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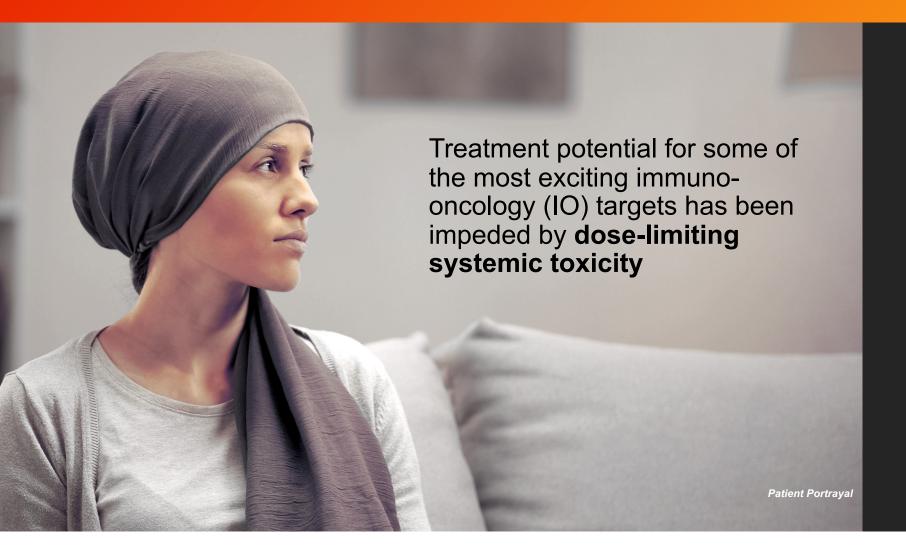


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- Introduction
- XTX101 (tumor-activated anti-CTLA-4)
- XTX202 (tumor-activated IL-2)
- Closing Remarks
- Q&A



Immuno-Oncology Therapy has Curative Potential

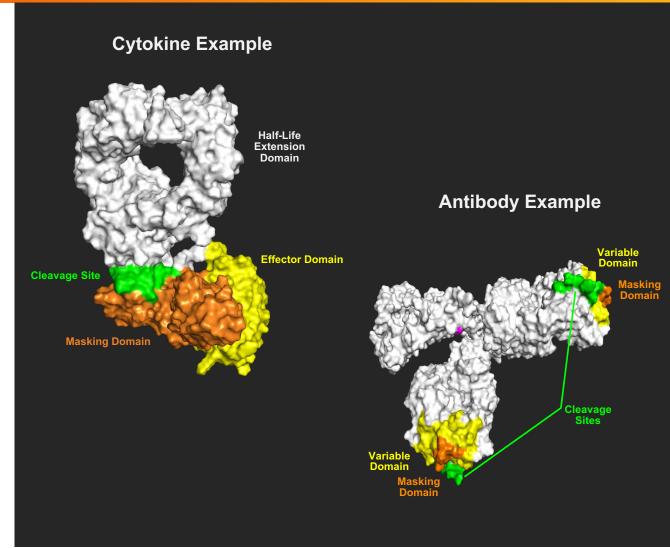


Xilio (ex-il-ee-oh) believes the next revolution in IO cancer therapies will trick tumors into activating their own treatments, while simultaneously sparing healthy tissues and cells, by leveraging dysregulated matrix metalloproteases (MMPs)



Xilio's Molecules are Activated by Dysregulated MMPs in Tumors

- Novel design to outsmart tumors using tumor growth activity against itself
- Dysregulated MMPs in the tumor activate a switch in molecules to unleash active agent inside tumor microenvironment (TME)
- Molecules designed for tumor-selectivity with a masking domain that seeks to minimize interaction with healthy tissue and cells
- Initial clinical validation in Phase 1 clinical trials with over 100 patients treated to date across programs





3 Tumor-Activated Programs in Clinical Development

Program	Tumor Types	Mechanism of Action	Discovery	IND-Enabling	Phase 1	Phase 2	Phase 3
XTX101 in combination with atezolizumab ⁽¹⁾	Advanced MSS CRC	Anti-CTLA-4 + PD-L1				Advancing under co- clinical collaboration wi	
XTX202 ⁽²⁾	Advanced RCC and Melanoma	IL-2βγ					
XTX301 ⁽³⁾	Advanced Solid Tumors	IL-12					
Bispecific	Advanced Solid Tumors	PD-1/IL-2 fusion					



Xilio plans to evaluate XTX101 in combination with atezolizumab (Tecentriq®) in a Phase 1/2 clinical trial under a clinical trial collaboration with Roche. The Phase 1 portion is designed to assess the safety and tolerability of the combination in dose escalation in patients with advanced solid tumors, and the planned Phase 2 portion is designed to assess the safety and efficacy of the combination in patients with MSS CRC.
 Initially evaluating XTX202 as a monotherapy in patients with unresectable or metastatic melanoma and metastatic RCC.
 Initially plan to evaluate XTX301 as a monotherapy for the treatment of advanced solid tumors.
 MSS CRC: microsatellite stable colorectal cancer; RCC: renal cell carcinoma.

Opportunity for XTX101 in MSS CRC

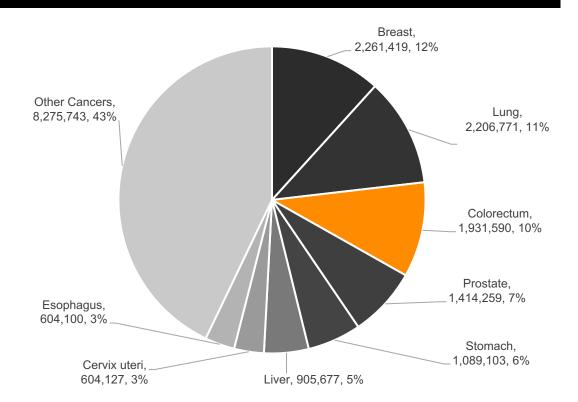
Pursuing XTX101 in Combination with Atezolizumab in MSS CRC



Colorectal Cancer is 3rd in Total Annual New Cases Globally

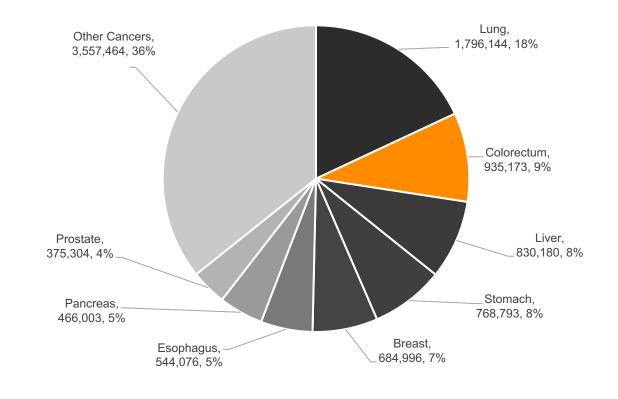
Number of new cases in 2020

(Global, both sexes, all ages)



Number of deaths in 2020

(Global, both sexes, all ages)





In US, CRC is Leading Cause of Cancer Related Deaths in Men Younger Than 50, With Majority of All Patients Diagnosed at Stage 4

- Over 150,000 patients diagnosed annually, with ~60% anticipated to have Stage 4 disease at diagnosis (1)
- CRC ranks second in cancer-related deaths (52,550 deaths projected in 2023) and is leading cause of cancer-related death in men younger than 50 ⁽¹⁾
- Majority of patients diagnosed with metastatic disease (~60%) are not eligible for surgery and primary treatment includes chemotherapy and/or radiation (2)
- Only 2-4% of Stage 4 patients classified as MSI-H are eligible for treatment with immunotherapy, and a subset of these quickly develop immune resistance (3)





^{1.} Siegel et al, Colorectal Cancer Statistics, (2023)

MSI-H: microsatellite instability-high.

