



Corporate Presentation

October 2019

Forward-looking Statement Disclosure

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INVESTMENT HIGHLIGHTS



Diversified pipeline of product candidates that address large market opportunities



Near-term value-driving catalysts in multiple therapeutic programs



\$42M cash on hand to support development programs and sustain operations through catalysts



Management team and infrastructure in place to advance product candidates



Diversified Product Pipeline

Multiple paths to value creation

Product		Preclinical	Phase I	Phase II	Phase III
Liver Diseases	ALT-801	NASH			
	HepTcell	Chronic Hepatitis B			
Immunology	ALT-702	Solid Tumors			
Intra-nasal Vaccines	NasoShield	Anthrax	Funded by BARDA \$133.7M Potential Value		
	NasoVAX	Seasonal Influenza			Exploring Strategic Alternatives



LIVER DISEASE

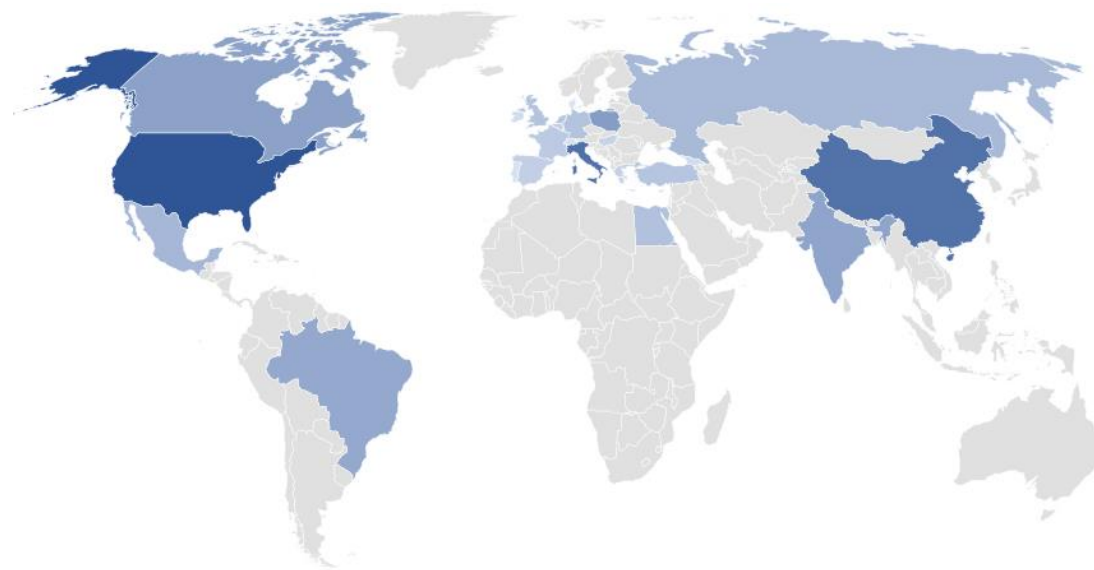
ALT-801: Novel GLP-1/ Glucagon Dual Agonist for NASH

Significant opportunity to address a growing unmet need

- Estimated 16.5M people in the U.S. diagnosed with NASH, projected to increase to 27M by 2030
- Effects patients globally as obesity epidemic becomes more prevalent
- No approved therapies for NASH currently available

600 million

Obese people at risk for NASH

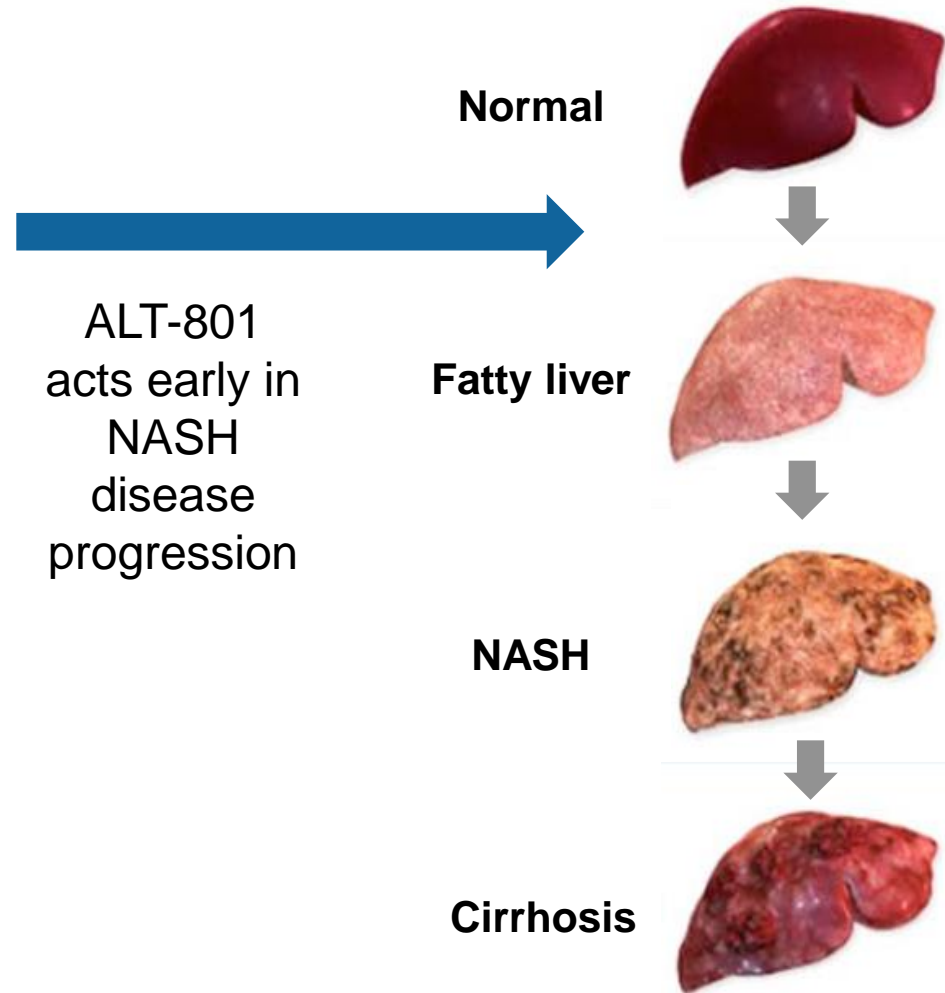


Obesity Rates:							
	USA	Mexico	Canada	Western Europe	Russia	Brazil	China
	36%	29%	29%	23%	23%	22%	6%
							India
							4%

