

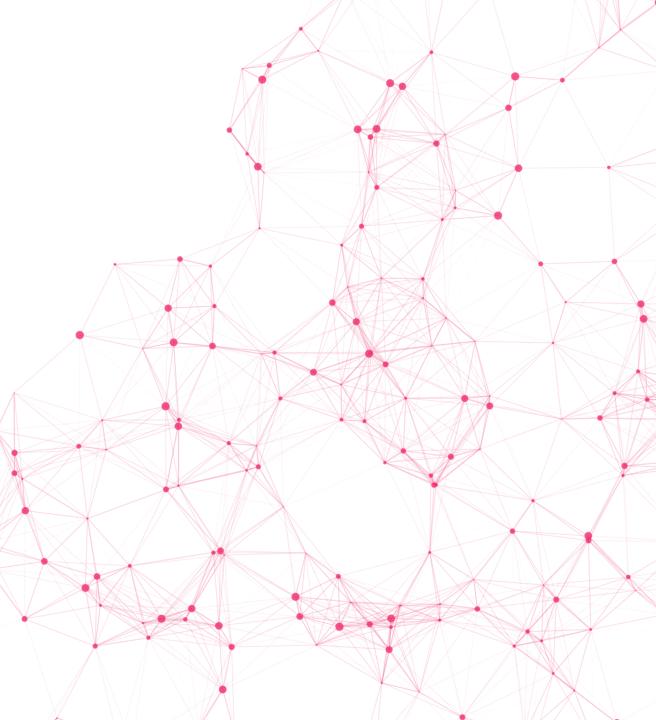
Digital Drug Discovery

Computational Biology Platform

Novel Mechanisms, Targets & Drug Candidates

25th February 2021

Non-Confidential Overview



Legal Disclaimer

Forward looking statement

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About us

Oxford, UK-based, AIM listed

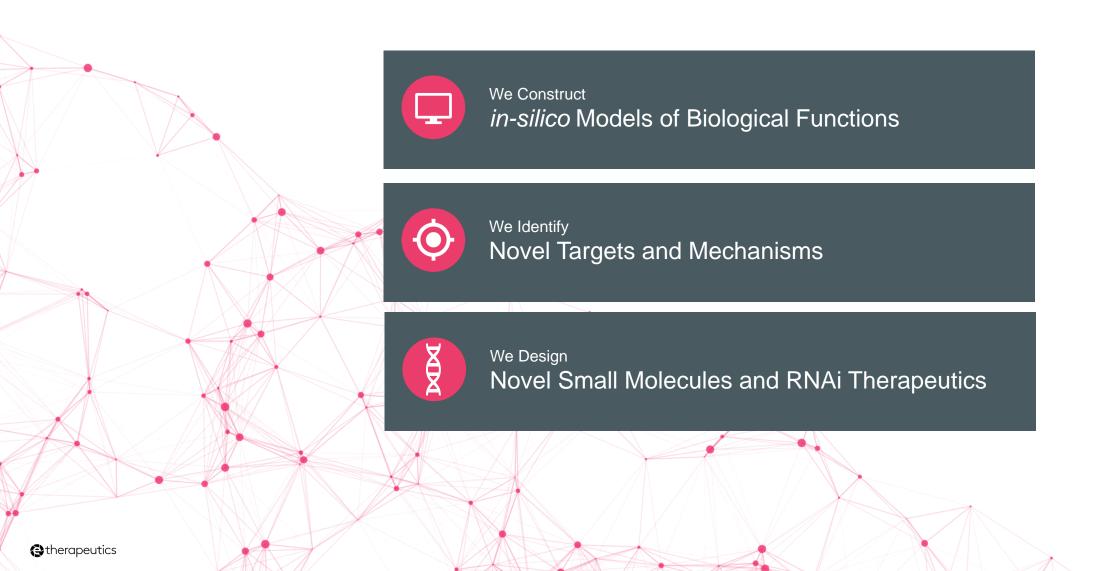
Network-driven computational drug discovery platform

