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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

Multi-disciplinary team (exc NED)

34 FTE 2022: 38

Share Price (25/10/23)

10.7p

Shares outstanding (25/10/23)

583.8m

Market cap (25/10/23)

£62.5m

Revenue

£0.2m

2022: £0.3m

R&D spend

£5.3m

2022: £3.1m

Operating loss

£7.0m

2022: £4.6m

Loss after tax

£5.6m

2022: £3.8m

R&D tax credit receivable

£2.5m

2022: £2.2m

London **Company HQ**



Boston

Interim results for six months ended 31 July 2023

Our Approach

Integrating computational power and biology to discover life-transforming medicines



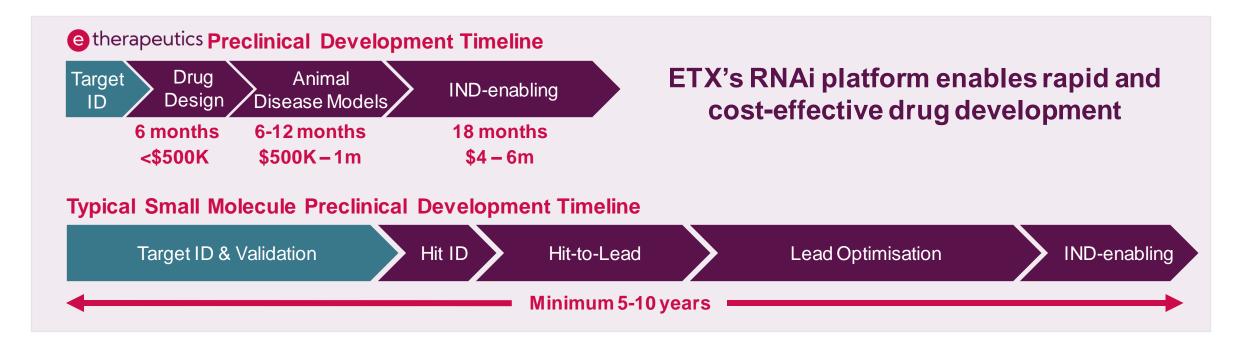
World-class hepatocyte data resource with sophisticated network biology analytics for target ID and ability to automate early stages of preclinical development

Proprietary chemistry platform for potent and durable hepatocyte-specific mRNA knockdown of novel targets identified by HepNet™

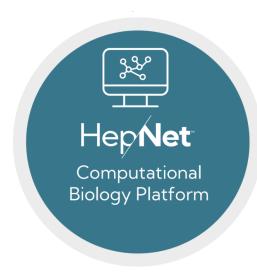
In-house pipeline of
GalOmic™ RNAi therapies
across broad range of
indications, with lead assets in
cardiometabolic disease and
haemophilia

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.









Therapeutic Pipeline

HepNet™

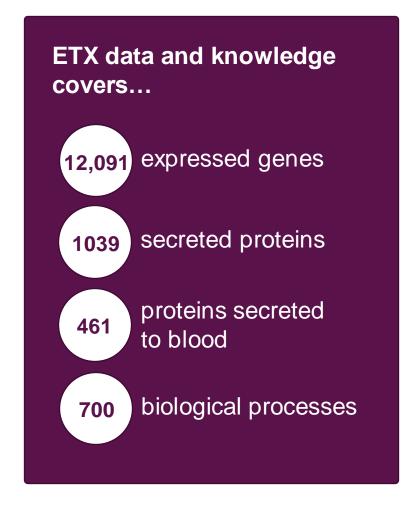
Hep Net Computational Bology Platform Computational

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:

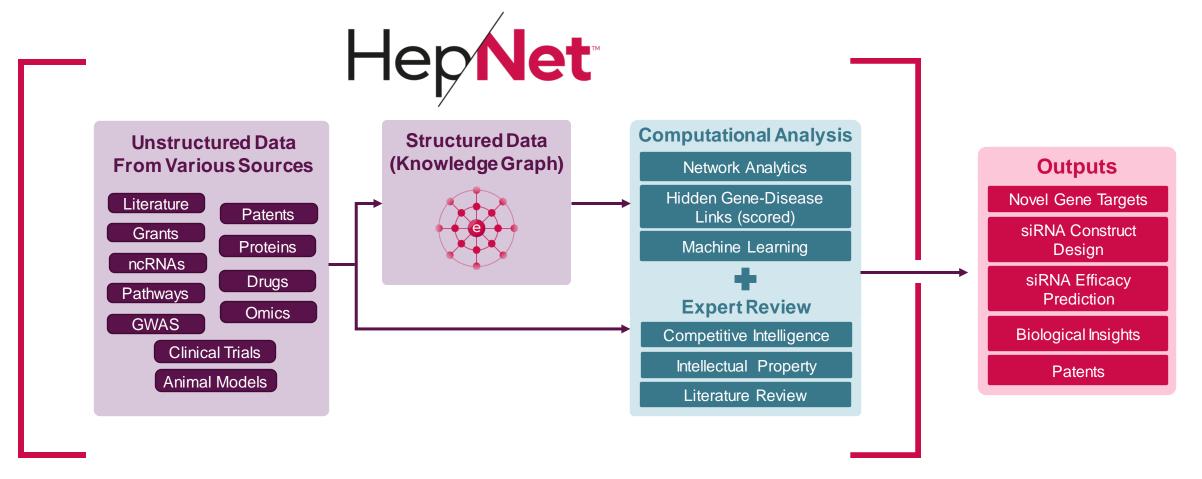
- Identification of novel targets for a wide range of diseases through sophisticated network analytics that account for the true complexity of biology
- Increased speed of execution by automating drug discovery and design processes
- Mining of 100s of integrated data sources to distil new mechanistic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



