

# EMPOWERING OLIGONUCLEOTIDE THERAPEUTICS

# COMPANY PRESENTATION SEPTEMBER 2022



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## **PepGen**

## A NEXT-GENERATION OLIGONUCLEOTIDE DELIVERY PLATFORM WITH THE POTENTIAL TO TRANSFORM PATIENT OUTCOMES

Our **Enhanced Delivery Oligonucleotide (EDO)** platform is engineered to offer enhanced therapeutic activity and improved tolerability

Rare disease focus, lead assets target a potentially **large market opportunity** in US/EEA/JP: **PGN-EDO51:** ~**6k** Duchenne muscular dystrophy (DMD) exon 51 patients\* **PGN-EDODM1:** ~**130k** myotonic dystrophy type 1 (DM1) patients



Designed to achieve greater skeletal & cardiac muscle penetrance; extensive portfolio of product candidates for the treatment of multiple neuromuscular diseases (NMD)

PGN-EDO51 treatment resulted in the highest levels of oligonucleotide delivery & exon 51 skipping in a clinical trial following a single dose

DMD & DM1 patient POC anticipated in 2024



\*DMD patient numbers: 15k US + 25k EEA + 5k JP whole population (range used: Crisafulli et al 2020 – 7.1/100k males; Orphanet 2021 – 4.78/100k pop). Exon 51 population 13% of total. DM1 patient numbers: 1 in 8,000 (Johnson et al); 40k US + 75k EEA + 15k JP.

## PEPGEN: EXPERIENCED TEAM OF COMPANY BUILDERS, SCIENTISTS, AND CLINICIANS

#### Management team





Imago BioSciences

## WE ARE BUILDING ON FDA-APPROVED EXON 51 SKIPPING MODALITIES TO DEVELOP THE NEXT GENERATION OF OLIGO TX

#### APPROVED EXON 51 PMO



#### PEPGEN'S STEP CHANGE

- Enhanced delivery to skeletal muscle (inc. diaphragm), cardiac muscle and the CNS
- In DMD Ph1 clinical study in healthy normal volunteers, the highest levels of exon 51 skipping were observed following a single dose\*\*\*
- Potential for greater dystrophin production
- Enhanced balance between activity and tolerability compared to early delivery peptides
- Robust & scalable manufacturing



\* Clinical data included in drug label (FDA). \*\*Source: Sarepta 2021 10K filing. \*\*\* Based on cross-trial comparisons with publicly-available data for other exon skipping approaches that have been assessed following a single dose.

## THE POWER OF EDOs

Enhanced Delivery Oligonucleotides are well-characterized therapeutic PMO oligonucleotides conjugated to proprietary delivery-enhancing peptides

#### THERAPEUTIC **ENHANCED DELIVERY PEPGEN'S ENHANCED OLIGONUCLEOTIDE OLIGONUCLEOTIDES DELIVERY PEPTIDES** Efficient cellular uptake of Genetic medicines that Next-generation delivery oligos including in cardiac and target the root cause of peptides; engineered with skeletal tissue disease, but are limited the goal of offering enhanced by delivery challenges activity and improved tolerability

## SCALABLE EDO TECHNOLOGY DESIGNED TO ENABLE BROAD PORTFOLIO

PROGRAM	INDICATION TARGET	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	NEXT ANTICIPATED MILESTONE
PGN-EDO51	Duchenne muscular dystrophy Exon 51						<b>1H23</b> Ph2a patient clinical trial initiation
PGN-EDODM1	Myotonic dystrophy type 1 DMPK						<b>1H23</b> Ph1/2 patient clinical trial initiation
PGN-EDO53	Duchenne muscular dystrophy Exon 53						<b>2H22</b> NHP exon skipping data
PGN-EDO45	Duchenne muscular dystrophy Exon 45						<b>2H22</b> Candidate nomination
PGN-EDO44	Duchenne muscular dystrophy Exon 44						<b>2H22</b> Candidate nomination