ALT-801: Metabolic Intervention for NASH

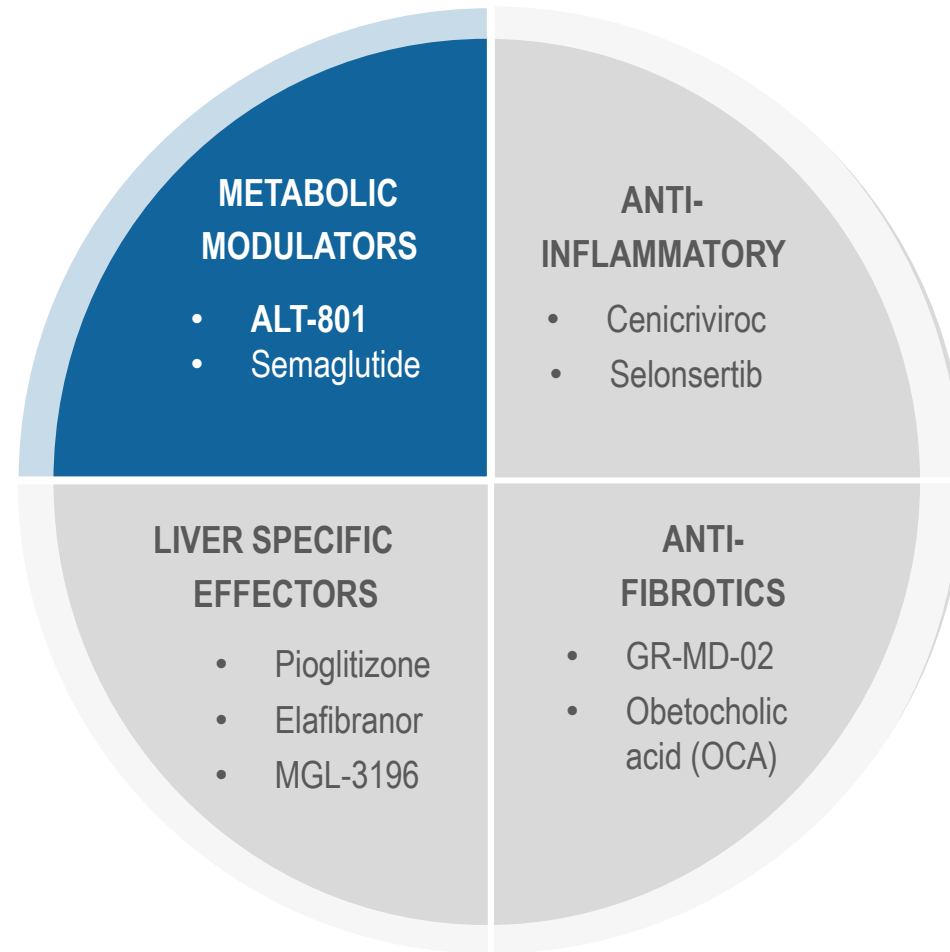
Progressive disease frequently starts with obesity/metabolic syndrome

- Potent and balanced GLP-1/ glucagon dual agonism addresses the major underlying causes of NASH – obesity and excess body fat
- Reverses obesity, metabolic syndrome and hepatic dysfunction
- Substantial weight loss ($\geq 10\%$) can reverse NASH progression¹



ALT-801

**METABOLIC
MODULATORS
ADDRESS THE
UNDERLYING
CAUSES OF NASH
– OBESITY AND
EXCESS BODY
FAT**



Dual agonists represent an emerging approach that shows potential to significantly improve upon current candidates in development for NASH

ONCE WEEKLY DUAL AGONISTS IN DEVELOPMENT

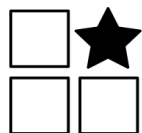
Bias towards GLP-1 expected to show lower weight loss

Company	Molecule	CMC/COG	Safety and Tolerability	In vitro Potency	In vitro Intrinsic Activity	GLP-1R/GCGR Balance in vitro
Altimune	ALT-801	Low – Small molecule modification	TBD	High	Full agonist	Balanced
Hanmi	HM12525A	High – Protein modification	TBD	High	Unknown	Balanced
OPKO (Prolor)	OPK-88003	High – Heterogeneous PEG	High doses required	Very low due to PEG & OXM ligand	Unknown	Bias to GLP-1R
Novo Nordisk	NNC9204-1177	TBD	TBD – potential for semaglutide like intolerance	Unknown	Unknown	Unknown
BI/ Zealand	BI 456906 US 2018 / 0094038	TBD	TBD	Low	Unknown	>7:1 bias to GLP-1R

ALT-801: Potential Best in Class Product Profile

Well-differentiated candidate with compelling pre-clinical data

DIFFERENTIATED

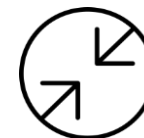
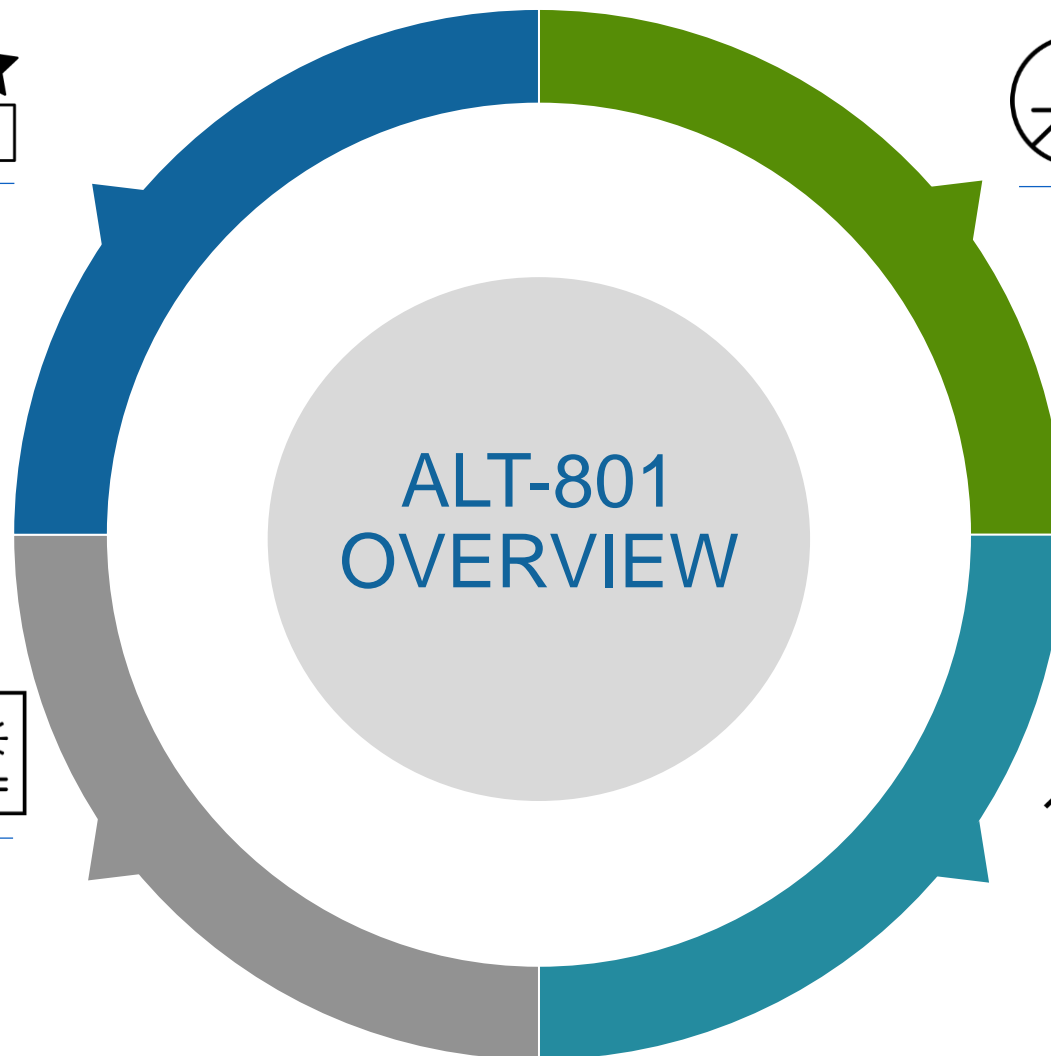


- Balanced dual agonist at GLP-1 and Glucagon receptors
- PK profile optimized for weekly dosing
- Potential for improved GI tolerability

STRONG INTELLECTUAL PROPERTY



- Worldwide filings in 6 patent families; including a granted US patent with exclusivity ≥ 2035



SUPERIOR PRE-CLINICAL DATA

Superior to semaglutide and elafibranor in:

- Overall weight loss
- Reduction in liver fat
- NAS improvement
- Effects on fibrosis