HepNet™



Our world-class hepatocyte-specific computational biology platform



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

siRNA Efficacy Prediction

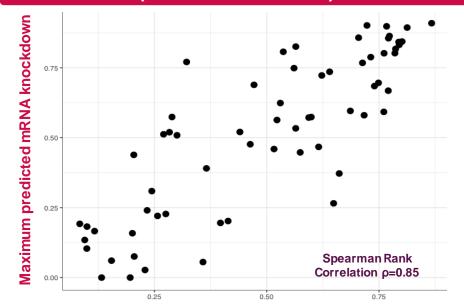


Using machine learning to predict siRNA efficacy and bypass in vitro screening

- 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)



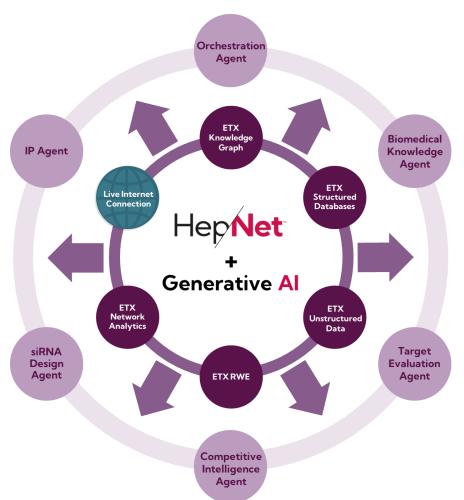
Maximum measured mRNA knockdown (in vitro)

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

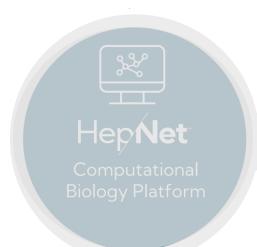
Transforming HepNet™ into a dynamic knowledge resource

- We are fully embracing the latest advances in generative Al 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











herapeutic Pipeline

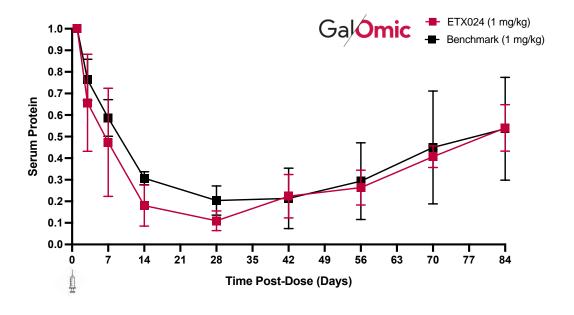
GalOmic[™]

