e therapeutics

Computing the Future of Medicine[™]

Interim results for six months ended 31 July 2023

26th October 2023

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Forward looking statement

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Company Overview

Driving innovation at the intersection of AI and precision medicine

Our mission:

Integrating computational power and biology to discover life-transforming medicines



Cash and cash equivalents **£24.8m** 2022: £21.8m

Revenue **£0.2m**

2022: £0.3m

R&D spend £5.3m

2022: £3.1m

Operating loss **£7.0m** 20

2022: £4.6m

Loss after tax **£5.6m**

2022: £3.8m

R&D tax credit receivable **£2.5m** 2022: £2.2m

Interim results for six months ended 31 July 2023

Multi-disciplinary team (exc NED) **34 FTE** 2022: 38

Share Price (25/10/23) **10.7**p

Shares outstanding (25/10/23) **583.8m**

Market cap (25/10/23) **£62.5m**





London Boston Company HQ

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Our Approach

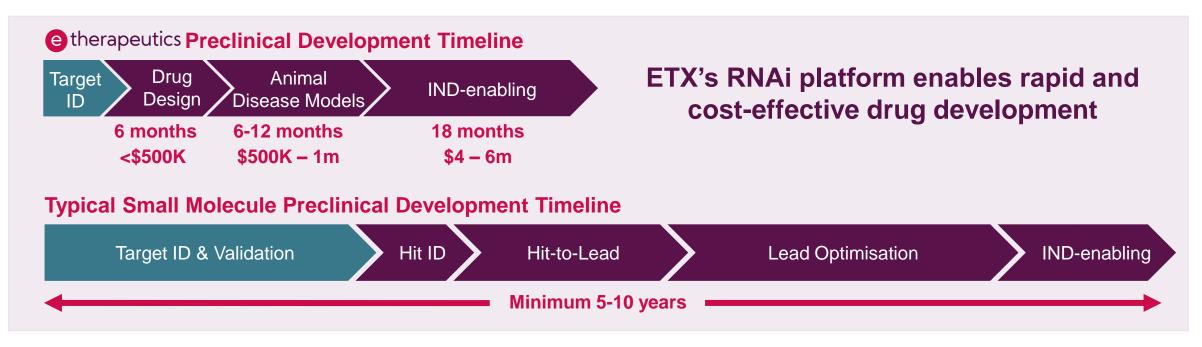
Integrating computational power and biology to discover life-transforming medicines



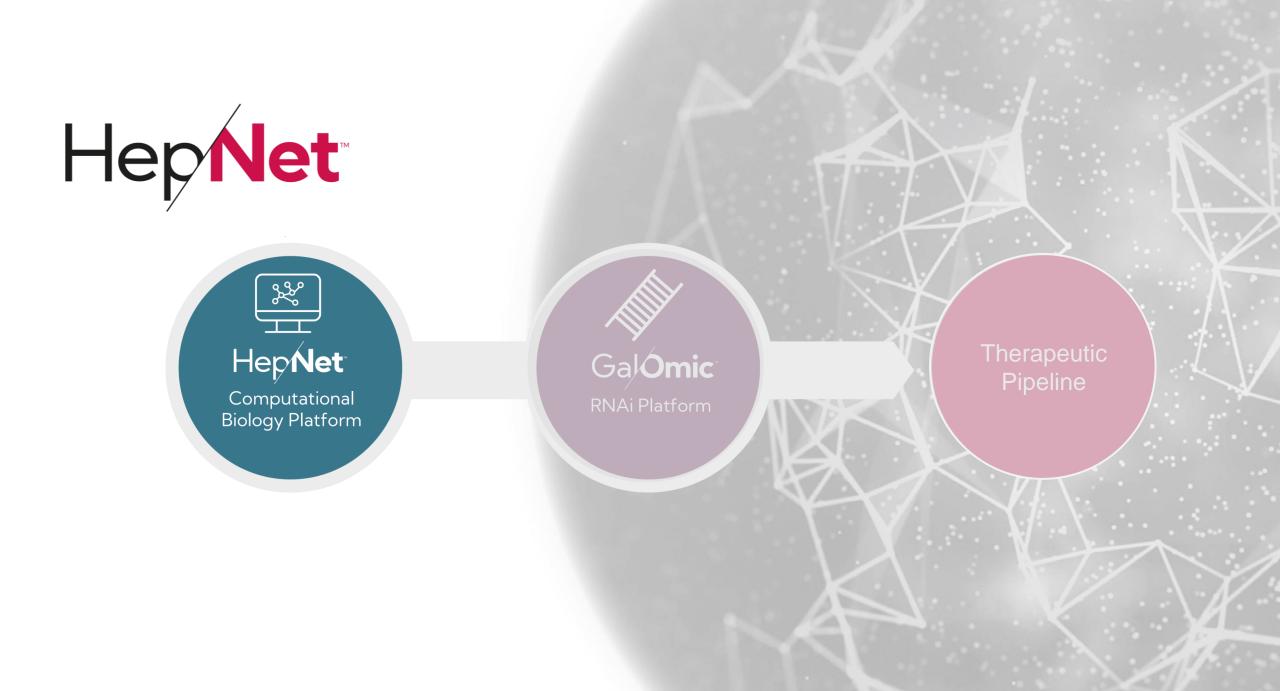
World-class hepatocyte data resource with sophisticated network biology analytics for target ID and ability to automate early stages of preclinical development Proprietary chemistry platform for potent and durable hepatocyte-specific mRNA knockdown of novel targets identified by HepNet[™] In-house pipeline of GalOmic[™] RNAi therapies across broad range of indications, with lead assets in cardiometabolic disease and haemophilia