^{2.} Cerner Enviza, CancerMPact® Treatment Architecture (2022). 3. Weng et al, Journal of Hematology & Oncology, (2022).

Vast Majority of Metastatic Colorectal Cancer is MSS CRC with No. **Approved IO Treatment Options**

~85,000 patients with Stage 4 MSS CRC in the US alone have no IO options available to treat their disease

US patients projected to be diagnosed with CRC in 2023 (1)

~150,000

~60% of patients will be diagnosed with Stage 4 disease (1)

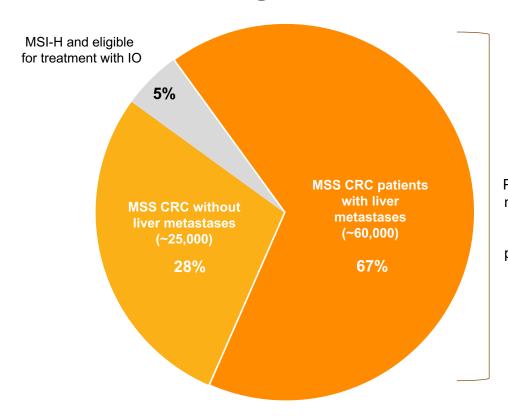
~90,000

~95% of Stage 4 disease is MSS CRC (2)

~85,000

~70% of patients with Stage 4 disease ~60.000 develop liver metastases (3)

US Stage 4 Patients



Patients with liver metastases often excluded from clinical trials, particularly for IO



^{2.} Ooki et al, Journal of Anus Rectum Colon, (2021)

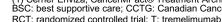
Historically, IO Therapies Have Shown Little to No Efficacy in MSS CRC

Checkpoint inhibitors showed 0-3% ORR in MSS CRC (alone or in combination with "first gen" anti-CTLA-4 molecules) 1L and 2L treatment today continues to rely primarily on bevacizumab + FOLFOX / FOLFIRI (1)

	Microsatellite Instability Status	Dose / Regimen	ORR, % (Number of Patients/ Total Cohort)	DCR, % (Number of Patients/Total Cohort)	Median PFS, Mo	Median OS, Mo
KEYNOTE-016 ; phase II, parallel cohorts; pembrolizumab NCT01876511	Cohort B: 18 patients with MSS CRC	Pembrolizumab, 10 mg/kg every 2 weeks	0 (0/18)	11 (2/18)	2.2	5
CheckMate-142; phase II, multi-cohorts; nivolumab with or without ipilimumab NCT02060188	23 patients with non–MSI-H CRC included	Nivolumab, 1 or 3 mg/ kg every 3 weeks + ipilimumab, 1 or 3 mg/kg every 3 weeks*	N/A	N/A	1.4	N/A
CCTG CO.26; phase II RCT of	119 patients in D+T arm: 98% MSS; 1% MSI-H; 1% unknown	Durvalumab, 1,500 mg every 4 weeks +	1 (1/119)	22.7 (27/119)	1.8	6.6
D+T+BSC vs. BSC NCT02870920	61 patients in BSC arm: 80% MSS; 2% MSI-H; 18% unknown	tremelimumab, 75 mg every 4 weeks (only 4 cycles)	0 (0/61)	6.6 (4/61)	1.9	4.1**
IMblaze-370; phase III open-label RCT of		Atezolizumab, 1,200 mg every 3 weeks	2 (2/90)	21 (19/90)	1.9***	7.1***
atezolizumab vs. regorafenib	90 patients in atezolizumab arm: 92% MSS; 3% MSI-H; 4% unknown	Regorafenib, 160 mg daily, 21 days on/ 7 days off	2 (2/90)	34 (31/90)	2.0	8.5
cobimetinib NCT02788279	32 /0 IVIOO, 3 /0 IVIOI-FI, 4 /0 UIINIIUWII	Atezolizumab, 840 mg every 2 weeks + cobimetinib, 60 mg daily, 21 days on 7 days off	3 (5/183)	26 (48/183)	1.9	8.9

Adapted from Sahin et al, 2022 ASCO Educational Book.

^{****} Atezolizumab + cobimetinib vs. regorafenib: HR, 1.00; 95% Cl, 0.73–1.38; p 5 .99; atezolizumab vs. regorafenib: HR, 1.19; 95% Cl, 0.83–1.71; p 5 .34. BŚC: best supportive care; CCTG: Canadian Cancer Trials Group; DCR, disease control rate; D: durvalumab; D1T: durvalumab and tremelimumab; mo: month; ORR: overall response rate; OS: overall survival; PFS: progression free survival;



^{*} Three patients were given nivolumab, 1 mg/kg 1 ipilimumab, 1 mg/kg; 10 patients each were given nivolumab, 1 mg/kg 1 ipilimumab, 3 mg/kg or nivolumab, 3 mg/kg 1 ipilimumab, 1 mg/kg. 1 mg/kg 1 ipilimumab, 3 mg/kg or nivolumab, 3 mg/kg 1 ipilimumab, 1 mg/kg. 1 mg/kg 1 ipilimumab, 3 mg/kg or nivolumab, 3 mg/kg 1 ipilimumab, 1 mg/kg. 1 mg/kg. 1 mg/kg 1 ipilimumab, 3 mg/kg 1 ipilimumab, 1 mg/kg. 1 m

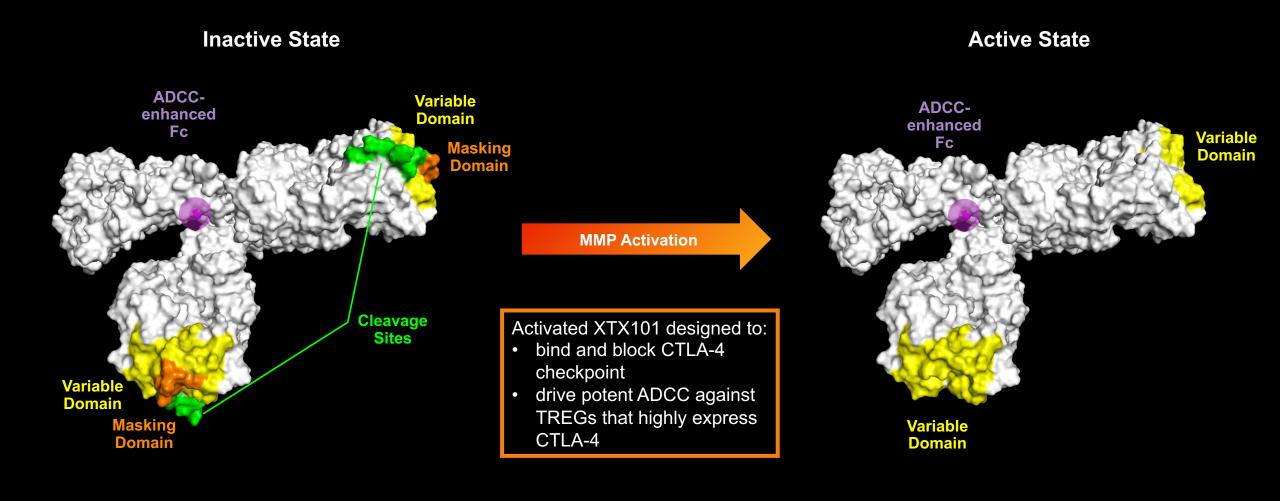
^{***} Atezolizumab + cobimetinib vs. regorafenib: HR, 1.25; 95% CI, 0.94–1.65; atezolizumab vs. regorafenib: HR, 1.39; 95% CI, 1.00–1.94.

