#### Abstract: 670P

# Preliminary Efficacy and Safety of Tinengotinib (TT-00420) Monotherapy in Chinese Patients (pts) with Advanced Solid Tumors: Results from a Phase Ib/II Study

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## INTRODUCTION

- Tinengotinib is a spectrum-selective multi-kinase inhibitor that targets cell proliferation, angiogenesis, and immuneoncology pathways by inhibiting Aurora kinases A/B, Janus kinases (JAK), and receptor tyrosine kinases (FGFRs, VEGFRs).
- Tinengotinib has shown promising efficacy in prostate cancer (PC), hormone receptor positive (HR+) human epidermal growth factor receptor 2 negative (HER2-) breast cancer (BC), triple-negative BC (TNBC) and cholangiocarcinoma (CCA) from several studies globally.
- NCT05253053 is a Phase Ib/II study assessing tinengotinib monotherapy or in combination with PD-L1/chemotherapy in
  patients with advanced/metastatic solid tumors. Here we present the interim data from monotherapy arm.

### **METHODS**

#### Patients

- ≥18 years of age,
- advanced/metastatic solid tumors who have no available standard therapeutic treatment options,
- At least one measurable lesion as defined by RECIST V1.1 criteria,
- ECOG of 0~2,
- Adequate organ function



Objectives

- Safety and tolerability per CTCAE V5.0
- Preliminary efficacy per RECIST V1.1 (Arm A and Arm C), imRECIST (Arm B), PCWG3 (only for PC in Arm A)
- Clinical PK analyses
- Biomarker(s)

The interim data from monotherapy arm (Arm A) will be presented in the poster.

## RESULTS

As of September 8, 2023, 50 patients with solid tumors were enrolled and treated in monotherapy (Arm A). Based on the preliminary efficacy observed in the subjects with FGFR-altered CCA, metastatic castration-resistant prostate cancer (mCRPC), Pan-FGFR-altered advanced solid tumors (ASTs) in Arm A Ph Ib and several studies globally, the Ph II cohorts for FGFR-altered CCA, mCRPC, Pan-FGFR-altered ASTs have been opened for enrollment in Arm A.

#### Table 1. Baseline subject demographics and clinical characteristics

		grapinee ana	onnou onu				
		Phase I			Phase II		
Characteristic	8 mg	10 mg	12 mg	10 mg	10 mg	10 mg	Total
Statistic	AST	AST	AST	CCA	mCRPC	Pan-FGFR	
	(n = 3)	(n = 3)	(n = 3)	(n = 12)	(n = 19)	(n = 10)	(N = 50)
Age (years)							
n	3	3	3	12	19	10	50
Mean (SD)	57.7 (8.51)	54.7 (13.20)	60.0 (14.73)	53.3 (15.16)	65.7 (8.20)	56.5 (13.73)	59.8 (12.47)
Median	58.0	52.0	68.0	54.0	67.5	58.0	64.0
Min, Max	49, 66	43, 69	43, 69	29, 76	52, 81	29, 71	29, 81
Sex. n (%)							
Male	2 (66 7)	2 (66 7)	2 (66 7)	4 (33 3)	19 (100)	3 (30 0)	32 (64.0)
Female	1 (33 3)	1 (33 3)	1 (33 3)	4 (66.7) 8 (66.7)	0	7 (70 0)	18 (36 0)
1 cmaic	1 (00.0)	1 (00.0)	1 (00.0)	0 (00.7)	0	1 (10.0)	10 (00.0)
ECOG, n(%)							
0	0	0	1 (33.3)	5 (41.7)	1 (5.3)	2 (20.0)	9 (18.0)
1	3 (100)	3 (100)	2 (66.7)	7 (58.3)	18 (94.7)	8 (80.0)	41 (82.0)
Tumor Type, n(%)							
Bile ducts	2 (66.7)	0	0	12 (100)	0	0	14 (28.0)
Prostate	Ò	0	0	Û Í	19 (100)	0	19 (38.0)
Luna	0	0	0	0	Û Í	3 (30.0)	3 (6.0)
Colorectum	1 (33.3)	3 (100)	1 (33.3)	0	0	2 (20.0)	7 (14.0)
Stomach	0	0	0	0	0	3 (30.0)	3 (6.0)
Other	0	0	2 (66.7)	0	0	2 (20.0)	4 (8.0)
Prior Lines Antineonlasti	c Medication T	horany n(%)					
1	1 (22 2)	1 (22 2)	0	6 (50 0)	0	2 (20 0)	10 (20 0)
' 2	1 (33.3)	1 (33.3)	0	2 (16 7)	3 (15 <u>8</u> )	2 (20.0)	0 (12 0)
2 >2	1 (33.3)	1 (33.3)	2 (100)	$\angle (10.7)$	16 (94 2)	2 (20.0)	31 (62.0)
20	1 (33.3)	1 (33.3)	3 (100)	4 (33.3)	10 (04.2)	0 (00.0)	31 (02.0)





Figure 2. Waterfall plot for the best percentage change of target lesion per RECIST v1.1 for CCA (N=12)









	Safety				
ge 1.1-15.8) espectively.	<ul> <li>Tinengotinib treatment-related AEs (TRAEs) in monotherapy arms were reported in 49/50 (98.0%) pts. 20/50 (40.0%) were Grade (G) 1-2, 28/50 (56.0%) were G3, 1/50 (2.0%) were G4 (renal failure), no G5 TRAE reported; the most common ≥G3 TRAEs (≥5%) were hypertension, white blood cell count decreased, anaemia, neutrophil count decreased, platelet count decreased, proteinuria and palmar-</li> </ul>				
was 83.3%	Table 2. Tinengotinib Treatment related adverse event	ts			
FR inhibitor					
nt achieved		Total			
	Number of Subjects with at least one TRAE	49(980%)			
	CTCAE Grade 1	4 (8.0%)			
	CTCAE Grade 2	16 (32.0%)			
	CTCAE Grade 3	28 (56.0%)			
	CTCAE Grade 4	1 (2.0%)			
rostate ile ducts	CTCAE Grade 5	0			
	Most Common ≥CTCAE Grade 3 TRAEs (≥5%)				
	Hypertension	9 (18.0%)			
	White blood cell count decreased	5 (10.0%)			
	Anaemia	5 (10.0%)			
	Neutrophil count decreased	4 (8.0%)			
	Platelet count decreased	3 (6.0%)			
	Proteinuria	3 (6.0%)			
	Palmar-plantar erythrodysaesthesia syndrome	3 (6.0%)			

## CONCLUSION

- Tinengotinib monotherapy was well-tolerated and safety-manageable in Chinese pts and 10 mg QD was selected as RP2D.
- Encouraging efficacy of tinengotinib monotherapy was observed in pts with heavily pre-treated solid tumors, especially in CCA pts harboring FGFR2 alteration with prior treatment of FGFR targeted therapy.
- Breakthrough Therapy designation was granted for tinengotinib in CCA indication in China.
- A phase II and a phase III pivotal study are initiated to further evaluate the efficacy and safety of tinengotinib in patients with FGFR2-altered refractory/relapsed CCA in China (CTR20232860) and globally (NCT05948475).

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- Employment: TransThera Sciences (US), Inc. TransThera Sciences (Nanjing), Inc.
- Leadership: TransThera Sciences (US), Inc. TransThera Sciences (Nanjing), Inc.
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