Traditional Approaches to Drug Development are Too Slow and Too Expensive

- Typical small molecule preclinical development takes a minimum of 5-10 years.
- Enabled by computation and use of the RNAi modality, we can go from from gene target selection to disease model experiments in 6 months, costing less than \$500,000 and IND ready in 3 years.
- This means we can rapidly develop multiple life-transforming RNAi medicines for the people that need them.







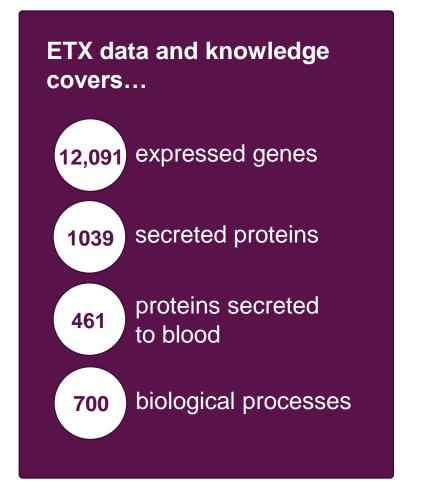
HepNet™

Our world-class hepatocyte-specific computational biology platform

HepNet[™] is our proprietary computational biology platform, built on the world's most comprehensive hepatocyte-specific knowledgebase.

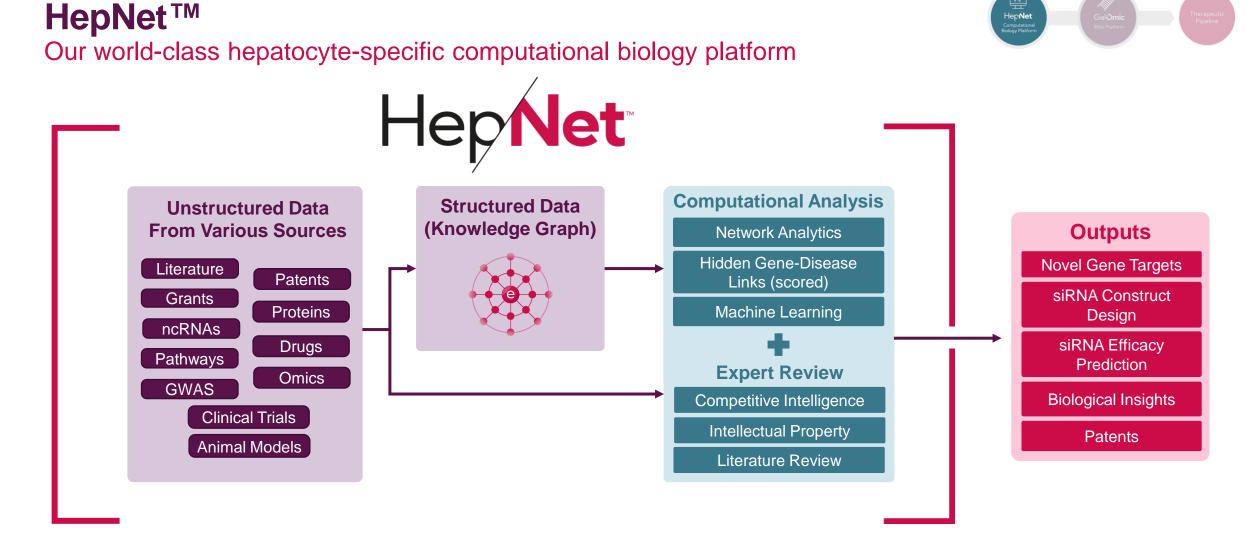
It enables:

