

Sitravatinib in Combination with Nivolumab Demonstrates Clinical Activity in Checkpoint Inhibitor-Naïve, Platinum-Experienced Patients with Advanced or Metastatic Urothelial Carcinoma (a/mUC)

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The Presenter has the Following Relationships to this Presentation:

Advisory Boards / Honoraria:

Mirati Therapeutics, Bristol-Myers Squibb, Exelixis

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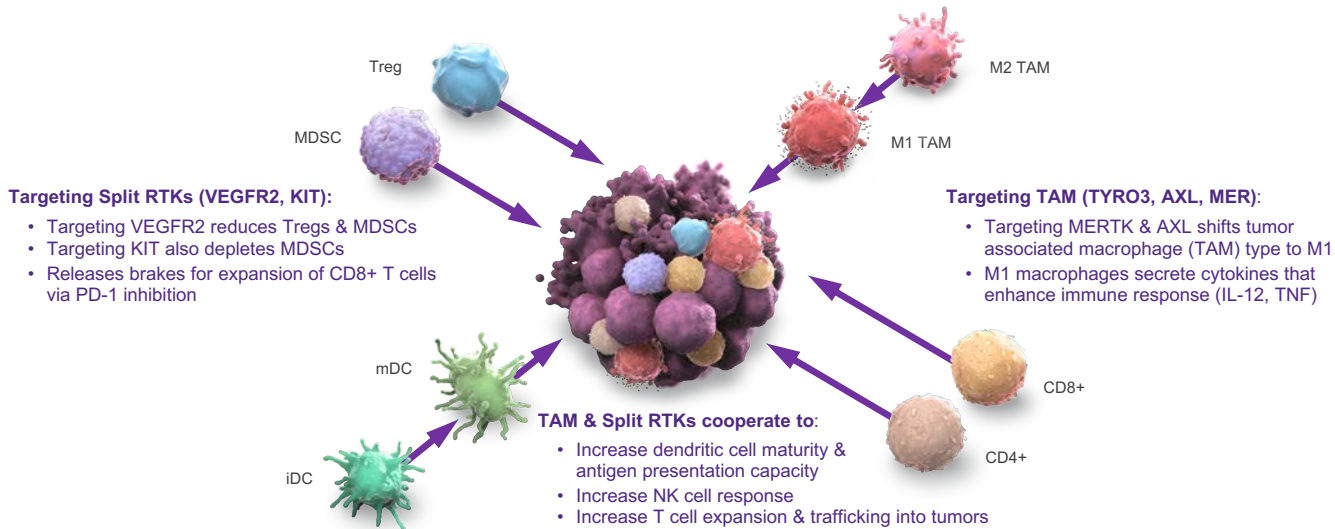
Exelixis, Pfizer

Clinical Trials with Grant Support:

Mirati Therapeutics, Bristol-Myers Squibb, Takeda Pharmaceutical Company

There will be discussion about the use of products for non-FDA approved indications in this presentation

Sitravatinib Inhibits TAM, VEGFR2, and KIT Receptors and May Augment Immune Response



Study 516-003: Open-Label Phase 2 Trial of Sitravatinib and PD-(L)1 CPIs in Urothelial Carcinoma

Key Eligibility Criteria N = 360

- Metastatic or unresectable, locally-advanced urothelial (transitional cell) carcinoma
- No uncontrolled brain metastases
- Either prior treatment with or ineligible for platinum-based chemotherapy (see cohorts)
- Either progression on or following PD-(L)1 CPI or CPI-naïve (see cohorts)