#### FUTURE PIPELINE OPPORTUNITIES

Additional neuromuscular indications

Neurologic indications



# PGN-ED051 FOR DUCHENNE MUSCULAR DYSTROPHY

## DUCHENNE MUSCULAR DYSTROPHY IS A DEBILITATING, PROGRESSIVE MUSCLE-WASTING DISEASE

ROOT CAUSE OF DISEASE	SYMPTOMATOLOGY & NATURAL HISTORY	EXON 51 PATIENT POPULATION*	EXON 51 THERAPEUTIC LANDSCAPE
<ul> <li>Caused by mutations in the dystrophin gene</li> <li>Absence of dystrophin leads to muscle degeneration</li> </ul>	<ul> <li>Progressive loss of function, including ambulation</li> <li>Cardiac &amp; respiratory conditions</li> <li>Lifespan ~25 years</li> </ul>	~2,000 (US) ~3,200 (EEA) ~700 (JP)	<ul> <li>Exondys51® approved in US on the basis of &lt;1% dystrophin restoration</li> <li>Not approved in EEA or JP</li> </ul>





# PRECLINICAL DATA

## THE ACTIVITY OF OUR EDO PLATFORM IN DMD HAS BEEN EVALUATED IN MULTIPLE PRECLINICAL MODELS



'epGen

## MDX MICE: A SINGLE DOSE OF PGN-EDO23 WAS OBSERVED TO NORMALIZE CREATINE KINASE, A MARKER OF MUSCLE DAMAGE

#### SERUM CREATINE KINASE



#### PGN-EDO23 utilizes the same EDO delivery peptide as our clinical candidate



Protocol: peptide-PMO conjugate and a saline control were administered intravenously (IV) to *mdx* and WT mice; serum creatine kinase measured 7 days after injection. Mean  $\pm$  SD; \*\*\*\* = p $\leq$ 0.0001; **ns** = p $\geq$ 0.05; n = 3 for control groups and 5 for treated group.

## MDX MICE: ROBUST DYSTROPHIN RESTORATION OBSERVED 7 DAYS AFTER A SINGLE, GENERALLY WELL-TOLERATED DOSE OF PGN-EDO23

EXON SKIPPING

DYSTROPHIN





Protocol: peptide-PMO conjugate and a saline control were administered intravenously (IV) to *mdx* and WT mice; exon skipping and dystrophin restoration measured 7 days after injection. Mean ± SD; n = 3 for control groups and 3 for treated groups. NT = not treated.

### NHP: BIODISTRIBUTION DATA EXHIBITED ROBUST EDO DELIVERY ACROSS KEY NEUROMUSCULAR TISSUE TYPES

#### TISSUE PMO QUANTIFICATION





Protocol: NHPs received one slow bolus IV infusion on Day 1, study was terminated on Day 8 and PMO levels were quantified in key tissues. Shown as mean ± SEM; n = 2 per group. CC = cerebral cortex; LLOQ = lower limit of quantification.

# NHP: 10 MG/KG OF PGN-EDO51 WAS APPROXIMATELY AS POTENT AS 30 MG/KG OF $R_6G$ -PMO IN QUADS & BICEPS



#### Exon skipping levels of >70% observed in skeletal muscles at 30 mg/kg for PGN-EDO51



Protocol: PGN-EDO51 and  $R_6G$ -PMO were administered to NHP by IV infusion over 30 min at the doses indicated (n=3). Q2W, three doses administered, saline control. Tissues were harvested 7 days after final administration. Shown as mean ± SD; n = 3 per group. Study was not powered for statistical significance.  $R_6G$ -PMO is believed to be structurally equivalent to SRP-5051.

# NHP: 10 MG/KG OF PGN-EDO51 WAS APPROXIMATELY AS POTENT AS 30 MG/KG OF $R_6G$ -PMO IN DIAPHRAGM



### A single dose of 20 mg/kg of PGN-EDO51 afforded 19% exon 51 skipping in whole heart



Protocol: PGN-EDO51 and  $R_6G$ -PMO were administered to NHP by IV infusion over 30 min at the doses indicated (n=3). Q2W, three doses administered, saline control. Tissues were harvested 7 days after final administration. Shown as mean ± SD; n = 3 per group. Study was not powered for statistical significance.  $R_6G$ -PMO is believed to be structurally equivalent to SRP-5051.

