imlifidase

a novel approach to eliminate pathogenic IgG



Origins from a bacteria Streptococcus pyogenes

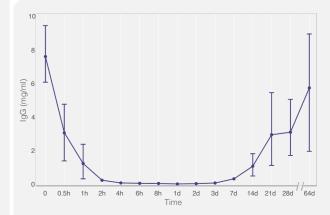
- Species of Gram-positive, spherical bacteria in the genus Streptococcus
- Usually known from causing a . strep throat infection

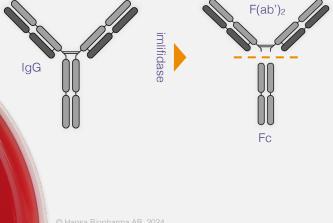
A unique IgG antibody-cleaving enzyme

- 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

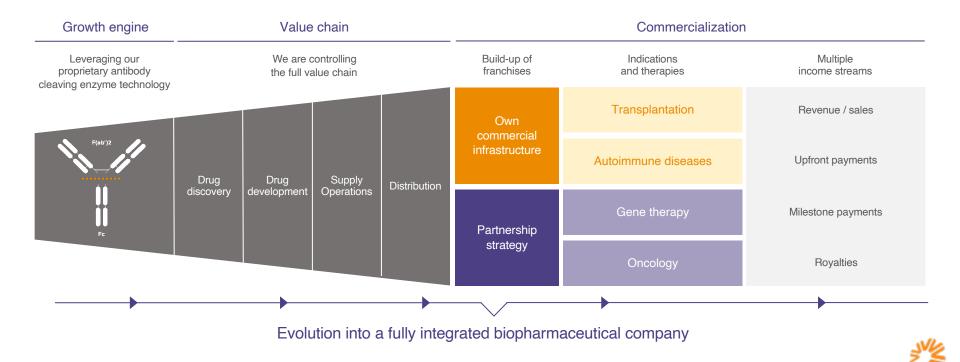
- Rapid onset of action that inactivates • IgG below detectable level in 2-6 hours
- IgG antibody-free window for . approximately one week



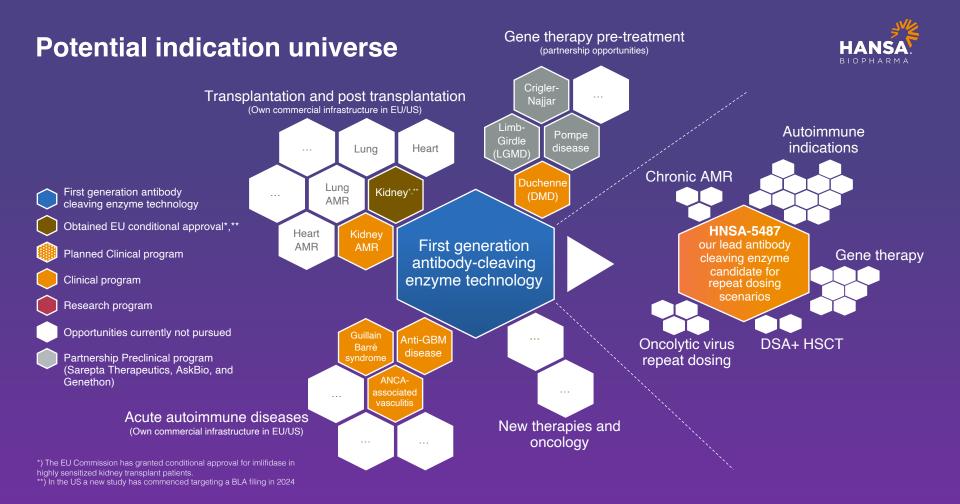


Our Business model

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



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Key strategic priorities



Commercialize Idefirix[®] in first indication and markets

- Successfully launch Idefirix[®] in Europe
- Secure FDA approval and launch Idefirix[®] 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



With relevant PhD in R&D

~20 years*

of life science experience on average from Big Pharma, Biotech and Academia "covers Management, R&D, and Commercial

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



Donato Spota

SVP & CFO (2019) +20 years in the Healthcare sector Ex-CFO Basilea Pharmaceutica Senior Finance roles at Roche Shareholding: 15,076



Matthew Shaulis CCO & US President (2023)

Ex-SVP Global Commerical and Medical Go-To-Market model transformation at Pfizer Inc. Shareholding: 0



Hitto Kaufmann CSO (2023) +20 vears in R&D

Ex-CSO at Pieris Pharmaceuticals

+40 years in the Healthcare sector Ex-CMO Basilea Pharmaceutica

Ex-CEO Affitech (merged with Pharmexa

Ex-CMO Chiron (acquired by Novartis)

Ex-Head of Strategy and Operations at Sanofi Shareholding: 0

Achim Kaufhold

SVP & CMO (2020)

Shareholding: 8,800

Board of Directors



Peter Nicklin

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 Shareholding: 14.500

Anders Gersel Pedersen

Board Member (2018) +30 years in the Healthcare sector

Chairman of Hansa Biopharma's Scientific Committee

Fx-FVP R&D H.Lundbeck

Shareholding: 2.500

Mats Blom



Hilary Malone

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)

Shareholding: 0



Eva Nilsagård

Board Member (2019)

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

Chairman of Hansa Biopharma's Audit Committee

Shareholding: 3.000



+20 years in the Healthcare sector



Anne Säfström Lanner SVP & CHRO (2019)

Ex-Head of HR European Spallation Source Fx-Head of HR Cellavision Shareholding: 7,273



Board Member (2019) CFO of NorthSea Therapeutics Ex-CFO Zealand Pharma Member of Hansa Biopharma's Audit Committee Shareholding: 1.000











Hansa Biopharma's Governance Structure





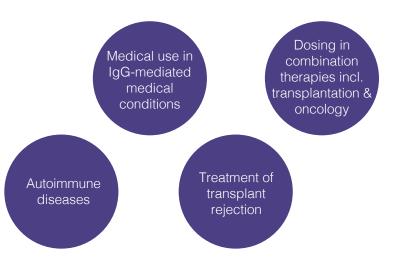
Electing / AppointingReporting / Informing

Strong technology protection through patents and orphan drug designations



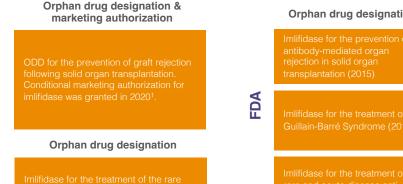
Patent coverage out to 2035 in key markets

- 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 designations

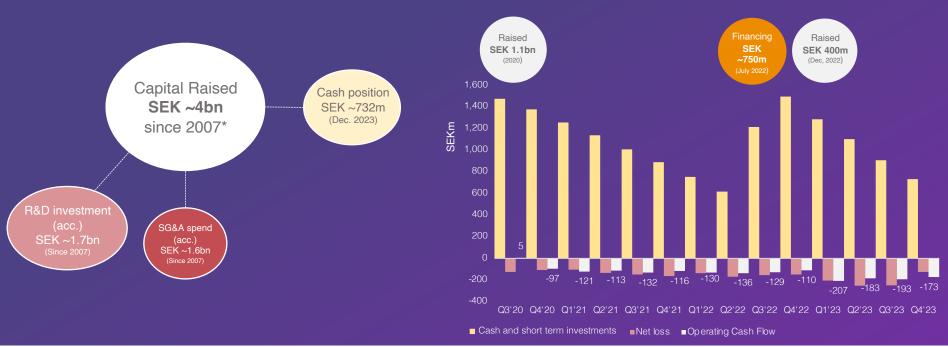
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1 defirix is indicated for desensitisation treatment of highly sensitised adult kidney transplant patients with positive crossmatch against an available deceased donor. The use of Idefirix should be reserved for patients unlikely to be transplanted under the available kidney allocation system including prioritisation programmes for highly sensitised patients

EMAVEC

Hansa Biopharma is financed into 2025

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





*Including SEK ~750m from NovaQuest financing agreement & SEK ~100m upfront payments from Sarepta

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 2025 We expect to use our current cash position to:

Fund the launch and commercial expansion of Idefirix[®] in kidney transplantation across Europe and start 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



SEK ~732m

(USD ~72m) in cash and short-term investments post recent financing



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

Strong IPR

Strong team

Exciting pipeline

Regulatory validation

Validated manufacturing

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



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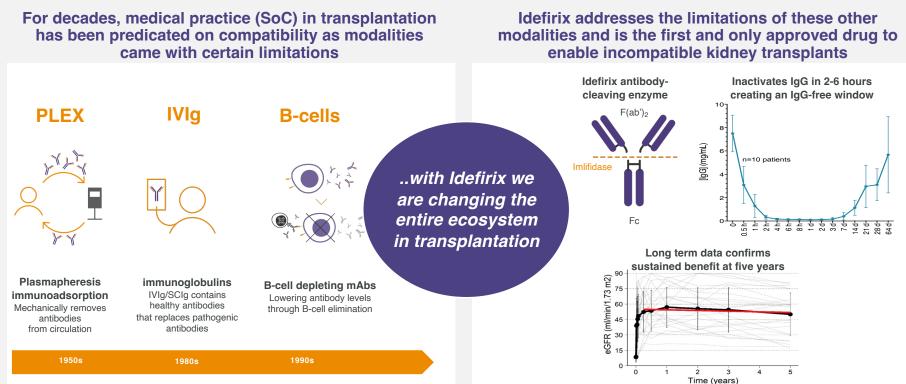
Imlifidase in kidney transplantation





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





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.