XTX101

Tumor-Activated, Fc-enhanced Anti-CTLA-4



XTX101: Tumor-Activated, High Affinity Binding, Fc-Enhanced Anti-CTLA-4



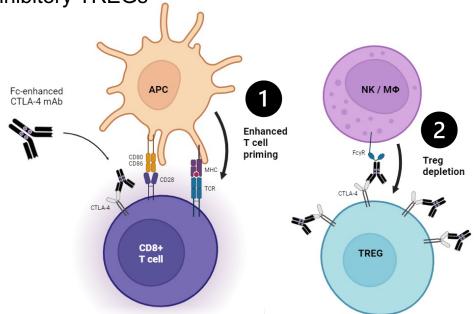


Next Generation Anti-CTLA-4 with Fc-Enhancement Demonstrated Potential to Treat MSS CRC and Other Hard to Treat Tumors

Fc-Enhancement to Achieve TREG Depletion

Dual mechanism designed to boost de-novo immunity and combat immune suppression

- CTLA-4 blockade to stimulate immune priming and enhance co-stimulation
- Fc-enhancement to induce efficient depletion of inhibitory TREGs



Clinical Evidence

 Phase 1 data for third party Fc-enhanced anti-CTLA-4 in combination with a PD-1 in patients with MSS CRC demonstrated ORR >20% in MSS CRC patients (1)

Other responses include:

- Endometrial
- Pancreatic
- Cervical
- Melanoma

- Ovarian
- NSCLC
- Visceral angiosarcoma
- Leiomyosarcoma ⁽²⁾



^{1.} Phase 1 data reported by Agenus Inc. on January 21, 2023, at ASCO GI Symposium for botensilimab (AGEN1181) in combination with a balstilimab in MSS CRC patients previously treated with chemotherapy and/or with immunotherapy-resistant tumors.

2. Phase 1 data reported by Agenus Inc on November 11, 2021 at SITC (poster), "AGEN 1181, an Fc-enhanced anti-CTLA-4 antibody, alone and in combination with balstilimab (anti-PD-1) in patients with advanced solid tumors: Phase 1 results"

3. Safety data presented as all TRAEs in > 15% of the ITT population (n=101)

XTX101 Clinical Data

Phase 1: Advanced Solid Tumors



Patient Demographics: XTX101 Phase 1 Trial With a Wide Range of Advanced/Refractory Solid Tumors

XTX101 Phase 1 Trial Design

Enrollment Completed

Phase 1A Monotherapy Dose-Escalation Advanced Solid Tumors (n=20 dosed)

Phase 1B Monotherapy Expansion PD (2) (n=9 dosed)

Ongoing

Current dose level: 150 mg Q6W

Patient Characteristics	Total (N=27) ⁽¹⁾
Demographics	
Age, median (range)	67 (49, 80)
Female	15 (56%)
ECOG PS 0	7 (26%)
ECOG PS 1	20 (74%)
Prior Lines of Anti- Cancer Treatment	Median 4 (1-12)
1	2 (7%)
2	4 (15%)
3	6 (22%)
4	7 (26%)
5	3 (11%)
6 and more	5 (19%)
Progressed on Prior Tre	eatment with IO
≥1	12 (44%)

Tumor Types	Total (N=27) ⁽¹⁾
Colorectal	6
NSCLC	4
Pancreatic	3
Squamous cell skin	2
Breast	2
Uterine	2
Merkel cell carcinoma	2
Melanoma	1
Cervical	1
Prostate	1
Gastric	1
Fallopian tube cancer	1
Leiomyosarcoma	1

Treatment Status	Total (N=27) ⁽¹⁾
Continuing on Treatment	3
Discontinued Treatment	24
Progressive Disease	14
Adverse Events	4
Consent Withdrawal (Hospice)	3
Death Due to Progressive Disease	1
Other	2

- 78% of patients had 3 or more prior lines of treatment
- 44% of patients progressed on prior IO treatment



Data cutoff date: August 3, 2023. 29 patients have been dosed across all dose levels, including 20 patients dosed in Phase 1A and 9 patients dosed in Phase 1B. 1. Among the 29 patients dosed, data was not available for two patients as of the data cutoff date.

^{2.} Eligible histology includes, but is not limited to, the following: melanoma, squamous cell skin cancer, NSCLC, head and neck squamous cell carcinoma, esophageal squamous cell carcinoma, RCC, urothelial carcinoma, MSS instability-high/mismatch repair deficient colorectal or endometrial cancer, cervical cancer, TNBC and mesothelioma.

Patients on XTX101 150mg Q6W Experienced Minimal TRAEs

- No treatment discontinuations due to TRAEs at RP2D
- No Grade 4 or 5 TRAEs at any dose level
- Repeat dosing at RP2D up to 7 cycles (Q6W, 42 weeks)

AE Category / Term		Q3W (7-180 mg) :18)	RP2D 150 mg Q6W (n=9)		
All TRAEs with ≥10% incidence in any category	Any	Grade 3	Any	Grade 3	
Diarrhea or Colitis	7 (39%)	4 (22%)	1 (11%)	1 (11%)	
Diarrhea	5 (28%)	1 (6.0)	1 (11%)	1 (11%) ⁽¹⁾	
Colitis	5 (28%)	4 (22.0)	0	0	
Nausea	3 (17%)	0	0	0	
Vomiting	3 (17%)	0	0	0	
Abdominal pain	2 (11%)	0	0	0	
Infusion related reaction (2)	5 (28%)	3 (17%)	0	0	
Fatigue	1 (6%)	0	1 (11%)	0	
Decreased appetite	1 (6%)	0	1 (11%)	0	
Dermatitis	0	0	1 (11%)	1 (11%)	
Dose reduction due to AE		3	,	1	
Treatment discontinuation due to TRAE (3)	4	4	()	



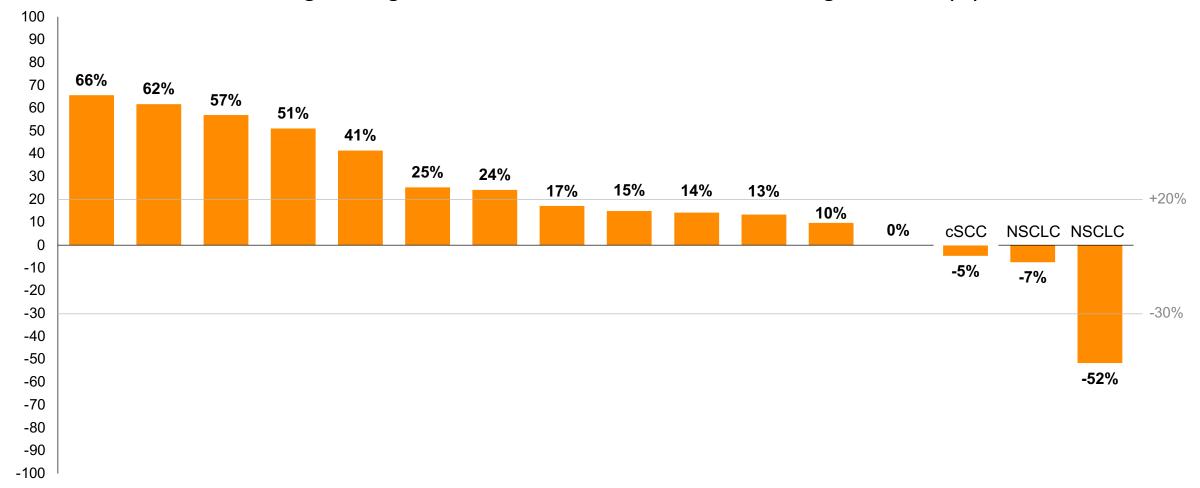
Data cutoff date: August 3, 2023. As of the data cutoff date, safety data were available for 27 patients across all dose levels, including 20 patients dosed in Phase 1A and 7 patients dosed in Phase 1B.