PATIENT FRIENDLY

Aqueous solution compatible with 31-gauge needle to maximize comfort

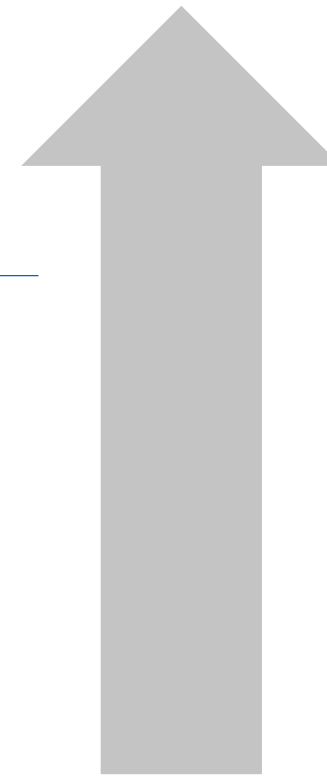
ALT-801

GLP-1/
GLUCAGON
DUAL AGONISTS:
OPTIMAL
ACTIVITY FOR
NASH



GLP-1

- ↓ blood glucose
- ↓ appetite
- ↓ inflammation



GLUCAGON

- ↑ energy expenditure
- ↑ adipose browning
- ↑ lipolysis/gluconeogenesis
- ↑ mobilization of liver fat

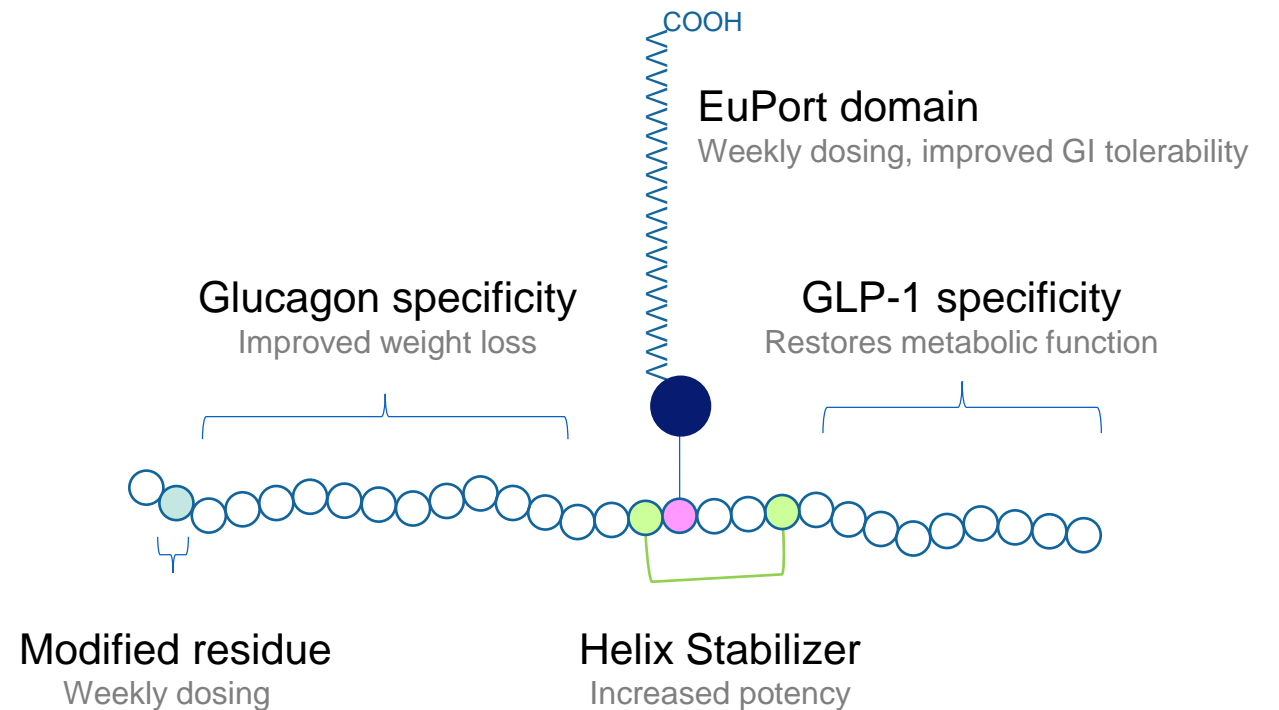
Significant reductions in:

- weight
- liver fat, inflammation & resulting fibrosis
- blood glucose

ALT-801: Structure is Key to Differentiation

Proprietary EuPort domain provides improved PK

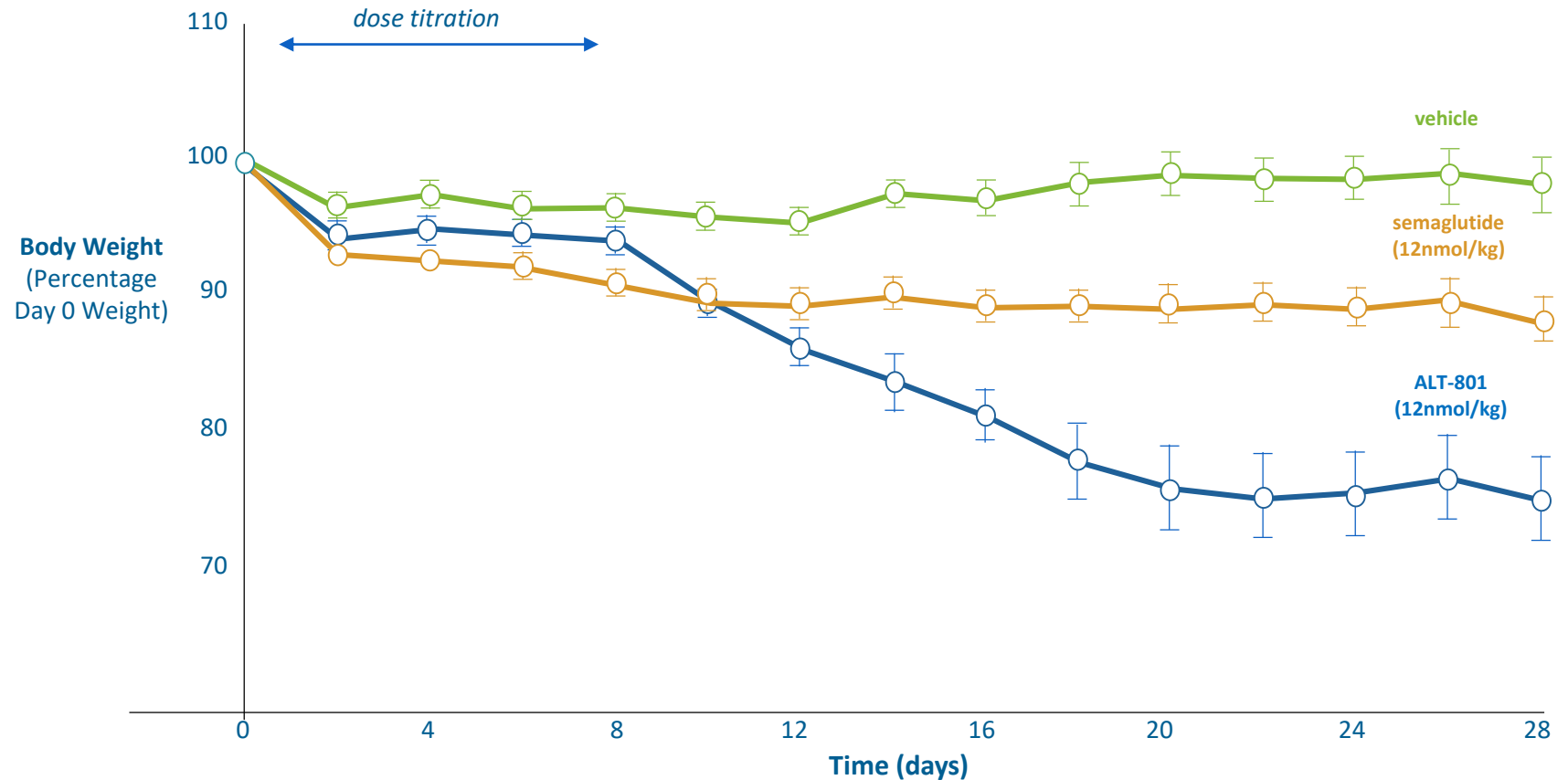
- EuPort domain intended for weekly dosing
- Slower onset of action for improved tolerability
- Helix Stabilizer improves potency and function of EuPort domain
- Non-natural amino acid resists proteolytic degradation



