



Corporate Presentation

Ascletis Pharma Inc.

November 2021



Ascletis Overview

China & US based **Global Platform Biotech**, covering the entire value chain from discovery and development to manufacturing and commercialization

Through **Metabolic and Immune Modulation**, focus on **Viral Diseases, NASH** and **Oncology** where there are significantly unmet medical needs

Potential **First-in-class/Best-in-class** innovative pipelines, global development with high efficiency

Significant partnerships:

Roche janssen









Marketed Products in China

An all-oral regimen comprised of GANOVO[®] and ASCLEVIR[®] for HCV; AND Pegasys[®] for HBV



GANOVO[®] (Danoprevir) Indication: HCV



ASCLEVIR® (Ravidasvir) Indication: HCV



Pegasys[®] (Peginterferon alfa-2a) Indication: HBV

Notes: 1. Pegasys[®] is licensed from Shanghai Roche Pharmaceuticals Ltd. for the exclusive rights in the Mainland China. 2. GANOVO[®] is licensed from Roche (F. Hoffmann-La Roche AG) for the exclusive rights in the Greater China. 3. ASCLEVIR[®] is licensed from Presidio Pharmaceuticals, Inc. for the exclusive rights in the Greater China.



Pipeline Overview

4 targets, including 3 metabolic checkpoint targets and 1 immune checkpoint target

	Target	Candidate	Commercial rights	Pre-IND	IND	Phase I	Phase IIa	Phase IIb	Phase III / Pivotal		
				NASH							
				rGBM							
		ASC40 (Oral small molecule)		Drug resistan	t Breast Cancer						
	FASN		Greater China	KRAS mutant	t NSCLC						
				Acne	_						
		ASC60 (Oral small molecule)	N	Solid Tumor	1						
Metabolic		Access (oral small molecule)		Solid Tumor 2	2						
Checkpoint	THRβ	ASC41 (Oral small molecule)	Global	NASH							
	FXR		Global	NASH							
		ASC42 (Oral small molecule)		HBV function	al cure						
				PBC							
	THRβ+FXR	ASC43F (Oral FDC)	Global	NASH							
	FASN+FXR	ASC44F (Oral FDC)	Global	NASH							
	$FASN+THR\beta$	ASC45F (Oral FDC)	Global	NASH							
		ASC22 (S.C mAb)	Greater China	HBV function	al cure						
Immune	PD-L1	A3022 (3.0 IIIAD)	Greater Chilla	HIV functiona	l cure						
Checkpoint		ASC61 (Oral small molecule)	Global	Solid Tumor							
		ASC63 (Oral small molecule)	Giubai	Solid Tumor							



Exploratory Indications



Pipeline Overview

18 programs, 3 disease areas, actively expanding new indications with unmet medical needs

Viral Diseases

- Programs with novel targets for HBV functional cure, including 1 global leading immunotherapy candidate in phase IIb
- Global leading immunotherapy candidate for HIV functional cure

NASH/PBC

- Global leading NASH pipeline of 3 single agents and 3 fixed-dose combinations
- 1 NASH program in 52 weeks biopsy phase IIb
- 1 PBC program complete phase I, applying for phase II

Oncology

- Unique pipeline of cancer lipid metabolism and oral immune checkpoint inhibitors
- 1 candidate for recurrent glioblastoma (rGBM) in phase III

Exploratory Indications

 1 candidate for acne in phase II



Viral Diseases

HBV (Functional Cure)

Target	Candidate	Commercial rights	Pre-IND	IND	Phase I	Phase Ila	Phase IIb	Phase III	Competitiveness
PD-L1	ASC22	Greater China ¹							 First-in-class candidate for HBV functional cure through blocking PD-1/PD-L1 pathway Improved compliance with subcutaneous injection
FXR	ASC42	Global					•		 First-in-class MOA Inhibit transcription from DNA to RNA Reduce stability of HBV cccDNA

HIV Immune Restoration/Functional Cure

Target	Candidate	Commercial rights	Pre-IND	IND	Phase I	Phase Ila	Phase IIb	Phase III	Competitiveness
PD-L1	ASC22	Greater China ¹							 Subcutaneous injection, easier administration

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NASH/PBC Pipeline

Target	Candidate	Commercial rights	Pre- IND	IND	Phase I	Phase Ila	Phase IIb	Phase III	Competitiveness
FASN	ASC40 (NASH)	Greater China ¹		U.	S. FDA F	ast Trac	k		 First-in-class, inhibit de novo lipogenesis US/CN phase II showed significant reduction of liver fat content, and minimal side effects compare to other NASH candidates
THRβ	ASC41 (NASH)	Global							 Third-in-class globally, First-in-class in China Triglyceride reduction >30% with 1mg per day dosing No DDI with drugs commonly used by NASH patients
FXR	ASC42 (NASH)	Global	U.S.	FDA Fas	at Track				 Potential Best-in-class, no pruritus or LDC-c elevation Higher elevation of FGF-19, an FXR target engagement biomarker
$THR\beta + FXR$	ASC43F FDC (NASH)	Global							• First-in-class, dual targets to THR β and FXR
FASN + FXR	ASC44F FDC (NASH)	Global							 First-in-class, dual targets to FASN and FXR
FASN + THRβ	ASC45F FDC (NASH)	Global							• First-in-class, dual targets to THR β and FASN
FXR	ASC42 (PBC)	Global							No pruritusApplying for phase II

歌礼

ascletis

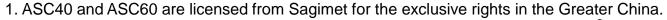
GANNEX

A Member of the Ascletis Group

1. ASC40 is licensed from Sagimet Biosciences Inc. for the exclusive rights in the Greater China.⁷

Oral Cancer Metabolic Checkpoint and Immune Checkpoint Inhibitors

Target	Candidate	Indication	Commercial rights	Pre-IND	IND	Phase I	POC	Pivotal trial	Competitiveness
FASN + VEGF	ASC40 (Oral) +Bevacizumab	Recurrent glioblastoma	Greater China ¹		Phase	e III in Chir	na approv	ed	 FIC, inhibit energy supply and disturb membrane phospholipid composition of tumor cells by block de novo lipogenesis Significantly improve PFS6 in Phase II
FASN	ASC40 (Oral)	Drug resistant Breast Cancer	Greater China ¹						FIC MOAPreliminary efficacy in phase I study
FASN	ASC40 (Oral)	KRAS mutant NSCLC	Greater China ¹						FIC MOAPreliminary efficacy in phase I study
FASN	ASC60 (Oral)	Solid tumor 1	Greater China ¹						 FIC Higher <i>in vitro</i> activities compare to ASC40
FASN	ASC60 (Oral)	Solid tumor 2	Greater China ¹						 FIC Higher <i>in vitro</i> activities compare to ASC40
PD-L1	ASC61 (Oral small molecule)	Multiple tumors	Global						 Oral small molecule, easier administration Comparable efficacy with antibody drug in animal model
PD-L1	ASC63 (Oral small molecule)	Multiple tumors	Global						 Oral small molecule, easier administration Stronger effects on PD-L1 dimerization and internalization compare to competitor compound



Exploratory Indications

Acne

Target	Candidate	Commercial rights	Pre-IND	IND	Phase I	Phase II	Phase III	Competitiveness
	FA ON 400 40	One stan Okin sl						FICSebum production inhibited dose
FASN	ASC40	Greater China ¹						dependently in phase I study

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Anticipated Key Milestone(s) in next 12 months*

Viral Diseases

- ASC22/HBV—**Top-line** results from China phase IIb study
- ASC42/HBV--**Top-line** results from China phase II study
- ASC22/HIV—Initiation of
 China phase II study

NASH/PBC

- ASC40/NASH--Interim results from 52w biopsy US phase IIb study
- ASC41/NASH--First patient dosed in 52w biopsy adaptive US phase IIa/IIb study
- ASC42/NASH--Submission for approval of 52w biopsy adaptive US phase IIa/IIb study
- ASC43F/NASH--Top-line results
- from **US human PK** study
- ASC42/PBC--Top-line results from
 China phase II study

Oncology

- ASC40/rGBM—Completion of
 80% patient enrollment of
 Phase III trial
- ASC40/Solid tumors—
 Initiation of phase II in a solid tumor
- ASC60/Solid tumors--Initiation
 of Phase I in solid tumors
- ASC61/multiple tumors—US and CN IND approvals for solid tumors

Exploratory Indications

 ASC40/Acne--Top-line results from China phase II study





Significant Market Potential



HBV (functional cure)

- 70 million hepatitis B virus carriers in China, and 1 million new cases reported every year recently;
- No functional cure could be achieved with current standard therapy (NAs).



NASH

- US: 80 million NAFLD, 18.6 million NASH patients;
- CN: 193 million NAFLD with NASH accounting for 20%-25% of NAFLD, which are 38-48 million NASH patients;
- Global: No approved drugs by FDA for NASH.



Primary biliary cholangitis

- Epidemiology study 2010: the prevalence of PBC in China was 49.2/100,000 persons and as high as 155.8/100,000 in women older than 40 years old, indicating a total of 656,000 PBC patients in China including 440,000 in females over age 40;
- UDCA is the only drug been approved in China with the effect of delaying disease progression; approximately 40% PBC patients have an inadequate response to UDCA or are unable to tolerate UDCA.



Significant Market Potential



Recurrent Glioblastoma

- CN: GBM represents 46.1% of gliomas and has an incidence rate of 2.85-4.56/100,000 population per year, suggesting approximately 40,000 to 64,000 new cases of GBM per year ;
- US: GBM represents 56.6% of gliomas and has an incidence rate of approximately 3.21/100,000 population per year;
- More than 90% glioblastoma patients will relapse after surgery, radiation and chemotherapies;
- Bevacizumab is the only drug been approved for rGBM in China (PFS6 16%, to be improved).



Acne

- Eighth most prevalent disease in the world and affects more than 640 million people globally;
- The onset of acne often coincides with pubertal hormonal changes, and affects approximately 85% of adolescents and young adults aged 12 to 25 years. However, acne can also persist into or develop during adulthood;
- The global acne medication market size was US\$11.86 billion in 2019, and is projected to reach US\$13.35 billion by 2027.



Viral Diseases



HBV Functional cure

HBV functional cure

For at least 6 months after stop treatment:

- Normal liver function
- Negative serum HBV DNA (<20 IU/ml)
- Negative serum HBsAg (<0.05 IU/ml)

70 million

hepatitis B virus carriers in China

1 million

new cases reported every year recently

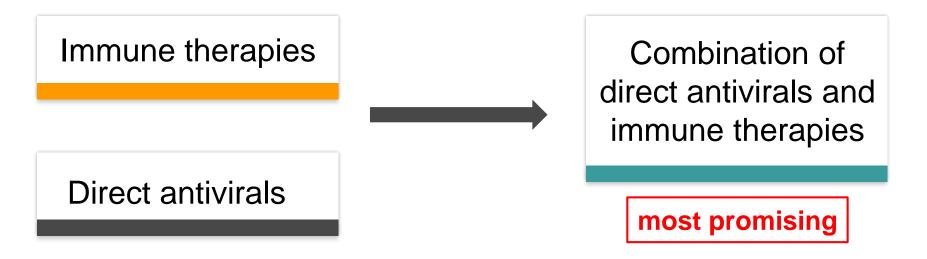
No functional cure could be achieved with current standard therapy (NAs).