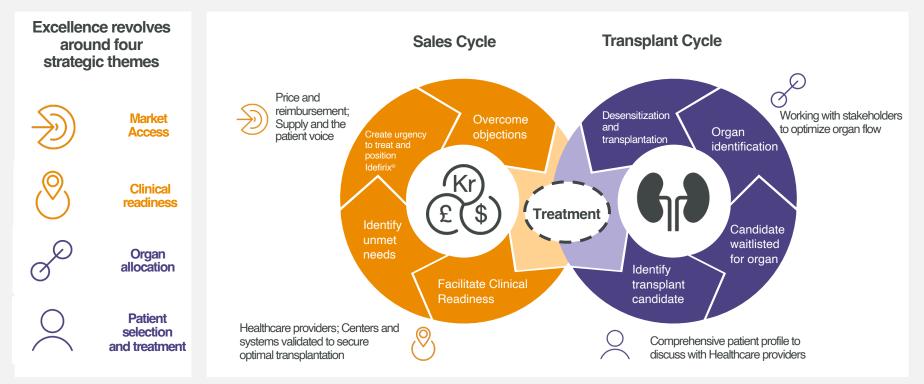
Low complexity transplants	Calculated Panel Reactive Antibodies (cPRA) is a measure for HLA-sensitization			High co	High complexity transplants	
~70% of patients^{1,2} Non or less sensitized (cPRA < 20%)			15-20% of patients^{1,2} Moderately sensitized (20% < cPRA < 80%)	10-15% of pat Highly sensitized (cPRA > 80%)	ients ^{1,2}	
Causes of sensitization include	4,000	Addressable market (annually) 4,000-6,000 split across Europe and the US				
ES I		A Company		Patients that are likely to be transplanted with a compatible donor	Patients unlikely to be transplanted under current prioritization programs	
Pregnancy	Blood transfusion	Previous transplantations			idefirix imlifidase	

¹ EDQM. (2020). International figures on donation and Transplantation 2019 ² 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





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

Link article in The Age from November 5, 2023



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

Link article in Medical University of Vienna News from August 8, 2023

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

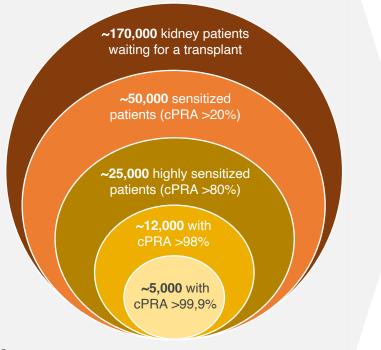
Link article Veneto.it from December 14, 2022



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.



39 Source: The U.S. Department of Health and Human Services and irodat.org

Source: Global Observatory on Donation and Transplantation (2023) and Company estimates

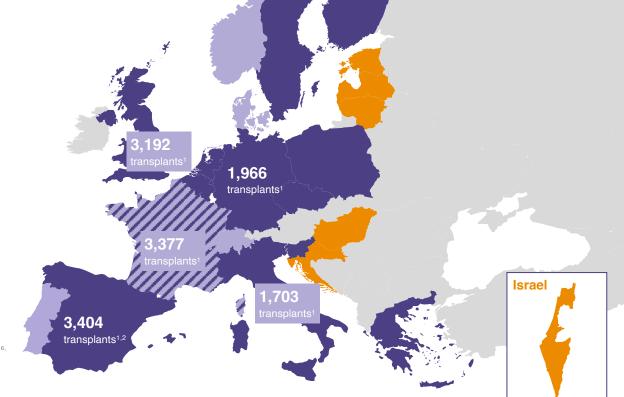
Market Access obtained in 14 markets covering markets with 3/4 of transplant volumes in Europe

Positive reimbursement decision received in Slovenia as of February 1, 2024



- Reimbursed Early Access Program
- Pricing & reimbursement obtained (country or clinic level)
- Territories covered commercially by Medison Pharma





¹ Annual kidney transplantations 2022. Transplantation data is from Global Observatory on Donation and Transplantation, <u>https://www.transplant-observatory.org/</u>[Accessed 2023-07-10]

A positive recommendation for pricing and reimbursement of Idefirix® in Spain was published on February 6, 2023, https://www.sanidad.gob.es/profesionales/farmacia/pdf/20230202_ACUERDOS_CIPM_230.pdf

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







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 **Eurotransplant zone** Eurotransplant 8 member countries **Eurotransplant Kidney Acceptable Mismatch Allocation System** (AM) Program (ETKAS) Donor age <65 **Incompatible patients** Pilot **Desensitization Program** idefirix (imlifidase tier) imlifidase Inclusion Criteria: 2 years on ETKAS waitlist + **20** patients with the 3 years in AM program longest waiting time

Completed and ongoing studies in kidney transplantation



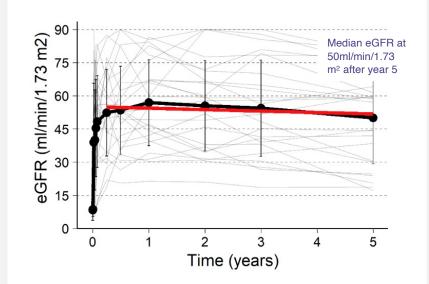
Long term data confirms sustained benefit at five years in graft survival and overall patient survival



- After 5 years graft survival (death censored) was 82%, in line with outcomes seen at 3-years post-transplant
- Patient survival rate was 90%¹
- At five years kidney function measured by mean estimated glomerular filtration rate (eGFR) was 50 ml/min/m² 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

¹⁾ Three deaths occurring between six months and one year, and no deaths occurring between one and five years (not related to imlifidase)

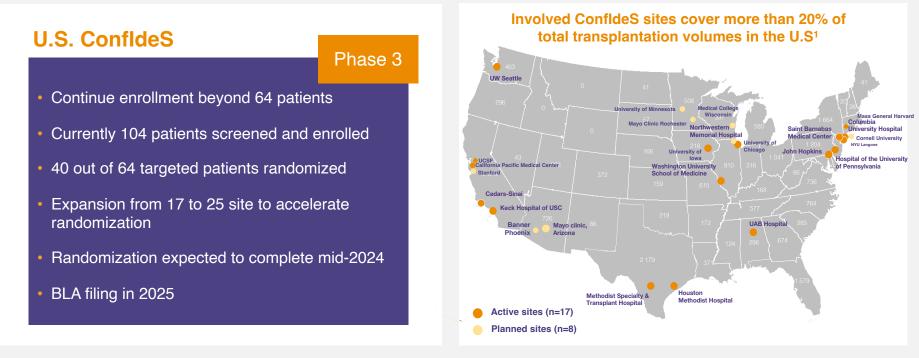
Stable long-term outcomes on graft survival and patient survival





Potential to disrupt transplantation care in the U.S. with imlifidase

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



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





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

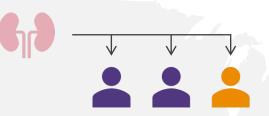
KAS gives patients points with regards to levels of sensitization, increasing the likelihood of finding a match for sensitized patients

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

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

¹ OPTN, <u>https://optn.transplant.hrsa.gov/media/1200/optn_policies.pdf</u> ² p=95%, Clinical Journal of the American Society of Nephrology, 2016

³ Company estimates, OPTN and Global Observatory on Donation and Transplantation



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 ²	Estimated number of patients on waitlist (U.S) ³
sensitization	ess or oderate	0-20	1-2	~66,000
	Less or moderate	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

Timeline

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
- 104 patients enrolled across 17 sites with 40 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

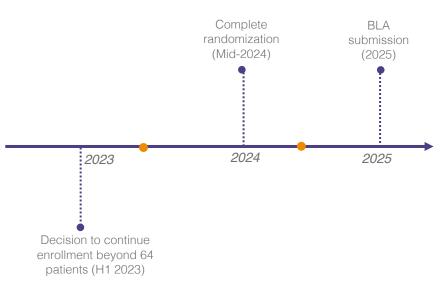
- Mean estimated glomerular filtration rate (eGFR) "kidney function" at 12 months.
- For randomized patients who do not undergo transplantation, lose their graft or die before 12 months, eGFR will be set to zero, consistent with kidney failure