ALT-801

25%
WEIGHT LOSS
OVER ONE
MONTH

Mouse DIO Model After 4 Weeks of Treatment



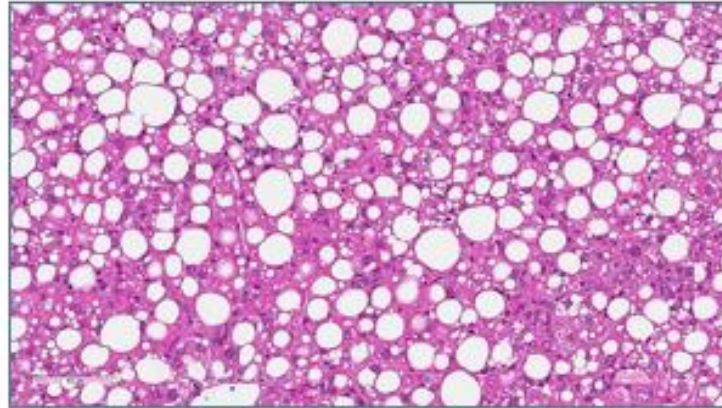
- More than **2x** the weight loss of **semaglutide**
- Body weight decreased to **normal lean range**

ALT-801

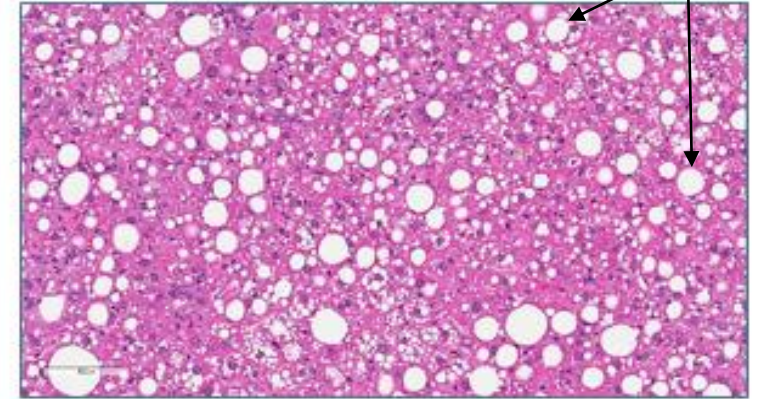
GREATER
REDUCTION IN
LIVER FAT

Gubra Model After 12 Weeks of Treatment

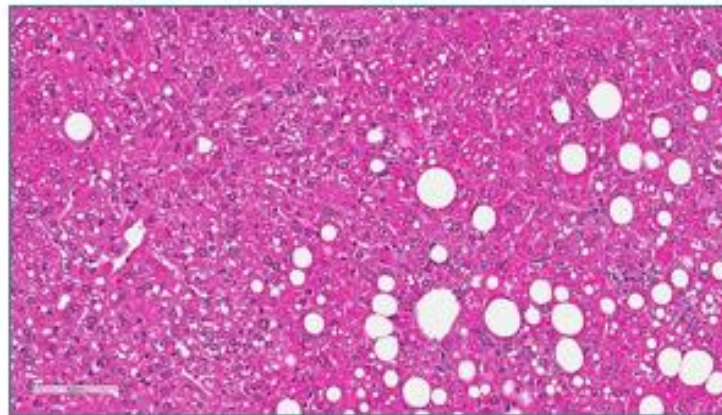
VEHICLE



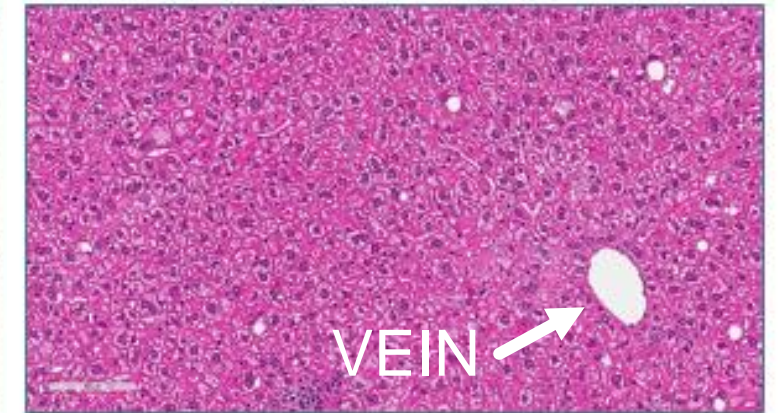
SEMAGLUTIDE



ELAFIBRANOR



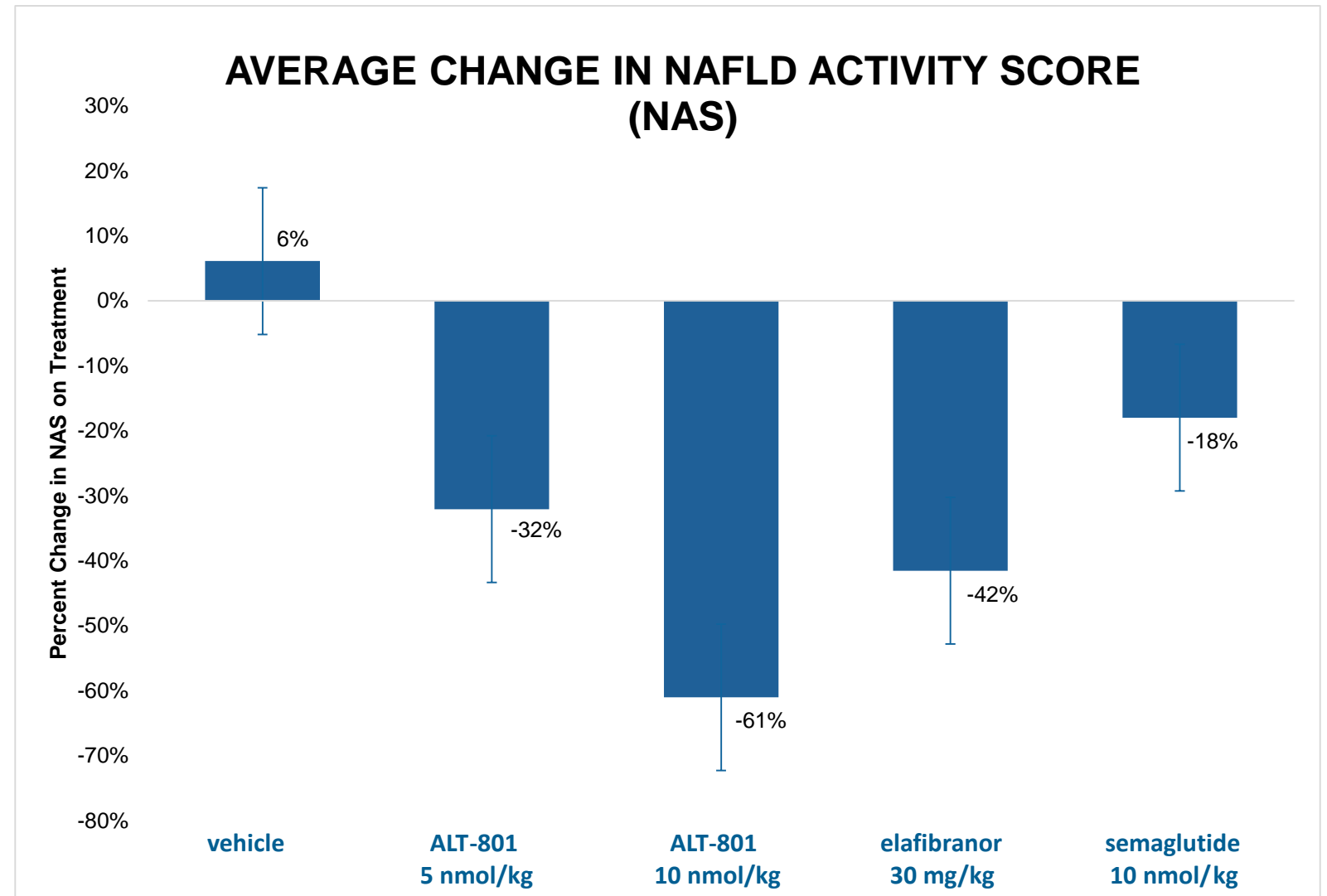
ALT-801



ALT-801

GREATER
REDUCTION IN
NAFLD ACTIVITY
SCORE (NAS)

Gubra Model After 12 Weeks of Treatment



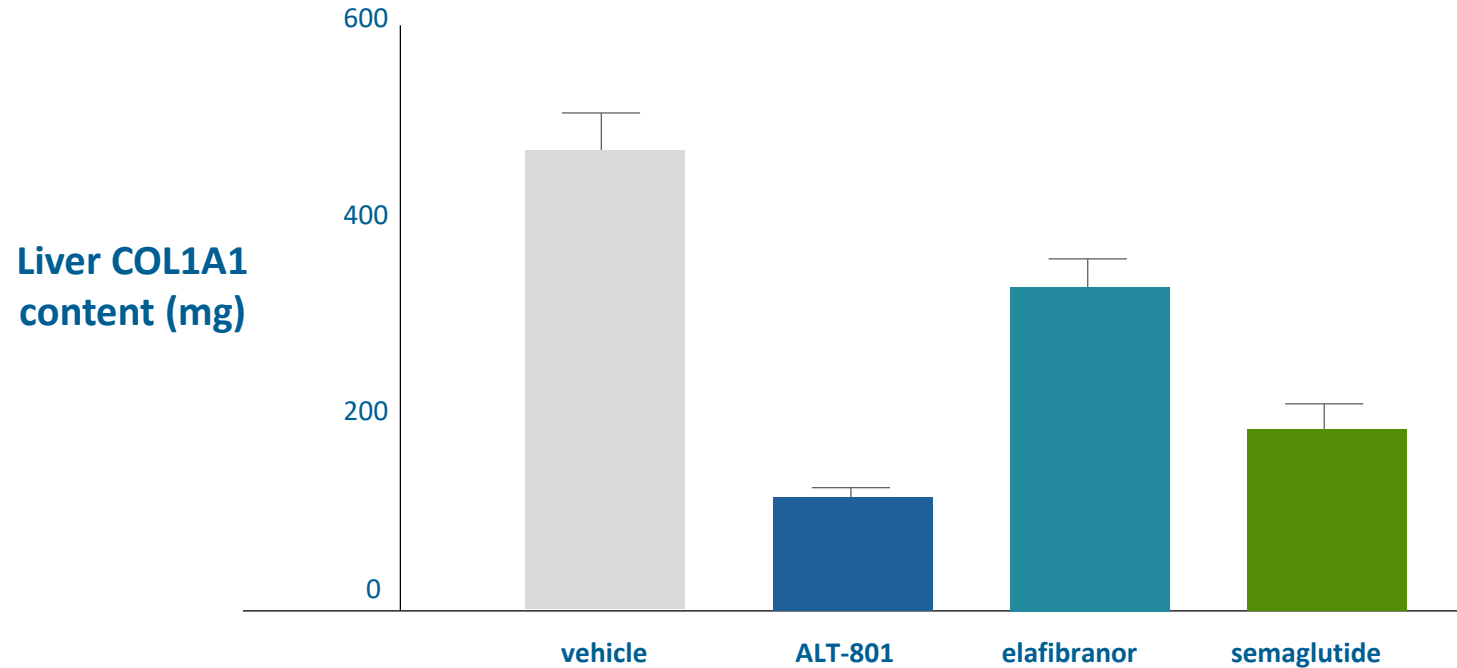
Score of each component of the NAS: Steatosis(0–3); Lobular inflammation:(0–3; Ballooning: (0–2)
The % is based on mean of individual animal responses pre- and post-treatment biopsy.

ALT-801

GREATER
IMPACT ON
FIBROSIS

