

Unleashing the Potential of Immuno-Oncology Therapies

November 9, 2023

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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-2 β γ)

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 Solid Tumors

Immuno-Oncology Therapy has Curative Potential



Treatment potential for some of the most exciting immuno-oncology (IO) targets has been impeded by **dose-limiting systemic toxicity**

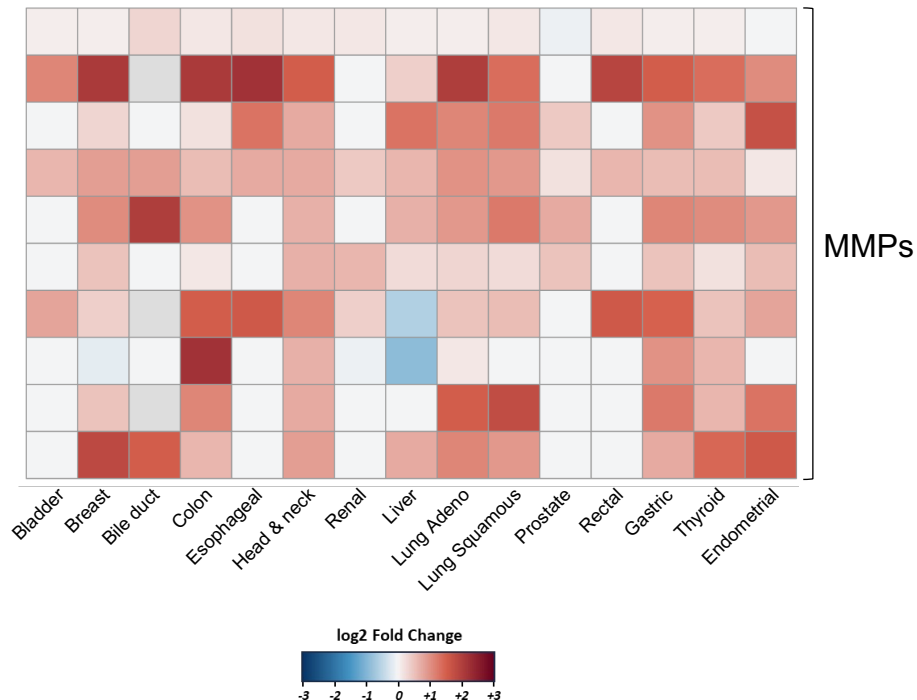
Patient Portrayal

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 Exploits Dysregulated MMP Activity, a Hallmark of Invasive Cancer

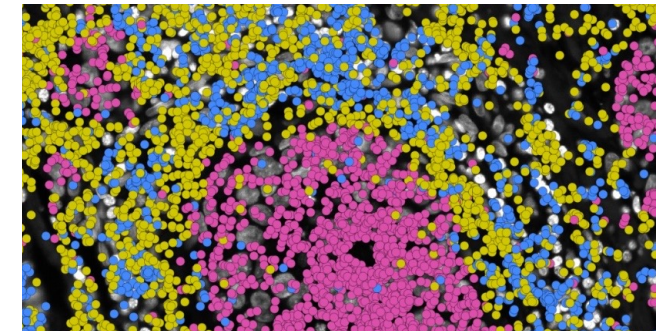
MMPs are dysregulated broadly across solid tumors

MMP mRNA expression in tumor vs. normal tissue



MMPs and immune cells co-localize at the invasive edge of tumors

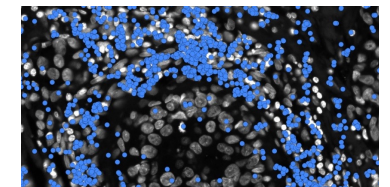
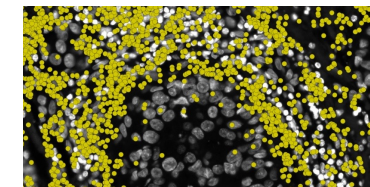
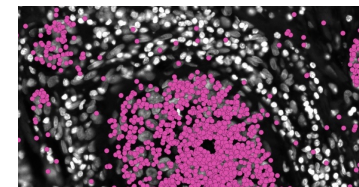
In situ mRNA expression in human breast cancer



Tumor cells
(TROP2)

MMP
(MMP2)