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





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



Idefirix receives provisional approval in Australia

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

Transplant statistics

First living donor transplantation

~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

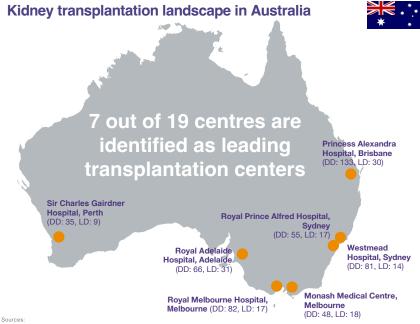
76/24 deceased vs living donor transplantations

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

First living donor

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

<u>Link article in The Age from</u> <u>November 5. 2023</u>



1. ANZDATA. The Australia and New Zealand Dialysis and Transplant Registry (ANZDATA) collects information about people receiving dialysis or kidney

transplant for end-stage kidney disease in Australia and New Zealand. 2. ANZDATA 2022 Annual Report #45; available at: https://www.anzdata.org.au/report/anzdata-45th-annual-report-2022-data-to-2021/

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 ~56% into completion end of Q4'23
- 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



Study 01 Phase 1

The 01 study results

Data showed complete removal of IgG and a good tolerability profile

Efficacy

Safetv

CLINICALTRIALS.GOV ID

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

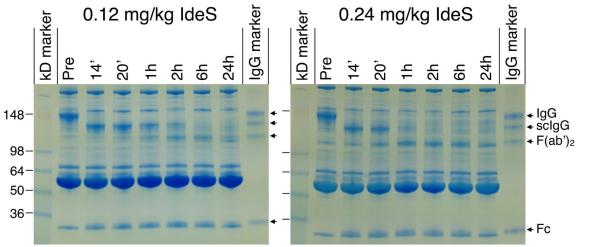
 Randomized placebo-controlled dose-escalation study with 29 (20 active plus 9 placebo) healthy subjects

STATUS

Completed

 The 01 study showed that Imlifidase was considered safe to use 50

- ✓ 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')₂ and Fc-fragments. Maximal effect was accomplished 2-6 hours after dosing.
- ✓ 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





Study 02 Phase 2

CLINICALTRIALS.GOV ID

NCT02224820

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
- Transplantation not part of protocol

STATUS

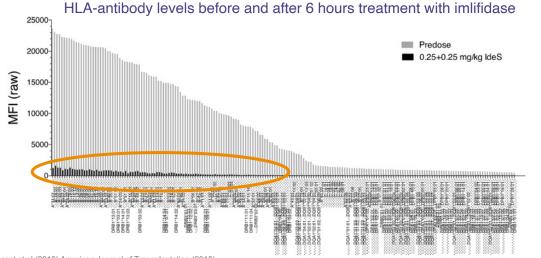
Completed

- · Primary efficacy endpoint reached
- Safe and well tolerated

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 transplantation¹

- ✓ 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)





Study 03 Phase 2

CLINICALTRIALS.GOV ID

NCT02475551

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 antibod 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

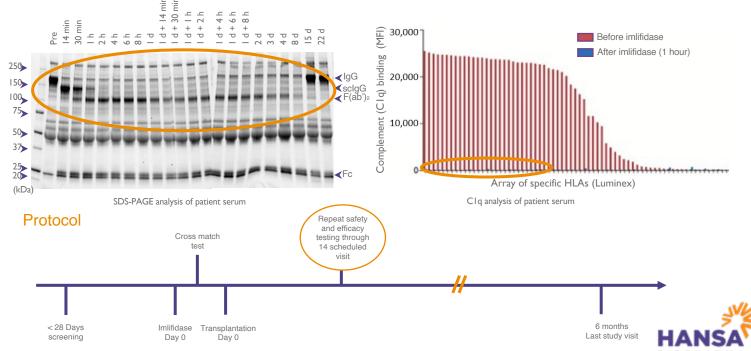
Proofed safety and efficacy with HLA antibodies at acceptable levels; enabling transplantation in all patients

The 03 study proved safety and efficacy

HLA antibodies at acceptable levels; enabling transplantation in all patients

Analysis of IgG in patient serum before and after imlifidase treatment

Analysis of complement binding HLA antibodies before and after imlifidase



Jordan SC, et al. (2017) NEJM Aug 3;377(5):442-453.

Study 04 Phase 2

The 04 study results

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

Graft function (eGFR) post six months

100-

80.

60

40-

20.

een

eGFR (mL/min/1.73 m²)

(median and IQR)

CLINICALTRIALS.GOV ID

NCT024226684

SUBJECTS

17 Patients (US)

DOSES/FOLLOW UP TIME

0.24 mg/kg 180 days

MAIN OBJECTTIVES

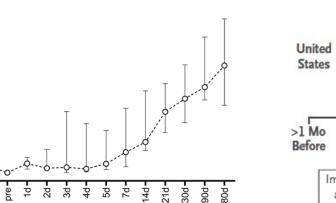
- Safety in combination with Cedars Sinai's "standard protocol" for desensitization of highly sensitized patients
- Efficacy in preventing AMF

STUDY DESIGN

- Investigator initiated stud
- Investigator sponsored INI
- Imlifidase to desensitize patients previously treated with rituximab and IVIg
- Deceased donors only

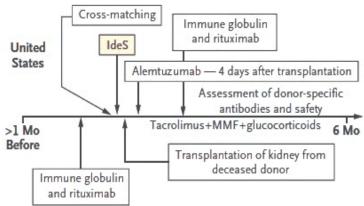
STATUS

Completed



nominal time

Cedar's desensitization protocol in combination with imlifidase





Study 06 Phase 2

CLINICALTRIALS.GOV ID

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 patients who may have had prior unsuccessful desensitization or patients in whom it was unlikely to be effective

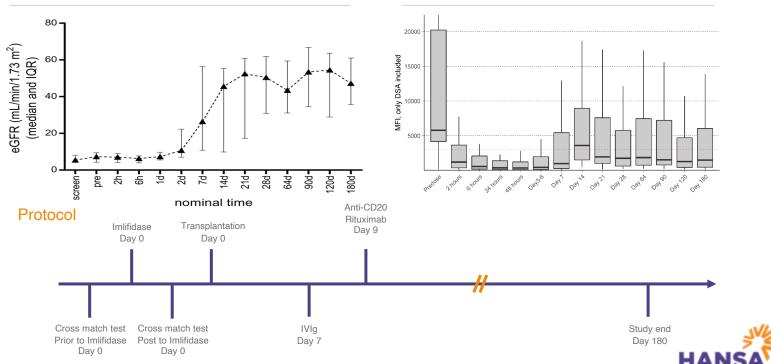
STATUS

Completed

The 06 study results

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

Graft function (eGFR) post imlifidase



DSA level pre-dose and post imlifidase

Jordan SC, et al. (2019).

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	 Randomized placebo-controlled dose- escalation study with 29 (20 active plus 9 placebo) healthy subjects 	Safety and tolerability	• Efficacy in IgG cleavage, the pharmacokinetics (PK) and immunogenicity of imlifidase	Complete PLOS ONE (2015) ¹
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 ²
Study 03 Phase 2	10 subjects	Single-center, single-arm, open-labelNo prior desensitization	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) ³
Study 04 Phase 2	17 subjects	 Investigator initiated study, Single-center, single-arm, open-label All patients had prior desensitization with IVIG and/or plasmapheresis 	Assessment of efficacy in eliminating DSAs in DSA and flow cytometry positive, highly sensitized patients Assessment of safety Assessment of efficacy/kidney function	 Serum creatinine (0-6 months) Proteinuria (0-6 months) DSA at multiple timepoints posttransplant (day 0, D30, D90, D180) 	Complete The New England Journal of Medicine (2017) ³
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	 DSA reduction at multiple timepoints (2, 6, 24, 48 h after imlifidase) Time to create negative CDC XM test and/or flow cytometry (FACS) XM test Safety 	Complete Annals of Surgery (Lonze et al, only New York patients) Montgomery et al ATC abstract (2019) ⁴
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 th the Bacterial Enzyme IdeS - A Novel Therapeutic Opportunity", PLOS ON	 Patient survival, kidney function, comorbidity, treatments and QoL Safety DSA Immunogenicity NE 2015, 10(7) 	Ongoing Long term data confirms benefit through to year 5 (Oct. 2023)