HBV: Partial Cure vs Functional cure

Measure	Partial Cure	Functional cure
Serum HBV DNA	Negative	Negative
Serum HBsAg	Positive	Negative

Therapeutic approaches leading functional cure





HBV (Functional Cure)

Target	Candidate	Commercial rights	Pre-IND	IND	Phase I	Phase Ila	Phase IIb	Phase III	Competitiveness
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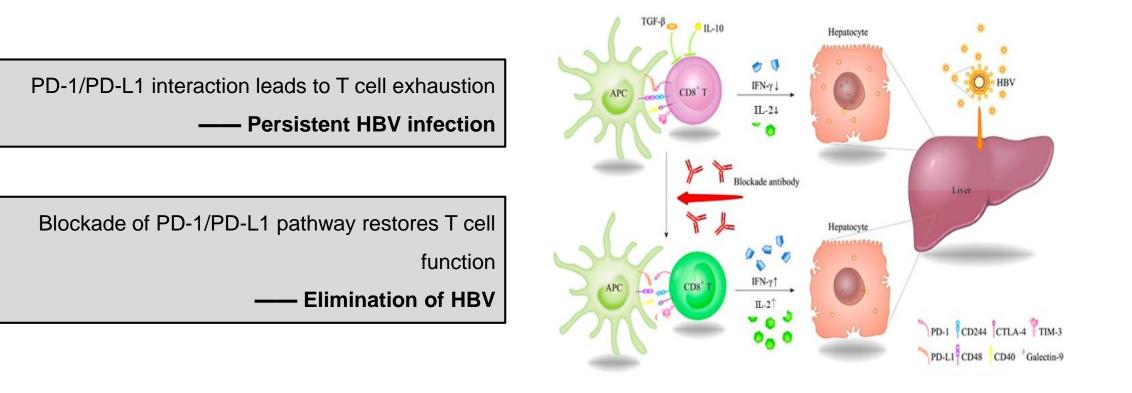
Ascletis: Building HBV Franchise Leading to Functional Cure

- Cornerstones: Marketed Pegasys[®] and subcutaneously injected PD-L1 antibody ASC22
- Pegasys[®] in combination with in-house developed drug candidates against novel targets such as FXR
- PD-L1 antibody ASC22 in combination with in-house developed drug candidates against novel targets such as FXR
- Pegasys[®] or PD-L1 antibody ASC22 Partner with drug candidates of industrial leaders
 - ➢ siRNA
 - Core Inhibitors
 - HBV Entry Inhibitors
 - Therapeutic Vaccine



MOA of PD-L1 Antibody Against Chronic Hepatitis B

■ ASC22 (KN035) can block the PD-1/PD-L1 pathway to restore T Cell immune function and eliminate HBV.





1. Peng G, et al. PD-1 upregulation is associated with HBV-specific T cell dysfunction in chronic hepatitis B patients. Mol Immunol. 2008;45(4):963-70.

2. B Ye, et al. T-cell exhaustion in chronic hepatitis B infection: current knowledge and clinical significance. Cell Death Dis. 2015 Mar 19;6:e1694.

PD-1/PD-L1 Antibodies in Clinical Trials for HBV Functional Cure

Ascletis

- PD-L1 antibody (ASC22 (Envafolimab)), subcutaneous injection
- Phase IIa single dose escalation (0.3, 1.0 and 2.5 mg/kg) completed
- Phase IIb multiple doses (1.0 and 2.5 mg/kg, Q2W for 24 weeks) ongoing

Gilead

> PD-1 antibody Opdivo (Nivolumab), i.v. injection in combination with TLR8+siRNA+TAF, Phase II to start

Vaccitech

> PD-1 antibody Opdivo (Nivolumab), i.v. injection in combination with therapeutic vaccine(s)

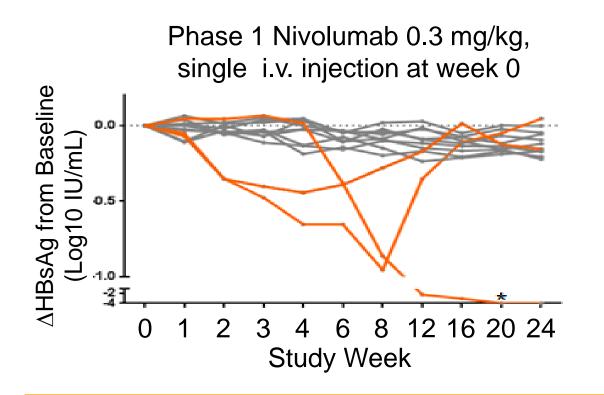
Henlix

- > PD-1 antibody (HLX10), i.v. injection
- Phase II ongoing, up to 3 doses of HLX10 at 1 mg/kg, Q4W



HBV Functional Cure: PD-1 Antibody - Opdivo (Nivolumab)

■ **Nivolumab:** Monoclonal antibody against PD-1 Approved for solid organ tumors and lymphomas



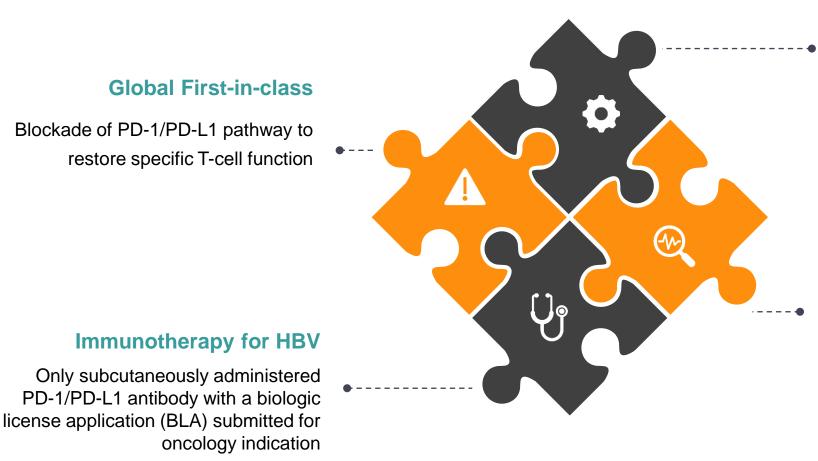
- 1/10 patient Achieved HBsAg loss at week 16 and maintained negative during follow-up
- 1/10 patient experienced 1 log HBsAg decline at week 8 but rebounded afterwards
- 1/10 patient had moderate HBsAg decline

Human Proof of Concept study demonstrated HBsAg loss and its sustainability by single i.v. injection of PD-1 antibody.



Cure for HBV: First-in-class Subcutaneously Injected PD-L1 Ab

ASC22 (Envafolimab) is a single domain PD-L1 antibody. As an immunotherapy, ASC22 has a potential to lead to a significant breakthrough towards a functional cure for chronic Hepatitis B.



Demonstrated good safety profile

- Phase IIa data showed ASC22 is safe and well tolerated in chronic hepatitis B (CHB) patients and Phase IIb clinical trial has been initiated
- In addition to CHB patients, 1000+ cancer patients exposed in multiple clinical trials in US, China and Japan, Including two pivotal trials in China

Differentiated Profile

- Subcutaneous route of administration
- · Good stability at room temperature



HBV Functional Cure: s.c. PD-L1 Ab ASC22 vs i.v. PD-L1 Abs

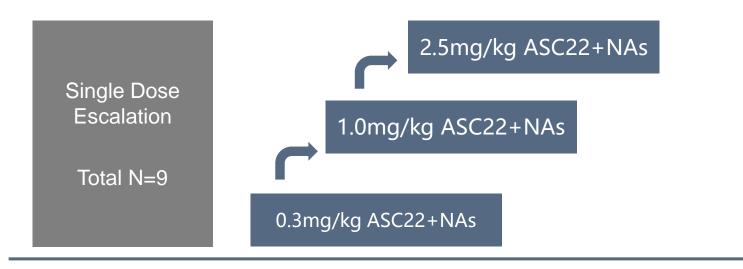
Company	Roche	MSD	AstraZeneca	Ascletis	
Product	Atezolizumab	Avelumab	Durvalumab	ASC22 (Envafolimab)	
Target	Target PD-L1 PD-L1		PD-L1	PD-L1	
Dose	Dose 1200 mg/3 weeks 800mg/2 weeks		10mg/kg/2 weeks	1-2.5mg/kg/2 week	
Administration	dministration I.V I.V		I.V	S.C	
Indication	Late stage or metastasized Urothelial Carcinoma; Unresectable late stage NSCLC	Adult or Adolescent metastasized Merkel Cell Carcinoma; Late stage or metastasized Urothelial Carcinoma	Late stage or metastasized Urothelial Carcinoma; Unresectable late stage NSCLC	Hepatitis B	

- 1. ASC22 (Envafolimab) has lower dose, with advantage in administration route and storage condition.
- 2. ASC22 (Envafolimab) is the first PD-1/PD-L1 antibody with subcutaneous injection entering into late phase clinical trial.
- Phase IIa data showed ASC22 (Envafolimab) is safe and well tolerated in chronic hepatitis B (CHB) patients and Phase IIb 3. clinical trial has been initiated.
- 4. ASC22 (Envafolimab) has been investigated in several studies conducted in China, USA, and Japan involving greater than 1000 subjects in oncology with proven safety. 22



ASC22 Phase IIa Chronic Hepatitis B Study Design for Functional Cure

Efficacy and Safety Evaluation



12 week follow up Patients on NAs

Major inclusion criteria: HBsAg < 10,000 IU/mL, HBV DNA < 20 IU/mL and negative HBeAg



Positive Efficacy Data from ASC22 Phase IIa Single Dose Study

- Trend of dose dependent HBsAg reduction after single dose administration of 0.3, 1.0 or 2.5 mg/kg ASC22 (Envafolimab).
- 8/9 patients treated with ASC22 (Envafolimab) exhibited some decline in HBsAg at the end of 12-week follow-up.
- Among 3 patients receiving 2.5 mg/kg dose, 1 patient achieved a maximum HBsAg reduction of 1.2 log10 IU/mL during the 12-week follow-up.

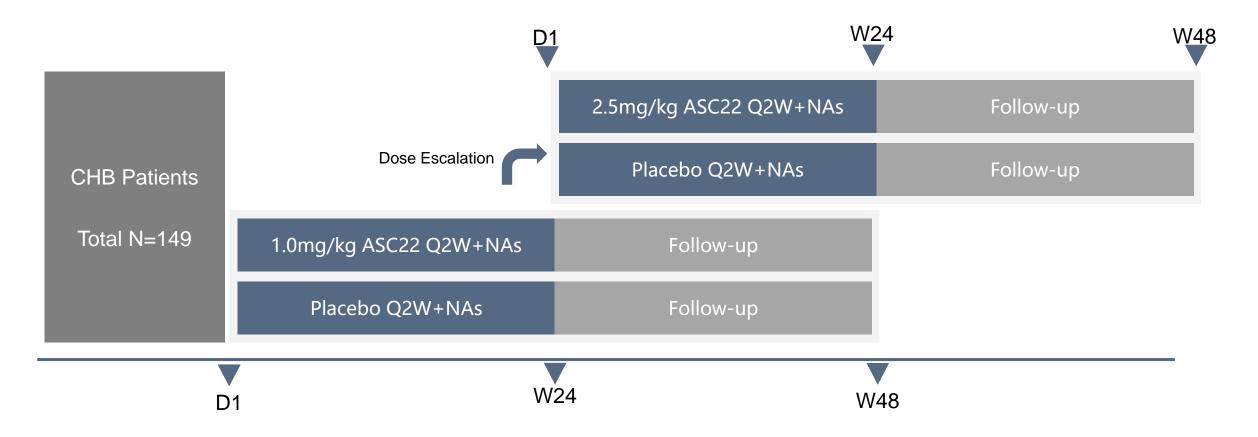


Good Safety Data from ASC22 Phase IIa Single Dose Study

- ASC22 (Envafolimab) is safe and well tolerated at all three dose levels with only grade 1 adverse effects.
- There were no grade 2 or above adverse effects observed during 12-week follow-up.
- There were no SAE and no discontinuations.
- Single dose administrations up to 2.5 mg/kg ASC22(Envafolimab) did not affect alanine aminotransferase (ALT) and aspartate aminotransferase (AST) levels (all below upper limit of norm) during 12-week follow-up.