^{1.} Grade 3 diarrhea with onset 10 weeks after the start of treatment (after 2 doses), resolved within 5 days without steroid use, patient tolerated 2 additional XTX101 doses after dose reduction (to 75 mg Q6W) without any symptom recurrence 2. Infusion related reactions associated with antidrug antibodies (ADA).

TRAE: treatment-related adverse event; RP2D: recommended Phase 2 dose; Q3W: once every three weeks.

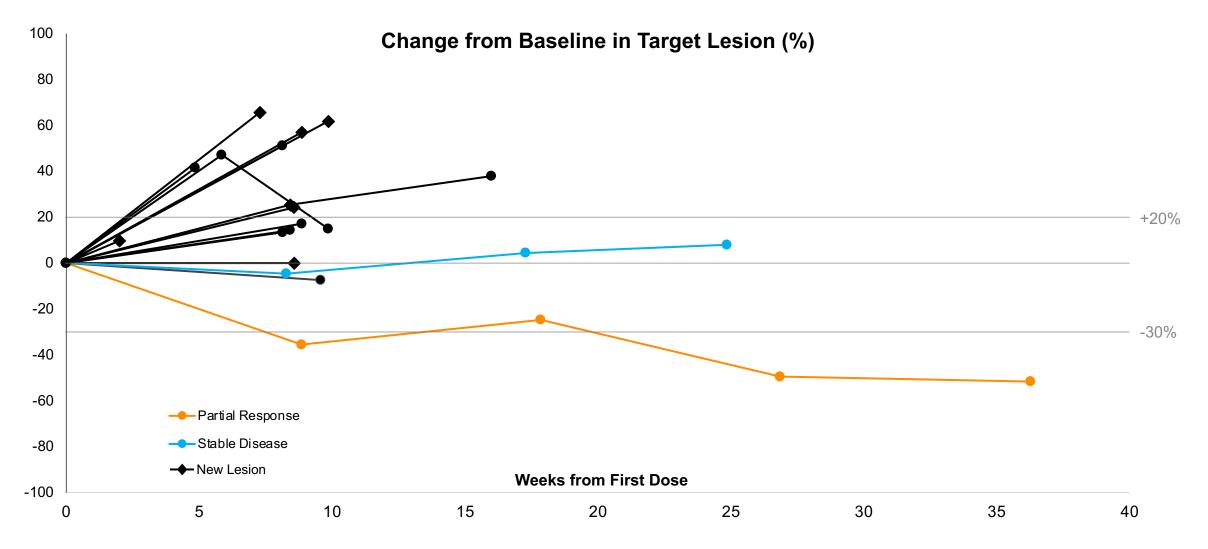
XTX101 Monotherapy Demonstrated Evidence of Anti-Tumor Activity in Phase 1 Trial

Best Percentage Change in Sum of Diameter from Baseline in Target Lesions (%)





XTX101 Monotherapy Demonstrated Durable Partial Response in a Patient with PD-L1 Negative NSCLC and Innumerable Hepatic Metastases





Confirmed Partial Response (PR) in a Patient with PD-L1 Negative NSCLC and Innumerable Hepatic Metastases on XTX101 Monotherapy

Patient: 66-year-old, female

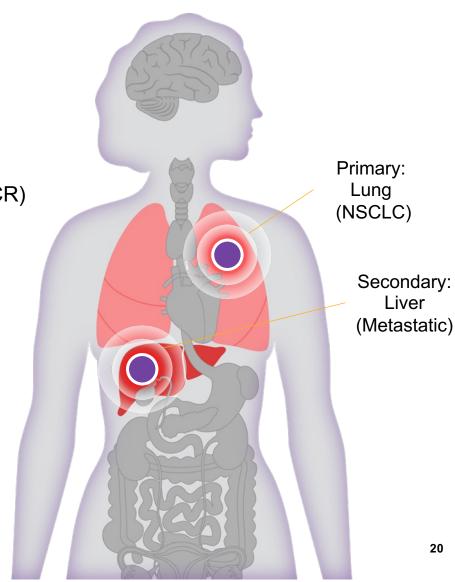
Diagnosis: Stage 4 NSCLC, PD-L1 negative

Previous Treatment: 4 cycles of paclitaxel and carboplatin (non-durable CR)

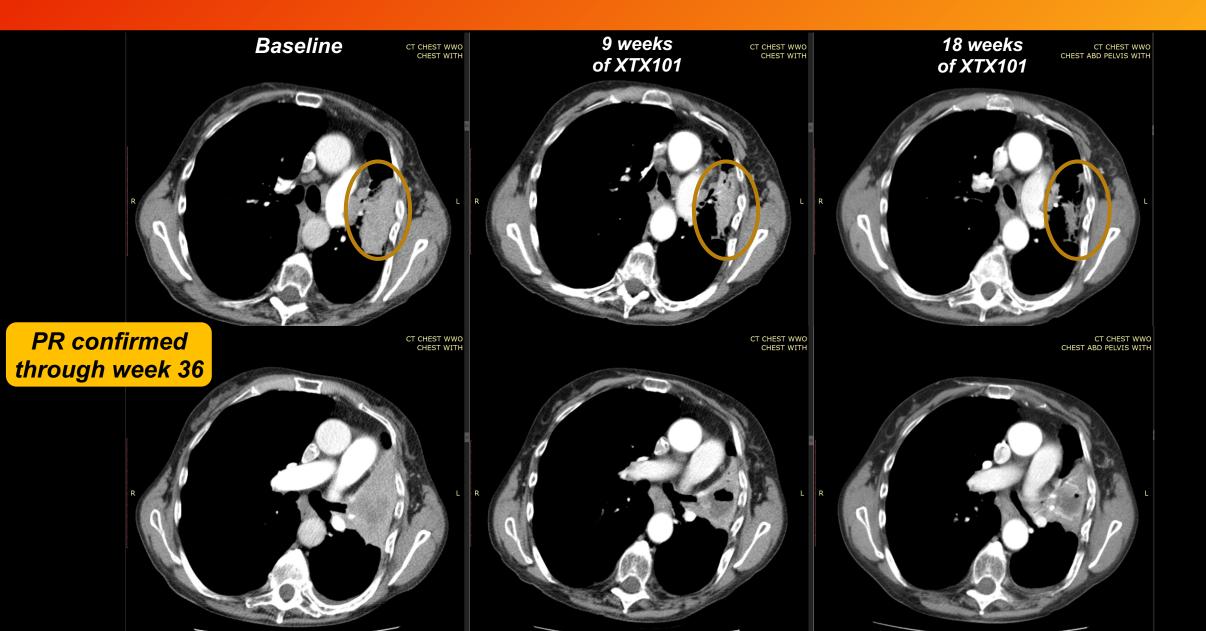
XTX101 Treatment: 150mg Q6W, 7 doses administered

Related AE: Grade 1 fatigue (only)