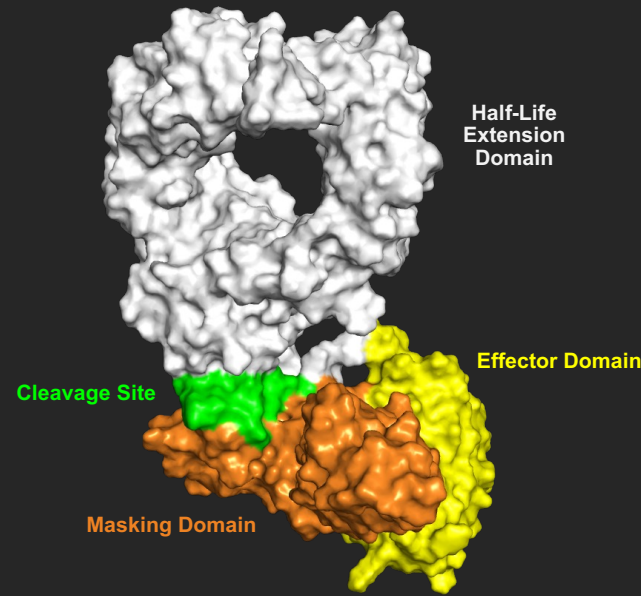
T cells
(CD4, CD8A)



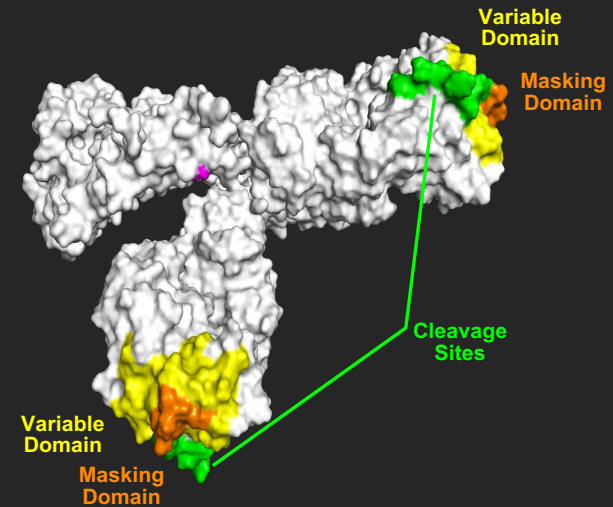
Xilio's Molecules are Activated by Dysregulated MMPs in Tumors