Previously Treated with PD-(L)1 CPI

Previously Treated with PD-(L)1 CPI and Other IO*

PD-(L)1 CPI Naïve

Previously Treated with PD-(L)1 CPI and ADC

Cohorts

Cohort 1 Platinum Treated

Cohort 2 Platinum Ineligible

Cohort 3 Platinum Treated

Cohort 4 Platinum Ineligible

Cohort 5 Platinum Treated

Cohort 6 Platinum Ineligible

Cohort 7 Platinum Treated

Cohort 8 Platinum Ineligible

Sitravatinib
120 mg QD
+
Nivolumab
240 mg Q2W or
480 mg Q4W

Start Date: September 11, 2018

Status: Enrolling

Sponsor: Mirati Therapeutics

Outcome Measures

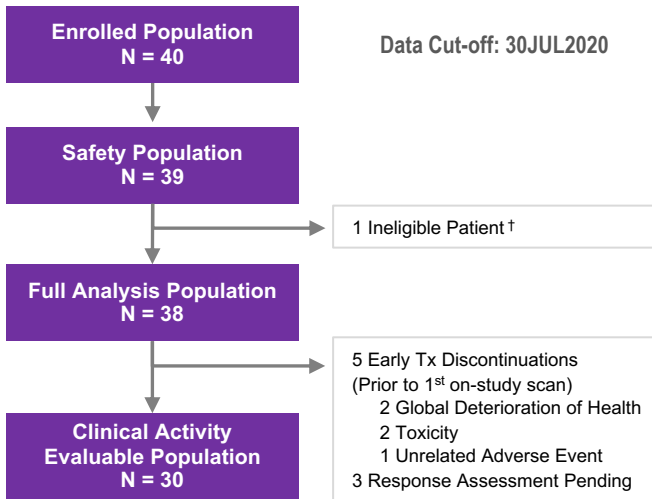
Primary: ORR

Secondary: AEs, CBR, DOR, PFS, OS, PK

Exploratory: Circulating and tissue biomarkers

Sitravatinib + Nivolumab in Plat-Refractory, CPI-Naïve UC

Patient Disposition



† 1 enrolled subject with histologically confirmed mUC was subsequently found to have a concurrent second primary tumor (HCC). The patient was thus excluded from the Full Analysis Population (for efficacy) but included in the Safety Population. The subject experienced Stable Disease as best response on study.

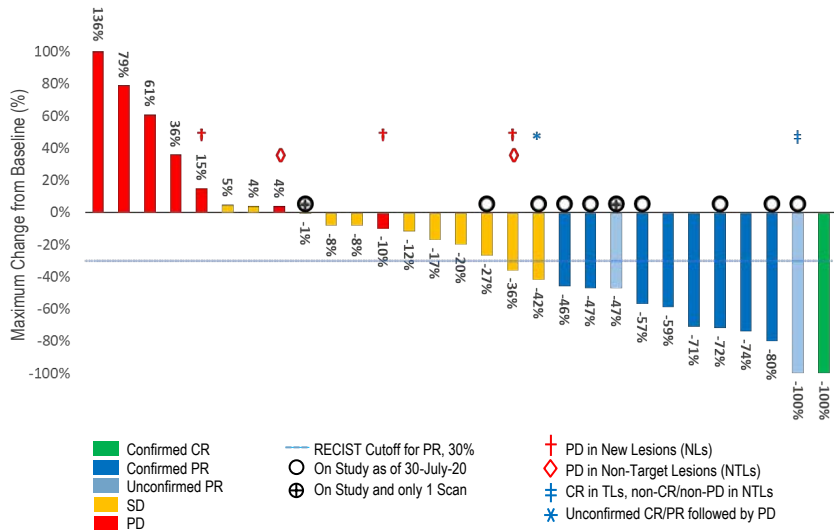
* 1 patient received both prior cisplatin and carboplatin

Demographics and Disease Characteristics

Safety Population, N		39
Age (years)	Median (range)	66 (38, 81)
Gender, n (%)	Male	30 (77)
	Female	9 (23)
Race, n (%)	Caucasian	34 (87)
	Other	5 (13)
ECOG PS, n (%)	0	20 (51)
	1	17 (44)
	Missing	2 (5)
Prior Platinum, n (%)	Cisplatin*	38 (97)
	Carboplatin*	2 (5)
Disease Stage – Screening, n (%)	Metastatic	38 (97)
	Advanced Unresectable	1 (3)
Disease Sites – Screening, n (%)	Lymph Node only	4 (10)
	Visceral Disease	35 (90)
	Including Liver	14 (36)
Bellmunt Score, n (%)	≥2 adverse factors	11 (28)
	Missing	2 (5)

Sitravatinib + Nivolumab in Plat-Refractory, CPI-Naïve UC

Maximal Target Lesion Reduction and Objective Response per Investigator by RECIST v1.1