ASC22 Phase IIb Chronic Hepatitis B Study Design for Functional Cure



Major inclusion criteria:

HBsAg < 10,000 IU/mL, HBV DNA < 20 IU/mL and negative HBeAg



Positive Interim Results of 149 Patient, Phase IIb Chronic Hepatitis B Study in China for PD-L1 Antibody ASC22 Plus NAs

- HBsAg reduction was observed in the 1 mg/kg ASC22 once every two weeks plus nucleos(t)ide analogs group
 - > Greater HBsAg reduction observed in patients with HBsAg \leq 500 IU/mL at baseline
 - No HBsAg reduction was observed for the placebo plus nucleos(t)ide analogs group
- Receptor occupancy after both 1 and 2.5 mg/kg dosing is predicted to be > 90% over one month, suggesting ASC22 has the potential to be given once monthly
- Patients treated with 1 mg/kg ASC22 plus nucleos(t)ide analogs had a comparable adverse event profile to the placebo plus nucleos(t)ide analogs

I am delighted by the safety data so far for 1 mg/kg ASC22 Q2W plus NAs, which was comparable to that of placebo Q2W plus Nas, once-a-month dosing of PD-L1 antibody ASC22 will dramatically improve compliance and convenience of patients with CHB.

——Guiqiang Wang, MD

Principal Investigator of the Phase IIb Study, Vice-President of Chinese Society of Physicians for Infectious Diseases and Director of Centre for Liver Diseases at Peking University First Hospital



Safety Data as of July 20, 2021 from 149 Patient, Phase IIb Chronic Hepatitis B Study in China for PD-L1 Antibody ASC22 Plus NAs

- 1 mg/kg ASC22 Q2W plus NAs
 - > 37% of patients (22/60) completed 24-week treatment per protocol
 - ➢ 35% of patients (21/60) completed 14 to 22-week treatment
 - > 28% of patients (17/60) completed 1 to 12-week treatment
- 2.5 mg/kg ASC22 Q2W plus NAs
 - > 7% of patients (4/59) completed 14 to 24-week treatment
 - > 93% of patients (55/59) completed 1 to 12-week treatment
- 1 mg/kg ASC22 Q2W plus NAs had a rate of any adverse events of 75%, comparable to that (73%) of the placebo Q2W plus NAs group
 - The rate of grade 3 and 4 adverse events is 7% for both 1 mg/kg ASC22 Q2W plus NAs and placebo Q2W plus NAs
- 2.5mg/kg ASC22 plus NA was safe and well tolerated

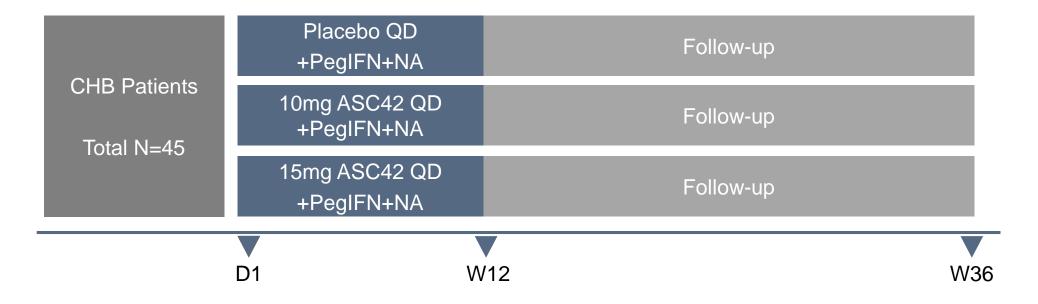


FXR agonist ASC42 has a unique mechanism of action against HBV

- ASC42 inhibits the transcription of HBV cccDNA into HBV RNA, which in turn inhibits the translation of HBV RNA into HBsAg
- ASC42 may also reduce HBV cccDNA stability.
- Both in vitro primary human hepatocyte (PHH) cells and in vivo AAV/HBV mouse studies demonstrated ASC42 significantly inhibited HBsAg and HBV pregenomic RNA (pgRNA)



ASC42: China Phase II Study Design for CHB Functional Cure





Non-alcoholic Steatohepatitis (NASH)/ Primary Biliary Cholangitis (PBC)



About Gannex

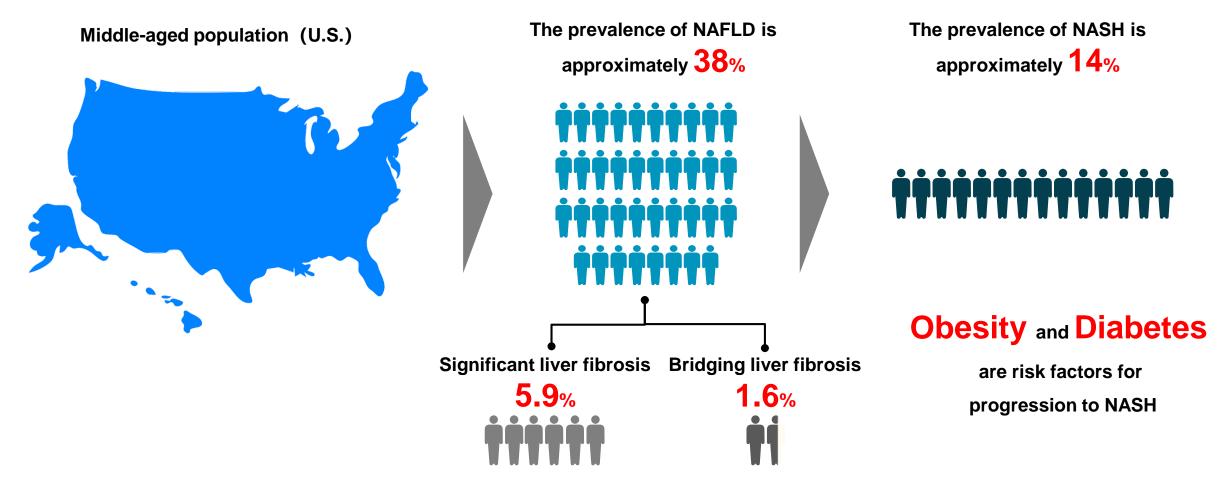


Gannex, a wholly-owned company of Ascletis, is dedicated to the R&D and commercialization of new drugs in the field of NASH. Gannex has three clinical stage drug candidates against three different targets – FASN, THR β and FXR, and three fixed-dose combinations.



NAFLD and NASH Represent a Large and Growing Health Problem

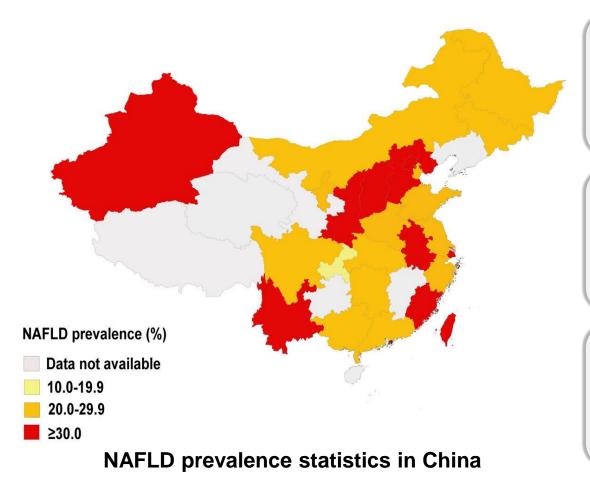
A large prospective study evaluated the prevalence and severity of NAFLD/NASH in an asymptomatic middle-aged population attending outpatient colonoscopy in the United States.





NAFLD and NASH Represent a Large and Growing Health Problem

A large meta-analysis revealed that the prevalence of NAFLD in China was as high as 29.2% from various perspectives.



Highest NAFLD prevalence age group

• Age 50~59 (32.9%; 95% CI, 30.3-35.5)

Prevalence of NAFLD in people with obesity

51.6%, 5 times higher than non-obese population (10.8%)

The prevalence of NAFLD in China is increasing rapidly

- 2008 ~ 2010 (25.4%) vs. 2015 ~ 2018 (32.3%)
- Twice as high as in Western countries, and already exceeds the average prevalence (29.2% vs. 25.2%)





Significant Unmet Medical Needs for the Treatment of PBC

China

- The prevalence of PBC in China was 49.2 cases per 100,000 persons and as high as 155.8 cases per 100,000 in women older than 40 years old, indicating a total of 656,000 PBC patients in China including 440,000 in females over age 40
- Ursodeoxycholic acid (UDCA) is the only drug been approved in China with the effect of delaying disease progression. However, approximately 40% PBC patients have an inadequate response to UDCA or are unable to tolerate UDCA

US/EU

- The prevalence of PBC is 20-40 cases per 100,000 persons
- Obeticholic acid (Ocaliva) has been approved by US FDA for the indication of PBC in combination with UDCA in adults with an inadequate response to UDCA, or as monotherapy in adults unable to tolerate UDCA
- Significant side effects occurred with Ocaliva, including pruritus (63%) and fatigue (22%)



NASH/PBC Pipeline

Target	Candidate	Commercial rights	Pre- IND	IND	Phase I	Phase Ila	Phase IIb	Phase III	Competitiveness
FASN	ASC40 (NASH)	Greater China ¹		U.	S. FDA F	ast Trac	:k		 First-in-class, inhibit de novo lipogenesis US/CN phase II showed significant reduction of liver fat content, and minimal side effects compare to other NASH candidates
THRβ	ASC41 (NASH)	Global							 Third-in-class globally, First-in-class in China Triglyceride reduction >30% with 1mg per day dosing No DDI with drugs commonly used by NASH patients
FXR	ASC42 (NASH)	Global	U.S.	FDA Fas	at Track				 Potential Best-in-class, no pruritus or LDC-c elevation Higher elevation of FGF-19, an FXR target engagement biomarker
$THR\beta + FXR$	ASC43F FDC (NASH)	Global							• First-in-class, dual targets to THR β and FXR
FASN + FXR	ASC44F FDC (NASH)	Global							 First-in-class, dual targets to FASN and FXR
FASN + THRβ	ASC45F FDC (NASH)	Global							• First-in-class, dual targets to THR β and FASN
FXR	ASC42 (PBC)	Global							No pruritusApplying for phase II



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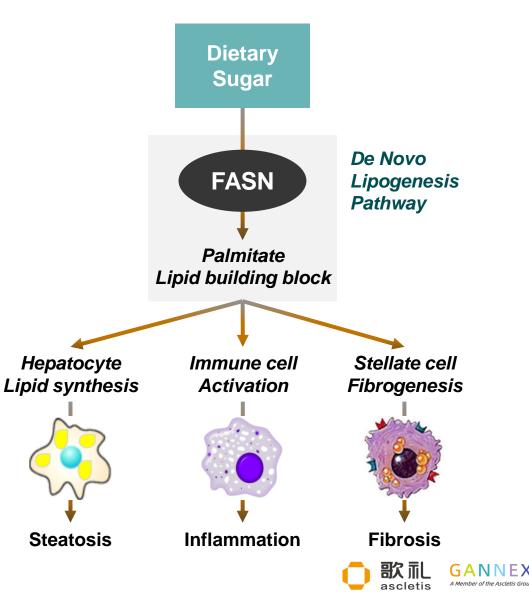
ASC40: First-in-Class Oral Fatty Acid Synthase (FASN) Inhibitor