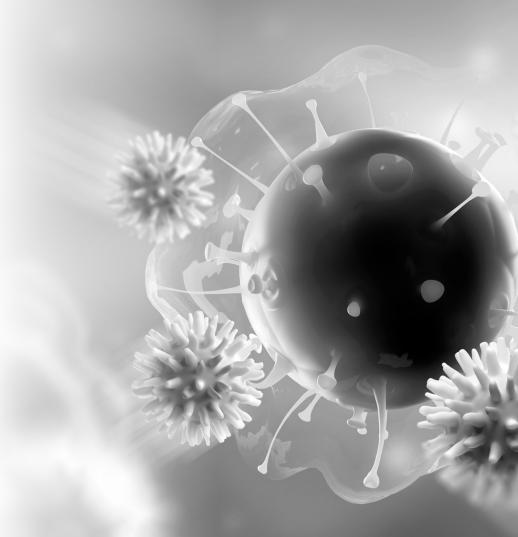
1 Winstedt el al., "Complete Removal of Extracellular IgG Antibodies in a Randomized Dose Escalation Phase I Study with the Bacterial Enzyme IdeS – A Novel Therapeutic Opportunity", PLOS ONE 2015, 10(7)

55 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

Jordan et al., "IgG Endopeptidase in Highly Sensitized Patients Undergoing Transplantation", N Engl J Med 2017;377:442-53.
 Montgomery et al., "Safety And Efficacy Of Imilifidase In Highly-sensitized Kidney Transplant Patients: Results From A Phase 2 Study" ATC Abstract, 2019

Our antibody cleaving enzyme technology





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

Post approval study running in

parallel with commercial launch

0

Planned

Onaoina



Project	Indication	Research/ Preclinical	Phase 1	Phase 2	Phase 3	Marketing Authorization	Marketed	Partner	Next Anticipated Milestone
Imlifidase	EU: Kidney transplantation in highly sensitized patients ^{1,2}								EU: Additional agreements around reimbursement / Post approval study to be completed by 2025
	U.S. "ConfIdeS": Kidney transplantation in highly sensitized patients ^{1,2}								Completion of randomization (64 patients) mid 2024
	GOOD-IDES-02: Anti-GBM antibody disease								Complete enrollment (50 patients)
	16-HMedIdes-12: Active Antibody Mediated Rejection (AMR)								Publication in peer-reviewed journal
	15-HMedIdeS-09: Guillain-Barré Syndrome (GBS)								Comparative efficacy analysis 2024
	Investigator-initiated trial in ANCA-associated vasculitis ³								Complete enrollment (10 patients)
	SRP-9001-104: Pre-treatment ahead of gene therapy in Duchenne Muscular Dystrophy (DMD)		Phase 1b					Sarepta Therapeutics	First patient treated in clinical study
	Pre-treatment ahead of gene therapy in Limb- Girdle Muscular Dystrophy (LGMD)							Sarepta Therapeutics	Preclinical research
	Pre-treatment ahead of gene therapy in Pompe disease							AskBio	Preclinical research
	Pre-treatment ahead of gene therapy in Crigler- Najjar syndrome							Genethon	Commence clinical study
HNSA- 5487	NICE-01 phase 1: HNSA-5487 – Lead candidate from the NiceR program								Further analysis around endpoints from Phase 1 to be completed in 2024 incl. selection of lead indication

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

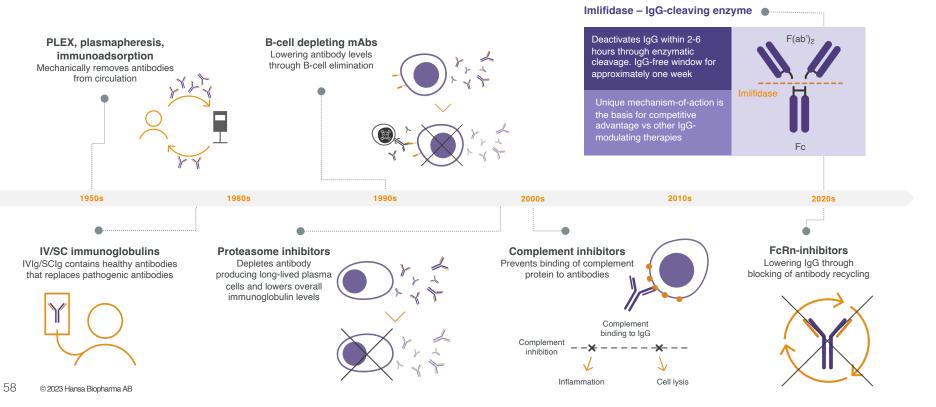
² Lorant et al., American Journal of Transplantation and 03+04 studies (Jordan et al., New England Journal of Medicine) ³ Investigator-initiated study by Dr. Adrian Schreiber and Dr. Philipp Enghard, at Charité Universitätsmedizin, Berlin, Germany

Completed



Development of IgG-modulating technologies

Mechanisms can be both complementary and competing

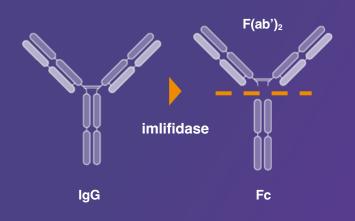


Imlifidase mode of action

Novel approach to effectively eliminate pathogenic IgG

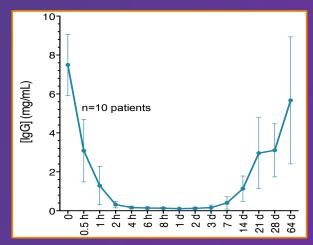
Proven mechanism of action

- 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



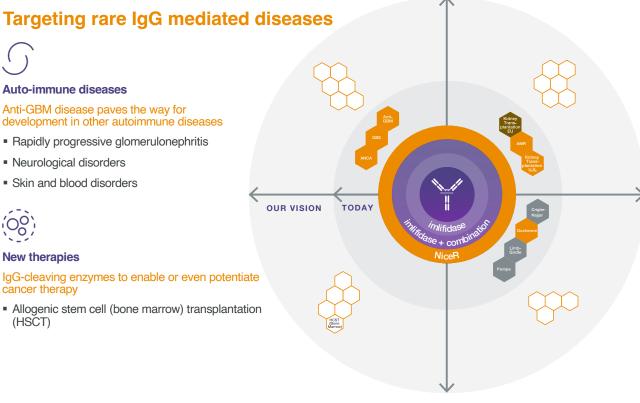
Inactivation of IgG in human serum

- 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





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

(HSCT)

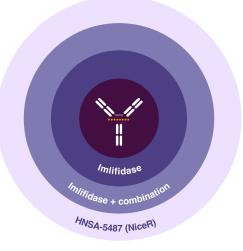
Clinical development

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



IgG levels after imlifidase treatment in in highly sensitized patients - First 30 days IgG Time (Days) IgG levels after imlifidase treatment in highly sensitized patients - 1 year and beyond IgG

0.75

1.25

Time (Years)

0.25

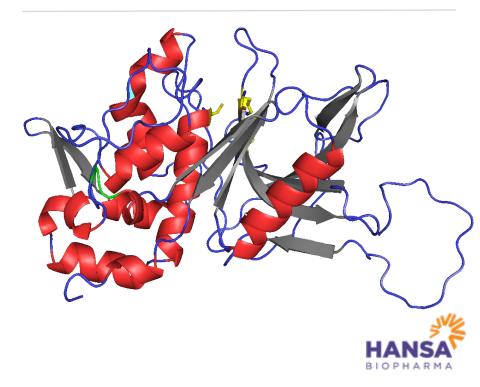
61

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

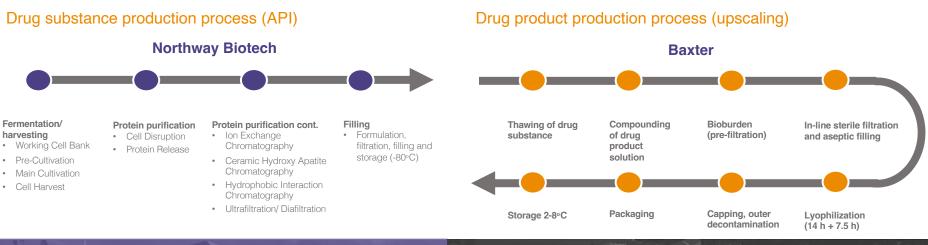
- The product for commercial supply will be a lyophilized (cold chain) powder concentrate (11 mg solution) for infusion currently with a claimed shelf life of 18 months at 2-8°c storage. Ongoing stability studies indicate a shelf life of at least 24 months.
- Each vial is filled with 1.2 mL of a 10 mg/mL 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



