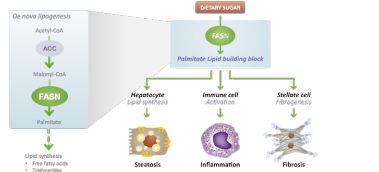


NOVEL, FIRST-IN-CLASS, FATTY ACID SYNTHASE (FASN) INHIBITOR TVB-2640 DEMONSTRATES ROBUST CLINICAL EFFICACY AND SAFETY IN A GLOBAL PHASE 2 RANDOMIZED PLACEBO-CONTROLLED NASH TRIAL (FASCINATE-1)

Eduardo B. Martins¹, Stephen A. Harrison², Mary E. Rinella³, Vincent Wong⁴, Vlad Ratziu⁵, Gregory J. Gores⁶, Brent A. Neuschwander-Tetri⁷, Rizwana Mohseni⁸, Kathryn Jean Lucas⁹, Julio A. Gutierrez¹⁰, Robert Perry¹¹, Robert S. Rahimi¹², James F. Trotter¹³, Hong Deng¹⁴, Qing Xie¹⁵, Jing Zhang¹⁶, Lixian Wu¹⁷, Hong Yu¹⁸, Bihui Zhong¹⁹, JinLin Hou²⁰, Yongfeng Yang²¹, Yan Lu²², Handan He²³, Melissa Palmer^{24,25}, Jinzi Wu²², Katharine Grimmer¹, William McCulloch¹, Marie O'Farrell¹, George Kemble¹, Junping Shi⁶, Rohit Loomba²⁷

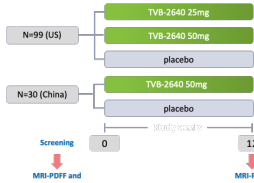
INTRODUCTION

- TVB-2640 is a potent and selective FASN inhibitor
- Directly tackles 3 hallmarks of NASH: inhibits liver fat accumulation (hepatocytes), inhibits fibrosis (stellate cells) and DNL for activation and decreases inflammation (inflammation activation by palmitate)



METHODS

- Phase 2a, multicenter, placebo-controlled study assessed efficacy and safety of TVB-2640 in the US and China (NCT0393246)
- Subjects with MRI-PDFF ≥8% and fibrosis (MRE ≥2.5 kPa or biopsy F1-F3) were randomized 2:1 to TVB-2640 or pbo once daily (US N=99; China N=30) for 12 weeks. Response was defined as a ≥30% relative reduction in PDFF at W12. Here, we report safety, efficacy and biomarker results.