FASN is an important rate-limiting step in

intrahepatic fatty acid synthesis as well as

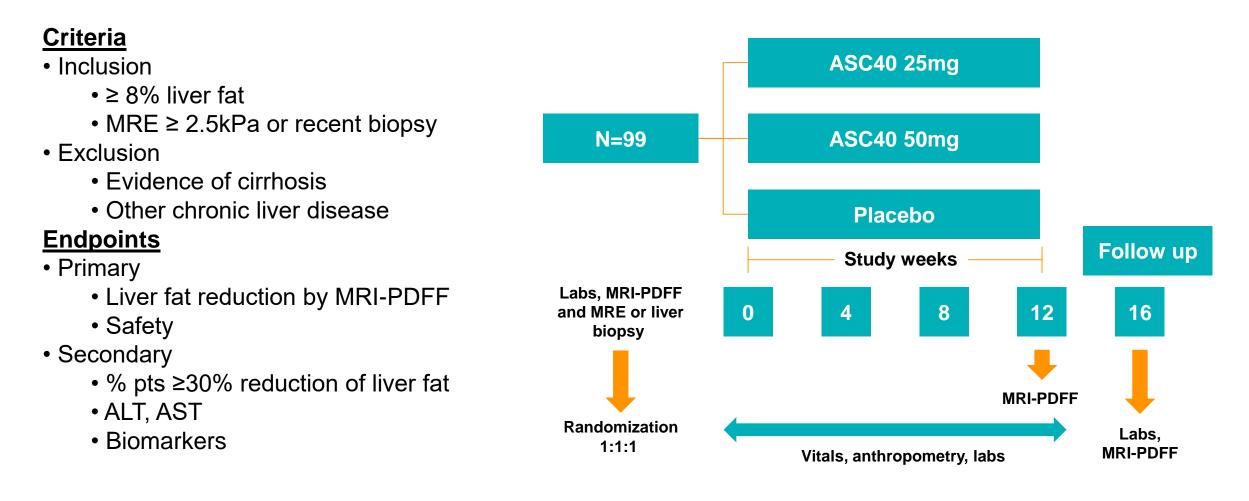
De novo lipogenesis (DNL)

- Reduces steatosis by blocking DNL
- Reduces inflammation by decreasing cytokine secretion and Th17 differentiation
- Blunts fibrosis by reducing procollagen and profibrotic gene expression



Phase II U.S. Cohort: ASC40 Clinical Trial Design in NASH Patients

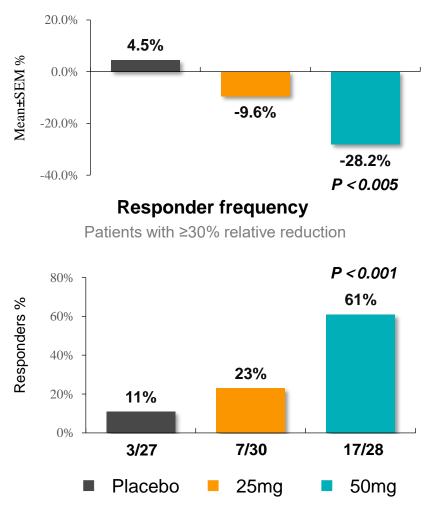
■ Multicenter, randomized, placebo-controlled trial 1:1:1 25mg:50mg:placebo (N=99)



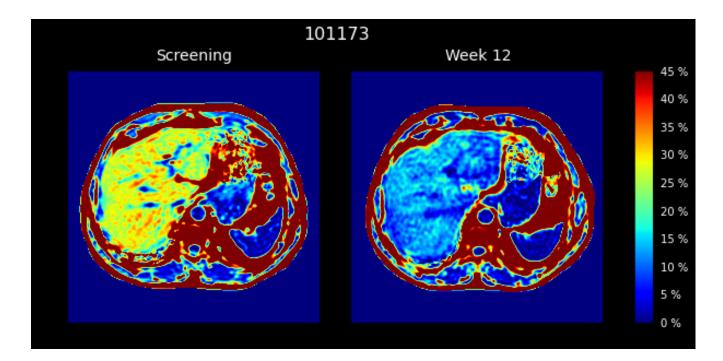
Phase II U.S. Cohort: ASC40 Significantly Reduces Liver Fat Content

Mean relative liver fat reduction

MRI-PDFF at week 12



Significant reduction in liver fat content over 12 weeks of treatment

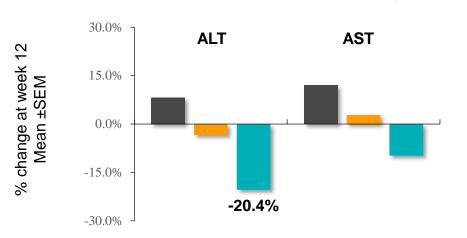


MRI-PDFF responders were defined as those with ≥ 30% MRI-PDFF decline relative to baseline



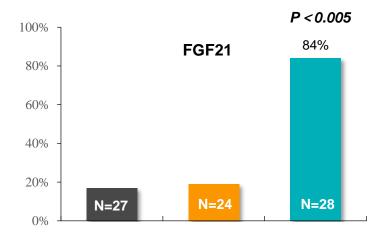
Source: Rohit Loomba et al. 2020, Gastroenterology & Hepatology 72;103AASLD 2020 Oral Presentation

Phase II U.S. Cohort: ASC40 Significantly Improves NASH-related Metrics



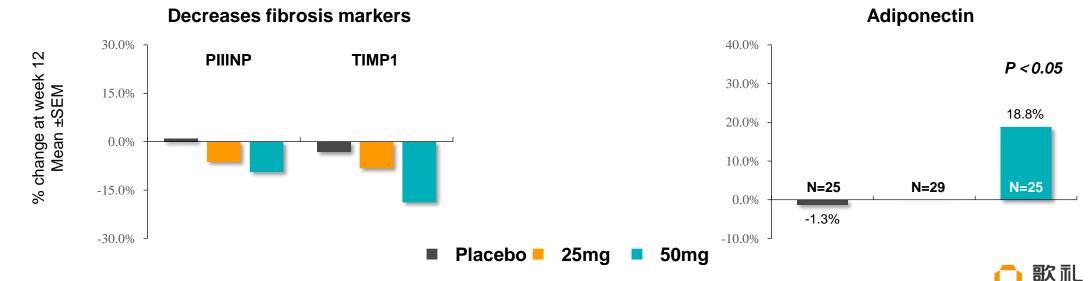
Dose-dependent response in reducing ALT/AST

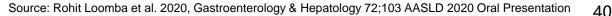
Improves markers of hepatic insulin sensitivity



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Phase II ASC40 Compares Favorably With Other Phase II/III NASH Drugs

Drug Candidate	Company	Target	Dose	Weeks	≥ 30% I reduction r rate	esponder	Placebo adjusted ≥ 30% liver fat reduction responder	Safety	
					Drug	Placebo	rate, %		
ASC40 ¹	Gannex /Sagimet	FASN	50 mg	12	60.7	11.1	49.6	minimal side effects	
Firsocostat ²	Gilead	ACC	20mg	12	47.8	15.4	32.4	TG ↑	
Tropiflexor ³	Novartis	FXR	200µg	12	64	20	44	LDL-C ↑, pruritus	
Resmetirom ⁴	Madrigal	THRβ	80mg	36	74.4	29.4	45	diarrhea, nausea	

Non-head to head research

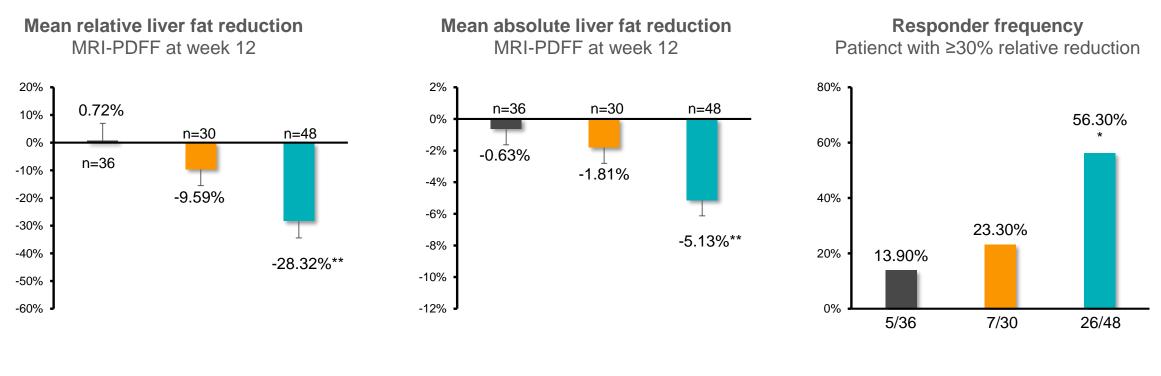
1、Rohit Loomba et al. 2020, Hepatology 72;103. EASL 2020 Oral Presentation

3、 Marcos Pedrosa et al. Contemp Clin Trials. 2020 Jan;88:105889.

2、 Eric J Lawitz et al. Clin Gastroenterol Hepatol. 2018 Dec;16(12):1983-1991
4、 Stephen A Harrison et al. Lancet. 2019 Nov 30;394(10213):2012-2024

ascletis GANNEX

Phase II Combined U.S. & China Cohorts: ASC40 Reduces Liver Fat

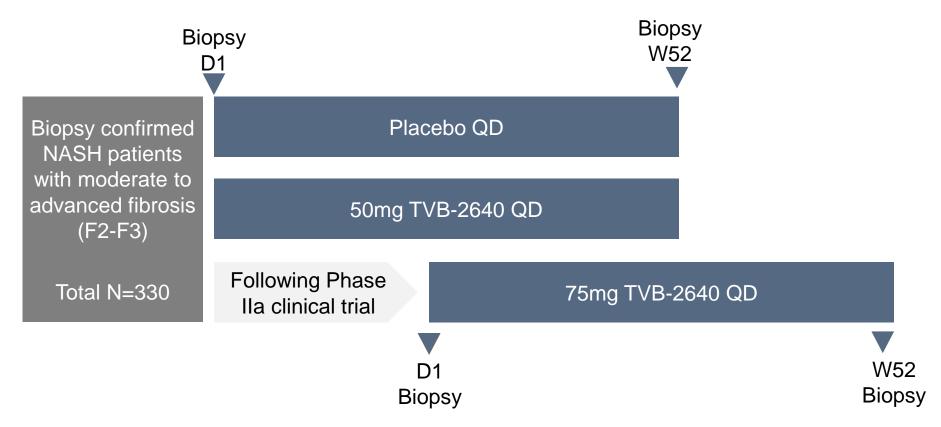




Source: Gannex data **p<0.001 Mean \pm SEM LSM difference versus placebo for liver fat.Common risk difference for responder frequence *p=0.0002



ASC40 (TVB2640): US Phase IIb Study Design for NASH



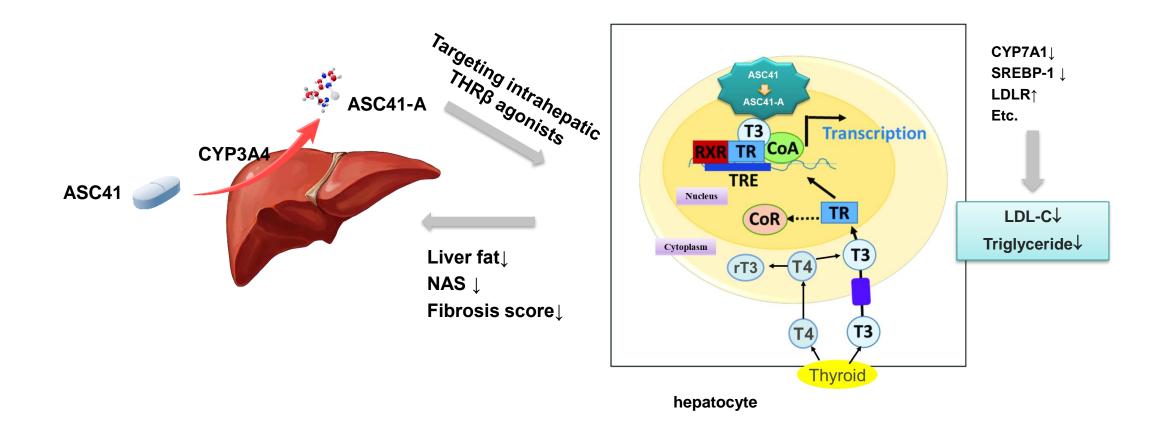
Primary efficacy endpoints:

- ≥ 2-point improvement in NAS (Nonalcoholic fatty liver disease (NAFLD) Activity Score) that results from reduction of necro-inflammation (inflammation or ballooning), or
- 2. improvement in fibrosis.