Gubra Model After 12 Weeks of Treatment

QUANTITATIVE REDUCTION IN COLLAGEN FIBROSIS MARKER



ALT-801 showed **significant decreases** in Type 1 collagen, a key component of fibrosis

Similar pattern of effects were noted for galectin-3, a **marker for inflammation and fibrosis**

ALT-801

GLP-1/Glucagon Dual Agonist for NASH

Differentiated

- Balanced and potent dual GLP-1 and glucagon agonist
- Superior therapeutic activity in accepted preclinical models
- Novel peptide stabilization mechanisms
- PK indicates potential for better tolerability
- Weekly dosing

Development Plan

- File IND in 2H 2020
- Phase 1 study with mechanistic readout on liver fat and body weight in 1H 2021
- Prosecute 6 global supporting patent families
- Evaluate aligned disease indications including obesity and type 2 diabetes

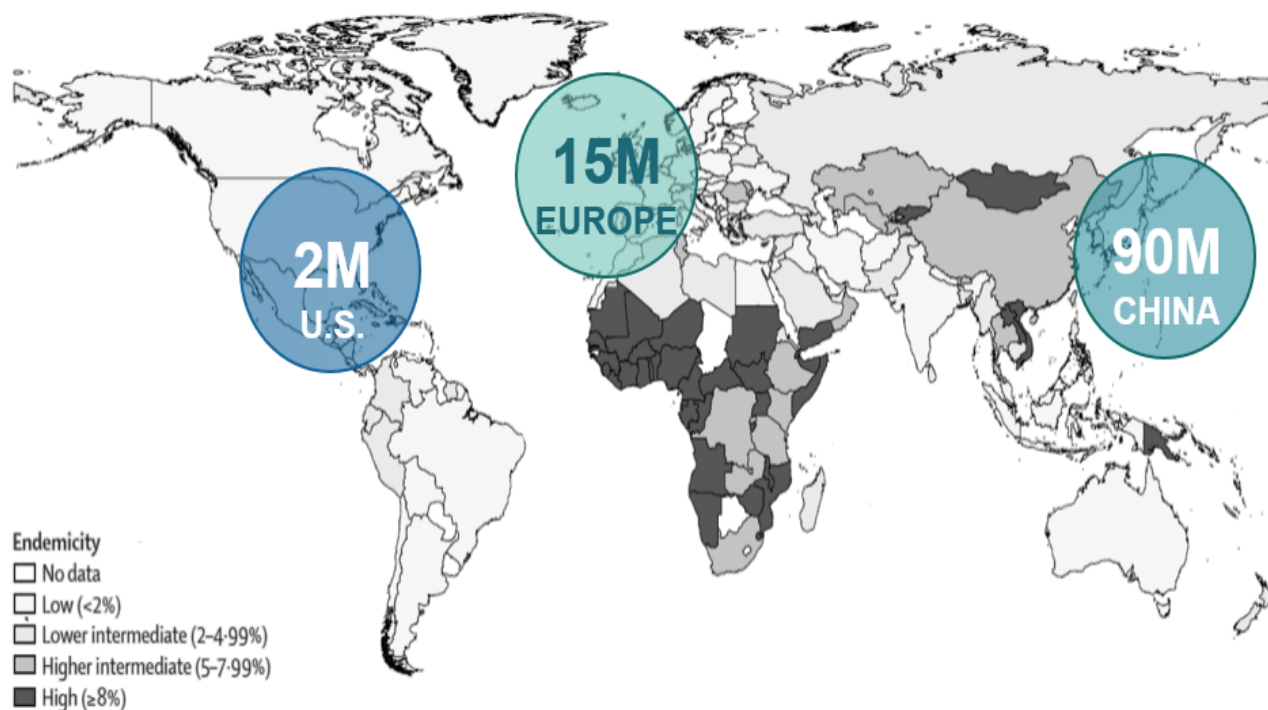
HepTcell: T Cell Immunotherapy For Chronic Hepatitis B