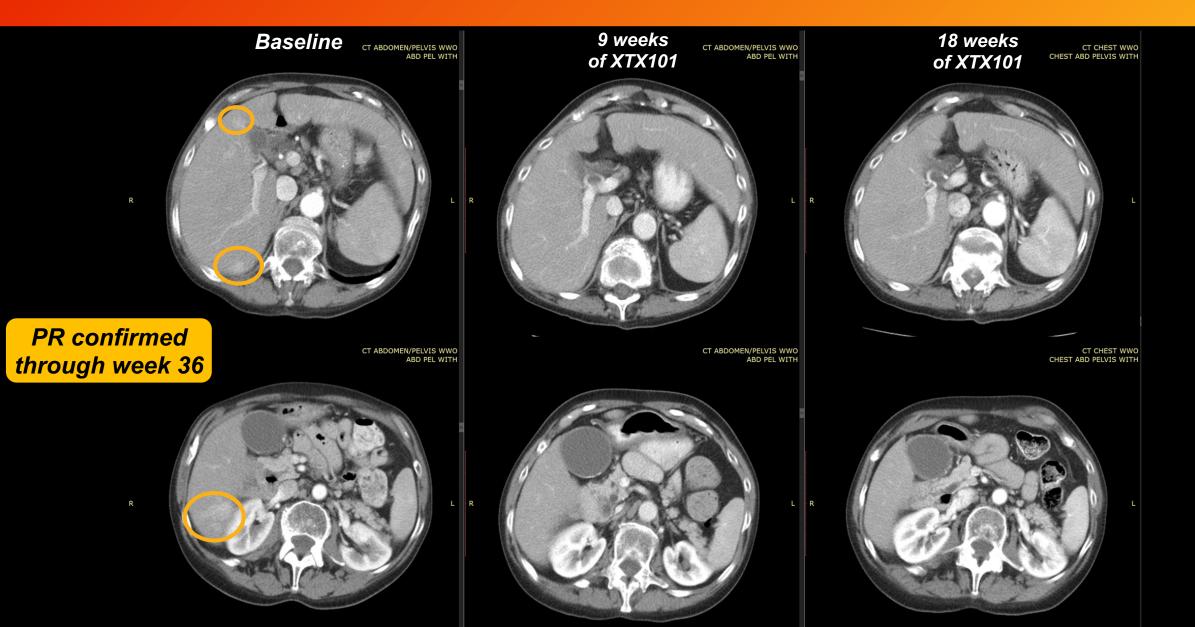
Confirmed PR through week 36



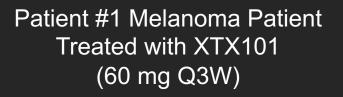
Primary Lung Lesion Decreased in Size and Developed Cavitation

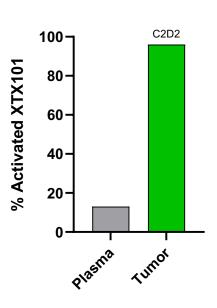


Hepatic Metastases Resolved At Initial Imaging on XTX101 Monotherapy



XTX101 On-Treatment Patient Biopsies Demonstrated >70% Activated Molecule in Tumor vs 13% Activated Molecule in Plasma



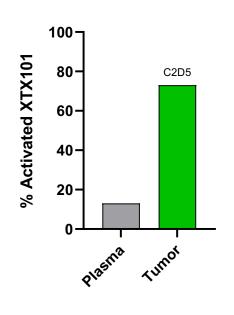


96% Activated Molecule in Tumor (metastatic lesion on calf)

VS.

13% Activated Molecule in Plasma*

Patient #2 Colorectal Cancer Patient Treated with XTX101 (60 mg Q3W)



73% Activated Molecule in Tumor (metastatic lesion in liver)

VS.

13% Activated Molecule in Plasma*



PK: pharmacokinetic:

XTX101 Advancing under Co-Funded Clinical Collaboration: Anticipate Initiating Combination with Atezolizumab in Q1 2024

Phase 1 Dose Escalation

XTX101 + Atezolizumab (n = ~12)

- All comers, advanced solid tumors
- Plan to evaluate two dose levels
- Starting XTX101 dose: 75 mg Q6W

Anticipated Milestones

- Sites active in Q4 2023
- FPI in Q1 2024
- Select RP2D in Q2 2024*

Stage 4 MSS CRC 2L+

Phase 2 Proof-of-Concept

XTX101 + Atezolizumab (n= ~40)

MSS CRC With and Without Liver
Metastases

Anticipated Milestones

- FPI in Q3 2024*
- Initial data (n = ~20) in Q4 2024*
- Additional data (n = ~40) in Q1 2025*

Potential Pivotal Phase 2 Trial

XTX101 + Atezolizumab

(n=~200 patients: ~160 Phase 2 randomized patients + ~40 initial Phase 2 patients)

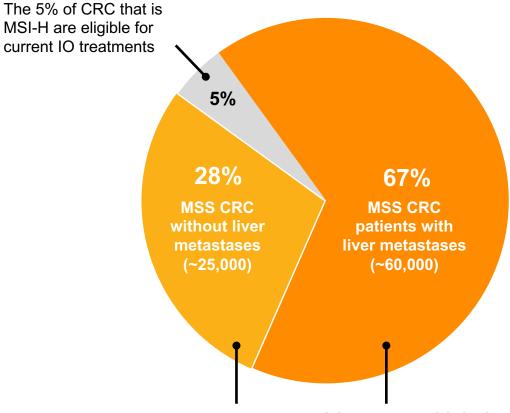
With and Without Liver Metastases

- Potential for accelerated approval pathway
- Monotherapy cohorts (to demonstrate contribution of components) and/or standard-of-care comparator arm (if required) can have early stopping rules



XTX101 Clinical Development Pursuing Significant Unmet Need in MSS CRC Patients With and Without Liver Metastases

US Stage 4 Patients



Xilio planned Phase 2 POC will enroll MSS CRC patients with and without liver metastases

Liver metastases are highly proteolytic environment (1)

Demonstrated molecule activation > 70% in liver lesion of CRC patient

Fc-enhancement of anti-CTLA-4 may increase potential for efficacy against liver metastases (2,3)

NSCLC patient treated with XTX101 monotherapy demonstrated durable resolution of liver metastases at initial ontreatment imaging



XTX101 Initial MSS CRC Proof-of-Concept Data Anticipated in 2024*



- Platform validation including monotherapy confirmed PR observed in Phase 1 trial (1)
- Advancing in MSS CRC in combination with atezolizumab under clinical collaboration with Roche
- Combination Phase 2 POC read-outs anticipated (~n=20) in Q4 2024 and (~n=40) Q1 2025*
- Potential to initiate pivotal trial in 2025*

Next Milestone



 Anticipate activating clinical trial sites for Phase 1 dose escalation evaluating XTX101 in combination with atezolizumab in Q4 2023



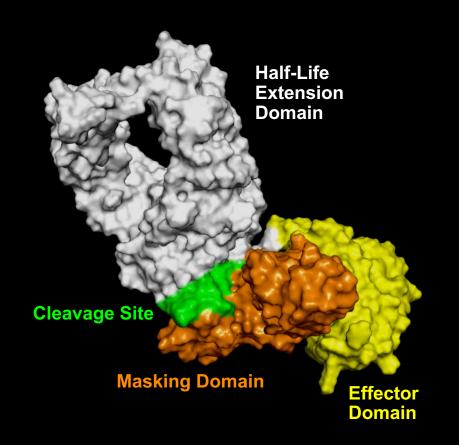
XTX202

Tumor-Activated, Beta-Gamma IL-2



XTX202: Tumor-Activated, Beta-Gamma IL-2 Designed to Overcome the Limitations of Systemically Active Molecules

Inactive State

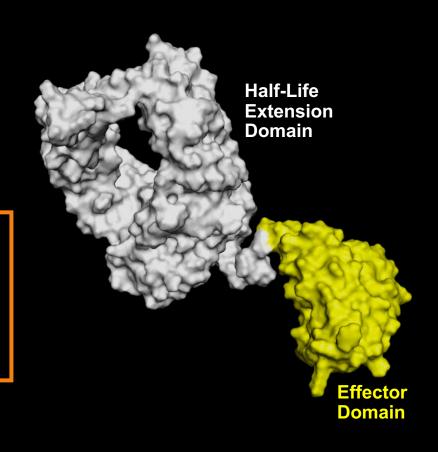


Active State

MMP Activation

Activated XTX202:

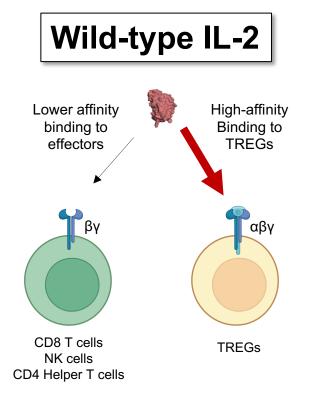
- Beta-gamma IL-2 effector domain designed to minimize TREG activation
- Retains Fc-domain to enable prolonged tumor exposure

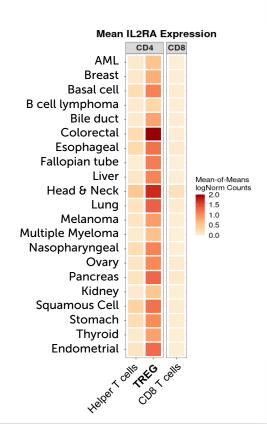




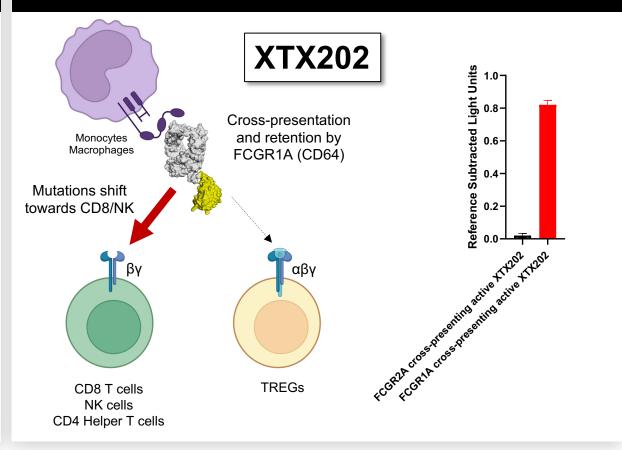
XTX202 Designed to Enable High Tumor Exposure and Cross-Presentation Enhancing IL-2 Receptor Binding Without TREG Stimulation

Wild-type IL-2 has high affinity for alpha-containing IL-2 receptor found primarily on TREGs





XTX202 designed to overcome this limitation with beta gamma bias and retention of Fc domain post-activation





XTX202 Clinical Data

Initial Phase 1 / 2 Data



XTX202 Phase 1/2 Patient Demographics: Heavily Pre-Treated and IO Refractory Patients Across a Range of Solid Tumors, Including Cold Tumors

XTX202 Phase 1 Trial Design

Current dose level: 4.0 mg/kg Q3W Phase 1A Monotherapy Dose Escalation Advanced Solid Tumors

Phase 1B Monotherapy PD Cohort "Hot Tumors"

XTX202 Phase 2 Trial Design

Dose level 1: 1.4 mg/kg Q3W

Dose level 2: 4.0 mg/kg Q3W Phase 2A Monotherapy Expansion RCC Cohort

Phase 2B Monotherapy Expansion Melanoma Cohort

	Phase 1	Phase 2
Patient Characteristics	Total (N=54)	Total (N=8)
Demographics		
Age, median (range)	67 (25, 82)	62 (33, 74)
Female	20 (37%)	2 (25%)
ECOG PS 0	20 (37%)	4 (50%)
ECOG PS 1	34 (63%)	4 (50%)
Prior Lines of Anti- Cancer Treatment	Median 4 (1-14)	Median 3.5 (1-12)
1	5 (9%)	3 (38%)
2	9 (17%)	0
3	7 (13%)	1 (13%)
4	13 (24%)	1 (13%)
5	9 (17%)	0
≥6	11 (20%)	3 (38%)
Prior Treatment with IO		
≥1	37 (69%)	8 (100%)
Time since initial diagnosis (months)	Median 29 (4-147)	Median 50 (12-198)

	Phase 1	Phase 2	
Tumor Types	Total (N=54)*	Total (N=8)	T S
Colorectal	8		c
NSCLC	7		<u></u>
Melanoma	6	6	D T
Sarcoma	5		
Pancreatic	4		
RCC	4	2	
Prostate	3		
Endometrial	2		
Cervical	1		
Esophageal	1		
Ovarian	1		
Other	13		

e 1 Phase al Total 54) (N=8)	ı
54) (N=8)	
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Phase 1

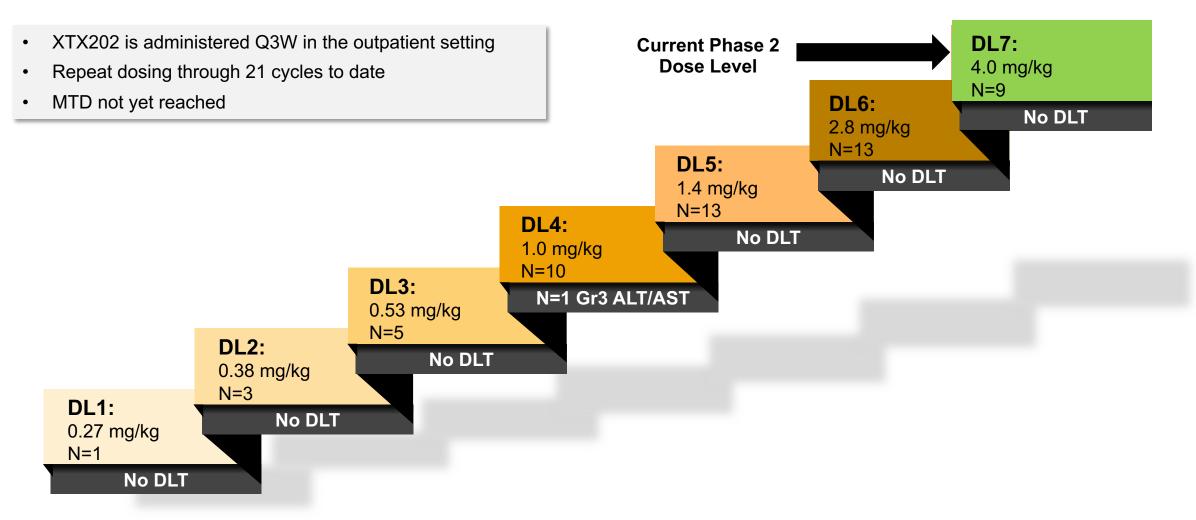
- 54 patients enrolled with a wide range of advanced and IOtreatment refractory solid tumors
- 74% of patients had ≥3 prior lines of anti-cancer treatment
- 69% of patient progressed on prior IO treatment

Phase 2

- 8 patients enrolled (2 RCC and 6 melanoma)
- All progressed on prior IO therapy



No Signs or Symptoms of VLS Observed for XTX202 Through 4.0 mg/kg





XTX202 Generally Well-Tolerated Across Dose Levels TRAEs Primarily Grade 1-2

- No treatment discontinuations due to TRAEs
- Grade 4 TRAEs (n=2) were limited to asymptomatic laboratory abnormalities and transient (<3 days)
- No Grade 5 TRAEs

AE Category / Term TRAEs with ≥10% incidence (any grade)	All dos	se 1 and Phase 2 se levels =62)	All patients Phase 1 and Phase 2 1.4 mg/kg or higher dose level (n=43)		
	Any Grade	Grade ≥3	Any Grade	Grade ≥3	
Fatigue	19% (n=12)	0	16% (n=7)	0	
Pyrexia	18% (n=11)	0	23% (n=10)	0	
Chills	16% (n=10)	2% (n=1)	23% (n=10)	2% (n=1)	
Lymphocyte count decreased	15% (n=9)	8% (n=5)	14% (n=6)	9% (n=4)	
Dose reduction due to TRAE	3% (n=2)		2% (n=1)		
Treatment discontinuation due to TRAE		0	C		



treated with steroids and the AEs resolved.