ASC41: A Liver Targeting Thyroid Hormone Receptor Beta (THRβ) Agonist

ASC41 is a liver targeted small molecule which is converted to its active metabolite ASC41-A - a potent and selective THRβ agonist





ASC41: Third-in-class THRβ Agonist in USA First-in-class THRβ Agonist in China

- In two NASH animal models, at 1/10th dose of MGL-3196, ASC41 demonstrated the same improvement in liver steatosis, inflammation and fibrosis.
- Commercially ready oral tablet formulation developed with in-house proprietary technology
- 2 Phase I studies completed
 - Single doses (1, 2, 5, 10, 20 mg) and 14 day multiple doses (1, 2, 5 mg) in 65 subjects with elevated LDL-C > 110 mg/dL
 - Food effect in 12 healthy subjects
- 1 Phase Ib study completed
 - > 28 day, 10 mg in 20 overweight and obese subjects with elevated LDL-C > 110 mg/dL
- US Phase I showed that there was no significant drug-drug interactions between ASC41/ASC41-A and the most frequently used drugs of NASH patients such as antidepressants and statins

Based on above studies, doses have been selected for Phase II trials in patients with NASH

Source: 1. PO1908. Significant Improvement of NAFLD Activity Scores and Liver Fibrosis by ASC41, a Selective THRβ Agonist, in HIgh Fat Diet Induced NASH SD Rats. Journal of Hepatology 2021 vol. 75(2) | S294–S803 2. PO1851. Significant lipid lowering by ASC41 ral tablet, a liver targeted THRβ agonist, in a phase I randomized, double-blind, placebo controlled single- and multiple-ascending dose study. Journal of Hepatology 2021 vol. 75(2) | S294–S803

THRβ Differentiations: Gannex vs Viking and Madrigal

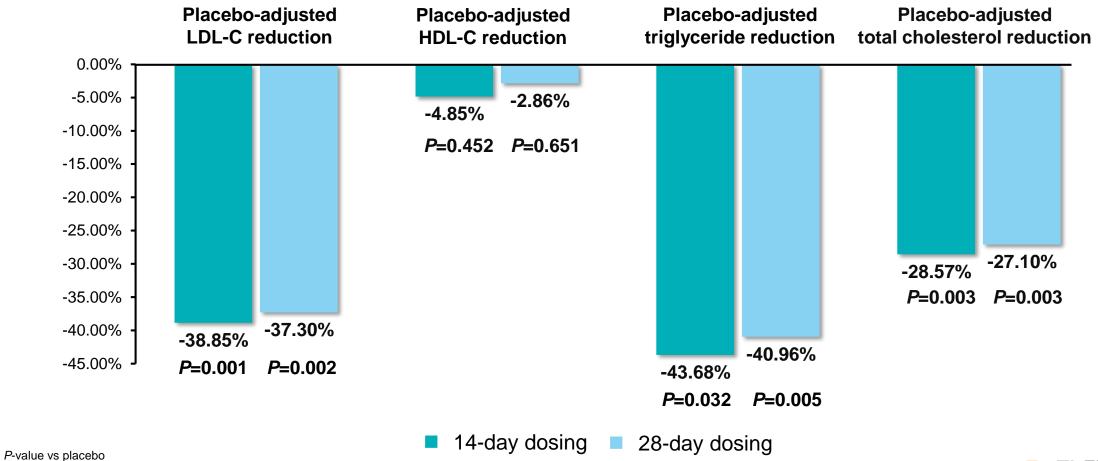
	Gannex ASC41 ¹	Viking VK2809 ²	Madrigal MGL3196 ³	Р		ebo adju om base				
Oral	Tablet, room temp storage,	Capsule,	Tablet, room temp storage,	days dosing	20 10	ASC41	9.7%	VK2809	16.7%	MGL3196
formulation	commercially ready	refrigerated	commercially ready		0 -	1mg ¹	VK2809	5mg⁴	MGL3196	50mg⁵
Dosing frequency	Once a day	Once every two days	Once a day	after Me	-10 -		1mg⁴		5mg⁵	
DDI	-	+	-	% change	-20 - -30 -					20.6%
Human dose needed for					-40 -	-39.43%		-34.8%		-30.6%
> 30% TG reduction	1 mg	2.5 mg	50 mg		-50	-33.4370	,			

1.EASL 2021 Abstract No. PO-1851 2.EASL2020 Abstract No. AS073. 3.Stephen A Harrison et al. Resmetirom (MGL-3196) for the treatment of non-alcoholic steatohepatitis: a multicentre, randomised, double-blind, placebo-controlled, phase 2 trial. www.thelancet.com Published online November 11, 2019 https://doi.org/10.1016/S0140-6736(19)32517-6 4 VK2809 data presented at the 2016 Meeting of the American College of Cardiology 5 Taub et al. Lipid lowering in healthy volunteers treated with multiple doses of MGL-3196, a liver-targeted thyroid hormone receptor-b agonist. Atherosclerosis 230 (2013) 373e380 46

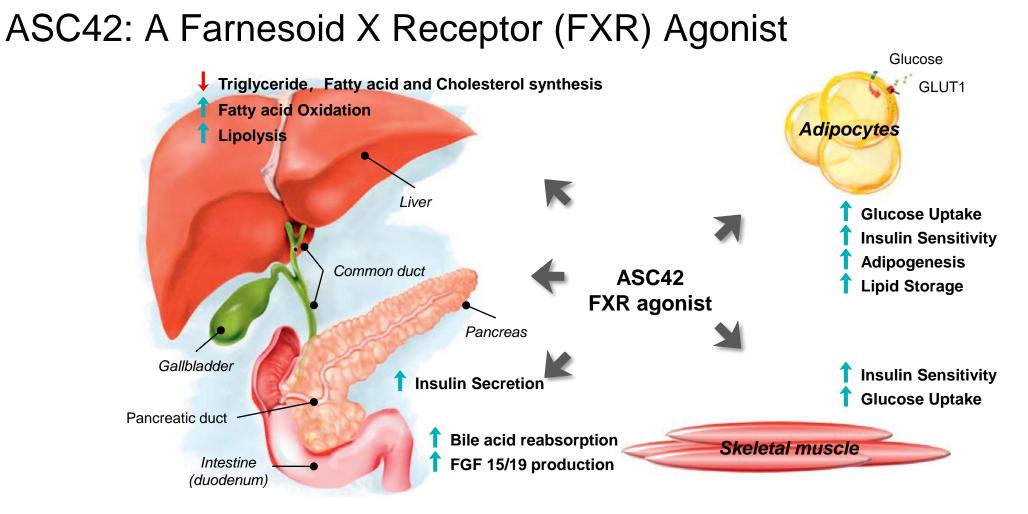


Positive Clinical Results in Overweight and Obese Subjects

Placebo-adjusted relative change (mean) from baseline after 14 or 28 days of once daily oral dosing of 10 mg ASC41 tablets in overweight and obese subjects







- Increased insulin sensitivity of adipocytes and skeletal muscle cells increases glucose uptake in peripheral tissues and increases energy consumption
- Reduced the synthesis of triglycerides, fatty acids and cholesterol in the liver, promoted liver fat decomposition and fatty acid oxidation



ASC42: A Novel Non-steroidal, Selective, Potent FXR Agonist

- Potentially best-in-class, no pruritus at human therapeutic doses
- U.S. FDA IND approval in Oct 2020
- U.S. FDA Fast Track Designation in Dec 2020
- U.S. Phase I trials completed
 - Single ascending doses and multiple ascending doses
 - Food effect
- Oral tablet formulation developed with in-house proprietary technology and stable at room temperature



ASC42: Topline Results of the U.S. Phase I Trial

- No pruritus observed during 14-day treatment of the once-daily human therapeutic dose of 15 mg.
- FXR target engagement biomarker FGF19 increased 1632% on Day 14 of treatment with 15 mg, once-daily
- FXR target engagement biomarker C4 decreased 93% on Day 14 of treatment with 15 mg, once-daily
- Mean LDL-C values remained within the normal range during 14-day, once daily treatment with 15 mg
- There were no treatment-emergent ALT and AST elevations during 14-day, once daily treatment with 15 mg
- Doses selected for Phase II trial in patients with NASH, which will be initiated by the end of 2021

FDC: Complementary among ASC40, ASC41 and ASC42

		Monotherapy		FDC One-Pill, Once-a-Day				
Treatment Goals	ASC40 FASN	ASC41 THRβ	ASC42 FXR	ASC43F THRβ + FXR	ASC44F FASN + FXR	ASC45F FASN + THRβ		
Liver fat reduction	***	***	**	***	***	***		
Anti-inflammation	**	**	**	**	**	**		
Anti-fibrosis	**	**	***	***	***	**		
Lowering LDL-C and TG		***		***		***		



Oncology



Cancer Molecular Therapies

Category	Mechanism	Examples of Approved drugs
Signal Transduction	Angiogenesis and proliferation inhibitor	Bevacizumab, Imatinib, Erlotinib, Sorafenib, Ibrutinib, Tofacitinib, Palbociclib
Immunotherapy	Checkpoint inhibitor	Keytruda [®] , Opdivo [®] , Tecentriq [®] , Bavencio [®] , Imfinz [®]
Metabolism	Control aberrant energy and substance needs, inhibit toxic metabolites	Ivosidenib, Enasidenib