- Identification of novel targets for a wide range of diseases through sophisticated network analytics that account for the true complexity of biology
- Increased speed of execution by automating drug discovery and design processes
- Mining of 100s of integrated data sources to distil new mechanistic knowledge of hepatocyte biology





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HepNet[™] increases automation and provides us with the ability to identify novel targets and rapidly design siRNA constructs.

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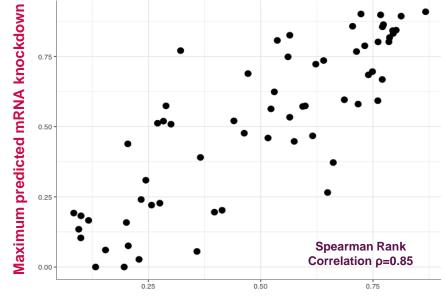
siRNA Efficacy Prediction

Using machine learning to predict siRNA efficacy and bypass in vitro screening

- Highly accurate model trained on proprietary, high-quality training datasets
- Trained model demonstrates high prediction accuracy, performance is superior to widely used algorithms (BioPredSi, ThermoComposition21)
- Enables identification of lead siRNA sequences *in silico*, minimising number of sequences that require screening
- We are now exploring further enhancement of predictions using large language models (LLMs) trained on mRNA sequences

	Pre-Al Approach	Post-Al Approach
Number of siRNA screened	Up to 400	<10
Time to lead identification (potential clinical candidate)	6 months	1 month
Cost of screening	\$500,000	\$50,000

Predicted vs measured siRNA efficacy (Validation Dataset)



Maximum measured mRNA knockdown (in vitro)

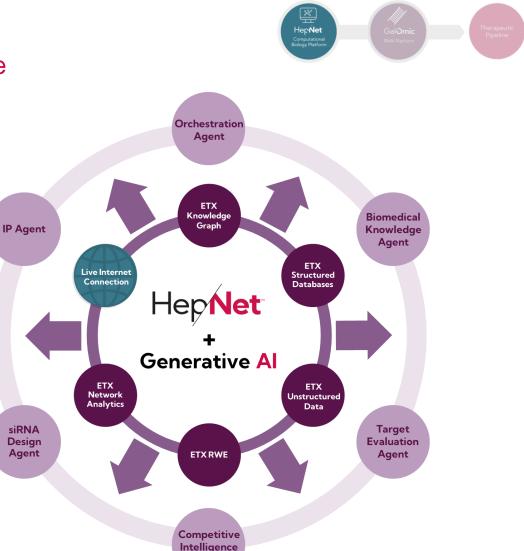
HepNet[™]'s siRNA efficacy prediction already reduces preclinical development timelines and costs, with potential to enable bypassing of *in vitro* screening



Enhancing Computation with LLMs

Transforming HepNet[™] into a dynamic knowledge resource

- We are fully embracing the latest advances in generative AI and LLMs through integration with HepNet[™] and creation of specialist LLM agents
- LLM agents trained on specific data such as scientific papers, mRNA sequences, hepatocytespecific data, patents etc. will support target ID, target-indication evaluation and drug design
- This will enhance our ability to understand, reason, and infer from vast amounts of data, increasing automation and speed of ETX processes



Agent



Hep**Net**

Computational Biology Platform GalOmic RNAi Platform

GalOmic

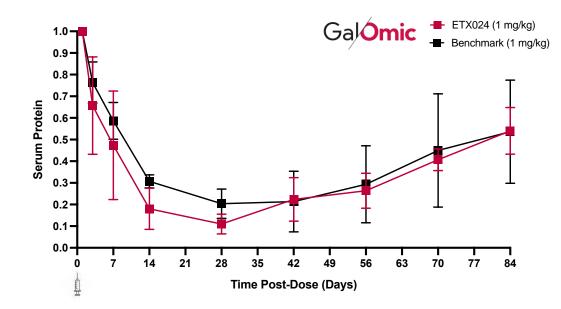
GalOmic™

 GalOmic[™] enables generation of GalNAc-siRNA drug candidates for hepatocyte-specific gene silencing via RNAi of any target gene identified by HepNet[™]