Significant opportunity to improve current HBV cure rates

- Nearly 300 million people with chronic HBV infection worldwide
- Over 780,000 deaths/year due to cirrhosis and liver cancer
- Estimated prevalence of chronic HBV in USA is 2.2 million

257 million

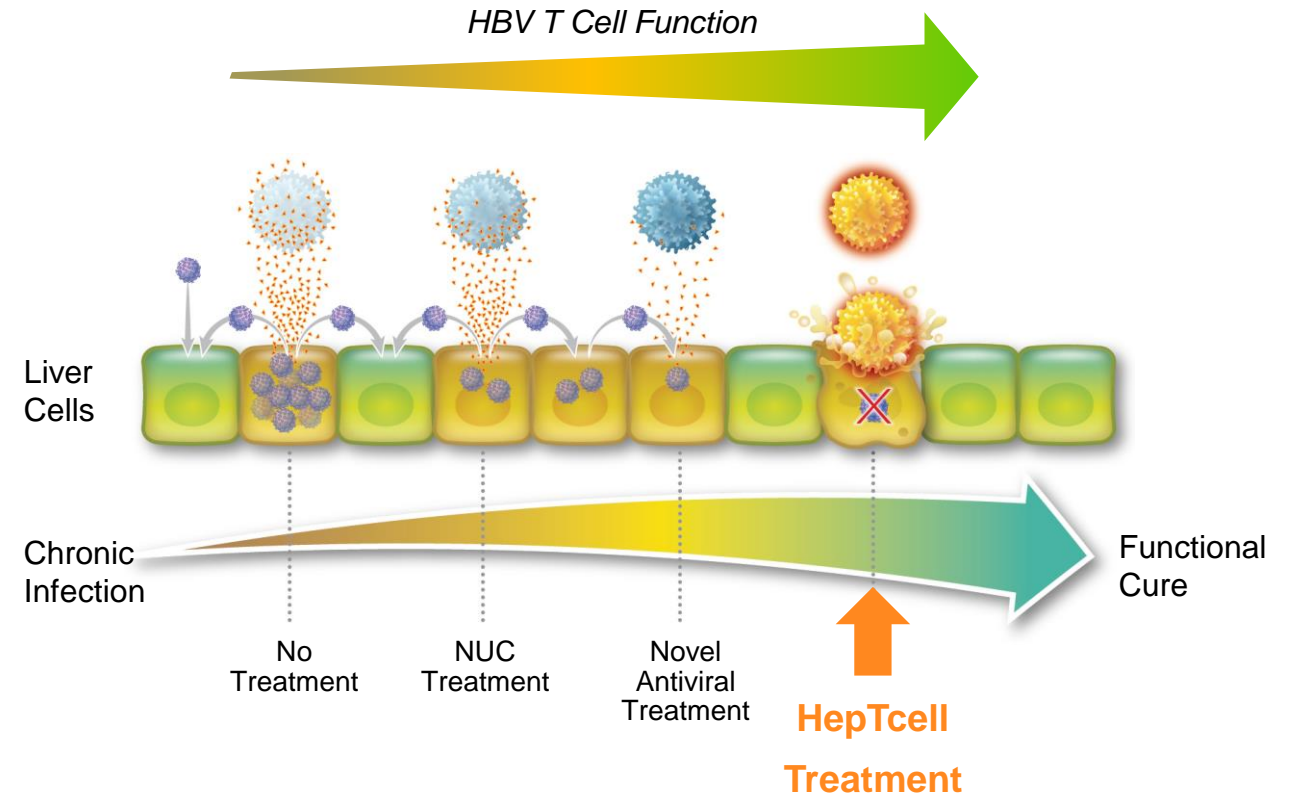
HBV carriers worldwide



Currently Approved HBV Therapeutics Do Not Lead To A Cure

Immune activation will be required for significant impact

- Current antivirals prevent disease progression but rarely clear infection
- Novel direct-acting antivirals alone unlikely to provide functional cure
- Breaking T cell immune tolerance is key to functional cure
- HepTcell is designed to “wake up” dormant T-cells to eliminate infection



HepTcell: Phase 1 Safety And Immunogenicity Study

Activation of immune-tolerized T cells

Population

60 HBeAg⁻ chronic HBV patients

Well controlled on licensed antivirals (entecavir or tenofovir)

Design

3 injections 28 days apart

4 different regimens vs placebo and adjuvant alone

Results

All regimens well tolerated

No liver flares or autoimmune events

Increased T cell response to HBV peptides in adjuvanted regimens

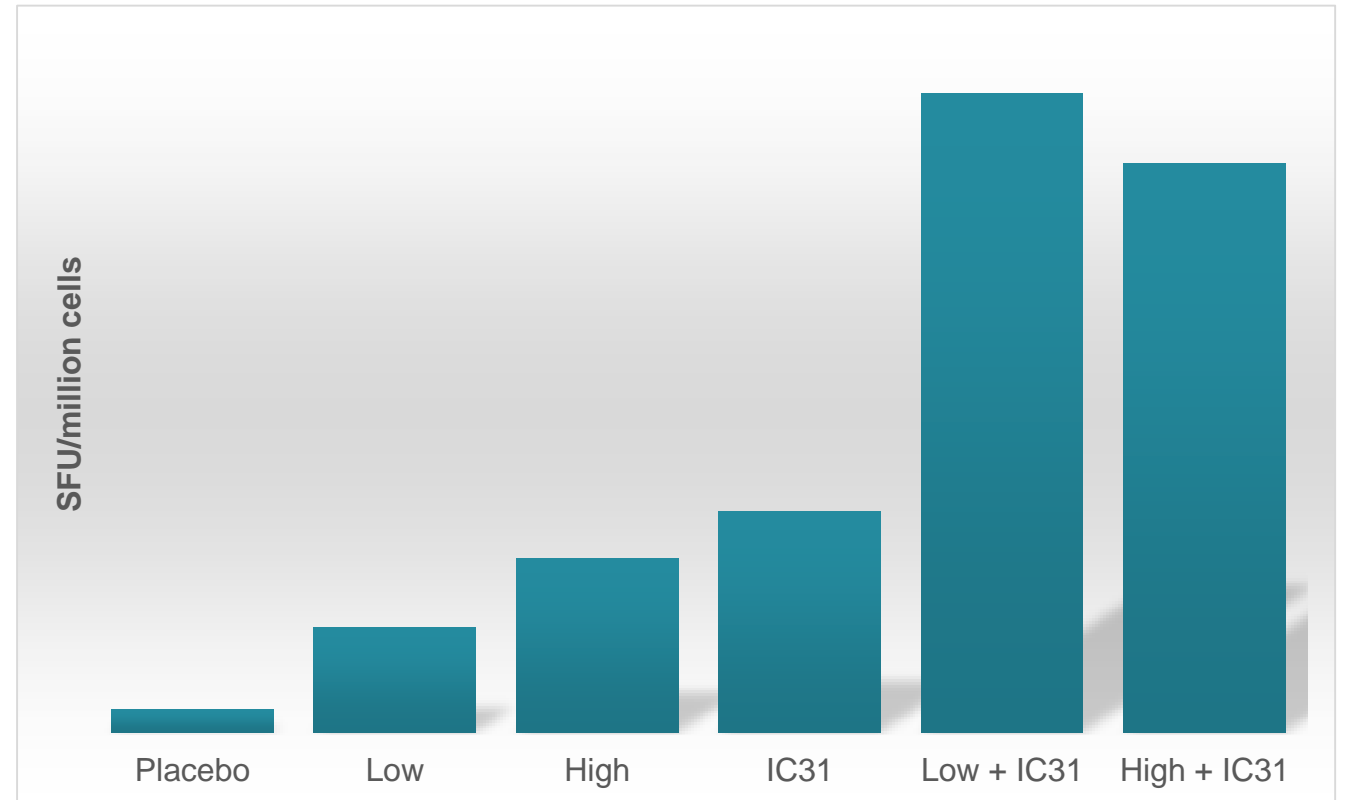
HepTcell: Anti-HBV T-cell Response After 3 Injections