Oral Cancer Metabolic Checkpoint and Immune Checkpoint Inhibitors

Target	Candidate	Indication	Commercial rights	Pre-IND	IND	Phase I	POC	Pivotal trial	Competitiveness
FASN + VEGF	ASC40 (Oral) +Bevacizumab	Recurrent glioblastoma	Greater China ¹		Phase	III in Chir	na approv	<mark>ed</mark>	 FIC, inhibit energy supply and disturb membrane phospholipid composition of tumor cells by block de novo lipogenesis Significantly improve PFS6 in Phase II
FASN	ASC40 (Oral)	Drug resistant Breast Cancer	Greater China ¹						FIC MOAPreliminary efficacy in phase I study
FASN	ASC40 (Oral)	KRAS mutant NSCLC	Greater China ¹						FIC MOAPreliminary efficacy in phase I study
FASN	ASC60 (Oral)	Solid tumor 1	Greater China ¹						 FIC Higher <i>in vitro</i> activities compare to ASC40
FASN	ASC60 (Oral)	Solid tumor 2	Greater China ¹						 FIC Higher <i>in vitro</i> activities compare to ASC40
PD-L1	ASC61 (Oral small molecule)	Multiple tumors	Global						 Oral small molecule, easier administration Comparable efficacy with antibody drug in animal model
PD-L1	ASC63 (Oral small molecule)	Multiple tumors	Global						 Oral small molecule, easier administration Stronger effects on PD-L1 dimerization and internalization compare to competitor compound

1. ASC40 and ASC60 are licensed from Sagimet for the exclusive rights in the Greater China.

Cancer Lipid Metabolism



Cancer Metabolism: Long History, Recent Breakthrough



Warburg Effect (~1921)

Increased glucose uptake and fermentation of glucose to lactate even in the presence of completely functioning mitochondria RESEARCH 10.1126/science.aaw5473

REVIEW Sc

Science 2020

CANCER

Metabolic reprogramming and cancer progression



Enasidenib Approved for AML (2017)

FDA approves first-in-class cancer metabolism drug

The FDA approved Agios' and Celgene's enasidenib for acute myeloid leukaemia (AML), validating metabolism-modulating drugs as a means of killing cancer cells. Enasidenib (formerly AG-221) is a first-in-class inhibitor of mutated isocitrate dehydrogenase 2 (IDH2). The IDH enzymes normally metabolize isocitrate into α-ketoglutarate. When they are mutated in cancers, they also convert α-ketoglutarate into 2-hydroxyglutarate, an oncometabolite that causes cell differentiation defects by impairing histone demethylation. In clinical trials of enasidenib, 23% of treated patients had complete responses or complete responses with partial haematologic recovery lasting a median of 8.2 months. The most common side effects were nausea, vomiting, diarrhoea, elevated bilirubin and decreased appetite. The agency approved the drug with a black box warning noting the risk of differentiation syndrome, a potentially fatal complication that is associated with certain forms of AML.

Nature Reviews Drug Discovery, 2017, 16, 593

BJC 2020 British Journal of Cancer

www.nature.com/bjc

EDITORIAL

Cancer Metabolism

Development of cancer metabolism as a therapeutic target: new pathways, patient studies, stratification and combination therapy

Cancer metabolism has undergone a resurgence in the last decade, 70 years after Warburg described aerobic glycolysis as a feature of cancer cells. A wide range of techniques have elucidated the complexity and heterogeneity in preclinical models and clinical studies. What emerges are the large differences between tissues, tumour types and intratumour heterogeneity. However, synergies with inhibition of metabolic pathways have been found for many drugs and therapeutic approaches, and a critical role of window studies and translational trial design is key to success.

British Journal of Cancer (2020) 122:1-3; https://doi.org/10.1038/s41416-019-0666-4



Cancer Metabolism: Approved Drugs and Clinical Stage Candidates

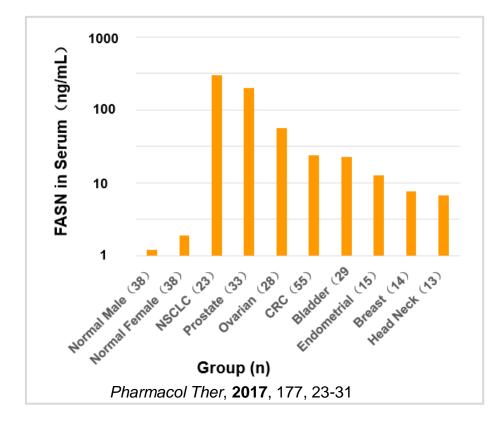
Drug	Target	Indication	Development phase and Company
Ivosidenib (AG-120)	Mutant IDH1 TCA cycle metabolism	AML with IDH1 Mutation	Approved Agios Pharmaceuticals/Celgene
Enasidenib (AG-221)	Mutant IDH2 TCA cycle metabolism	AML with IDH2 Mutation	Approved Agios Pharmaceuticals/Celgene
Vorasidenib (AG-881)	Mutant IDH1/2 TCA cycle metabolism	Low grade glioma	Phase III Agios Pharmaceuticals
Devimistat (CPI-613)	Pyruvate dehydrogenase/α- ketoglutarate dehydrogenase TCA cycle metabolism	Lymphoma, Leukemia, Pancreatic cancer	Phase II / Pivotal Rafael Pharmaceuticals
INCB001158	Arginase inhibitor Maintains arginine levels	Relapsed or Refractory multiple myeloma	Phase II Incyte Corporation
AZD3965	Monocarboxylate transporter 1 Lactate metabolism	Advanced cancer	Phase I Cancer Research UK
ASC40(TVB-2640)	Fatty acid synthase Lipid metabolism	GBM, Breast cancer and other solid tumors	Phase III Ascletis (Greater China)/Sagimet Biosciences (outside Greater China)



Fatty Acid Synthase, A Promising Cancer Drug Target

Fatty Acid Synthase (FASN):

- Synthesis palmitic acid from acetyl-CoA and malonyl-CoA
- Discovered as Oncogenic Antigen 519 (OA-519) in 1990's
- Over expressed in many cancer, prognosis marker



CellPres

BI

Greasing the Wheels of the Cancer Machine: The Role of Lipid Metabolism in Cancer

Marteinn Thor Snaebjornsson,^{1,2,*} Sudha Janaki-Raman,^{1,*} and Almut Schulze^{1,2,*} ¹Biochemistry and Molecular Biology, Theodor-Boveri-Institute, Biocenter, Am Hubland, 97074 Würzburg, Germany ²Division of Tumor Metabolism and Microenvironment, German Cancer Research Center, Im Neuenheimer Feld 581, 69120 Heidelberg, Germany ^{*}Correspondence: m.snaebjoernsson@dktz-heidelberg.de (M.T.S.), sudha.janaki_raman@uni-wuerzburg.de (S.J.-R.), almut.schulze@

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Altered lipid metabolism is among the most prominent metabolic alterations in cancer. Enhanced synthesis or uptake of lipids contributes to rapid cancer cell growth and tumor formation. Lipids are a highly complex group of biomolecules that not only constitute the structural basis of biological membranes but also function as signaling molecules and an energy source. Here, we summarize recent evidence implicating altered lipid metabolism in different aspects of the cancer phenotype and discuss potential strategies by which targeting lipid metabolism could provide a therapeutic window for cancer treatment.

FULL PAPER

Cell Metabolism

Review

ritish Journal of Cancer (2018) 118, 43–51 | doi: 10.1038/bjc.2017.374

Keywords: acetyl-CoA carboxylase; cancer; metabolism; membrane characteristics; metastasis; soraphen A; proliferation; tumour growth

Targeting *de novo* lipogenesis as a novel approach in anti-cancer therapy

Katharina Stoiber^{1,2}, Olga Nagło¹, Carla Pernpeintner^{2,3}, Siwei Zhang¹, Andreas Koeberle⁴, Melanie Ulrich¹, Oliver Werz⁴, Rolf Müller⁵, Stefan Zahler¹, Theobald Lohmüller^{2,3}, Jochen Feldmann^{2,3} and Simone Braig^{*,1}



Glioblastoma

- In China, glioblastoma (GBM) represents 46.1% of gliomas and has an incidence rate of approximately 2.85 to 4.56 per 100,000 population per year, suggesting approximately 40,000 to 64,000 new cases of GBM per year.
- In the United States, GBM represents 56.6% of gliomas and has an incidence rate of approximately 3.21 per 100,000 population per year.
- More than 90% glioblastoma patients will relapse after surgery, radiation and chemotherapies.



Cancer Lipid Metabolism: Recent Breakthrough of FASN Inhibitors in rGBM

- Investigator sponsored Phase II trial of TVB-2640 with Bevacizumab in patients with first relapse of highgrade astrocytoma (recurrent glioblastoma)
 - 25 patients enrolled
 - All patients received ASC40 (TVB-2640) (100mg/m² PO QD) plus Bevacizumab (10mg/kg IV D1,15) until treatment-related toxicity or progressive disease
- The overall response rate (ORR) for ASC40 (TVB-2640) plus Bevacizumab of 65%
 - Complete response (CR) of 20%
 - > Partial response (PR) of 45%
- Progression-free survival at six months (PFS6) for ASC40 (TVB-2640) plus Bevacizumab was 47%
 - Representing a statistically significant improvement in PFS6 over the historical Bevacizumab monotherapy PFS6 of 16% (BELOB Trial) (P=0.01)
 - > ASC40 (TVB-2640) in combination with Bevacizumab was safe and well tolerated in such patient population
- Presented at European Society for Medical Oncology 2020



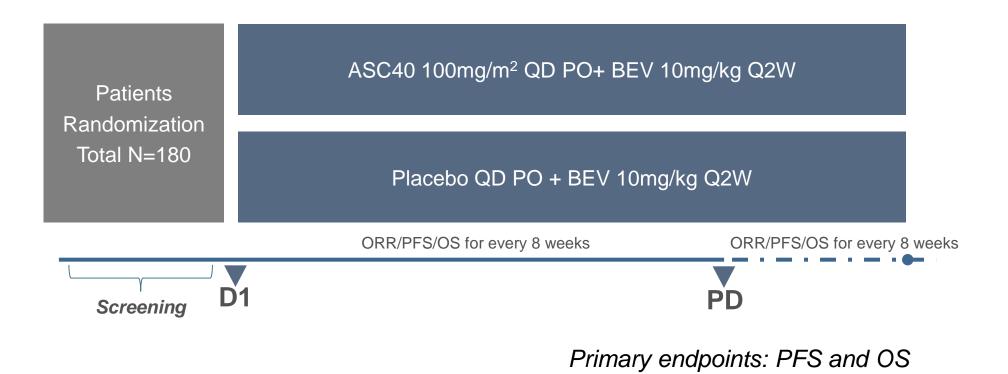
China NMPA Approved Phase III Clinical Trial of ASC40 Combined with Bevacizumab for Treatment of Patients with Recurrent Glioblastoma

- First Phase III trial of ASC40, a first-in-class drug candidate targeting tumor lipid metabolism
- Bevacizumab is the only drug which has been approved for rGMB indication in China as of September, 2020.
- The data of BELOB Trial indicated that median PFS was three months for patients with rGBM after Bevacizumab treatment.