Tumor-Selective Increases in CD8+ Effector T Cells Observed with XTX202 in Heavily Pre-Treated Patients Across Dose Levels

On-Treatment Tumor Biopsies vs Pre-Treatment Baseline Biopsies Collected at Enrollment

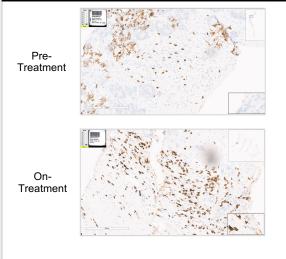
20% Increase in CD8+



RCC patient treated with XTX202 at 1 mg/kg Q3W

- 64M, Stage 4 RCC
- Initial diagnosis June 2016
- 5 prior lines of treatment
- Progressed on IO, multiple prior lines

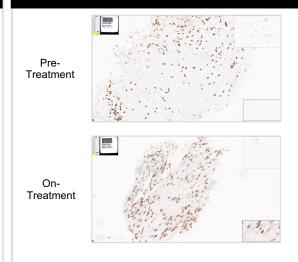
120% Increase in CD8+



Rectal cancer patient treated with XTX202 at 2.8 mg/kg Q3W

- 58F, Stage 4 rectal cancer
- Initial diagnosis August 2021
- 4 prior lines of treatment
- Progressed on IO in 3L

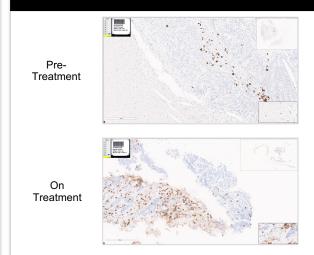
230% Increase in CD8+



Melanoma patient treated with XTX202 at 0.38 mg/kg Q3W

- 51M, Stage 4 melanoma
- Initial diagnosis November 2019
- 4 prior lines of treatment
- Progressed on IO in 2 prior lines

600% Increase in CD8+



RCC patient treated with XTX202 at 0.53 mg/kg Q3W

- 75M, Stage 4 RCC
- Initial diagnosis May 2021
- 5 prior lines of treatment
- Progressed on IO in 1L



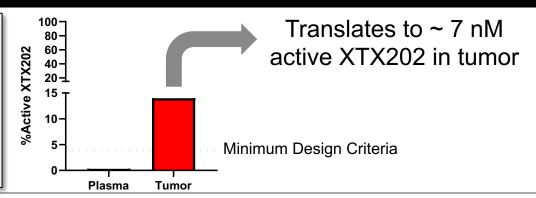
Treatment

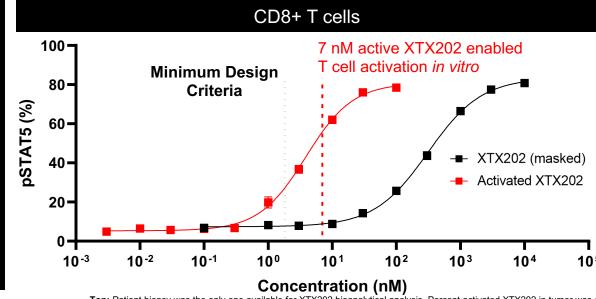
RECLINICAL DATA

XTX202 On-Treatment Biopsy Demonstrated Tumor-Selective Activation

Data suggest minimum of ≥2.8 mg/kg monotherapy doses approaching optimal range to activate CD8+ effector T cells and NK cells in the tumor

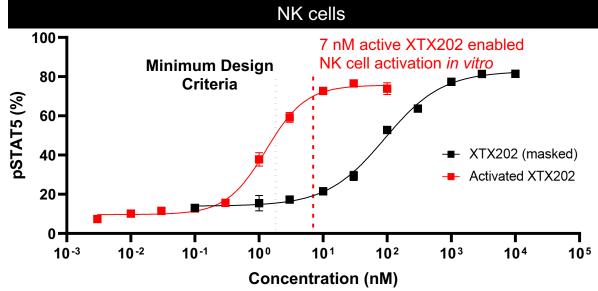
- Patient with leiomyosarcoma treated with XTX202 at 2.8 mg/kg Q3W, tumor specimen collected cycle 2, day 2 (C2D2)
- >40-fold increase of active XTX202 in tumor relative to plasma for patients at 2.8 mg/kg dose level
- Well above minimum design criteria and consistent with range that enabled T cell and NK cell stimulation in preclinical models





biopsy (7 nM) is overlayed as a red vertical dotted line.

nM: nanomolar.

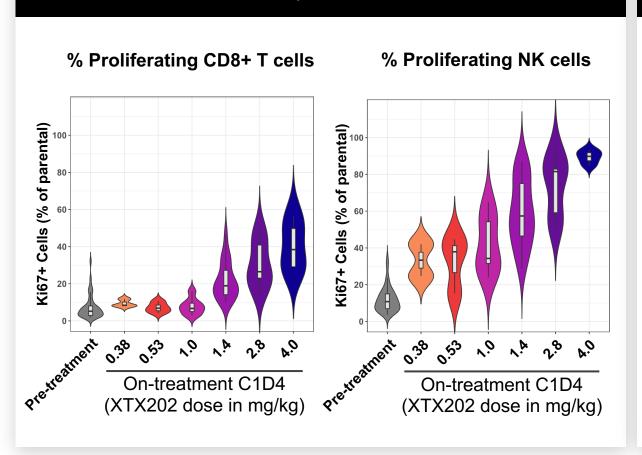




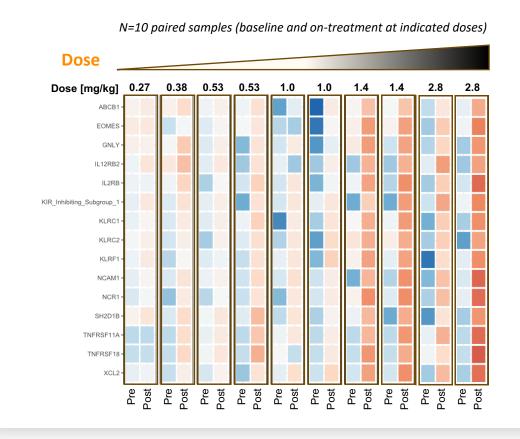
Top: Patient biopsy was the only one available for XTX202 bioanalytical analysis. Percent activated XTX202 in tumor was calculated using raw liquid chromatography / mass spectrometry data. Tumor biopsy specimen was collected C2D2. Percent activated molecule in plasma represents the average for area under the curve (AUC) for Cycle 1 for patients treated at 2.8 mg/kg dose level. **Bottom:** Primary human PBMC were treated with a dose-titration of activated XTX202 (unmasked, red) or XTX202 (masked, black) and pSTAT5 positivity was assessed by FACS. The concentration of active XTX202 detected in the human

XTX202 Demonstrated Dose-Dependent Pharmacology in CD8+ T and NK Cells Consistent with IL-2 Biology