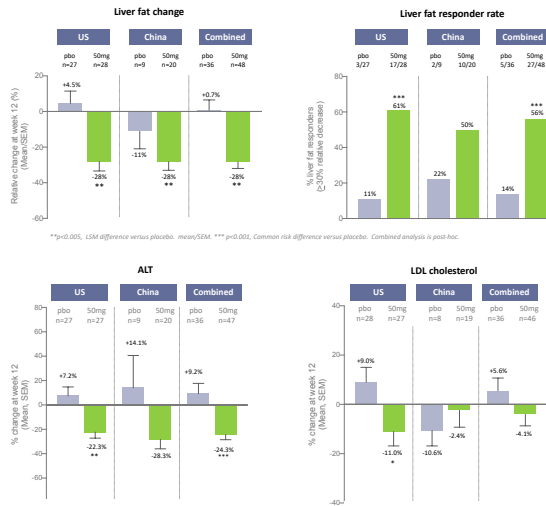
DEMOGRAPHICS

	US		China	
	Placebo (n=31)	50mg (n=35)	Placebo (n=9)	50mg (n=21)
Median (Q1, Q3)				
Age, y	50(46,58)	55(44,62)	34(29,45)	33(28,43)
Male, n(%)	14(45.2)	22(62.9)	6(67)	17(81)
T2D, n(%)	17(54.8)	13(37.1)	1(11)	4(19)
Ethnicity/Asian, (%)	25(80.6)	24(68.6)	9(100)	21(100)
Weight, kg	83.7(74.0,96.6)	92.0(80.0,101.0)	80.0(75.5,94.0)	78.3(72.3,87.5)
BMi (kg/m ²)	31.2(29.3,33.5)	32.8(28.6,35.2)	28(6.3,33.5)	27.3(25.8,30)
ALT (U/L)	25(16,46)	29(24,43)	69(44,135)	82(38,143)
AST (U/L)	21(15,30)	23(20,30)	46(34,60)	42(30,67)
ALP (U/L)	82(72,98)	74(58,103)	79(72,87)	76(64,96)
GGT (U/L)	33(22,58)	39(25,49)	53(37,79)	53(38,65)
Glucose (fasting) (mg/dL)	108(86,167)	98(86,124)	110(103,117)	99(95,110)
HbA1c, %	6.4(5.8,6.6)	5.8(5.5,6.4)	5.8(5.3,6.2)	5.3(5.2,5.8)
Insulin (fasting) (μU/mL)	17(15,24)	22(14,32)	17(14,21)	10(7,15)
Apolipoprotein B (mg/dL)	100(84,126)	104(89,124)	103(94,129)	103(90,114)
Total Cholesterol (mg/dL)	192(162,229)	189(175,225)	189(175,217)	183(170,192)
LDL (mg/dL)	118(96,139)	114(94,153)	101(86,137)	104(94,123)
HDL (mg/dL)	43(30,53)	44(37,51)	42(30,55)	37(30,46)
Triglycerides (mg/dL)	157(123,248)	183(124,282)	142(124,230)	188(115,285)
MRI-PDFF (%)	15.3(11.8,22.2)	15.8(12.3,19.6)	20.6(11.8,28)	18.8(13.3,19.8)

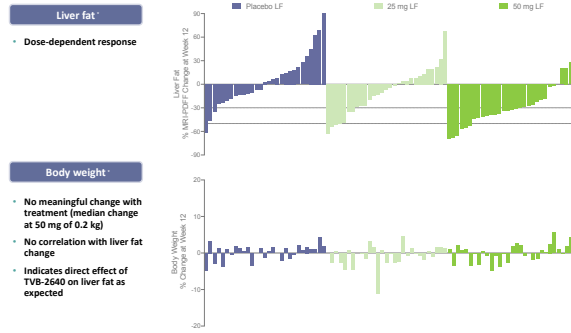
SAFETY

Treatment Emergent Adverse Event (TEAE) Classification	US Placebo N=31	US 25mg N=33	US 50mg N=35	China Placebo N=9	China 50mg N=21
Any TEAE	Gr: 1: 12 (38.7%) Gr: 2: 7 (22.6%)	Gr: 1: 18 (54.5%) Gr: 2: 21 (63.6%)	Gr: 1: 12 (34.3%) Gr: 2: 6 (17.1%)	Gr: 1: 3 (33%) Gr: 2: 2 (22%)	Gr: 1: 11 (52%) Gr: 2: 4 (19%) Gr: 3: 2 (10%)
TEAE leading to drug withdrawal	0	2 (6.1%)	0	0	1 (5%)
Treatment Emergent Serious Adverse Event (SAE)	0	0	0	0	0
Drug related TEAE	Gr: 1: 3 (9.7%) Gr: 2: 1 (3.2%)	Gr: 1: 10 (30.3%) Gr: 2: 6 (17.1%)	Gr: 1: 9 (25.7%) Gr: 2: 2 (5.7%)	0	Gr: 1: 8 (38%) Gr: 2: 4 (19%)
TEAE leading to death	0	0	0	0	0

EFFICACY



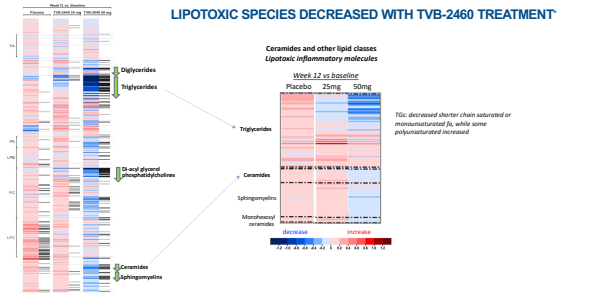
EFFICACY CONT.



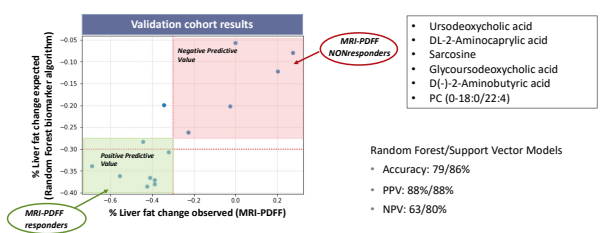
LIVER FAT RESPONSE AND BIOMARKERS CORRELATION