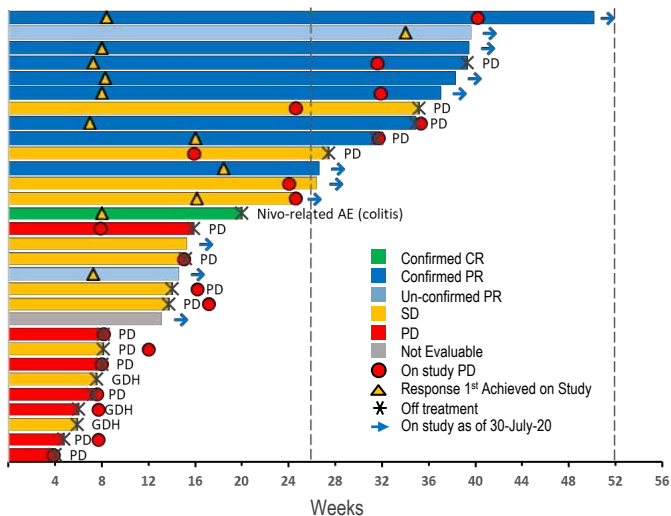


Clinical Activity Evaluable, N	30
Objective Response Rate*, n (%)	11 (37)
Best Overall Response, n (%)	
Complete Response Confirmed	1 (3)
Partial Response Confirmed Unconfirmed*	8 (27) 2 (7)
Stable Disease	11 (37)
Progressive Disease	7 (23)
Not Evaluable**	1 (3)
Clinical Benefit Rate (CR/PR/SD)	22 (73)

* 2 unconfirmed PRs have since confirmed as PRs on post-cutoff scans;
 ** Best overall response for 1 subject is Not Evaluable due to imaging quality (patient remains on study)

Sitravatinib + Nivolumab in Plat-Refractory, CPI-Naïve UC

Treatment Duration and Preliminary Secondary Efficacy Endpoints



Full Analysis Population, N	38
Follow Up (months), median	8.7
PFS (months), median (95% CI) Events, n	4.0 (1.9, 7.3) 25
OS (months), median (95% CI) Events, n	9.2 (5.1, 11.6) 15
Confirmed Responders (CR/PR), N	9
DOR (months), median (95% CI) Events, n	5.6 (3.7, 7.3) 5

DOR = Duration of Response; GDH = Global Deterioration of Health; OS = Overall Survival; PD = Progressive Disease; PFS = Progression-Free Survival

516-003: Sitravatinib and Nivolumab Safety in UC

Most Frequent (≥20%) Related Treatment-Emergent AEs (Sitravatinib and/or Nivolumab)

Adverse Event (Preferred Term)	Safety Population (N = 39 in Cohort 5) – (N = 151 in Sitravatinib + Nivolumab Cohorts 1-8)			
	Cohort 5 All Grades n (%)	Cohorts 1-8 All Grades n (%)	Cohort 5 Grade 3/4 n (%)	Cohorts 1-8 Grade 3/4 n (%)
Fatigue	21 (54%)	85 (56%)	2 (5%)	12 (8%)
Diarrhea	17 (44%)	72 (48%)	3 (8%)	13 (9%)
Decreased appetite	17 (44%)	62 (41%)	0	0
Dysphonia	14 (36%)	54 (36%)	1 (3%)	1 (1%)
Alanine aminotransferase increased	14 (36%)	41 (27%)	1 (3%)	3 (2%)
Hypertension	11 (28%)	42 (28%)	5 (13%)	27 (18%)
Nausea	9 (23%)	45 (30%)	0	2 (1%)
Hypothyroidism	9 (23%)	36 (24%)	0	0
Palmar-plantar erythrodysesthesia syndrome	9 (23%)	32 (21%)	1 (3%)	3 (2%)
Aspartate aminotransferase increased	9 (23%)	32 (21%)	0	1 (1%)

No treatment-related Grade 5 AEs were reported

4 (10%) subjects discontinued treatment due to AEs: pulmonary embolism/hyperthyroidism (both), skin rash/skin burning sensation (sitra), colitis (nivo), acidosis (unrelated)

Summary and Conclusion

Sitravatinib and Nivolumab in CPI-Naïve Platinum-Refractory Urothelial Carcinoma

- Sitravatinib + nivolumab showed promising clinical activity in CPI-naïve, platinum-refractory UC
 - Consistent with previously presented activity in platinum- and CPI-refractory UC *
- ORR with combination was higher than with either monotherapy in this setting †
 - Secondary efficacy continue to mature
- Acceptable toxicity profile with manageable AEs
- Sitravatinib + nivolumab is a rational approach to augmenting the clinical activity of PD-(L)1 CPIs in patients with CPI-naïve, platinum-refractory UC
- The trial (NCT03606174) is ongoing at 26 sites in the US

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