Clear activation of HBV-specific T cells

- HepTcell breaks immune tolerance in chronic hepatitis B patients
- T cell responses strongest when combined with IC31 adjuvant
- Activated T cells expected to recognize all HBV genotypes

IFN γ ELISpot

Median Change from Baseline to Day 85



HepTcell

Specific Immunotherapy For Chronic HBV

Differentiated

- Mechanism of action is complimentary to currently approved antivirals and other products in development
- Restores immune control of infection instead of targeting viral pathway
- Excellent safety profile, especially in comparison to other non-specific immunomodulators

Development Plan

- Exploit immune activation of HepTcell in combination with other novel HBV therapeutics
- File IND in 2020 following successful pre-IND meeting held with FDA in June 2019
- Prepare for Phase 2 program in expanded chronic HBV patient population
- Seek commercial partner with complementary therapeutic product

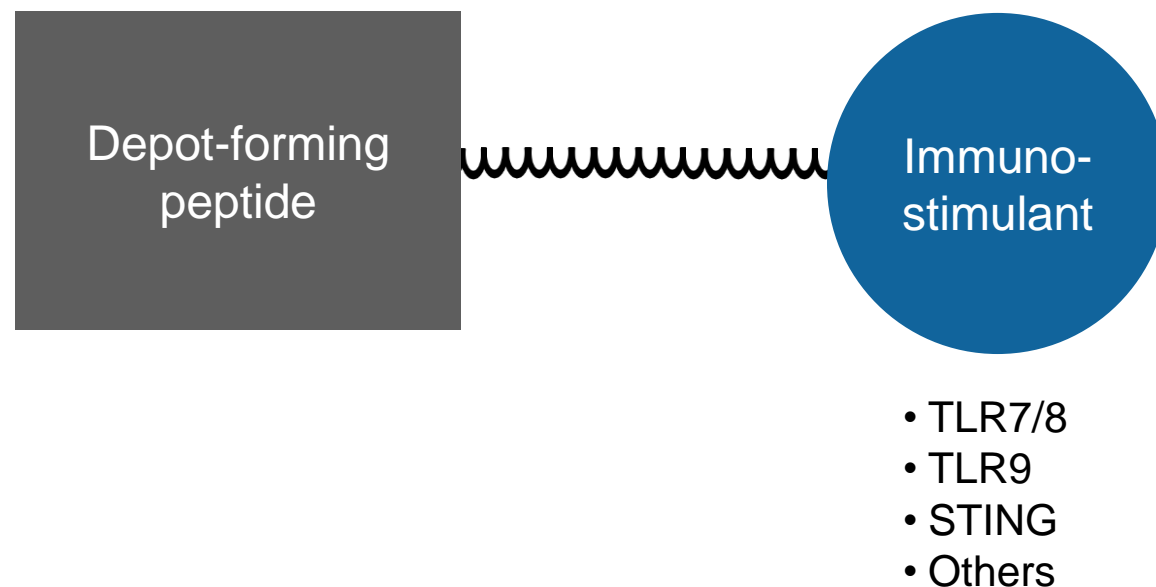


IMMUNO-ONCOLOGY

ALT 702: Anchored Immunostimulant Without Systemic Toxicity

Platform technology to improve safety and efficacy of immunostimulants

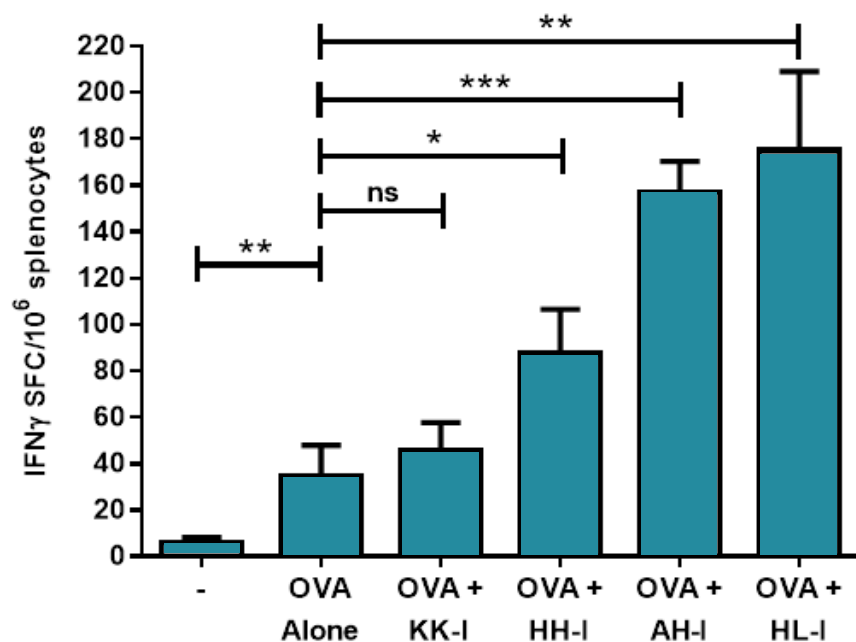
- Reverses tumor immunosuppression to elicit an anti-tumor immune response
- TLR7 and TLR7/8 immunostimulants has been limited by toxicity
- Synthetic peptide technology creates depot following administration
- Depot eliminates systemic effects while enhancing local immune stimulation



ALT 702: Anchored Immunostimulant Without Systemic Toxicity

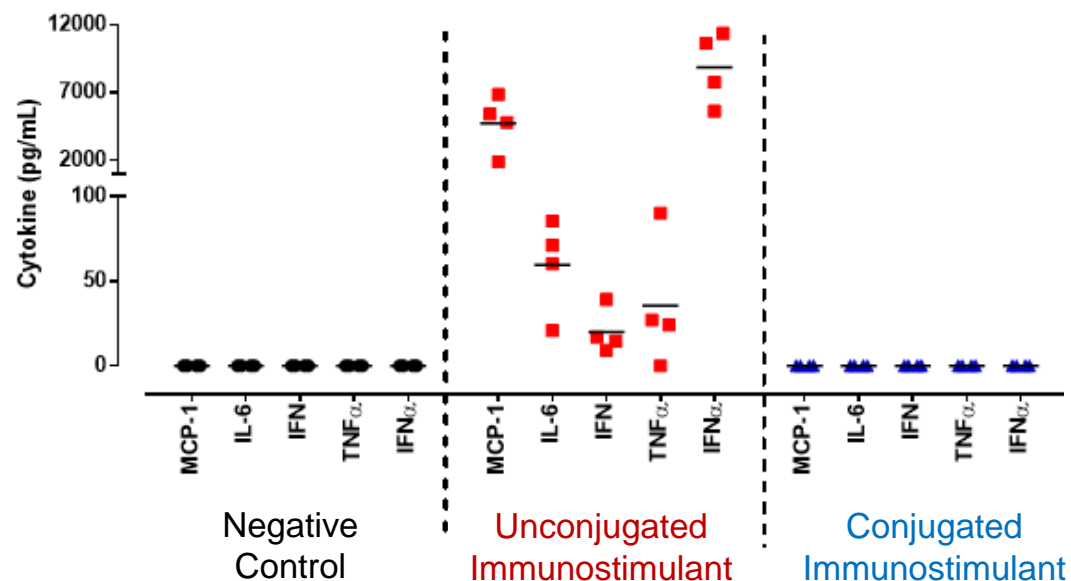
Uncoupling immune-mediated efficacy from severe toxicity