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

March Ball

- 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

64

Clinical development programs

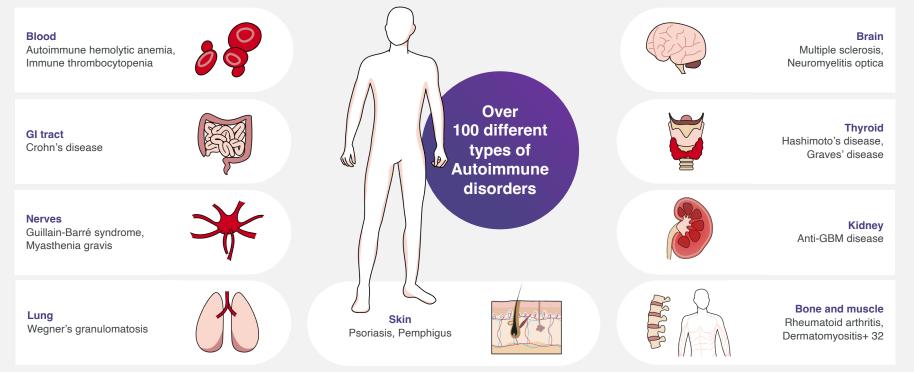






Autoimmune attacks

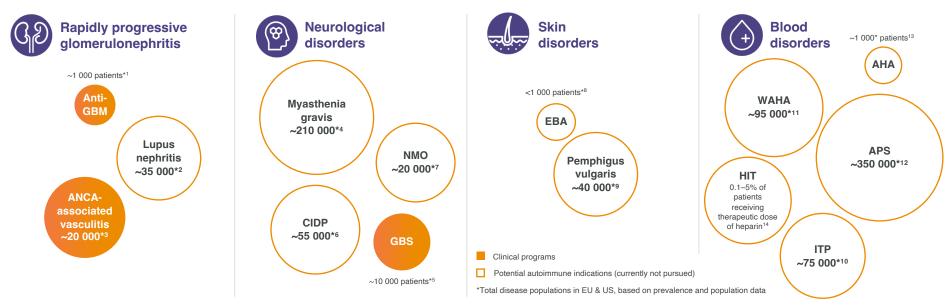
A result of when the body's immune system by mistake damages its own tissue





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 ¹DeVrieze, B.W. and Hurley, J.A. *Goodpasture Syndrome*. StatPearls Publishing, Jan 2021

https://www.ncbi.nlm.nih.gov/books/NBK459291/ [accessed 2021-03-29]

³Patel, M et al. The Prevalence and Incidence of Biopsy-Proven Lupus Nephritis in the UK. Arthritis & Rheumatism, 2006. ³Berti 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.

⁴Myasthenia Gravis. National Organization for Rare Disorders, <u>https://tarediseases.org/rare-diseases/mvasthenia-gravis/</u>[accessed 2021-03-29]

SGuillain-Barré syndrome. Orpha.net, <u>https://www.orpha.net/consor/col-bin/OC_Exp.php?Lno=GB&Expert=2103</u> [accessed 2021-03-29]
Chronic Inflammatory Demyelinating Polyneuropathy: Considerations for Diagnosis, Management, and Population Health. The
American Journal of Managed Care, <u>https://www.aimc.com/siew/chronic-inflammatory-demvelinating-polyneuropathy-considerations-for-diagnosis-management-and-population-health</u> [accessed 2021-03-29]

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

⁶Mehren, C.R. and Gniadecki, R. *Epidermolysis bullosa acquisita: current diagnosis and therapy*. Dermatol Reports, 2011-10-05

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

¹⁰Immune Thrombocytopenia. National Organization for Rare Disorders, <u>https://rarediseases.org/rare-diseases/immune-thrombocytopenia//</u> [accessed 2021-03-29]

¹¹Warm Autoimmune Hemolytic Anemia. National Organization for Rare Disorders, <u>https://rarediseases.org/rare-diseases/warm-autoimmune-hemolytic-anemia/</u> [accessed 2021-03-29]

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

¹³NORD, Acquired Hemophilia [accessed 2022-10-17], available at <u>https://rarediseases.org/rare-</u>

diseases/acquired-hemophilia/

¹⁴Hogan 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

Standard of Care

Cyclophosphamide (CYC)

Plasma Exchange

Glucocorticoids

Incidence 1.6 in a million affected annually^{1,2} Inflammation in the glomeruli Early symptoms are unspecific... ...but can lead to rapid destruction of the kidnev and/or the lung

Data published in JASN

CLINICAL RESEARCH

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

Prodrik, Uhlin,^{1,2} Wladimir Szpirl,³ Andreas Kondolcher (), ⁴ Annette Bruchfeld, ^{1,3} Ingal Sown,⁴ Lionel Rossiang (), ⁵ Eric Dougas (), ⁴ Annette Bruchfeld, ^{1,3} Codrik Rafar, ¹ Maech Myslovek,¹ Vladimir Teora (), ⁴ Formation, ¹ Christian Källman, ¹³ Charlotte Eliking, ¹³ Sophern MicAdou, ¹⁴ Johnson, ¹⁴ Lionette, ¹³ Ingeborg Bajema, ¹⁶ Elisabeth Sonesson, ¹² and Marten Segelmark O^{1,2} Due to the number of contributing authors, the affiliations are listed at the end of this article

ABSTRACT Background The prognosis for kidney survival is poor in patients presenting with circulations anti-glomenuite basement membrane (QBM) antibodies and servers kidney injury. It is unknown it treat-ment with an endopeptidase that deaves circulating and kidney bound (pG cin aber the prognosis. The set of the set of

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Conclusions in this pilot study, the use of millidiase was also dated with a better outcome compared with earlier publications, without major safety issues, but the findings need to be confirmed in a randomized

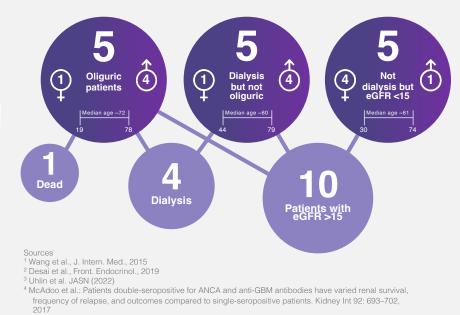
Clinical Trial registration number: EUDRACT 2016-004082-39 https://www.clinicaltrials search/trial/2007-001377-28/results

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

lidney survival is poor in patients presenting with circulating anti-glomerular basement mem-brane (anti-GBM) antibodies and advanced kid. Renved November 12, 2021. Accepted Petrasy 1, 2022.

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

10 out of 15 patients were dialysis independent after six months vs. the historical cohort⁴, where only 18% had functioning kidney



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 30-40 clinics across US/UK/EU

Doses/Follow up time

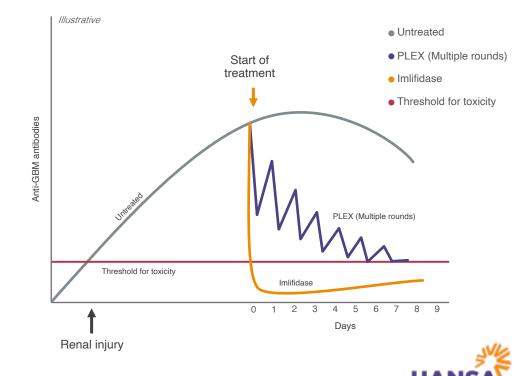
Dosage 0.25mg/kg with 180 days follow up

Main Objectives

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

Status

18/50 patients enrolled as of Feb 2, 2024





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

Today's standard of care, IVIg or PLEX Potential with imlifidase Incidence Standard of Care Illustrative Illustrative Intravenous immune alobulin (IVIG) or Paralysis Paralysis Plasma Exchange (PLEX) in 100.000 annually in 7 major markets¹ Infection Infection Course of GBS weakness weakness Antibodies Indication High unmet need å ٩ Ω 8 12 12 Rapidly and 1/3 of hospitalized patients require mechanical progressively Time from onset of weakness (weeks) Time from onset of weakness (weeks) weakens ventilation extremities Remaining long lasting symptoms in ca 40% of Triggered Study design: Study is an open-label, single arm, multi-center trial in 30 patients frequently by patients viral infections First high-level data: Imlifidase was safe and well tolerated, and when compared to previously published data - a rapid improvement across several efficacy outcome **FDA** granted Orphan Drug measures was observed in patients treated with imlifidase in combination with SoC **Designation to imlifidase** Path forward: Further analysis will contextualize efficacy data from the single arm for the treatment of GBS

study through a comparison to data from patients receiving standard of care

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

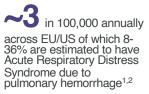
Sources:

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

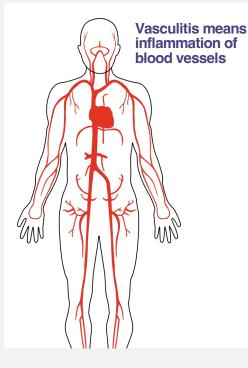


Standard of Care

 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 patients⁵
- 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

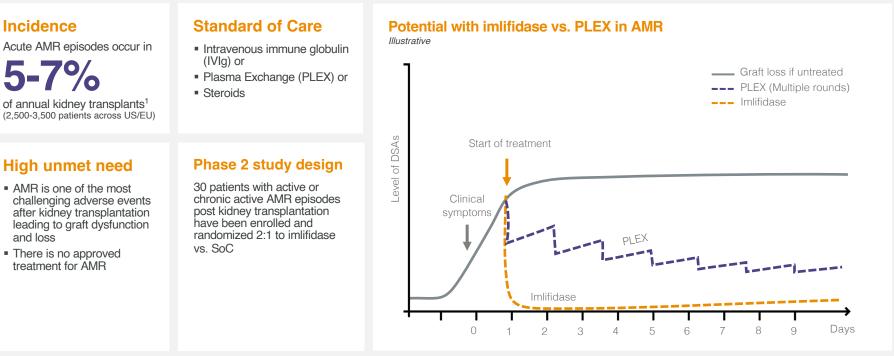
- Single arm, single center, phase 2 study with the primary objective to evaluate efficacy and safety on top of SoC
- 10 patients with severe ANCA-associated vasculitis and Acute Respiratory Distress Syndrome will be treated with imlifidase on top of SoC
- 3 out of a target of 10 patients treated Q4'23
- Trial led by Dr. Adrian Schreiber and Dr. Philipp Enghard at Charité

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Berti A, et al. Arthritis Rheum atol. 2017;69.
 Rathman J, et al. RMD Open. 2023;9:002949.
 Falk RJ, Jennette JC. The New England journal of medicine. 1988;318(25):1651-7.
 Flossmann O, et al. Annais of the rheumalic diseases. 2011;70(3):488-94.
 S. Booth AD, et al. America Journal of kidney diseases. 2003;41(4):776-84.