Our proprietary RNA interference chemistry platform

- Benchmarking data demonstrates at least equivalent knockdown compared to market leads across multiple genes
- Data from in-house pipeline further highlights potent and durable silencing profile of GalOmic[™] siRNA constructs, supporting infrequent, subcutaneous dosing
- Platform is protected by IP covering conjugate design and chemical modifications, including modification patterns

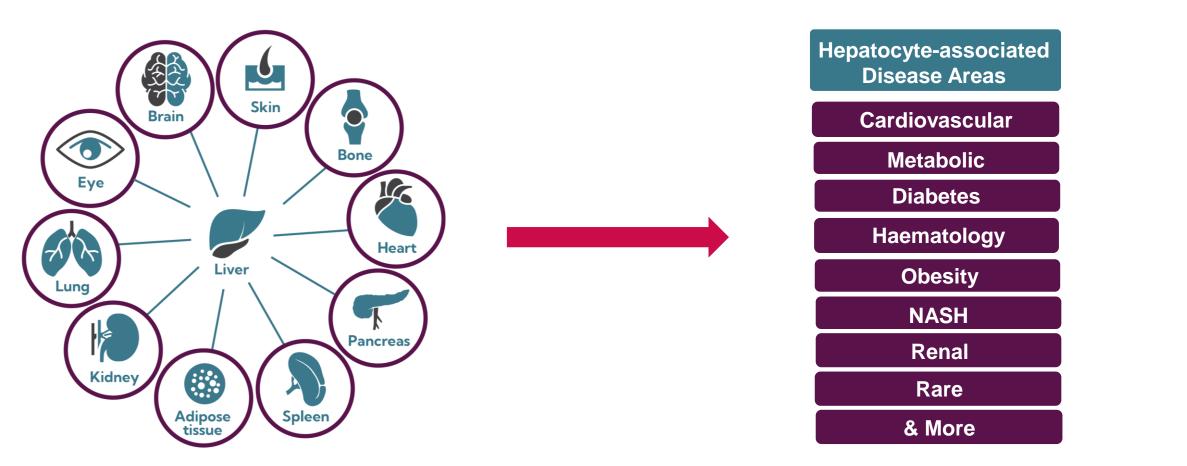






GalOmic™

Hepatocyte targeting unlocks wide variety of therapeutic possibilities



Hepatocytes are highly influential cells, allowing us to develop GalOmic[™] RNAi medicines for a broad range of diseases

Gal**Ómic**

Therapeutic Pipeline



Computational Biology Platform Gal**Ómic**[®]

RNAi Platform

Therapeutic Pipeline

ETX-291: A HepNet[™] Identified Target for Cardiovascular Disease Risk **[™]**

Pursuing a novel target with human validation and mechanism of action beyond LDL-C modulation

HepNet[™] predicted link between the target and metabolic disease risk



Hep

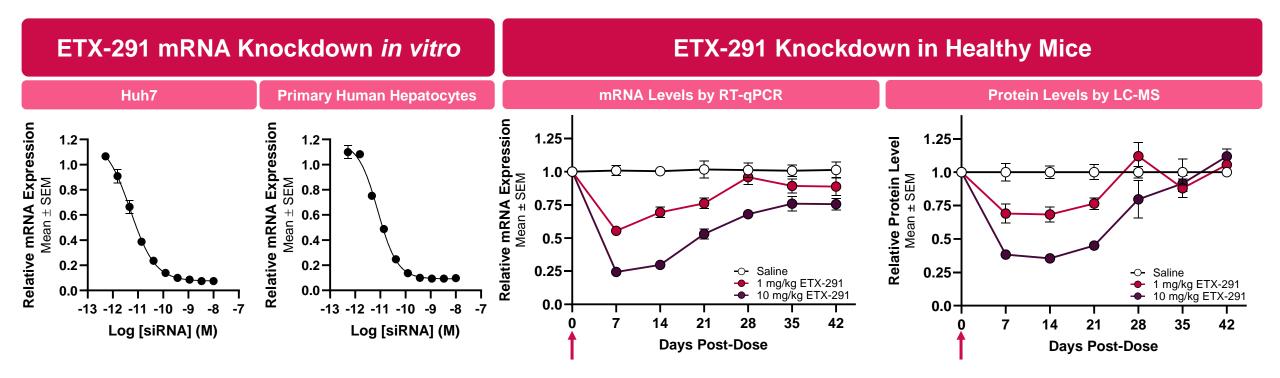
Human genetic evidence links target to reduced cardiovascular disease risk in otherwise healthy individuals

