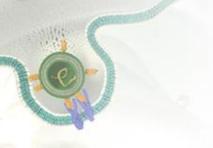


Non-Confidential Presentation





Overview

WHO WE ARE

Acuitas is a globally recognized biotechnology company specializing in the development of delivery systems for nucleic acid therapeutics based on lipid nanoparticles (LNP).

Our LNP currently enable two commercial products:





WHO WE WORK WITH

We work with a variety of organizations, including:



Cutting edge pharmaceutical & biotechnology companies



Leading academics in universities & institutes



Foundations & NGOs

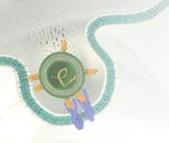
HOW WE WORK

As a technology platform provider, we exclusively work in collaboration with partners.

We do not have our own drug development programs – we are focused on supporting our partners to bring their drug products to patients.







Applying Our LNP Technology

Gene Modulation

Expression of an epigenic editor to modify gene expression without changing the genetic code.

Gene Editing

Expression of a **genome editing** protein to modify gene expression.







Vaccines

Expression of viral or bacterial proteins to generate a protective **immune response**.

Expression of **tumour antigens** (including personalized cancer vaccines).

Antibodies

Expression of prophylactic or therapeutic antibodies to treat current and emerging diseases.



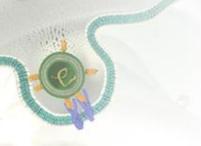


Therapeutic Protein Delivery

Expression of a **human protein** to treat disease.







Our Partners' Success

Products in Clinic

1 1 1 1 1 1 1 1 1 1 1 1 1 1

in Phase 1

in Phase 2

in Phase 3

Clinical Firsts



***COMIRNATY**





First Clinically Approved RNA interferencebased Medicine First Clinically Approved mRNA-based Medicine

First Widely Approved **COVID-19 Vaccine**

First LNP enabled personalized **CRISPR** gene editing therapy



PRECISION Sept 2025: <u>Precision BioSciences Presents Data from the Phase 1</u>
BIOSCIENCES <u>ELIMINATE-B Trial of PBGENE-HBV at the 6th International</u> Coalition to Eliminate HBV Cure Symposium



Aug 2025: Beam Therapeutics Provides Update on BEAM-302 Development Progress in Alpha-1 Antitrypsin Deficiency (AATD)



July 2025: Arbor Biotechnologies Announces First Patient Dosed at Mayo Clinic in the redePHine Phase 1/2 Study of ABO-101, an Investigational Gene Editing Treatment for Primary Hyperoxaluria Type 1



May 2025: Myeloid Therapeutics Unveils First-in-Human In Vivo mRNA CAR Data, Marking a Breakthrough in RNA-Based Immuno-Oncology at the 2025 ASCO



May 2025: CRMA-1001 an epigenetic editor for the treatment of chronic hepatitis B



Dec 2024: Tune Therapeutics Moves into Clinical Spotlight with TUNE-401: A First-in-Class Epigenetic Silencer for Hepatitis B



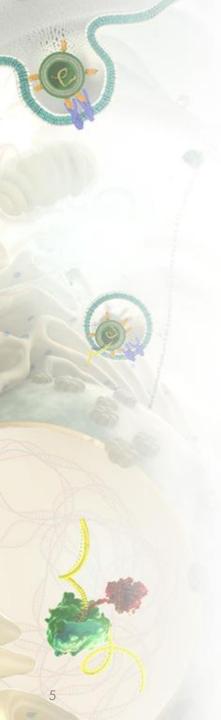
OMEGA™ Nov 2024: Omega Therapeutics Announces Successful

THERAPEUTICS Completion of Phase 1 Trial for Novel Epigenomic Controller



Sept 2024: CureVac's CVGBM Cancer Vaccine Induces Promising Immune Responses in Phase 1 Study in Glioblastoma Presented at the ESMO 2024 Congress Sept 2024: CureVac Partner GSK Announces Positive Phase 2

Data from Seasonal Influenza mRNA Vaccine Program



Our Approach to Innovation

Structured Activity Relationship (SAR)