	Placebo		TVB-2640 25mg group				TVB-2640 50mg group			
	Non-Responders	Responders	Non-Responders	Responders	Non-Responders	Responders	Non-Responders	Responders	Non-Responders	
ALT (U/L)	-7%	0.61	-36%	0.69	-3%	0.86	-21%	0.603	-13%	0.1
Adiponectin (μg/ml)	-1%	0.63	0%	1	3%	0.86	19%	0.15	19%	0.13
BMI (kg/m ²)	1%	0.21	3%	0.16	0%	0.73	6%	0.5	0%	0.58
ELF Score	-1%	0.96	-6%	0.98	2%	0.94	-3%	0.98	-4%	0.98
FGF21 (pg/ml)	-3%	0.99	-29%	0.51	35%	0.617	34%	0.945	89%	0.007
HA (ng/ml)	-1%	0.74	-30%	0.65	27%	0.916	-16%	0.899	-17%	0.16
IP3N (ng/ml)	-1%	0.24	-29%	0.028	1%	0.49	-1%	0.85	-10%	0.17
PIIINP (ng/ml)	4%	0.39	-22%	0.58	2%	0.95	-11%	0.44	-10%	0.54
ProC3 (ng/ml)	7%	0.21	-1%	0.84	8%	0.28	-8%	0.46	-25%	0.019
TGFβ1 (ng/ml)	-2%	0.99	-25%	0.958	1%	0.99	-15%	0.944	-22%	0.027
TGFα1 (ng/ml)	20%	0.96	-9%	0.95	-6%	0.97	-25%	0.946-0.4	-6%	0.002
Linoleic acid	-1%	0.75	28%	0.47	-1%	0.93	-10%	0.31	19%	0.032
Palmitic acid	-5%	0.82	-5%	0.81	-1%	0.99	-10%	0.16	-2%	0.32
Palmitoleic acid	2%	0.99	9%	0.69	19%	0.33	-18%	0.22	-20%	0.52
TIMP1 (ng/ml) excluding 101131	3%	9.88E-01	-25%	1.56E-02	1%	5.95E-01	-18%	4.79E-02	-22%	2.79E-02

- Follow up analysis – liver fat as a continuous variable
- Expand to additional markers



BASELINE METABOLITE PROFILE PREDICTS LIVER FAT CHANGES



CONCLUSIONS

- TVB-2640 is a potent and selective FASN inhibitor
- Demonstrated proof-of-concept in robust FASCINATE-1 Ph2a program
- Similar efficacy in two diverse patient populations – US and China
- Liver fat relative reduction of 28% over 12 weeks
 - 61% patients in US and 50% in China achieved ≥30% reduction
- TVB-2640 was well tolerated with predominantly Grade 1 AEs at the highest dose tested
- Biomarker improvement in several key NASH pathways: steatosis, inflammation, fibrosis and metabolism
- Preliminary serum metabolite signature correlated to liver fat change at 50 mg in US patients
- FASCINATE-2 Ph2b biopsy study recently initiated
- FASN inhibitor has potential to be a foundational treatment for NASH

¹Sagimet Biosciences, Inc., San Mateo, CA, ²Pinnacle Clinical Research, TX, ³Fairleigh School of Medicine, Northwestern University, Chicago, IL, ⁴State Key Laboratory of Digestive Disease, The Chinese University of Hong Kong, ⁵Service D'Hépatite-Gastroentérologie Hôpital Pitié-Salpêtrière, Paris, France, ⁶Mayo Clinic, ⁷Saint Louis University School of Medicine, ⁸Catalina Research Institute, LLC, ⁹Diabetes and Endocrinology Consultants, North Carolina, ¹⁰Procedent, ¹¹Pharmaceutical Research, ¹²University of Texas, ¹³University of Texas, ¹⁴Department of Infectious Diseases, The Third Affiliated Hospital of Sun Yat-Sen University, ¹⁵Department of Infectious Diseases, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, ¹⁶Capital Medical University, Beijing Youan Hospital, ¹⁷Fujian Provincial Hospital, ¹⁸Liver Research Center, Beijing Friendship Hospital, Capital Medical University, Beijing, ¹⁹Department of Infectious Diseases, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, ²⁰Department of Infectious Diseases, Beijing Youan Hospital, ²¹Department of Infectious Diseases, Beijing Youan Hospital, ²²Department of Infectious Diseases, Beijing Youan Hospital, ²³Department of Infectious Diseases, Beijing Youan Hospital, ²⁴Department of Infectious Diseases, Beijing Youan Hospital, ²⁵Department of Infectious Diseases, Beijing Youan Hospital, ²⁶Department of Infectious Diseases, Beijing Youan Hospital, ²⁷Department of Infectious Diseases, Beijing Youan Hospital