Strong Immune Stimulation



450% increase in Activated T cells

Increased Safety



No systemic inflammatory cytokines

ADVANTAGES OF ALT-702

- Potent TLR7/8 agonist for cancer immunotherapy
- Anchored approach prolongs immune stimulation while avoiding systemic toxicity
- Platform technology can be applied to other immunostimulants or therapeutics
- Fully synthetic product - Low COGs
- IND expected in 2021





INTRANASAL VACCINES

NasoShield: Differentiated Anthrax Vaccine

Significant opportunity to improve protection in a bioterrorism event

Competition

- BioThrax® - Only approved vaccine
 - 3 dose regimen
 - Requires an adjuvant
 - Subcutaneous injections
- NuThrax® (AV7909) – Phase 3
 - 2 dose regimen
 - Requires 2 adjuvants
 - Intramuscular injections

NasoShield

- Only single-dose vaccine currently in development
- Intranasal spray
- Faster protection
- Superior logistics
 - No cold chain distribution
 - Self-administered/no injection required

NasoShield: Funded Through a Development Contract with BARDA

Phase 1b to be initiated in 2019

- Received \$3.7M BARDA funding to initiate Phase 1b
- \$133.7M total contract value through Phase 2
- Stockpiling of vaccine may occur prior to licensure¹
 - Nuthrax® initial stockpiling valued at \$261M with a \$1.5 billion total potential contract value



NasoVAX: Innovative Approach Toward Intranasal Influenza Vaccine

Significant opportunity to improve vaccinations against a leading cause of death

- CDC estimates 1M hospitalizations and 79K deaths during 2017- 2018 flu season
- Since 2003, vaccine effectiveness ranges from 10% to 60%
- Most flu vaccines require a 9 month lead time to manufacture while NasoVAX is intended for a 3 month lead time

POLITICO

HEALTH CARE

Exclusive: Trump to order drive for improved flu vaccine

PBS NEWS HOUR

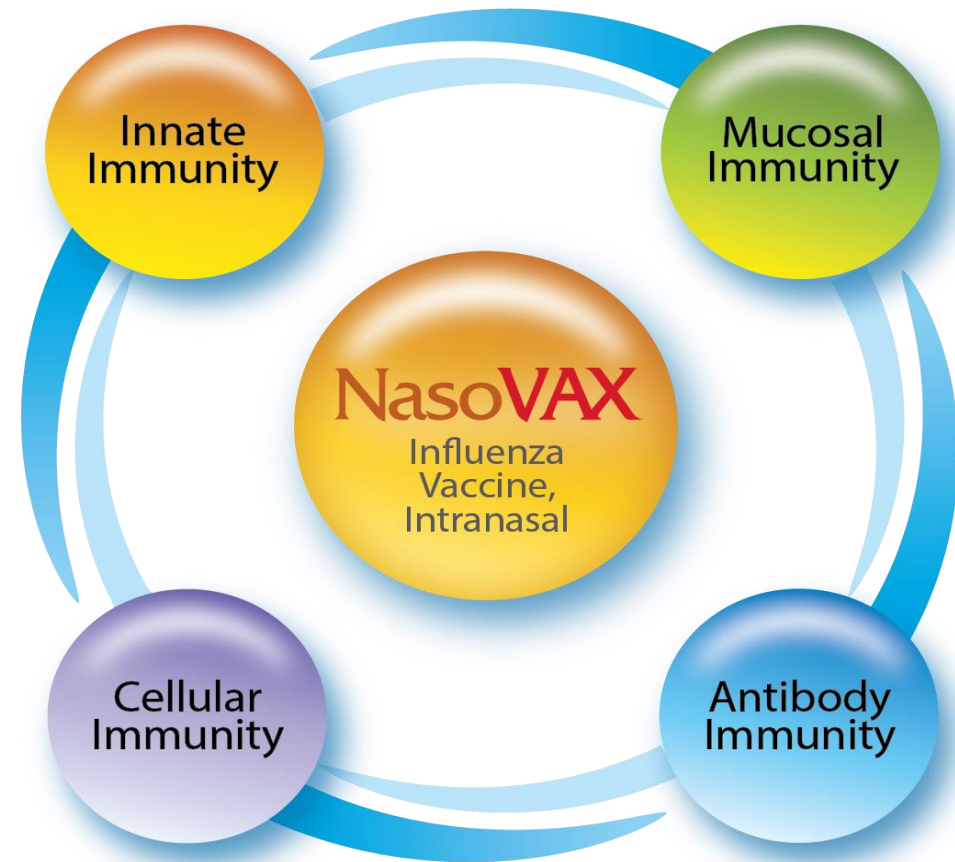
Flu shot only 36 percent effective, making bad year worse

NasoVAX: Phase 2 Data Validates Multiple Levels of Differentiation

Potential for a more effective influenza vaccine through better and longer lasting immunity

Phase 2 Study Highlights

- HAI and microneutralization antibody similar to licensed Fluzone vaccine
- Durability of immune response greater than 12 months vs. 6 months for current vaccines
- Robust mucosal and cellular immunity induced unlike Fluzone
- Excellent safety profile, tolerability not different from placebo



Strong Intellectual Property Portfolio

Significant patent term remaining in all families

ALT-801

▶ 2 Granted US patents | Patent applications other territories | Expiry \geq 2035

HepTcell

▶ Granted US patent | Patent applications other territories | Expiry \geq 2033

ALT-702

▶ Granted US patent | Patent applications other territories | Expiry \geq 2034

NasoShield

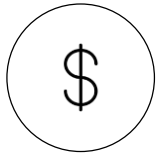
▶ Granted US, EP, JP patent | Expiry \geq 2032

NasoVAX

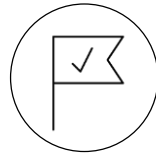
▶ Granted US, EP, JP patent | Patent applications other territories | Expiry \geq 2032

FINANCIAL HIGHLIGHTS

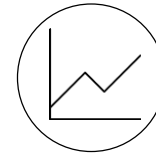
Altimune is well positioned to advance multiple product candidates



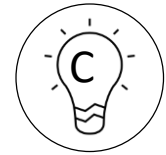
**\$42 MILLION
CASH ON HAND**
at June 30, 2019



**\$10 MILLION
ANNUAL REVENUE**
in each of last 2 years
from U.S. government
development contracts



**15.3 MILLION SHARES
OUTSTANDING**
and 10.1 million warrants
for 25.4 million shares on a
fully diluted basis



R&D FOCUSED
27 employees with 19
primarily engaged in
research and development

Strong Executive Management Team

Vipin K. Garg, PhD

President and Chief Executive Office



Will Brown, CPA, MBA

Chief Financial Officer



Scott Harris, MD

Chief Medical Officer



Scot Roberts, PhD

Chief Scientific Officer

Bertrand Georges, PhD

Chief Technology Officer



José Ochoa, JD

Chief Business Officer





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