RNAi technology platform

Commercial collaborations with top-tier pharma companies



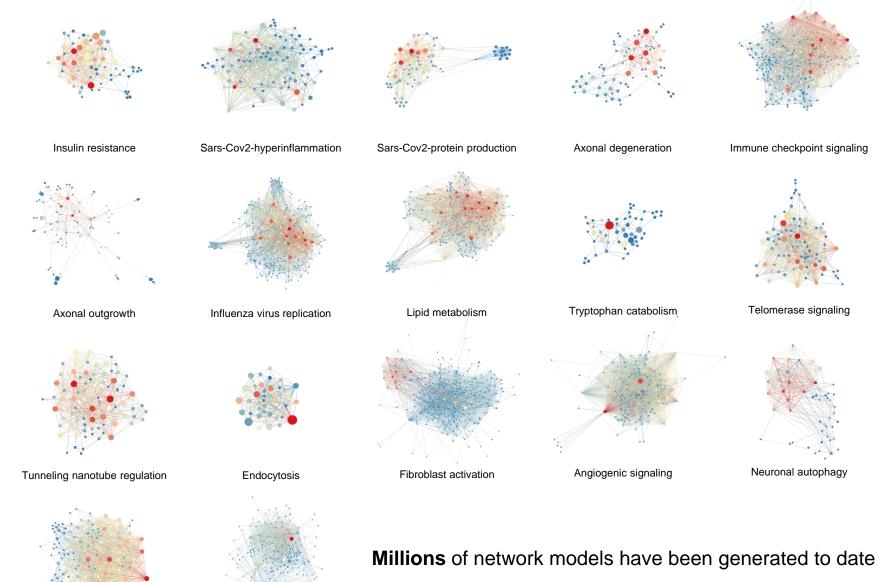
Our in-Silico Laboratory



Network Biology

Network models of biological functions

Biological functions are controlled by networks of genes and proteins



TNFa signaling regulation

Immunoreceptor ligand expression

Drug Discovery Platform

Network Biology Platform



Multidisciplinary domain expertise



Proprietary & AI enhanced data resources



Proprietary cutting-edge network analytics



Wet lab outcomes

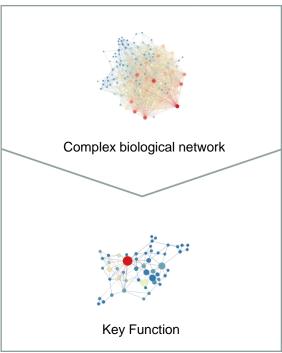


Dealing with Biological Complexity

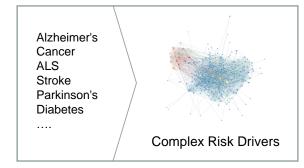
In-Silico Laboratory Outputs

Network models produce effective wet lab outcomes

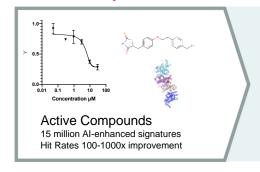
Get Mechanistic Insights



Get Genetic Insights

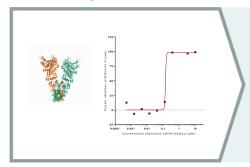


Find Compounds



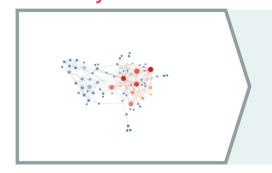
Target Deconvolution
Novelty

Find Key Proteins



Novel TargetsWet Lab Validation

Find Key Functions



Novel MechanismsGenetic Validation

Validated Platform

Demonstrating advantages over blind screening for small molecule discovery

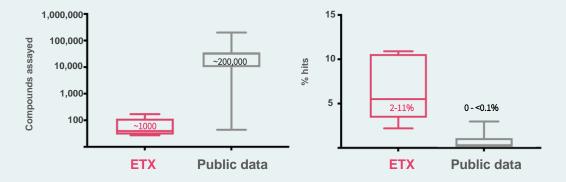
	Project	% 'Hits' in parallel phenotypic screens
e-therapeutics	Telomerase signalling	4.3%
	Hedgehog pathway	5.5%
	TNFα release	7.3%
	Influenza replication	2.2%
	Tryptophan catabolism	11%
	SIRS	11%
	Axonal degeneration	3.4%
	Reversal of T-cell exhaustion	5%
partners	Type 2 Diabetes	_
	♦ MSD CNS	_
	Galápagos Idiopathic pulmonary fibrosis	_