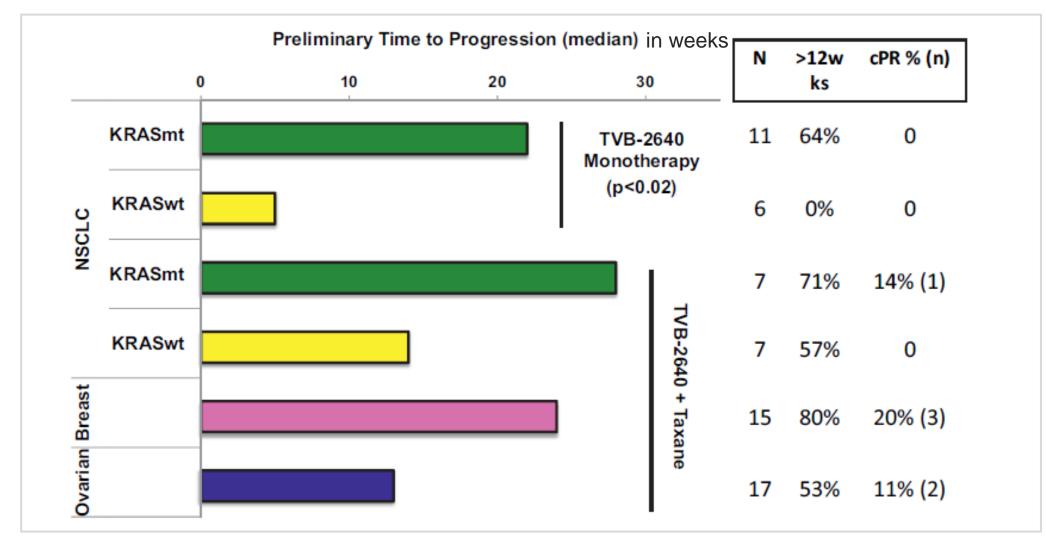
ASC40: China Phase III Study Design for Recurrent Glioblastoma

A Randomized, Double Blind, Placebo Controlled, Multi-center Phase III Trial of ASC40 in Combination with Bevacizumab for treatment of Patients with Recurrent Glioblastoma



Source: William Kelly et,al. TVB-2640 with Bevacizumab in Relapsed High-grade Astrocytoma. ESMO 2020

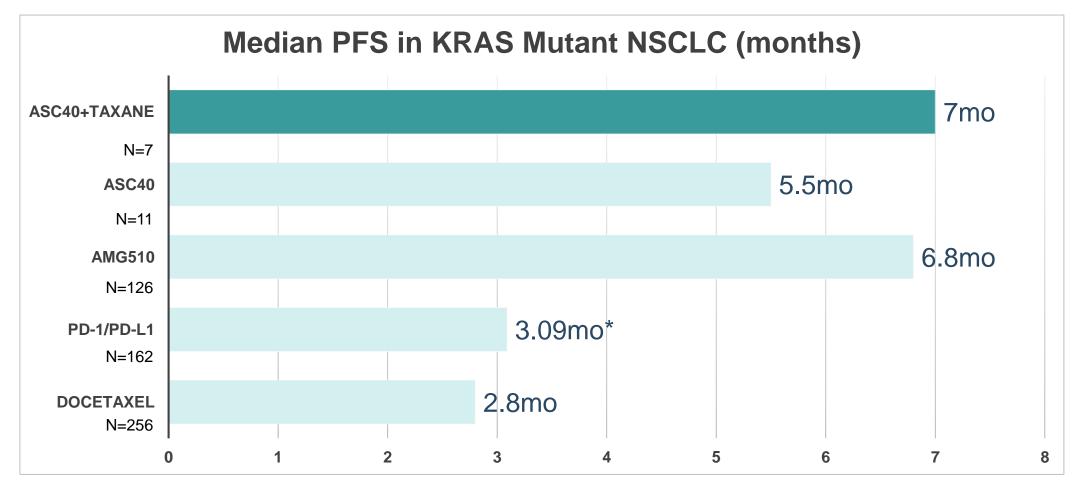
Phase I: Median time to progression of TVB-2640 alone and with a Taxane in patients with KRAS^{MUT} versus KRAS^{WT} non-small cell lung, breast, and ovarian cancer





Source: G. Falchook et al. / EClinicalMedicine 34 (2021) 100797

ASC40 Shows Competitive Efficacy in KRAS Mutant NSCLC



*: represents mean PFS (range 2.36-3.82 months) instead of median PFS

Ref: EClinicalMedicine, 34 (2021), 100797; N Engl J Med; 384(25):2371-2381; Journal of Thoracic Oncology; 14(6): 1095-1101; JAMA; 317(18): 1844-1853



Other Clinical Trials of ASC40 (TVB-2640)

- Patients with KRAS mutatant non-small cell lung cancer (ClinicalTrials.gov Identifier: NCT03808558)
- Patients with breast cancer (ClinicalTrials.gov Identifier: NCT03179904)
- Patients with colon cancer/head and neck cancer (ClinicalTrials.gov Identifier: NCT02980029)



Oral Immune Checkpoint Inhibitors

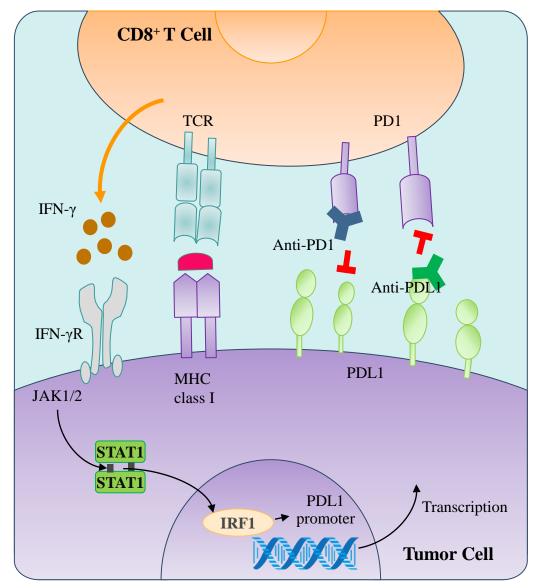


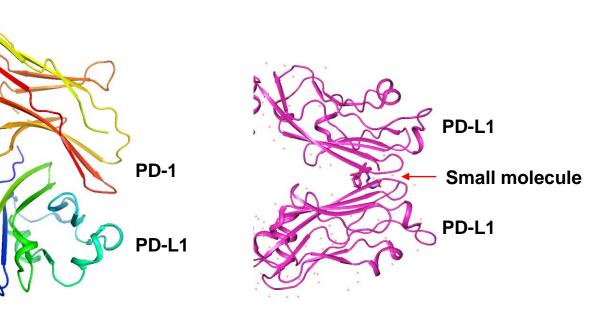
Immunotherapies: Great Success for mAb, It is Time for Oral Drugs

- BMS is the first company working on oral PD-L1 inhibitors
 - Filed patents for oral PD-L1 small molecule inhibitors in 2013
 - BMS stopped working PD-L1 inhibitors later due to drugability issues etc
- Gilead is one of leaders in oral PD-L1 inhibitors
 - > A few years ago, Gilead announced its oral PD-L1 inhibitors for HBV
 - At JP Morgan virtual conference in 2021, Gilead announced its oral PD-L1 inhibitor GS-4224 was in Phase I for NSCLC
- Incyte is another leader in oral PD-L1 inhibitors
 - > At SITC 2020, Incyte announced its oral PD-L1 inhibitor INCB86550 was in Phase I for solid tumors



PD-L1 Small Molecule Inhibitors: Challenges and Opportunities

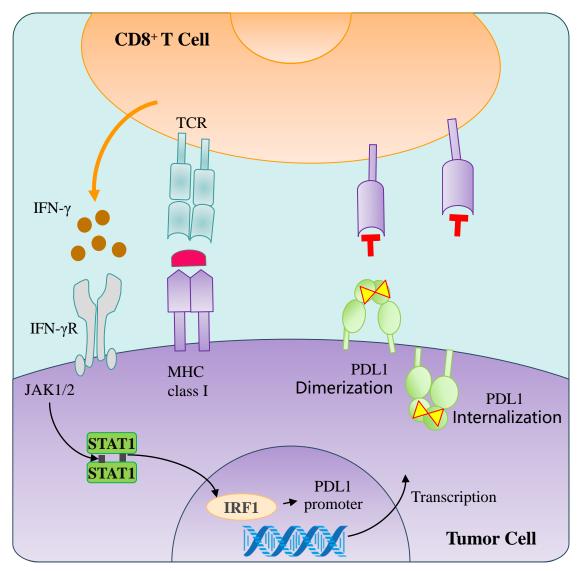




- Antibodies block PD-1/PD-L1 interface
- Traditional small molecules not good at inhibiting protein-protein interaction
- PD-L1 small molecule inhibitors induce PD-L1 dimerization and internalization, preventing PD-1/PD-L1 interaction



ASC63: Induce PD-L1 Dimerization and Sustained Internalization



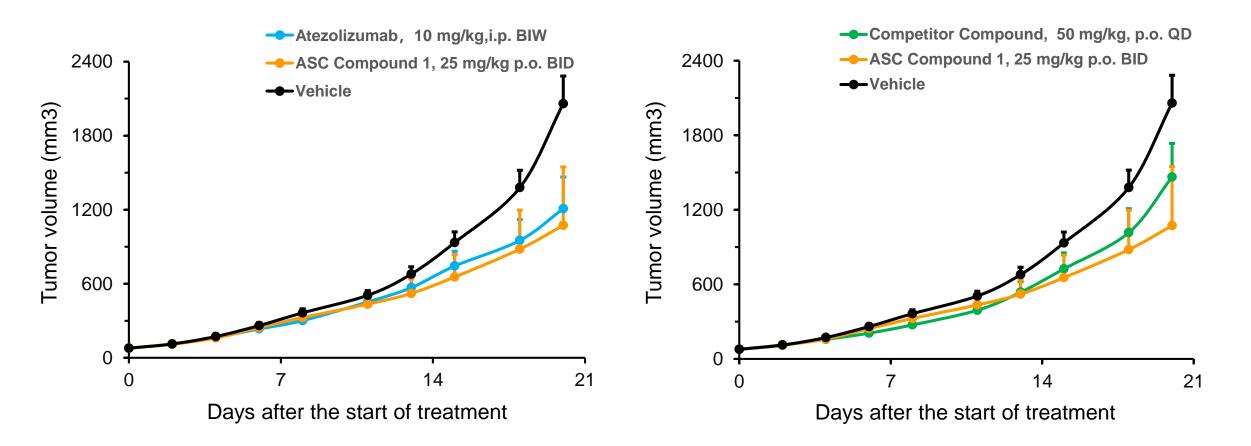
Cell Surface PD-L1 Signal Loss 90% 81.80% 80% 70% 56.70% 60% 50% 40.90% 40% 30% 20% 10% 0.60% 4.80% 0.50% 0% Vehicle Competitor ASC63 (Negative Control) Compound

Ascletis' ASC63

- Potently induce PD-L1 dimerization and internalization (orange)
- Induce long-lasting PD-L1 signal loss from cell surface (after compound removed from medium for 16 hours, still resulted in 40% PD-L1 signal loss) (black)

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Ascletis' Oral PD-L1 Inhibitor: Anti-Tumor Activity in Syngeneic Mouse Model





Exploratory Indications



Exploratory Indications

Acne

Target	Candidate	Commercial rights	Pre-IND	IND	Phase I	Phase II	Phase III	Competitiveness
FASN ASC40								• FIC
		Greater China ¹						 Sebum production inhibited dose
								dependently in phase I study

1. ASC40 is licensed from Sagimet Biosciences Inc. for the exclusive rights in the Greater China.



Acne

- Eighth most prevalent disease in the world and affects more than 640 million people globally
 - However, acne can also persist into or dThe onset of acne often coincides with pubertal hormonal changes, and the condition affects approximately 85% of adolescents and young adults aged 12 to 25 years.
 - evelop during adulthood.
- A report recently published by Allied Market Research indicated that the global acne medication market size was US\$11.86 billion in 2019, and is projected to reach US\$13.35 billion by 2027.
 - Current first-line treatments for acne include topical creams such as topical retinoids and androgen receptor inhibitor, oral isotretinoin, and antibiotics.