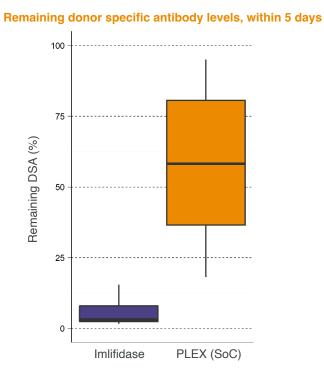
Long term graft survival is challenged by antibody mediated rejection (AMR) episodes following kidney transplantation



¹ 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



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)
- 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

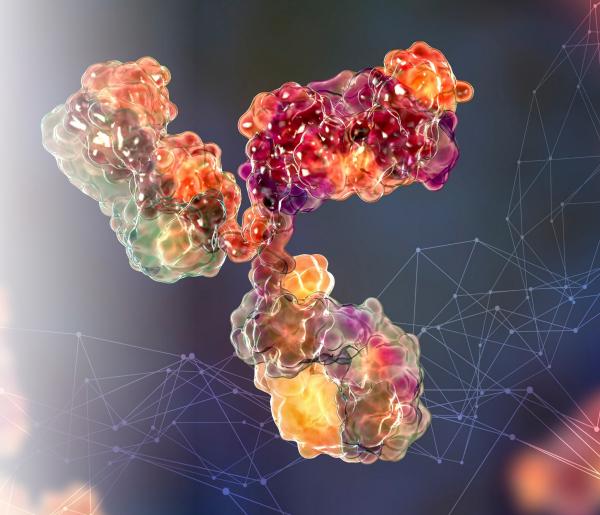
- The imlifidase arm demonstrated a 74% six-month graft survival and eGFR of 30mL/min/1.73m2. A 100% six-month graft survival and eGFR of 33mL/min/1.73m2 was observed in the PE arm
- Given the heterogeneity of the patient population, the trial was not designed nor sufficiently powered to be able show 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 <u>Link to Recommended Treatment for Antibody-mediated Rejection After Kidney Transplantation</u>
- 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

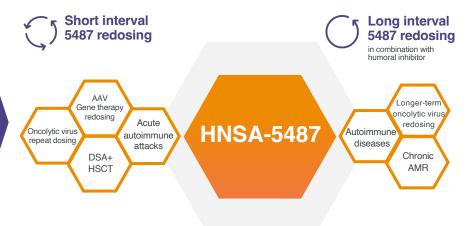
Encouraging high-level results of HNSA-5487

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')₂ 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

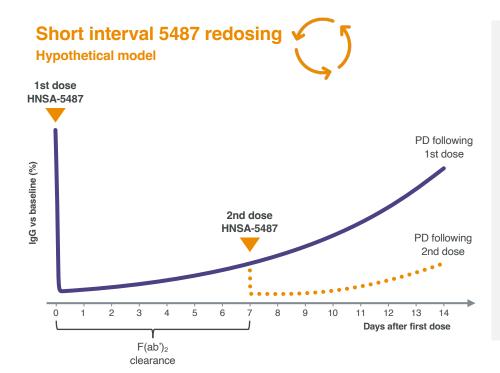
Potential indication landscape for HNSA-5487

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

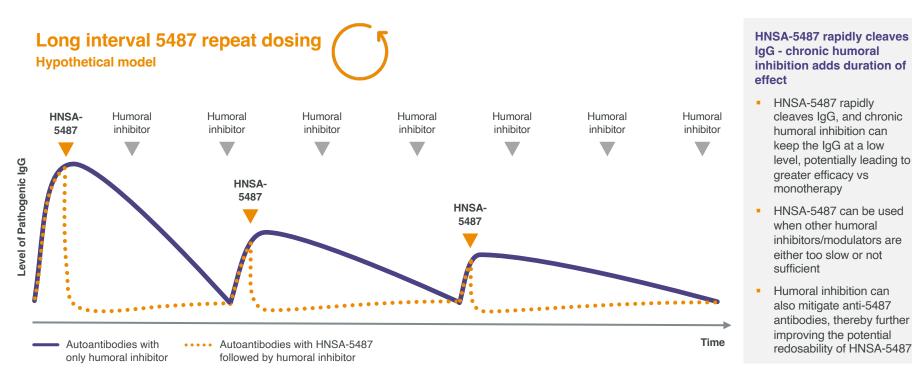
Short-term treatment in autoimmune diseases

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 and chronic AMR



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Gene Therapy





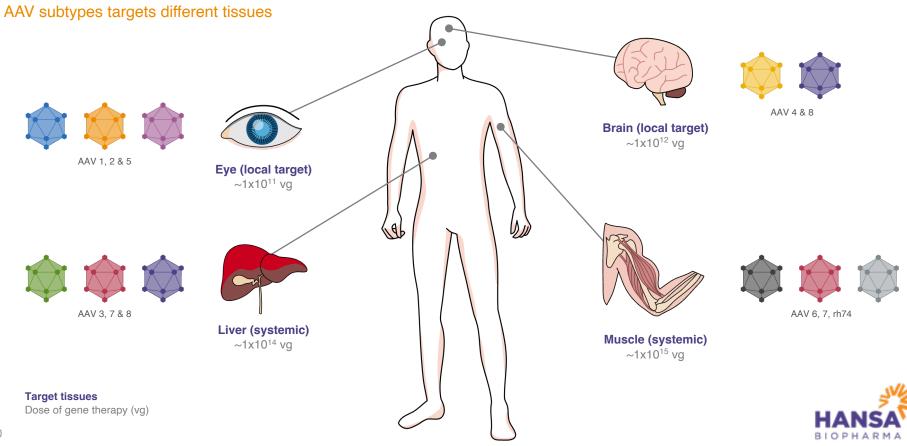
Exploring opportunities in gene therapy



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



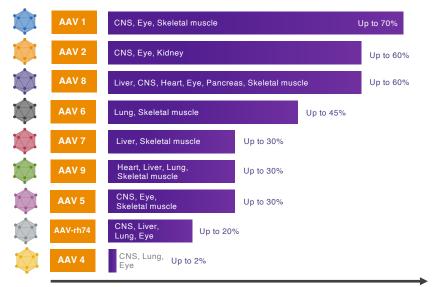
Pre-existing antibodies towards AAVs are a limiting factor in Gene Therapy and excludes patients from clinical trials



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

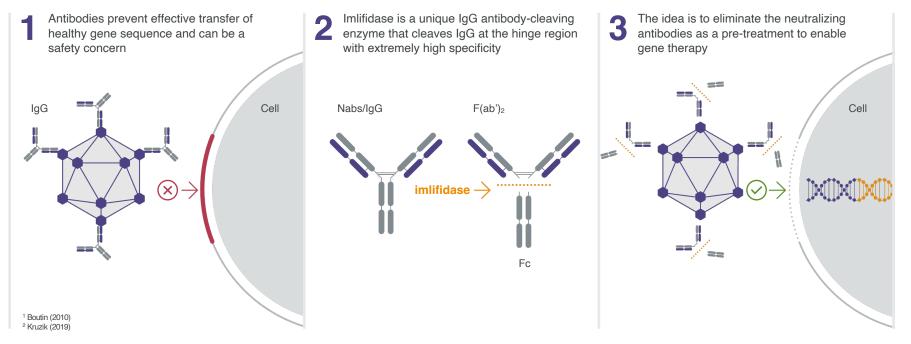


Source: Boutin et al. (2010), Griffin et al. (2019), Wang et al. (2018), Calcedo & Wilson (2013), Falese et al. (2017), Haiyan et al. (2017), Ellsworth et al. (2018), Greig et al. (2017), Klamroth et al. (2022)