Applicable across diverse biology and therapeutic areas

High Bar 'Hit' Confirmed activity <10µM in multiple cell-based assays

No cytotoxicity | Structural QC | Initial FTO

NDD Guided vs. Other Phenotypic Screening*



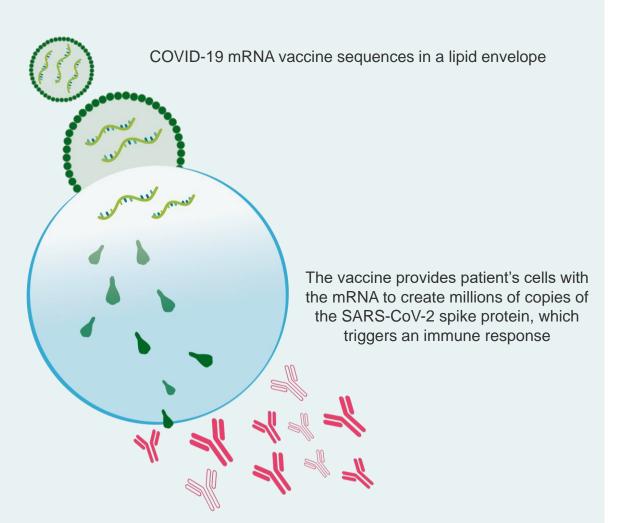
Our hit rates are 100-1000x higher than industry standards

- Need to test fewer compounds to find high quality hits
- Improves translatability by enabling use of highly relevant phenotypic assays that better represent human disease at the screening stage
- Our hits are not 'blind' we have information on their potential MoA

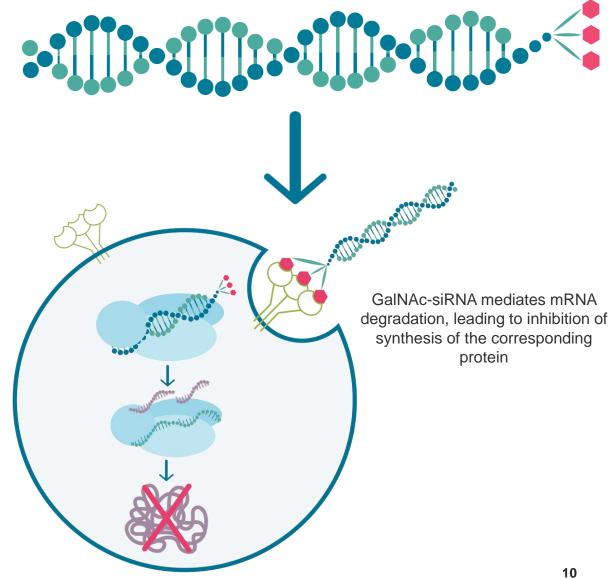
RNAi Platform



Comparison mRNA Vaccines and RNAi Therapeutic Mechanism



siRNA conjugated to a GalNAc ligand for hepatocyte targeting



RNAi in Liver

Unique Drug Like Properties

Highly specific - one cell type, one target mRNA

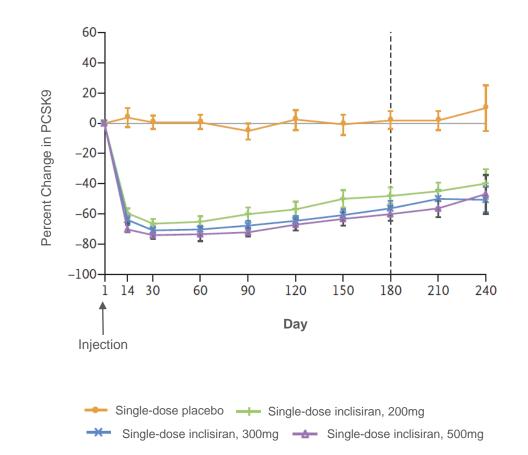
Long duration of action – one subcutaneous injection