Our proprietary RNA interference chemistry platform

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



Typical performance profile of our RNAi platform in non-human primate

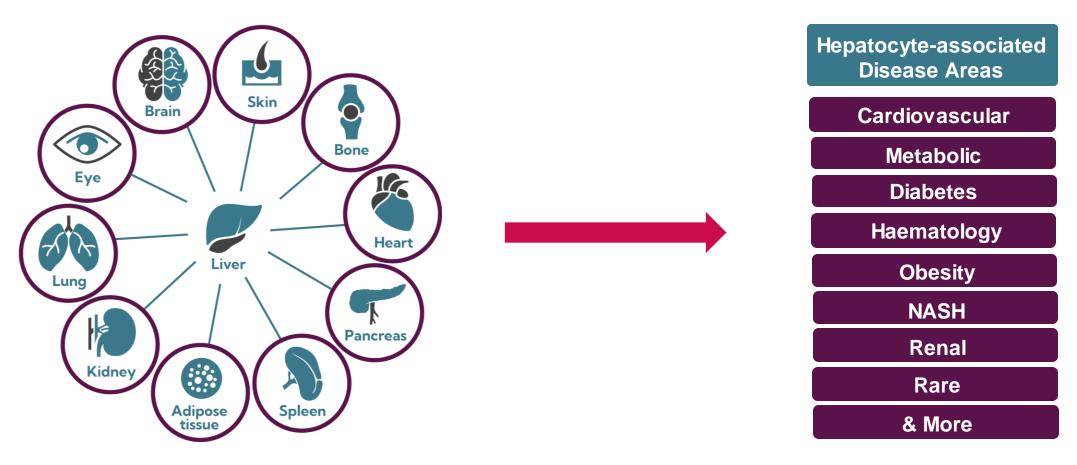


siRNA - small-interfering RNA | RNAi - RNA interference

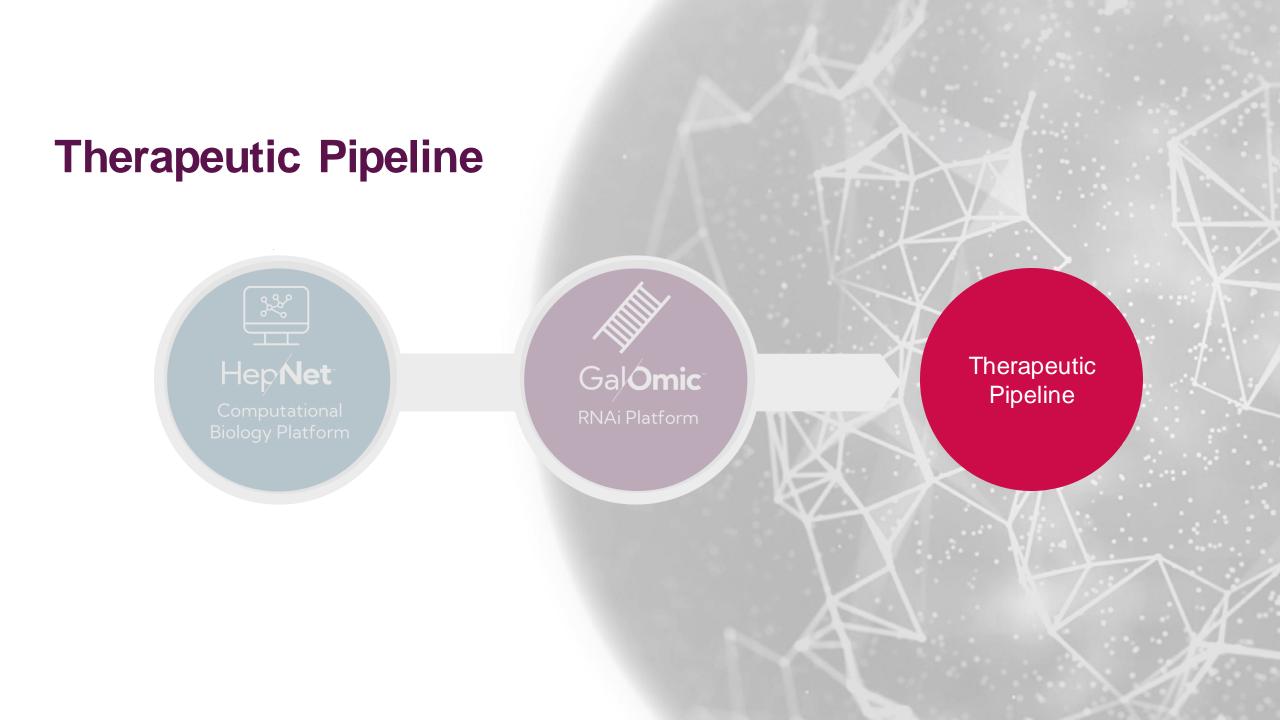
GalOmic[™]