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



Between approximately 5%-70%^{1,2} of patients considered for gene therapy treatment carry neutralizing anti-AAV antibodies forming a barrier for treatment eligibility



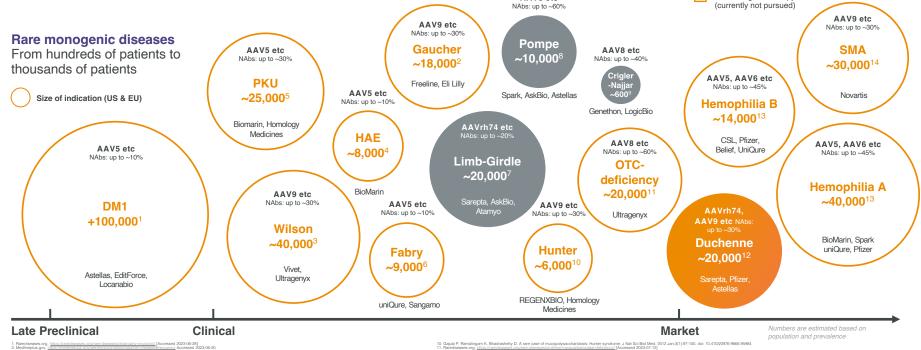


Preclinical programs with Sarepta, AskBio and Genethon

Ongoing clinical study with Sarepta Potential gene therapy indications

Systemic gene therapy is an emerging opportunity

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



AAV8 etc

12. 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:

2 Medlineplus.gov

iseases/nomne-disease/ [Accessed 2023-07-12] peline/cngler-nauar-syndrome/ [Accessed 2023-06-15]

3. Sandahi To, Laursen TL, Munk DE, Vilstrup 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. Ghazi A, Grant JA. Hereditary angioedema: epidemiology, management, and role of icatibant. Biologics. 2018;7:100-13. doi: 10.12147/BTT.S27586. Exob. 2013 May 3. PMID: 2866043; PMICD: PMIC3847445.
 Hilet A, et. al The Genetic Landscape and Epidemiology of Pheripitetonuma. Am J Hum Genet. 2020 Aug 6;107(2):234-250. doi: 10.1016/j.ajig.0220106.006. Epud 2020 util 4. PMID: 2866217; PMIC3847445.

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 Contraction 14. Verhaart, L.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 Rare Dis 12. 124 (2017). https://doi.org/10.1188/s13023-017-0871-8 https://medineplus.gov/genetics/condition/fabry-disease/fifrequency [Accessed: 2023-07-12] YJ., Wang, CH. et al. Clinical, pathological, maging, and genetic characterization in a Taiwanese cohort with limb-girdle muscular dystrophy. Orphanet J Rare Dis 15, 160 (2020)

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8.3 ^{6.} Medilinepius.gov, 7. Liang, WC., Jong



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	Indication exclusivity	Collaborative res	Collaborative research, development and commercialization			
S A R E P T A	 World leader within gene therapy targeted at muscular dystrophies Pre-clinical and clinical plan 	Duchenne Muscular Dystrophy (DMD) 1/3,500 to 5,000 male births worldwide		Preclinical Development	Initiated Clinical Development	Regulatory Approvals	Commercialization
THERAPEUTICS	 Regulatory Promotion FDA approval in 4–5-year-old kids suffering with DMD 	Limb-Girdle Muscular Dystrophy Global prevalence of ~1.6 per 100k individuals		Preclinical Development	Clinical Development	Regulatory Approvals	Commercialization
AskBio	 Early innovator in gene therapy Conducts pre-clinical and clinical trials (Phase 1/2) 	Pompe disease Approximate incidence is 1 per 40,000 births, or ~200 per year in the US + EU		Preclinical Development	Clinical Development Phase 1/2 study (feasibility)	negotiate a p development	
	 A pioneer in the discovery and development of gene therapies Conducts pre-clinical and clinical trials (Phase 1/2) 	Crigler-Najjar syndrome Approximately incidence is 0.6-1 case per one million people or 600 patients in Europe and the U.S		Preclinical Development	Clinical Development Phase 1/2 study (feasibility)	on research a The compani subsequent a	reement is focused and development es will consider a agreement for ration at a later stage

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

SAREPTA

Sarepta's key resources

- World leader within gene therapy targeted at muscular dystrophies
- Pre-clinical plan: PoC and IND-tox
- Clinical / Regulatory
- Promotion
- FDA approval in 4–5-year-olds suffering with DMD

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







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

Transduction[†] Expression in Skeletal Muscle[‡] 1.5 vg/nucleus normalized to Cohort 1 (a.u.) ns 1.0 eGFP expression (%Area) 50 40 30 0.5 20 10 0.0 0 Cohort 3: Cohort 4: Cohort 5: Cohort 3: Cohort 4: Cohort 5: AAV AAV Pre-treatment AAV treatment AAV treatment with no Pre-treatment with imlifidase treatment with imlifidase treatment pre-existing Ab with pre-existing Ab to decrease pre-existing Ab with no with preto decrease pre-existing existing Ab[¶] pre-existing Ah§ Ab¶

*P<0.05. [†]Data are represented as mean ± SEM and analyzed by one-way ANOVA followed by post-hoc analysis with Dunnett's multiple comparison test . [‡]Data are represented as the mean ± SEM for the percent area for all of the muscle tissues analyzed at terminal necropsy. [§]AAVrh74 titer <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

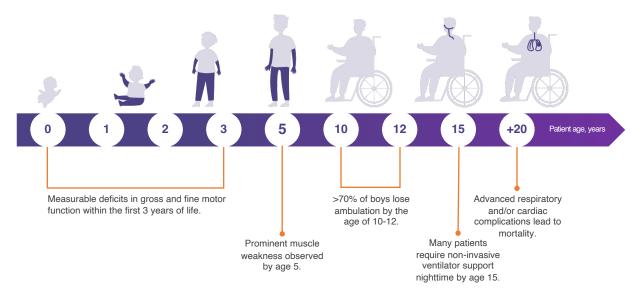
male births worldwide

~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]



Sarepta's EMBARK (SRP-9001-301) data fails on meeting primary endpoint, but secondary endpoints favors ELEVIDYS

Data from EMBARK will be used to file for extended label beyond 4-5-year-olds

Study design

Phase 3, multinational double-blind, randomized, placebo-controlled study evaluating efficacy of ELEVIDYS (SRP-9001) compared to placebo in boys with DMD aged 4-7 years old

Primary endpoint:

× Change in NSAA total score from Baseline to Week 52

Important secondary endpoints:

- Change in time to rise (TTR) from floor to Baseline to Week 52 (p=0.0025)
- ✓ Change in 10-meter walk/run (10MWR) from Baseline to Week 52 (p=0.0048)

Sarepta believes data support label expansion following results and discussions with FDA

- No new safety signals were observed
- Positive discussions with the FDA following topline results
- NSAA may not have been sufficiently sensitive to show a treatment effect at the 52-week timepoint
- Natural history study of DMD indicate that a time to rise score greater than 5 seconds is highly predictive of loss of ambulation.
 - EMBARK showed that treatment with ELEVIDYS reduced the odds of progressing to a rise time of greater than 5 seconds by 91% across all patients and age groups.

Clinical study initiated with imlifidase as pre-treatment to ELEVIDYS in Q4'23



Limb-girdle muscular dystrophy (LGMD) is a group of diseases that cause weakness and wasting of the muscles

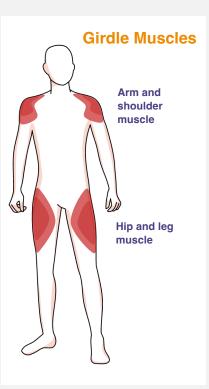
Incidences

1.63 per **100,000** individuals; over 30 subtypes exist, and both genders are affected equally.

~14% of patients have preexisting IgG antibodies to rh74

Indication

- Limb-Girdle can be caused by a single gene defect that affects specific proteins within the muscle cell
- Symptoms may appear at any age. Patients may have trouble getting out of chairs or climbing stairs. Eventually, they may need a wheelchair to get around.



SRP-9003 β -sarcoglycan (SGCB) gene therapy for treatment of LGMD2E

Initiation of VOYAGENE

On Feb 17, 2023, Sarepta announced that it had commenced dosing in the VOYAGENE study (Study SRP-9003-102) a Phase 1 trial of SRP-9003,

VOYAGENE is a U.S.-only study that will enroll ambulant patients aged 18 years or older and non-ambulant patients, ages 4-50 years, using clinical process SRP-9003 material.

Following positive results in the initial Phase 1 study SRP-9003-101 exploring two different doses, the VOYAGENE study will allow gathering additional data on the intended dose of SRP-9003 in a broader population of patients while finalizing plans for a global Phase 3 study (SRP-9003-301) that utilizes commercially representative material.