Multi billion dollar drug platform opportunity

Clinically validated technology

Changes in PCSK9 Levels with a single-dose regimen of inclisiran vs. placebo

Data from Phase 2 ORION-1 trial in patients with high cardiovascular risk and elevated LDL-C



Clinically Validated RNAi Platform

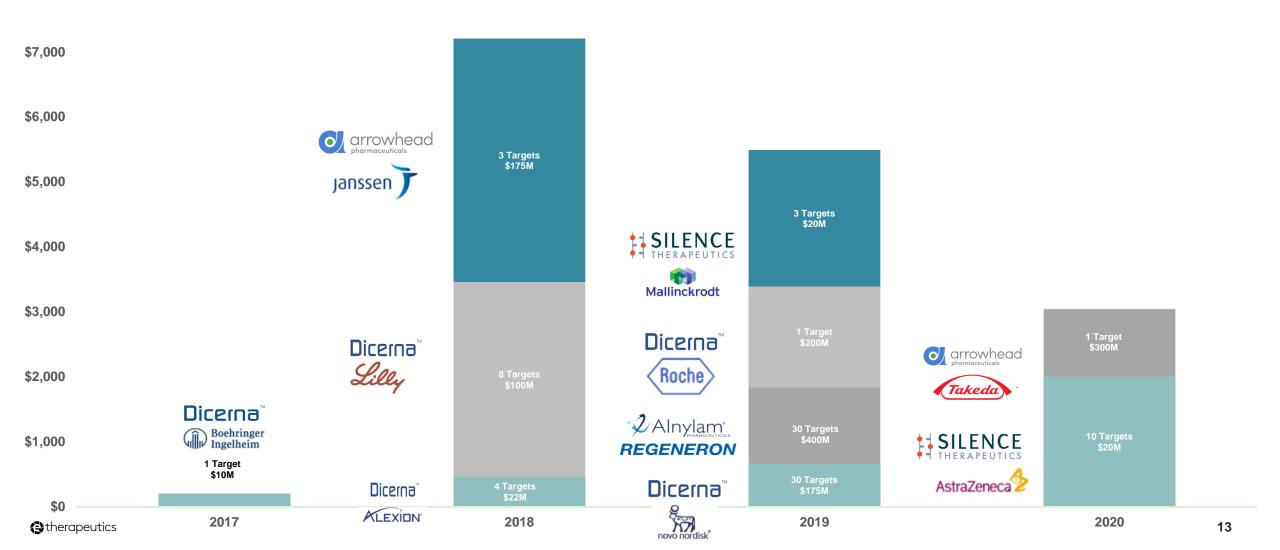
Validated Platform Transitioning from Rare to Complex Disease



RNAi Deals are Commanding Significant Financials

Deals highlighting up-front payments for exclusive rights for predominantly pre-clinical targets

Overall value of deals in 000's



ETX RNAi Platform

Strong IP position

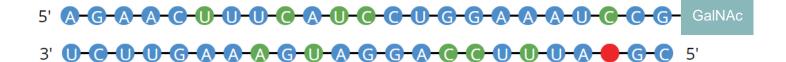
Novel GalNAc linker with patent filed

Position specific stabilization chemistry

Preclinical timelines significantly faster

Initial Chemical Designs







Stabilization chemistry

2'-OMe 2'-F - PS linkage Other modification

Hepatocyte Delivery System

GalNAc *N*-acetylgalactosamine

Liver Presents Large Opportunities for RNA Therapies



- ~10K proteins expressed in liver hepatocytes
- ~1K are secreted to influence other organs*