# NHP: EXON SKIPPING LEVELS ACCUMULATED WITH REPEAT DOSE ADMINISTRATION OF PGN-EDO51



#### Q2W regimen employed in this study; differential with R<sub>6</sub>G-PMO may increase with monthly dosing



Protocol: PGN-EDO51 and  $R_6G$ -PMO were administered to NHP by IV infusion over 30 min at the doses indicated (n=3). Q2W, three doses administered, saline control. Biopsies taken 7 days after each administration; terminal samples collected 7 days after final dose. Study not powered for statistical significance. Data shown as mean ± SD; n = 3 per group.  $R_6G$ -PMO is believed to be structurally equivalent to SRP-5051.



# CLINICAL DATA

# HNV: WE HAVE COMPLETED A SINGLE ASCENDING DOSE PH1 TRIAL OF PGN-ED051 IN HEALTHY NORMAL VOLUNTEERS

#### PH1 HEALTHY NORMAL VOLUNTEER (HNV) TRIAL SUMMARY



# HNV: HIGHEST LEVELS OF OLIGO DELIVERY & EXON 51 SKIPPING OBSERVED, SUPPORTING FURTHER DEVELOPMENT OF PGN-EDO51





# HNV: HIGHEST LEVELS OF EXON 51 SKIPPING OBSERVED IN HUMANS FOLLOWING A SINGLE DOSE

**EXON SKIPPING (BICEPS)** 





Protocol PGN-EDO51-101: Phase 1, first in human, randomized double blind, placebo controlled single ascending dose study in healthy adult volunteers. Single dose of either PGN-EDO51 or Placebo were administered by IV infusion at doses indicated. Participants were followed for 28 day period following dose administration to evaluate safety, tolerability, pharmacokinetics (PK), and pharmacodynamics (PD). Needle biopsies of biceps muscle were taken on Day 10 and Day 28. Exon skipping measured by ddPCR. Shown as mean ± SD; n = 6 PGN-EDO51: 2 Placebo per cohort (n = 5 for D10 at 15 mg/kg). Comparative statements are based on cross-trial comparisons with publicly-available data for other exon skipping approaches that have been assessed following a single dose.

# HNV: HIGH, PERSISTENT TISSUE CONCENTRATIONS OF OLIGONUCLEOTIDE WERE OBSERVED

#### **TISSUE CONCENTRATION (BICEPS)**





Protocol PGN-EDO51-101: Phase 1, first in human, randomized double blind, placebo controlled single ascending dose study in healthy adult volunteers. Single dose of either PGN-EDO51 or Placebo were administered by IV infusion at doses indicated. Participants were followed for 28 day period following dose administration to evaluate safety, tolerability, PK, and PD. Needle biopsies of biceps muscle were taken on Day 10 and Day 28. Tissue concentration measured by ELISA. Shown as mean ± SD; n = 6 PGN-EDO51: 2 Placebo per cohort (n = 5 for D10 at 15 mg/kg).

## HNV: PGN-EDO51 WAS GENERALLY WELL-TOLERATED AT DOSES ASSESSED IN PH1 SAD TRIAL

#### SAFETY & TOLERABILITY SUMMARY

- All participants completed the study; there were **no discontinuations**.
- The majority of treatment-emergent adverse events (TEAEs) were assessed as **mild and resolved without any intervention**. At 10 mg/kg there were **only Grade 1 (mild)** AEs .
- At 15 mg/kg there were **transient, reversible** changes in kidney biomarkers that **resolved in all subjects**.
- At 15 mg/kg there was one non-life threatening serious adverse event (SAE) related to changes in kidney biomarkers that were **transient and reversible**. This HNV was admitted to the hospital for less than 24 hours, received hydration and then was re-admitted to the Phase 1 unit and completed the study.
- Transient mild (Grade 1) to moderate (Grade 2) hypomagnesemia was observed in two participants at the 15 mg/kg dose and **did not require any intervention**.
- Serum cystatin C, the recommended biomarker to assess renal function in DMD, showed **minimal change at the highest dose**.

# **PepGen**

In light of higher than anticipated oligo levels and exon skipping levels in muscle observed at 5 mg/kg and 10 mg/kg, further does escalation was not deemed necessary by sponsor. Under this Phase 1 protocol any non-life-threatening SAE was considered a dose-limiting toxicity (DLT), however study was not halted by the SRC nor put on hold by Health Canada.