Target Product Profile:

- Meaningful CVD risk reduction independent of statins and PCSK9s
- Holistic treatment potential for metabolic co-morbidities by modulating insulin sensitivity, promising applicability beyond LDL-C modulation
- Ease of use: **long-acting**, aiming for quarterly+ duration of action
- Using ETX's GalOmic[™] GalNAc-siRNA technology for highly specific liver targeting

ETX-291 is a Potent siRNA Utilising ETX's GalOmic[™] Chemistry

Lead siRNA identified in vitro and tested in healthy mice

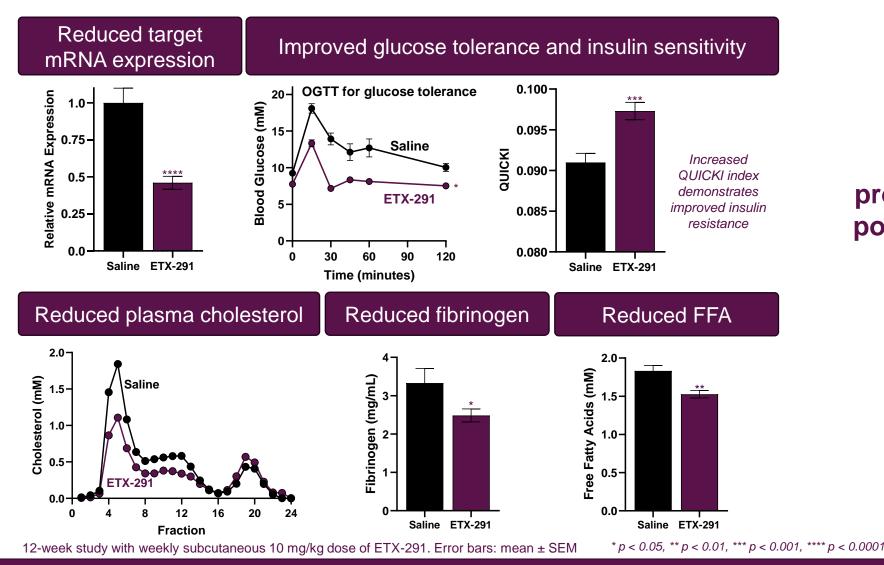


Constructs used in *in vivo* murine models demonstrate deep and sustained mRNA and protein knockdown, with a duration of action that supports quarterly subcutaneous dosing in humans

mRNA – messenger RNA | siRNA – small interfering RNA | RT-qPCR – Real-Time Quantitative Reverse Transcription PCR | LC-MS – Liquid Chromatography-Mass Spectrometry

Pleiotropic Effects of ETX-291 on Key Cardiometabolic Risk Factors

Results from a 12-week study in an ApoE*3L.CETP mouse model of metabolic syndrome



Treatment with ETX-291 provides a holistic treatment potential for cardiometabolic diseases beyond LDL-C modulation

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ETX-148: A HepNet[™] Identified Pan-Haemophilia Target

Pursuing a novel pan-haemophilia rebalancing agent with good joint protection and leading safety profile

HepNet[™] established link between the target and haemophilia through haemostasis network analysis