ASC40: A first-in-class drug with novel mechanism of action for Acne

- Fatty acid synthase (FASN) is a key enzyme which regulates de novo lipogenesis.
 Human sebum production requires de novo lipogenesis, which is increased in acne and suppressed by the FASN inhibitor ASC40.
- Clinical proof concept data
 - ➢Clinical study indicated that sebum production was inhibited by ASC40 in a dosedependent fashion





ASC40: China Phase II Study Design for Acne

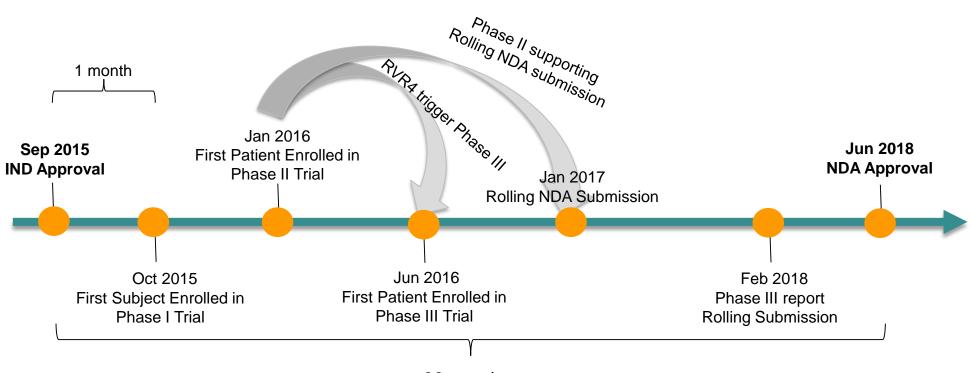
	Placebo QD	Follow-up	
Moderate to Severe ACNE	25mg ASC40 QD	Follow-up	
Total N=180	50mg ASC40 QD	Follow-up	
	75mg ASC40 QD	Follow-up	
D1		W12 W1	14



R&D Execution Excellence GMP Manufacturing Capacity Commercialization Capability



R&D Efficiency : GANOVO® from IND to NDA Approval: 33 months

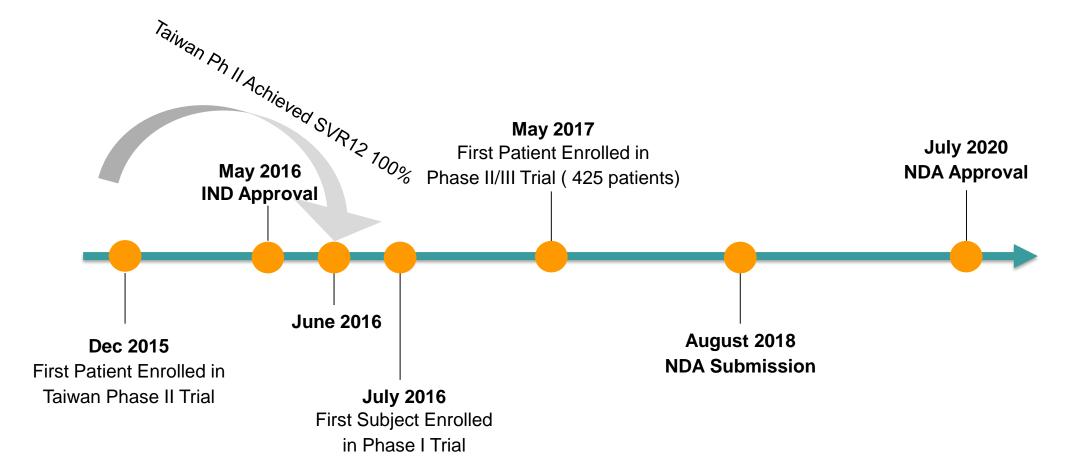


33 months

Company (Target)	IND Approval	NDA Approval	IND approval to NDA approval (months)
Ascletis (HCV NS3/4A)	Sept 2015	June 2018	33
BMS (HCV NS3/4A and 5A)	June 2013	June 2017	48



R&D Efficiency: ASCLEVIR[®] from IND to NDA Approval: 50 months





GMP Manufacturing Facilities



GMP Certified

- Quality-by-design approach implemented
- Complied with cGMP

Quality Assurance

 State-of-art equipment with cutting-edge technology capabilities

International Standards

 Experienced manufacturing employees from MNCs

Supply ensured

 Production capacity of 130 million tablets



Experienced and Extensive Sales Network

Experienced Team



Network Coverage

- ~1,000 Hospitals located in regions where hepatitis B&C is most prevalent in China
- ~5,400 specialists and key opinion leaders covered in the hepatitis field
- 22 distribution agreements with major distributors, enabling nationwide coverage and timely delivery of products.

Strategy

- Branding Activities and Market Research
- Patients Research and Analysis
- HCV/HBV Awareness Raising



Global Business Development Strategy



Global Partnerships





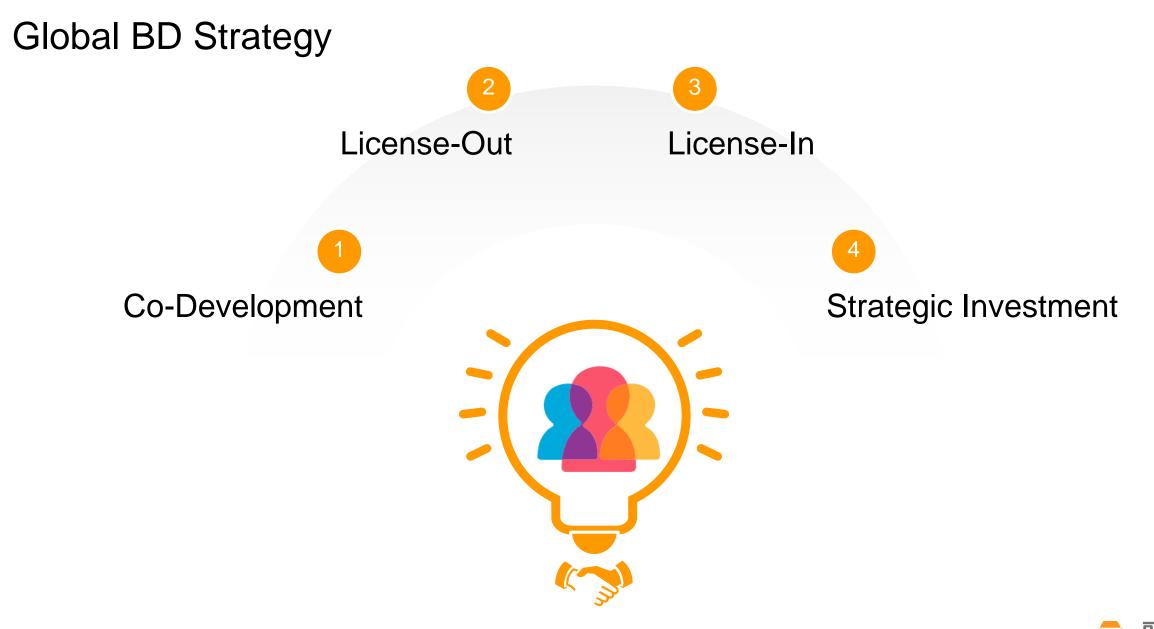












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Co-Development: Areas of Interest



- ASC22 (subcu PD-L1antibody) + siRNA
- ASC22 + Capsid inhibitor
- ASC22 + Entry inhibitor

NASH

GLP-1/GLP-1R

- ASC42 (FXR) + subcu weekly GLP-1
 / GLP-1R
- ASC40(FASN) + subcu weekly GLP-1 / GLP-1R

SGLT

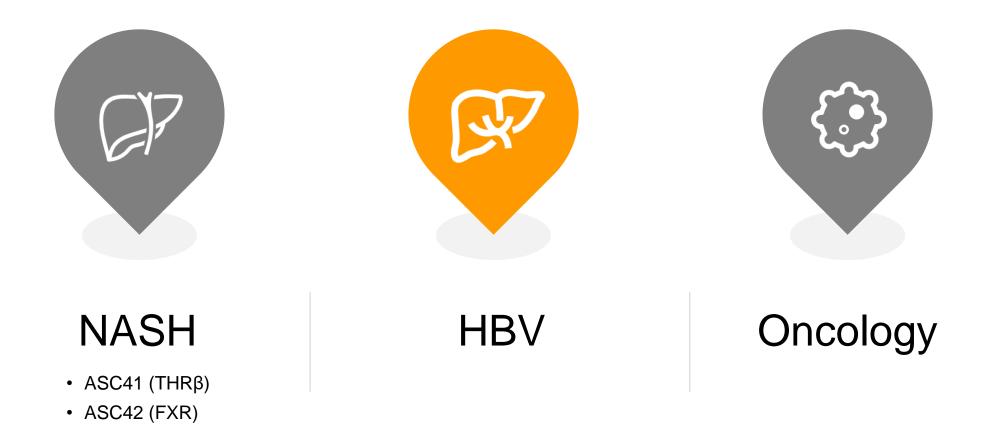
- ASC42 (FXR) + oral QD SGLT drug
- ASC41 (THRβ) + oral QD SGLT drug

Oncology

- GBM: ASC40 (lipid metabolism drug)+bevatzamab
- mBC: ASC40 + other drug
- KRAS mutation: ASC40 + other drug

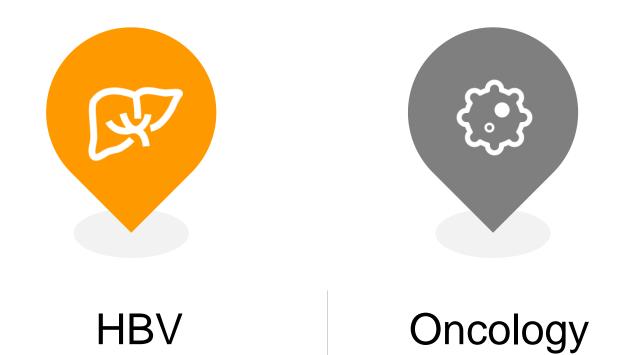


License-Out: Areas of Interest

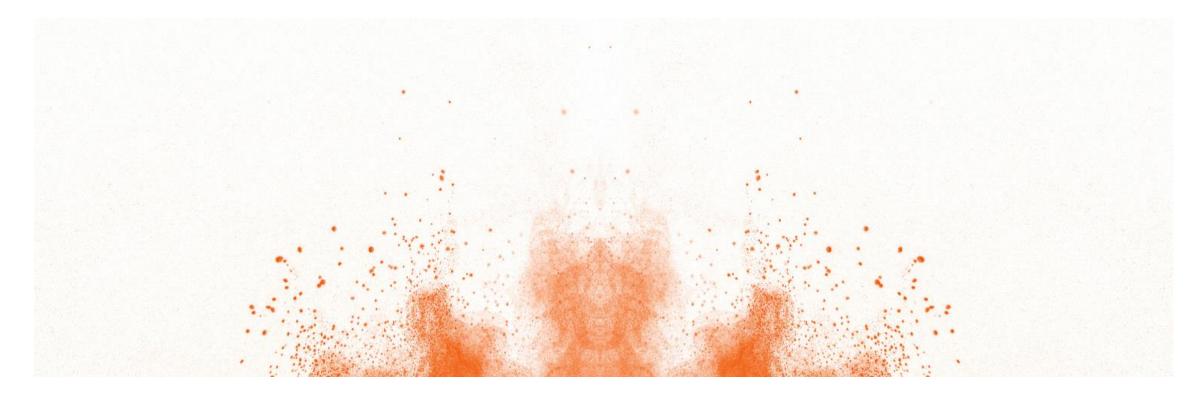




License-In: Areas of Interest







Thanks

Innovative cures liberate life to the fullest



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