More information on the study is available at https://genesislgmd.com/study/voyagene

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





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







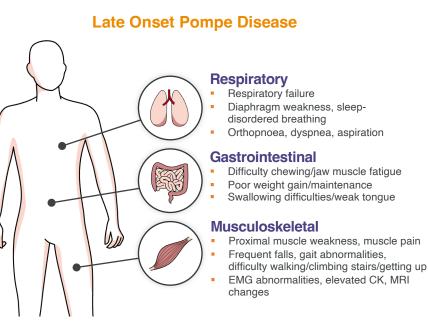
An ultra-rare indication impacting

1 in 40,000 births or ~200 cases per year across US and Europe

~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



Sources:

Pompe Disease, https://rarediseases.org/rare-diseases/compe-disease/ [accessed 2023-05-15]

Jaculated by Hansa on the basis of incidence numbers from <a href="https://tarediseases.com/rate-diseases/and life expectancy estimates from https://compadiseasen.com/late-onset-pompe-disease/, as well as population statistics for the United States and European information for the Unite

ESGCT 27th Annual Congress Abstracts, Sensitivity of different AAV serotypes to pre-existing NAbs, https://www.esoct.eu/home/Barcelona%202019/NEW_All%20Barcelona%20Abstracts.pdl

Bowing at L Previence of serving IgG and neutralizing factors against adeno-associated virus (AAV) types 1, 2, 5, 6, 8, and 9 in the healthy population: implications for gene therapy using AAV vectors. Hum Gene Ther, 2010, https://oubmed.ncbi.nlm.nih.gov/200958

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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



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





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

Karen Huang[©], Laetitia van Wittengerghe', Béatrice Marolleau', Adeline Miranda', Anna Fabian ander 23, Hayley Hanby², Sandrine Delignat Victoria Daventure³⁴, Heena Beck², Xavier M. Anguela², Giuseppe Ronzitti^{® 15}, Sean M. Armour²

medicine

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



Newborn with jaundice

Incidences

An ultra-rare indication impacting

0.6-1 per **1,000,000** newborns around the world^{1,2} **~30%** of patients have pre-existing lgG antibodies to AAV8

Healthy newborn Very line of the second s

Jaundice in newborns

Build-up of free bilirubin in serum and tissue can become toxic in the brain

Bilirubin is unable to be

effectively conjugated in the liver

Indication

- Build-up of free bilirubin in serum and body tissues, which can become toxic in the brain³
- Severity can vary from mild to severe, no medication approved for treatment so far

Sources

¹⁰Collaud F. Bortolussi G. Guianvarc'h 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. Minorozi F. Precincial Development of an AAPA-MIGHTA1 Vector for the Transmont Ofer NaNar National Colling Day. 2019 March 12:157-174

Sorahimi A. Rahim F. Crigler-Naliar Syndrome: Current Perspectives and the Application of Clinical Genetics. Endocr Metab Immune Disord Drug Targets. 2018;18(3):201-21

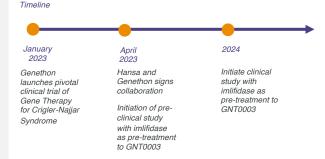
³⁾ American Liver Foundation, https://liver/oundation.org/liver-diseases/pediatric-liver-information-center/pediatric-liver-disease/cripter-nailar-syndrome/ [Accessed 2023-06-12]



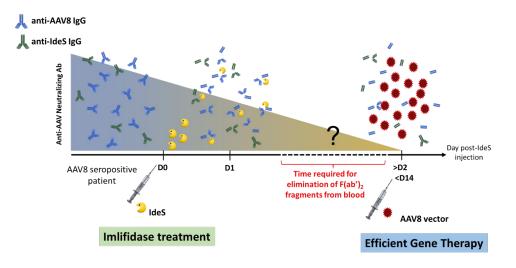
Feasibility program to evaluate imlifidase as pre-treatment to Genethon's HANSA gene therapy in patients with severe Crigler-Najjar syndrome

Study design and timeline

- Study expected in a small patient population
- GNT0003: 5E12 vg/kg
- Imlifidase: 0.25 mg/kg (possible with two doses)



Evaluation of safety and efficacy of "GNT0003" in seropositive to AAV8 patients pre-treated with imlifidase



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

ESG Overview







At Hansa we are committed to driving our business forward in a sustainable way guided by three strategic ESG principles

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



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.

1 ### # *####		
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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. 1 Mart 3 Martine 17 Interes



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.





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.





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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





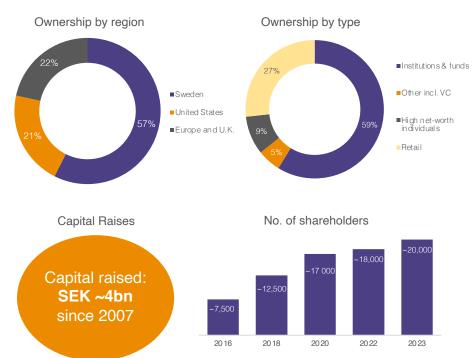
Ownership in Hansa Biopharma



Top 10 shareholders as per December 31, 2023

Name	No. of shares	Ownership
Redmile Group, LLC	9,653,214	18.3%
Nexttobe AB	2,155,379	4.1%
Jeansson, Theodor	2,100,000	3.7%
Olausson, Thomas	1,917,000	3.6%
Försäkrings AB Avanza Pension	1,765,506	3.4%
Fjärde AP-Fonden (AP 4)	1,700,000	3.2%
Tredje AP-Fonden (AP 3)	1,389,650	2.6%
Max Mitteregger Kapitalförvaltning AB	725,000	1.4%
VOB & T Trading AB	644,800	1.2%
BWG Invest SARL	600,000	1.1%
Other	30,021,247	57.0%
Total	52,671,796	100.0%

Classification of ownership as per June 30, 2023



Company collected consensus

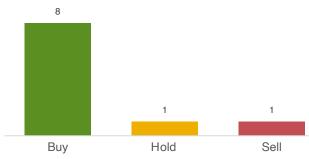


Consensus is based on a collection of analyst estimates pre-Q4 2023 report (Dec 2023)

			Patient uptake, EU					Revenue, SEKm				
	Price Target, SEK	WACC	_	Q4'23e	FY'23e	FY'24e	FY'25e		Q4'23e	FY'23e	FY'24e	FY'25e
Average	80	12%		14	38	74	124		44	134	229	381
Median	90	13%		12	37	65	106		39	126	214	313
High	173	14%		27	48	116	255		75	171	371	928
Low	16	8%		8	29	59	85		32	115	130	254
Number of contributions	9	9		5	7	7	7		7	10	10	10

		EBIT, SEKm			Operating Cash Flow, SEKm					Cash position, SEKm			
	Q4'23e	FY'23e	FY'24e	FY'25e	Q4'23e	FY'23e	FY'24e	FY'25e		Q4'23e	FY'23e	FY'24e	FY'25e
Average	-174	-772	-630	-508	-146	-783	-651	-538		784	720	375	179
Median	-177	-784	-650	-575	-146	-774	-720	-610		784	716	370	295
High	-111	-682	-462	41	-99	-664	-412	-66		851	894	850	547
Low	-205	-815	-749	-747	-192	-931	-828	-756		716	562	-62	-837
Number of contributions	7	10	9	9	2	9	9	9		2	9	8	7

Analyst recommendations



Bank/Research Institution	Analyst	Location	E-mail
SEB	Christopher Uhde, PhD	Stockholm	christopher.uhde@seb.se
ABG Sundal Collier	Gonzalo Artiach Castañón, PhD	Stockholm	gonzalo.artiach@abgsc.se
Carnegie	Erik Hultgård	Stockholm	erik.hultgard@carnegie.com
Redeye	Johan Unnerus	Stockholm	johan.unnerus@redeye.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
Bryan Garnier & Co	Alex Cogut	Paris	acogut@bryangarnier.com

Contact our Investor Relations and Corporate Affairs team

Contact



Klaus Sindahl

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Stephanie Kenney

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Calendar and events

Feb 6, 2024 Aktiespararna, Falkenberg Feb 8, 2024 Frankfurt MidCap Seminar, Frankfurt Feb 14, 2024 Redeve Cell Therapy & Growth Day, Stockholm Feb 28, 2024 Ökonomisk Ugebrev Life Science Event, Copenhagen March 4-5, 2024 TD Cowen Healthcare Conference, Boston March 6, 2024 Life Sciencedagen, Sahlgrenska Universitetssjukhuset Gothenburg Mar 20, 2024 Annual Report 2023 April 8-11, 2024 Needham Healthcare Conference (virtual) April 16-17, 2024 Van Lanschot Kempen Life Science Conference, Amsterdam Apr 18, 2024 Interim Report for January-March 2024 June 27, 2024 2024 Annual General Meeting July 18, 2024 Half-year Report January-June 2024 Oct 24, 2024 Interim Report for January-September 2024