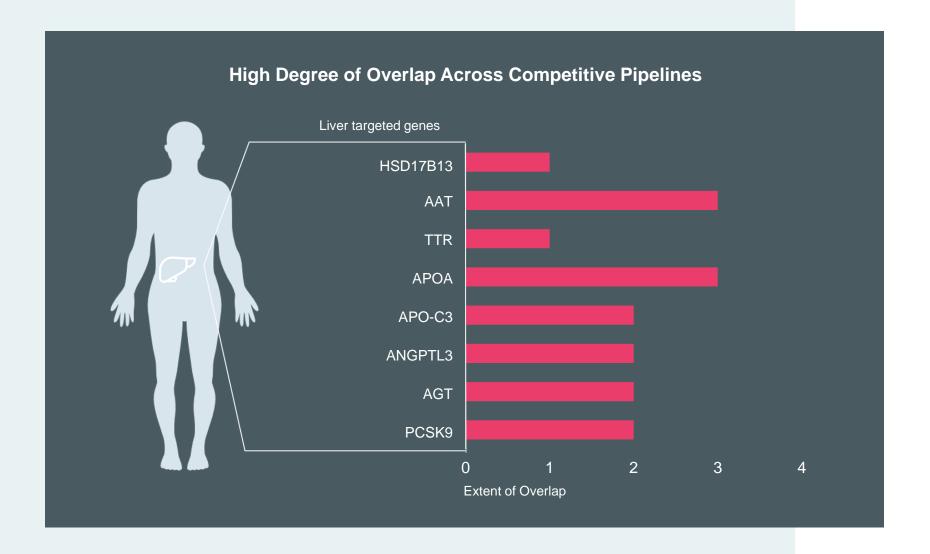
To date only 1% liver-expressed genes targeted using RNA therapeutics



Many therapeutic opportunities in the liver yet to be identified by competitors



Liver-Expressed Genes Targeted by RNAi Therapeutics











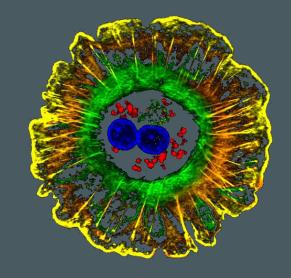
Liver Focused Informatics Team

Most complete network map of hepatocyte biology **Proprietary to ETX**

Leading experts in hepatocyte biology

Generation and Al-supported curation of **proprietary experimental data** in human primary hepatocytes

Network-driven Target ID tailored to GalNAc siRNA



Focusing Network Science & Al on Hepatocytes

- Functional interpretation of genetic data
- Network Biology Platform Al/Machine Learning
- Disease Biology expertise
- Proprietary hepatocyte-specific interactome & molecular profiling data
- Primary Human Hepatocyte assays



Building Collaborations

Type 2 diabetes, fibrosis and neurodegeneration

Maximising platform value through creative deal structures

Positioning ETX as global leader in Network Biology

Multi-year research collaborations







Actively pursuing **new collaborations** in addition to ongoing business development.

Current and Future Plans

Expand our computational platform collaborations

Establish world leading hepatocyte expertise

Generate novel hepatocyte-expressed targets

Commence RNAi platform partnerships



Experienced Management Team and Scientific Board

Board of Directors

Ali Mortazavi Executive Chairman

Professor Trevor Jones CBE
Non-executive director

Michael Bretherton Non-executive director CEO Sarossa Plc

Scientific Advisory Board

Dr Paul BurkeChair, Former CTO Pfizer

Dr Bill HarteChief Translational Officer
Case Western Reserve University

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



Ali Mortazavi CEO, Executive Chairman



Alan Whitmore Chief Scientific Officer



Jonny Wray
Chief Technology Officer



Colin Stubberfield
Chief Research Officer



Laura Roca-Alonso Chief Business Officer



Stephanie MaleyChief People Officer



Sarah Clare
Director Finance