#### PH1 TRIAL SAFETY & TOLERABILITY SUMMARY

Healthy Normal Volunteers (HNV) with ≥1 AE, n (%)	Placebo (n=8)	Cohort A: 1 mg/kg (n=6)	Cohort B: 5 mg/kg (n=6)	Cohort C: 10mg/kg (n=6)	Cohort D: 15 mg/kg (n=6)	PGN-EDO51 Total (n=24)
Any AE	4 (50)	4 (66.7)	2 (33.3)	5 (83.3)	6 (100)	17 (70.8)
Related to study drug	1 (12.5)	2 (33.3)	0	4 (66.7)	6 (100)	12 (50)
Serious AE related to study drug	0	0	0	0	1 (16.7)	1 (4.2)
AE leading to discontinuation	0	0	0	0	0	0
AE leading to death	0	0	0	0	0	0
Number of Related TEAEs by CTCAE v5.0 grading*						
Grade 1 (Mild)	1	1	0	7	12	20
Grade 2 (Moderate)	0	1	0	0	3	4
Grade 3 (Severe)	0	0	0	0	1	1



\* No Grade 4 or 5 recorded; Protocol PGN-EDO51-101: Phase 1, first in human, randomized double blind, placebo controlled single ascending dose study in healthy adult volunteers. Single dose of either PGN-EDO51 or Placebo were administered by IV infusion at doses indicated. Participants were followed for 28 day period following dose administration to evaluate safety, tolerability, PK, and PD.

### HNV: IN NHP REPEAT DOSE STUDY, KIDNEY BIOMARKER ELEVATIONS WERE REDUCED AFTER FIRST DOSE OF PGN-ED051



#### These results support the potential tolerability of PGN-EDO51 with repeat dosing



PD = pre-dose. Protocol: PGN-EDO51 was administered to NHP by IV infusion over 30 min at a given dose level (n=3). Q2W, three doses administered, saline control. Tissues were harvested 7 days after final administration. Shown as mean ± SD; n = 3 per group. Study was not powered for statistical significance. Grey bar shows normal range.

## PEPGEN HAS COMPLETED A PH1 HNV TRIAL FOR PGN-EDO51; ON TRACK TO INITIATE DMD PATIENT CLINICAL TRIAL IN 1H23

	2022	2023	2024	
Anticipated milestones	<ul> <li>2Q: First HNV dosed in Ph1 trial</li> <li>3Q: Ph1 clinical safety, oligo delivery &amp; exon skipping data</li> <li>4Q: Completion of Ph2a- enabling tox studies</li> </ul>	<ul> <li>1H: Initiation of Ph2a DMD patient clinical trial</li> </ul>	<ul> <li>Safety and dystrophin data in DMD patients (Ph2a)</li> </ul>	
Overview	<ul> <li>Ph1 trial showed highest single-dose levels of exon skipping &amp; oligo delivery</li> <li>PGN-EDO51 was generally well-tolerated</li> <li>We believe readouts support progression to Ph2a</li> </ul>	<ul> <li>Trial will assess safety and tolerability, exon skipping and dystrophin in DMD patients</li> <li>Safety readouts from HNV trial anticipated to support MAD initiation at higher dose levels</li> <li>Precedents suggest that exon skipping readouts will be high in patients than in HNVs at the same dose level</li> <li>Anticipate trial will be conducted in multiple geographies, including U.S.</li> </ul>		





# PGN-EDODM1 FOR MYOTONIC DYSTROPHY TYPE 1 (DM1)

## MYOTONIC DYSTROPHY TYPE 1 IS A PROGRESSIVE, DEBILITATING NEUROMUSCULAR DISORDER WITH GREAT UNMET NEED

ROOT CAUSE OF	SYMPTOMATOLOGY	PATIENT POPULATION**	THERAPEUTIC
DISEASE	& NATURAL HISTORY		LANDSCAPE
<ul> <li>Due to a CTG repeat expansion mutation in the DMPK gene</li> <li>Leads to downstream dysregulation of a broad set of proteins</li> </ul>	<ul> <li>Myotonia, muscle weakness, GI issues</li> <li>CNS symptoms*, cardiac &amp; respiratory abnormalities</li> <li>Wide range in age of onset, life expectancy 45 – 60 years</li> </ul>	~40,000 (US) ~75,000 (EEA) ~15,000 (JP)	<ul> <li>No approved disease- modifying therapeutics</li> <li>Standards of care focused on symptom management</li> </ul>