Preclinical Characterization (Potency & Safety) Our Discovery Engine

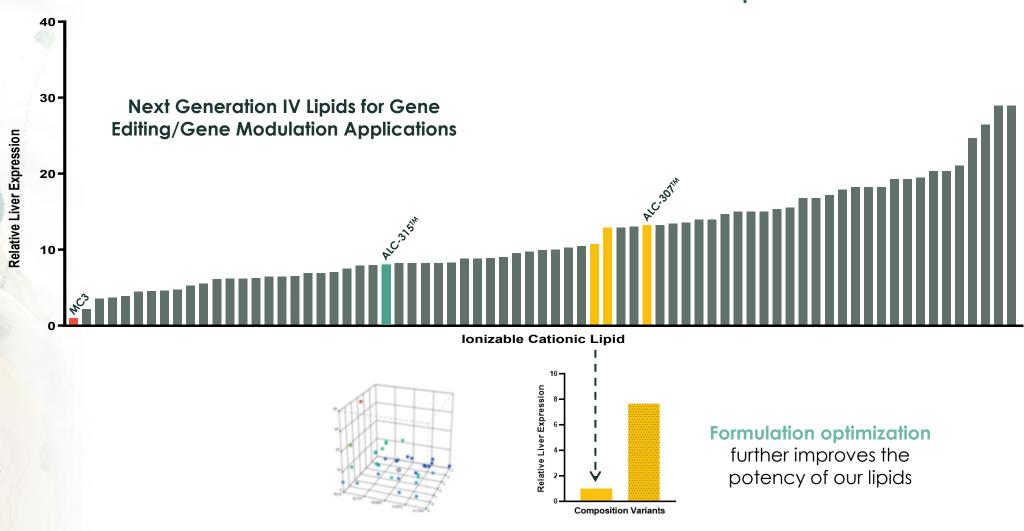
Lipid Design & Synthesis

Formulation Development

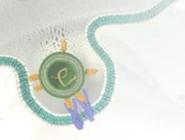


Our Approach to Innovation 30. **Next Generation IV Lipids for Gene Editing/Gene Modulation Applications** Relative Liver Expression 20-10 **Ionizable Cationic Lipid** Neutralization Titer - HAI Fold Change normalized to ALC-0315) **Next Generation IM Lipids for Vaccine Applications** cGMP ready + in clinic

Continuous Innovation: Formulation Optimization







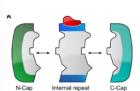
Continuous Innovation: Extrahepatic Targets

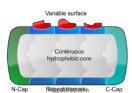
OUR APPROACH

Our extrahepatic program is focused on delivery via cell targets that are directly accessible in the blood compartment or local administration.

HOW WE DO IT

We use antibody mimetics called **Designed ankyrin repeat proteins (DARPins)** to target any tissue and / or organ with high specificity.





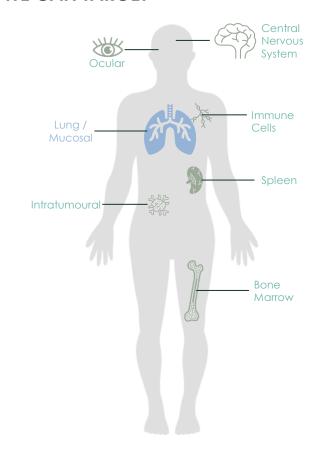
AREAS WE CAN TARGET

Diseases Affecting the Lung (i.e., CF, Cancer, Infectious Disease etc.)

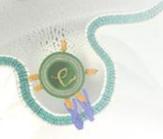
Mucosal (via aerosolization)

Epigenetic Regulation and Gene Modification

Spleen, Bone Marrow, Ocular, Intratumoural, Immune Cells, Central Nervous System (CNS)



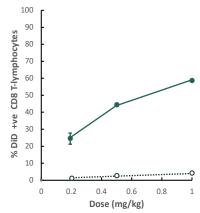




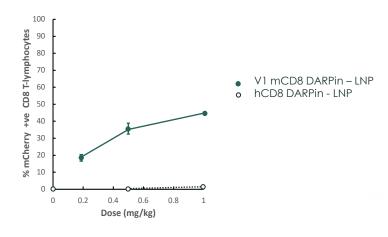
Continuous Innovation: Targeted LNP Delivery

CD8 DARPin targeted mRNA LNP show dose dependent, target specific binding / uptake and transgene expression.

LNP Binding / Uptake



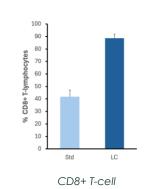
Reporter Gene Expression



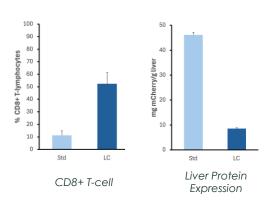
Optimized long circulating LNP results in increased in binding / uptake and expression.

Expression in liver is ~5x lower vs. standard LNP.

LNP Binding / Uptake

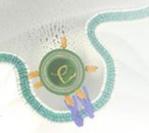


Reporter Gene Expression





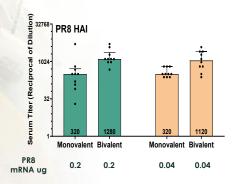


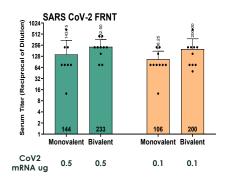


Continuous Innovation: Multivalent & Cancer Vaccines

MULTIVALENT VACCINES

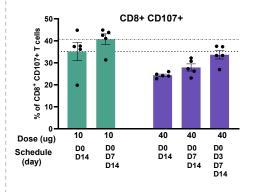
Vaccines can be developed and delivered using 5-fold lower dose vs.
ALC-315™ with equivalent titers with our newer technology.