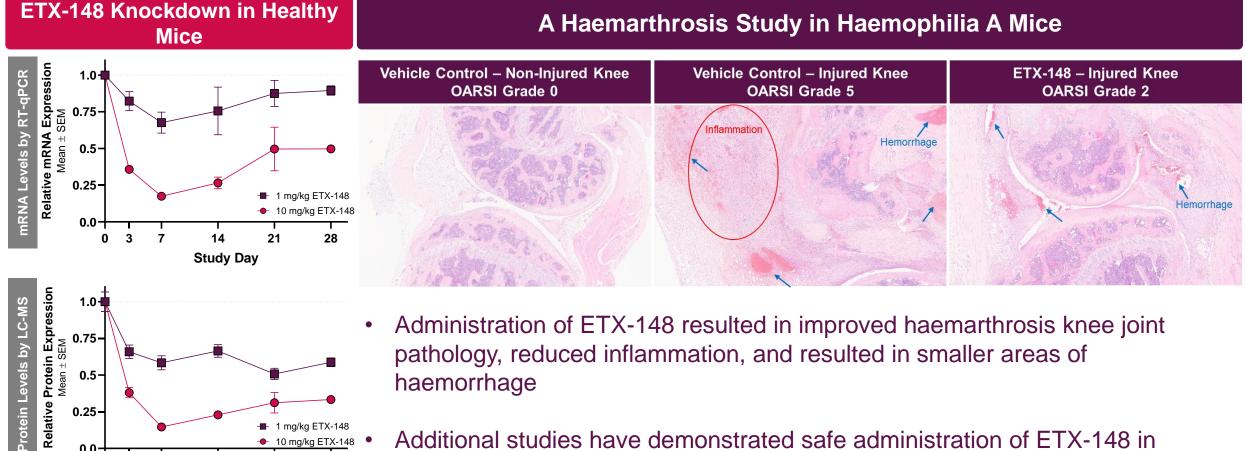
Hep

Human genetic evidence suggests reduced target expression not linked to increased risk of thrombosis unlike other rebalancing agents

Target Product Profile

- Combining good joint protection and a long duration of action (aiming for quarterly+ duration)
- Safe in combination with
 Factor replacement (for emergency use)
- **Patient-friendly** subcutaneous administration
- Using ETX's proprietary GalOmic[™] GalNAcsiRNA technology

ETX-148 is a Potent siRNA That Demonstrates Joint Protective Effects in a Haemophilia A Haemarthrosis Mouse Model



Additional studies have demonstrated safe administration of ETX-148 in combination with Factor Replacement in Haemophilia A mice (not shown)

Data normalised to saline-treated mice on Study Day 0

Study Day

14

10 mg/kg ETX-148

28

21

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3

0.0

Therapeutic Pipeline

Broad pipeline of GalOmic[™] constructs targeting novel genes, guided by insights from HepNet[™]

Program	Indication	Target ID	Drug Design	Proof-Of-Concept	Candidate Declaration
ETX-291	Cardiometabolic Disease				
ETX-148	Haemophilia				
ETX-312	Metabolic Disease				
ETX-407	Undisclosed				
ETX-258	Undisclosed				
Multip	le Targets				





Outlook

Continuing to build on the strong foundation of HepNet[™] and GalOmic[™]

Key H1 2024 Progress	Looking Ahead
Generated positive proof-of-concept data for lead GalOmic RNAi assets, ETX-291 and ETX-148	Complete data packages for lead assets by YE2024
Expansion of our GalOmic™ therapeutic pipeline	Complete data package for at least one additional GalOmic [™] asset by YE2024, progress further assets into preclinical development
Increased pool of novel targets identified and assessed <i>in silico</i> by HepNet [™]	Continue growth of target pool, expansion into new therapeutic areas
Validated our siRNA design and straight to <i>in vivo</i> siRNA efficacy prediction	Further enhance AI-driven <i>in vivo</i> siRNA efficacy prediction with cutting-edge technology to accelerate drug design
Continued development and integration of Generative AI and LLMs into HepNet [™]	Begin development of novel platform based on LLM technology
Filed additional patent applications protecting our targets, chemistry, and therapeutics	Continue to generate novel IP and protect our inventions



Appendix

Leadership



Ali Mortazavi Chief Executive Officer

Alan Whitmore Chief Scientific Officer



Alison Gallafent Chief Intellectual Property Officer



Timothy Bretherton Chief Financial Officer



Laura Roca-Alonso Chief Operating & Business Officer

Board of Directors

Ali Mortazavi Chief Executive Officer

Professor Trevor Jones CBE Non-Executive Chairman

Michael Bretherton Non-executive Director CEO Sarossa Plc

Scientific Advisory Board

Dr Paul Burke Chair Former CTO, Pfizer

Professor John Mattick Former CEO, Genomics England Professor RNA Biology, UNSW Sydney

Dr Bill Harte Chief Translational Officer Case Western Reserve University