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# PEPGEN'S PLATFORM DELIVERS STERIC BLOCKING ASOs TO RESTORE CELLULAR FUNCTION IN DM1

#### DM1 CAUSED BY CUG TRIPLET EXPANSION HAIRPIN LOOP IN DMPK RNA SEQUESTERING MBNL1 PROTEIN

#### WITHOUT TREATMENT



CUG repeats form 'hairpin loops' in the *DMPK* RNA, which sequester a key RNA processing protein (MBNL1)



Downstream mis-splicing events and aberrant protein expression gives rise to disease phenotypes

#### WITH PGN-EDODM1 TREATMENT



PGN-EDODM1 binds toxic CUG repeats in *DMPK* RNA and blocks MBNL1 binding

#### MBNL1 free



Downstream splicing patterns are restored

PGN-EDODM1 is designed to restore MBNL1 functions and correct downstream mis-splicing events



# THE PHARMACOLOGY OF PGN-EDODM1 HAS BEEN EVALUATED IN MULTIPLE PRECLINICAL MODELS

		Species	Study design	Key readouts observed
	Patient cells PGN-EDODM1	DM1 patient	Hour: 0 24	<ul> <li>Reduction in nuclear foci</li> <li>Correction of downstream transcript mis-splicing</li> </ul>
Non-GLP pharmacology studies	Single dose PGN-EDODM1	HSALR	Week: 0 1 2	<ul> <li>Correction of downstream transcript mis-splicing</li> <li>Normalization of myotonia</li> </ul>
	Duration of effect PGN-EDODM1	HSALR	Week: 0 12 24	<ul> <li>Correction of downstream transcript mis-splicing for at least 24 weeks post-dose</li> </ul>
Non-GLP dose-	Single dose PGN-EDODM1	WT	Week: 0 1	In progress
(DRF) studies	Repeat dose PGN-EDODM1	WT	Week: 0 1 2 3 4 5	In progress

# PGN-EDODM1 REDUCED PATHOGENIC NUCLEAR FOCI AND CORRECTED DOWNSTREAM TRANSCRIPT MIS-SPLICING





Immortalized myoblasts from healthy individual or DM1 patient with 2600 CTG repeats were cultivated then differentiated for 4 days. Treatment with PMO or peptide-PMO conjugates at concentrations given. Cells were harvested for analysis 24h after treatment. Visualisation with FISH and immunofluorescence. RNA isolation, RT-PCR and capilliary electrophoresis (QIAxcel) analysis. Mean ± SD; n = 5 per group.

### HSA<sup>LR</sup> MOUSE DISPLAYS MOLECULAR AND FUNCTIONAL DM1 PHENOTYPE



• Myotonia



- Skeletal muscle specific CUGexp
- MBNL1 sequestration in the nucleus
- Downstream mis-splicing events

Resting HSA<sup>LR</sup> mouse

HSA<sup>LR</sup> mouse



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## HSALR: PGN-EDODM1 CORRECTED MOLECULAR AND FUNCTIONAL DM1 PHENOTYPE AT GENERALLY WELL-TOLERATED DOSES





Protocol: PGN-EDODM1 was administered IV to HSA<sup>LR</sup> mice at doses (mg/kg): 10, 20, 30 (n=8), 50 (n=4) against a saline control (n=16) and wild-type (WT) saline control (n=8). Myotonia assessed, tissues harvested 2 weeks post-administration. Mis-splicing data is quadriceps. Mean ± SEM or min to max. \*\*\*\* = p≤0.0001; \*\*\* = p≤0.001.