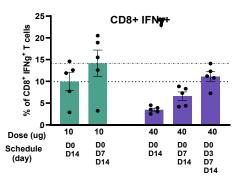




CANCER VACCINES

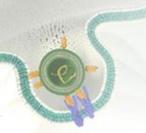
Our LNP demonstrate better cellular response vs. industry clinical candidate at 4-fold lower dose and at least 1 less administration.











Continuous Innovation: Pre-Formed Vesicles (PFV)



Refrigerated (2-8°C) (and potential for room temperature) long term storage & distribution



Flexible, small-scale manufacturing capability

Infectious Disease Vaccine



Improve accessibility and distribution



Regional-specific vaccine formulation



On-demand variant selection

Personalized
Cancer
Vaccine



Adaptable neoantigen modification

Rare Genetic Disease Therapeutics

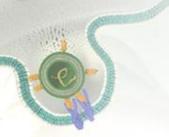


Fast and costeffective



Modular, flexible, platform approach





Accelerating Clinical Entry

Chemistry	Formulation	Analytical	Preclinical		
Lipid Design	LNP Formulation & Nucleic Acid Loading	(Bio)analytical Methods Development & Transfer	Pharmacology		
Lipid Synthes Our Development Lifecycle PK / ADME					
SAR Analysis	Formulation Optimization		Toxicology		
			Immunology		

CMC	Regulatory
Tech Transfer	(Pre) IND / CTA Review
Manufacturing Scale Up	LNP Positioning to Regulators
	Clinical Safety Profile

Our breadth and depth of capabilities enables end-to-end drug development support.





Why Acuitas?

Best-in-class and First-in-class

We have unparalleled technology with:

- First-in-class and best-inclass drug products commercialized, including Onpattro® and Comirnaty®.
- A broad and comprehensive IP portfolio.

2 Accelerated Clinical Entry

We understand the importance of early clinical entry.

We provide access to **cGMP**-grade lipids.

Our expertise in tech transfer and product scale up de-risks your development program, saving you time and money.

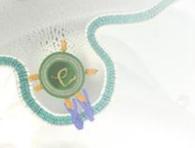
Our partners have initiated 26 clinical trials in the last 2 years.

3 Unparalleled Scientific Leadership & Experience

Working with academic scientists and key opinion leaders we publish regularly in the top scientific journals.

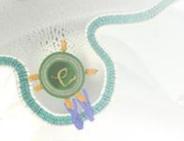
Our team is at the cutting edge of scientific discovery.





Our Scientific Leadership

Mechanism of Action	nature nature nature	 Spatial profiling of gene editing by in situ sequencing in mice and macaques (2025) Lipid nanoparticles (LNP) induce activation and maturation of antigen presenting cells in young and aged individuals (2023) Molecular fate-mapping of serum antibody responses to repeat immunization (2023)
Therapeutic Areas	™ NEW ENGLAND JOURNAL of MEDICINE nature nature	 Patient-Specific In Vivo Gene Editing to Treat a Rare Genetic Disease (2025) Treatment of a metabolic liver disease in mice with a transient prime editing approach (2025) A potent epigenetic editor targeting human PCSK9 for durable reduction of low-density lipoprotein cholesterol levels (2025) Physiologically based modeling of LNP-mediated delivery of mRNA in the vascular system (2024)
Extra-hepatic Application	ADVANCED HEALTHCARE MATERIALS Science Science	 Targeting lipid nanoparticles to the blood-brain barrier to ameliorate acute ischemic stroke (2024) Exploring Mechanisms of Lipid Nanoparticle-Mucus Interactions in Healthy and Cystic Fibrosis Conditions (2024) In vivo modification of hematopoietic stem cells by targeted lipid nanoparticles delivering mRNA (2023) CAR T cells produced in vivo to treat cardiac injury (2022)
Vaccine Improvements	Science Science Science nature	 Nonstabilized SARS-CoV-2 spike mRNA vaccination induces broadly neutralizing antibodies in nonhuman primates (2025) An IL-12 mRNA-LNP adjuvant enhances mRNA vaccine—induced CD8 T cell responses (2025) A multivalent mRNA-LNP vaccine protects against Clostridioides difficile infection (2024) Development of a nucleoside-modified mRNA vaccine against clade 2.3.4.4b H5 highly pathogenic avian influenza virus (2024)



Our Business Development Process

1. Initial Conversation / CDA 2. Technology Evaluation Agreement (Optional)*

An opportunity to evaluate our technology

3. Term Sheet 4.
Development
& Option
Agreement

A collaboration to optimize your clinical candidate and select the ideal LNP formulation.

5. License

A license to enable clinical trials and commercialization of your product.







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