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

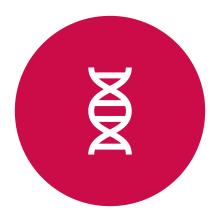


ETX-291: A HepNet[™] Identified Target for Cardiovascular Disease Risk **—**

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



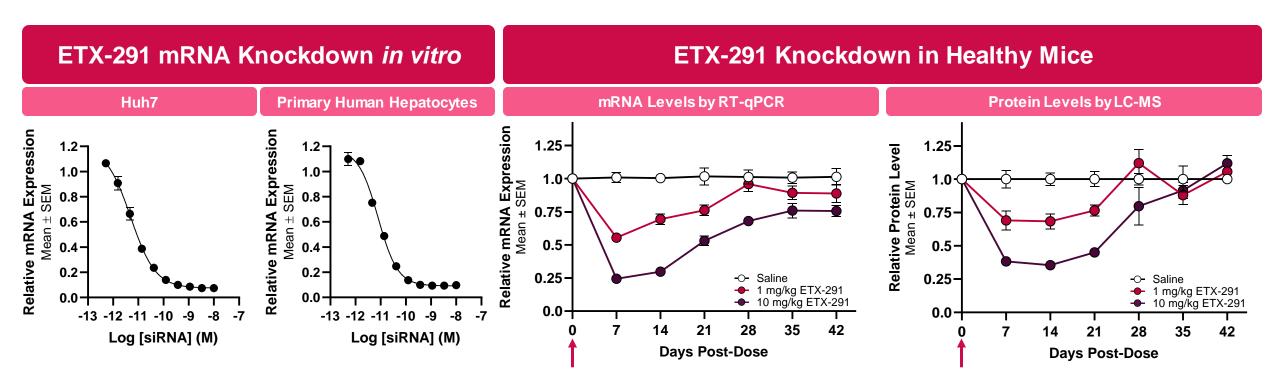
Human genetic evidence links target to reduced cardiovascular disease risk in otherwise healthy individuals

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

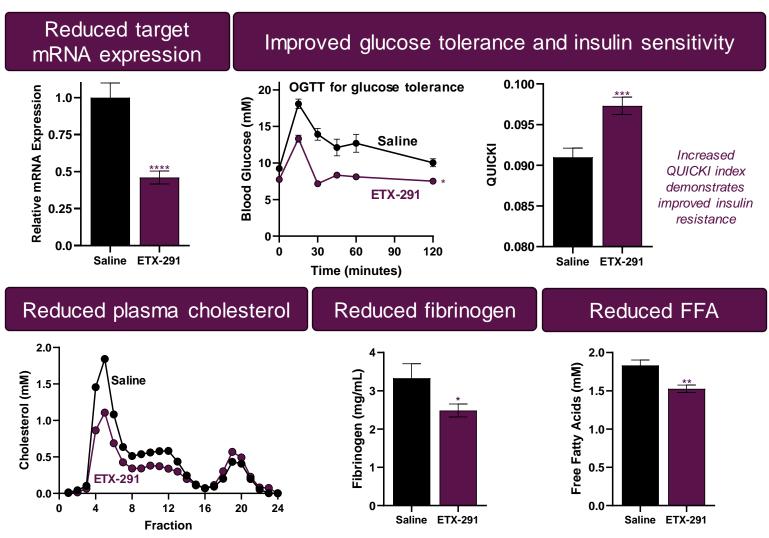


Constructs used in *in vivo* murine models demonstrate deep and sustained mRNA and protein knockdown, with a duration of action that supports quarterly subcutaneous dosing in humans

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

¹²⁻week study with weekly subcutaneous 10 mg/kg dose of ETX-291. Error bars: mean ± SEM

^{*}p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001

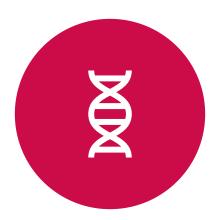
ETX-148: A HepNet[™] Identified Pan-Haemophilia Target



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



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

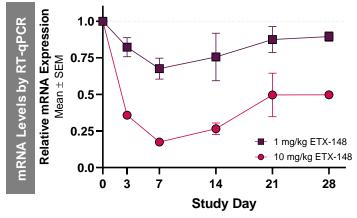
Target Product Profile

- 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™ GalNAc- siRNA** technology

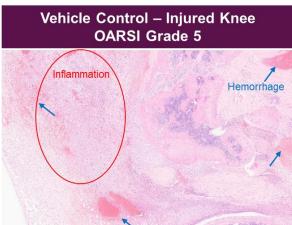
ETX-148 is a Potent siRNA That Demonstrates Joint Protective Effects in a Haemophilia A Haemarthrosis Mouse Model

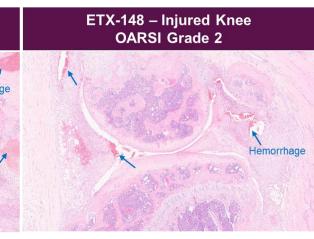


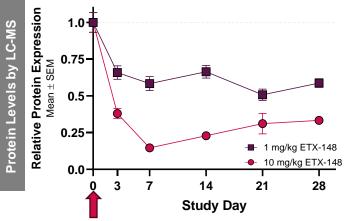
A Haemarthrosis Study in Haemophilia A Mice











- Administration of ETX-148 resulted in improved haemarthrosis knee joint pathology, reduced inflammation, and resulted in smaller areas of haemorrhage
 - 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

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



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 in vivo 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

e therapeutics

Appendix



Leadership



Ali Mortazavi
Chief Executive Officer



Alan Whitmore
Chief Scientific Officer



Alison Gallafent
Chief Intellectual Property
Officer



Timothy BrethertonChief 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

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

Dr Bill HarteChief Translational Officer
Case Western Reserve University