## HSALR: SPLICING CORRECTION TRANSLATED TO PHENOTYPIC IMPROVEMENT OF DM1 MICE TREATED WITH PGN-EDODM1

#### UNTREATED HSALR



#### TREATED HSALR





### HSALR: SINGLE DOSE TREATMENT OF PGN-EDODM1 LED TO DURABLE IMPROVEMENTS IN SPLICING THROUGH 24 WEEKS

#### **CORRECTION OF MIS-SPLICING**





Protocol: PGN-EDODM1 was administered intravenously (IV) to WT and HSA<sup>LR</sup> mice at 30 mg/kg; gastrocnemius muscle harvested 2 (n=8), 12 (n=8) or 24 (n=5) weeks post-administration; graph plotted as mean ±SEM; n = 7 for 0 timepoint, 8 for 2- and 12-week timepoints; 5 for 24-week timepoint.

# HUMAN PGN-ED051 TISSUE CONCENTRATIONS WERE COMPARABLE TO THOSE ACHIEVED IN HSA<sup>LR</sup> MOUSE MODEL



We believe that PGN-EDODM1 has the potential to achieve concentrations in DM1 patients that could lead to clinically-meaningful outcomes, supporting further development of this candidate



Protocol: PGN-EDODM1 was administered IV to HSA<sup>LR</sup> mice at doses (mg/kg): 10, 20, 30 (n=8), 50 (n=4) against a wild-type (WT) saline control (n=8). Tissue concentration assessed by HPLC.

# PEPGEN IS ON TRACK TO INITIATE A DM1 PATIENT CLINICAL TRIAL IN 1H23

	2022	2023	2024
Anticipated milestones	<ul> <li>2Q: NHP dose range- finding study</li> <li>2H: IND-enabling studies</li> </ul>	<ul> <li>1H: Initiation of Ph1/2 DM1 patient clinical trial</li> </ul>	<ul> <li>Safety and splicing data in DM1 patients (Ph1/2)</li> </ul>
Overview	• We believe oligonucleotide tissue concentration readouts from PGN-EDO51 Ph1 study support clinical potential of PGN- EDODM1	<ul> <li>Aim of clinical trials is to asses of PGN-EDODM1 in DM1 pat</li> </ul>	ss safety, tolerability and efficacy ients





# EDO PIPELINE

# PEPGEN'S LEAD PROGRAM TARGETS LARGEST EXON SKIPPING PATIENT POPULATION IN DMD



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## WE ARE HARNESSING THE POWER OF OUR EDO PLATFORM TO REACH NEW TISSUES, DELIVER NEW CARGOS, & DEVELOP NEW THERAPIES



#### WE WILL LEVERAGE OUR EDO PEPTIDE PLATFORM TO:

- REACH NEW TISSUES
  - Explore full potential of EDO platform across multiple tissue types, including:
    - Deep brain structures via IT administration
    - Peripheral nerves via IV administration
    - Other tissue and cell types

#### DELIVER NEW CARGOS

- Utilize **modular nature** of EDO platform to evaluate new cargo technologies
- Explore potential for **non-PMO oligo** and small molecule delivery
- DEVELOP NEW THERAPIES
  - Identify opportunities for novel EDO therapeutics
  - Maximize EDO platform and pipeline value through strategic collaborations



## CURRENT MANUFACTURING CAPABILITIES DESIGNED TO SUPPORT ALL PLANNED CLINICAL TRIALS AND COMMERCIALIZATION

#### Readily-available raw materials



## HIGHLIGHTS:

- Fully synthetic manufacturing process; no cellbased steps
- Product and intermediates are readily characterized
- Research to date suggests product has robust stability
- Multiple cGMP DP batches have been manufactured and released



# CONCLUSION

# THE FUTURE OF PEPGEN

2022	<ul> <li>PGN-EDO51 (DMD exon 51) Ph1 HNV trial showed:</li> <li>Highest level of single-dose exon skipping and oligo delivery observed in a clinical trial*</li> <li>PGN-EDO51 was generally well-tolerated</li> </ul>
2023	Anticipate initiation of patient clinical trials for DMD & DM1
2024	<ul> <li>Anticipate clinical POC in two indications:</li> <li>Patient dystrophin data (DMD)</li> <li>Patient splicing data (DM1)</li> </ul>

- 5 neuromuscular disease therapies in pipeline
- Work underway to leverage EDO platform to expand to new tissues & new indications





# THANK YOU