XTX202 Induced CD8+ T and NK Cell Proliferation in a Dose-Dependent Manner



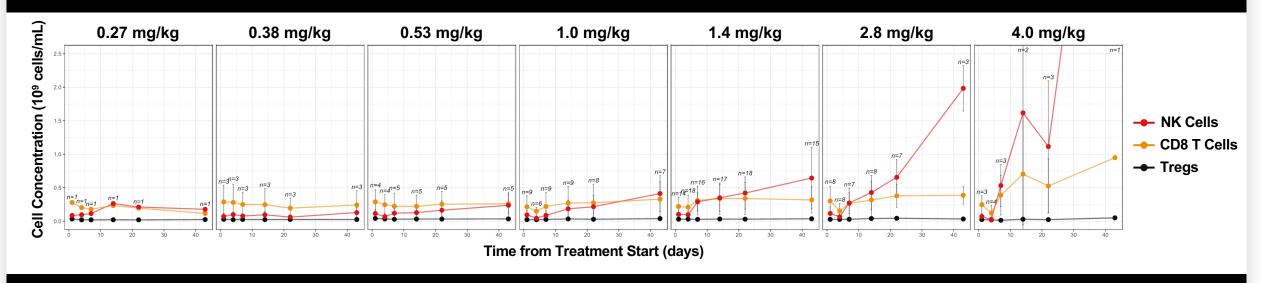
XTX202 Treatment Resulted in Dose-Dependent Upregulation of Key T and NK Cell Markers



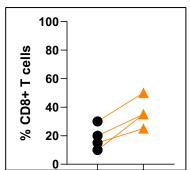


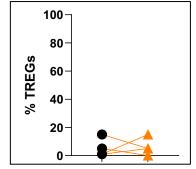
XTX202 Demonstrated Stimulation of CD8+ T and NK Cells Without Expansion of TREGs

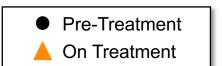
No Peripheral TREG Stimulation Observed at Any Dose Level Consistent with Beta Gamma Biased Design Intent



Intratumoral CD8+ T Cell Increase Observed Without Concomitant TREG Expansion







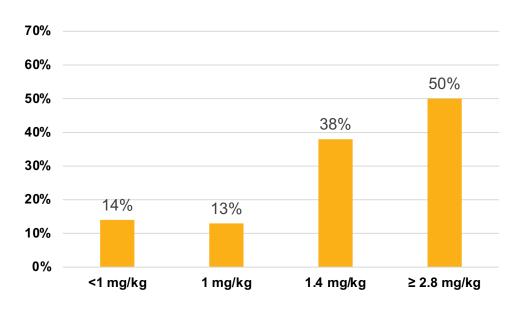


50% DCR Observed at Doses ≥2.8 mg/kg; 31% DCR Observed Across All Dose Levels in a Range of Solid Tumors, Including Cold Tumors

Dose dependent increase in DCR observed through dose level 7 13 patients with SD across all dose levels, with TRAEs primarily Grade 1-2 Two patients ongoing on treatment long-term (> 1 year)

Dose Level (mg/kg)*	# Patients Treated	# EOT Without Response Assessment**	# Ongoing Before 1st Response Assessment	# Response Evaluable (Phase 1 and 2)	# SD for 9+ Weeks as BOR	DCR (% of evaluable)
<1	7	0	0	7	1	14%
1	9	1	0	8	1	13%
1.4	24	1	2	21	8	38%
≥2.8	22	6	10	6	3	50%
All	62	8	12	42	13	31%

DCR (% of evaluable)



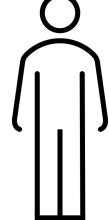
Data cutoff date: October 26, 2023, All dose levels are Q3W outpatient administration, DCR defined as SD or partial response at 9+ weeks. SD (n=13) observed across a range of solid tumors, including cold tumors: melanoma (n=3); renal cell carcinoma (RCC) (n=2); non-small cell lung cancer (n=2); colorectal cancer (n=2); and myoepithelial carcinoma, vaginal cancer, testicular cancer and squamous penile cancer (n=1 each).

^{**4} due to death, 1 consent withdrawal, 1 unrelated AE, 1 poor tolerance and 1 hospice BOR: best overall response; DCR: disease control rate; EOT: end of treatment; SD: stable disease.



^{*}Patients who had a dose increase (n=3) are categorized under the highest received dose level

Patient With MSS CRC Treated with XTX202 > 1 Year, SD at 57 Weeks



68-year-old male with stage IV MSS CRC

Extensive disease with 4 target lesions and 4 areas of non-target lesions in lung and lymph nodes

- Started XTX202 at DL2 (0.53 mg/kg, 12 cycles), DL5 (1.4 mg/kg, 9 cycles)
- No TRAEs reported with 21 cycles of treatment with XTX202

Prior treatment:

- 1L: 10 cycles of FOLFOX
- 2L: SBRT
- 3L: Irinotecan, capecitabine and bevacizumab

On XTX202:

- Long-term Stable Disease (>1 yr)
- Resolution of 75% of non-target lesions (to date)

	Screening	Week 9	Week 18	Week 27	Week 36	Week 45	Week 57
Target lesion 1 – liver lobe (R)	38 mm	46 mm	42 mm	43 mm	48 mm	57 mm	54 mm
Target lesion 2 – liver lobe (L)	27 mm	27 mm	26 mm	26 mm	23 mm	24 mm	24 mm
Target lesion 3 – adrenal gland	14 mm	13 mm	12 mm	12 mm	12 mm	14 mm	13 mm
Sum of diameters	79 mm	86 mm	80 mm	81 mm	83 mm	95 mm	91 mm
Non-target lesions 1,2,3,4	p/p/p/p	p/p/a/a	p/p/a/a	p/p/a/a	p/p/a/a/	p/p/a/a	p/a/a/a
Overall response		SD	SD	SD	SD	PD	SD



XTX202 Investigator Insights



Howard Kaufman, MD, FACS Clinical Associate, Surgical Oncology Massachusetts General Hospital



XTX202 Melanoma and RCC Proof-of-Concept Data Anticipated in 2024*



- Over 60 patients dosed up to 4.0 mg/kg, administered Q3W as an outpatient regimen
- No signs or symptoms of VLS reported, primarily Grade 1-2 TRAEs
- Dose-dependent increase in DCR observed (n=13 SD, n=2 on treatment over 1 year)
- Tumor-selective increases in CD8+ effector T cells observed in on-treatment biopsies (n=4) (1)
- Evidence of tumor-activated concentration suggests ≥2.8 mg/kg monotherapy doses are approaching optimal range to activate CD8+ effector T cells and NK cells in the tumor (2)

Next Milestone*



 Plan to evaluate high dose monotherapy (4.0 mg/kg) Phase 2 proof-of-concept in melanoma and RCC, data anticipated (~n=20) in Q2 2024*

^{*} Milestones subject to obtaining sufficient additional capital.



Clinical Data
Anticipated
Across 3
Programs in
2024*

XTX101 (CTLA-4)

Q4'24

XTX101 + Atezolizumab Initial **Phase 2 POC** Data in MSS CRC

XTX202 (IL-2βγ)

Q2'24

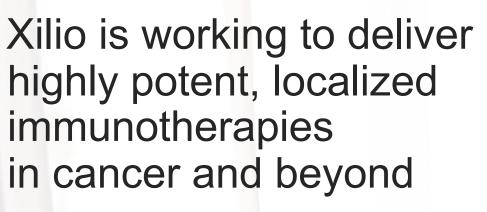
XTX202 Monotherapy
Phase 2 POC Data
(4.0 mg/kg)
in Melanoma and RCC

XTX301 (IL-12)

2H'24

XTX301
Monotherapy
Phase 1
Safety and PK/PD
Data in Advanced
Solid Tumors





Xilio Therapeutics is a Differentiated IO Company with a Proprietary Tumor-Activated Platform and the Team to Deliver