- 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

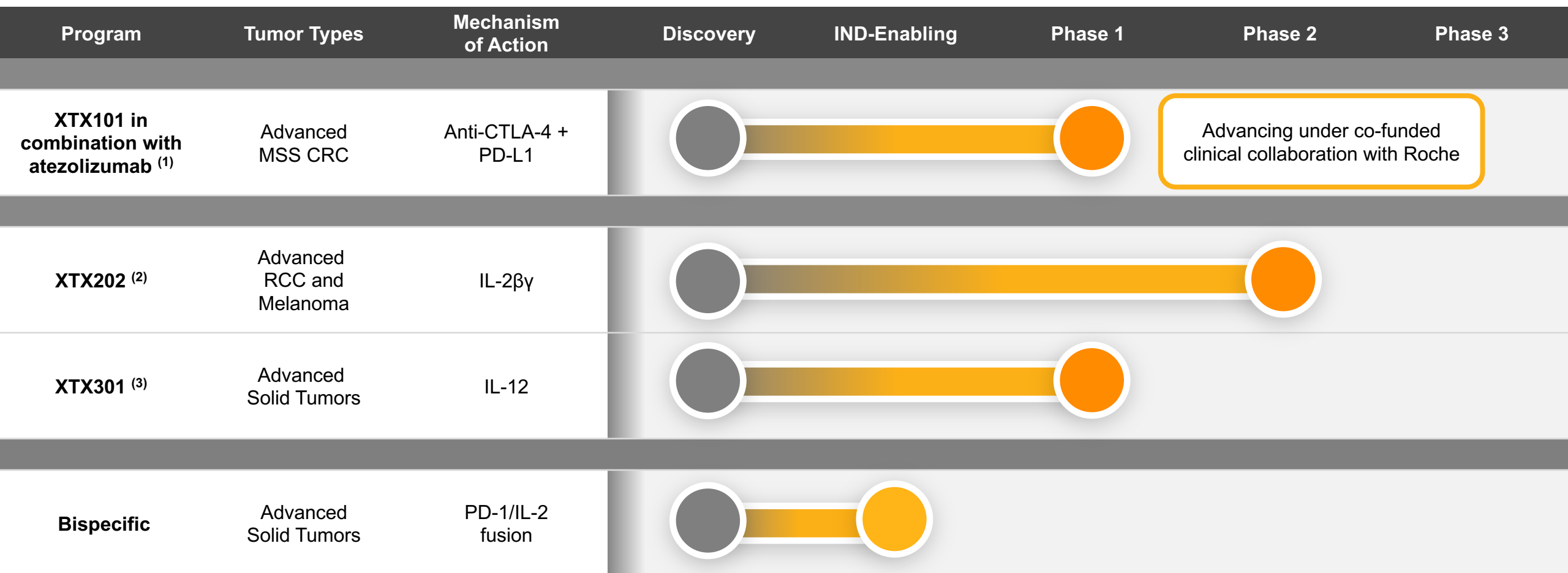
Cytokine Example



Antibody Example

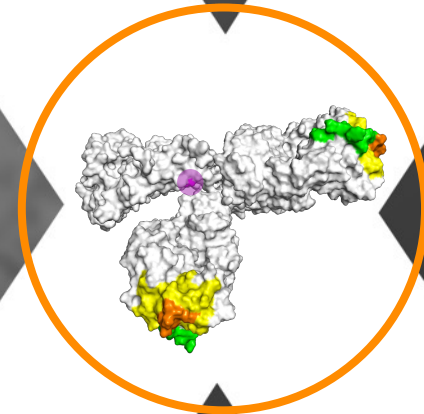


3 Tumor-Activated Programs in Clinical Development



Opportunity for XTX101 in MSS CRC

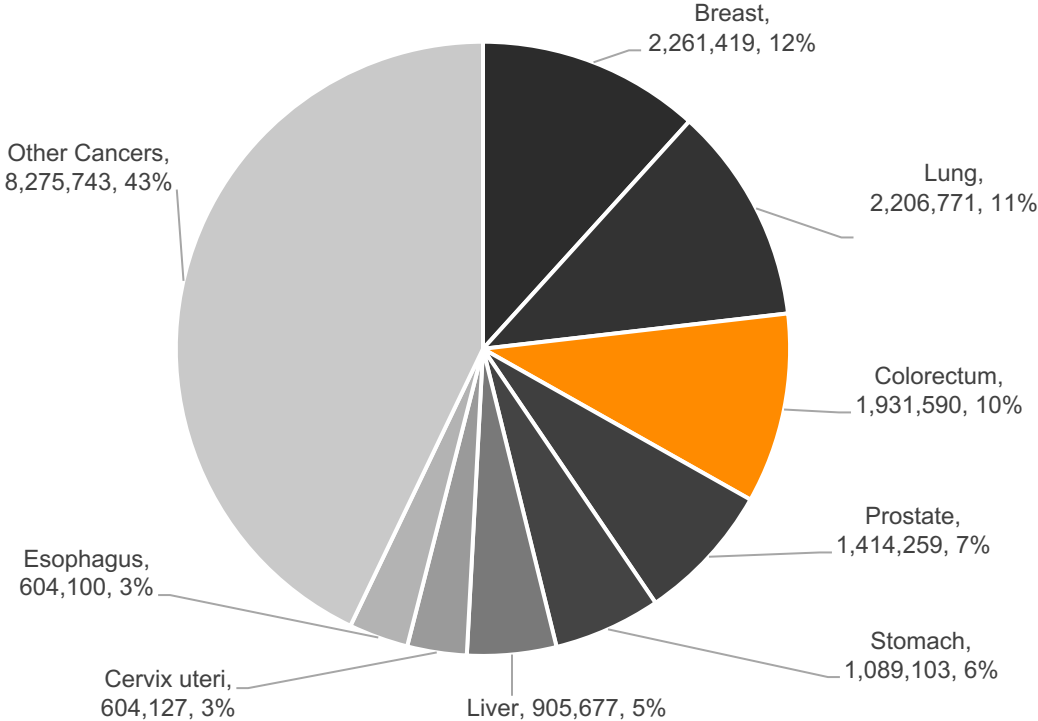
Pursuing XTX101 in Combination with
Atezolizumab in MSS CRC



Colorectal Cancer is 3rd in Total Annual New Cases Globally

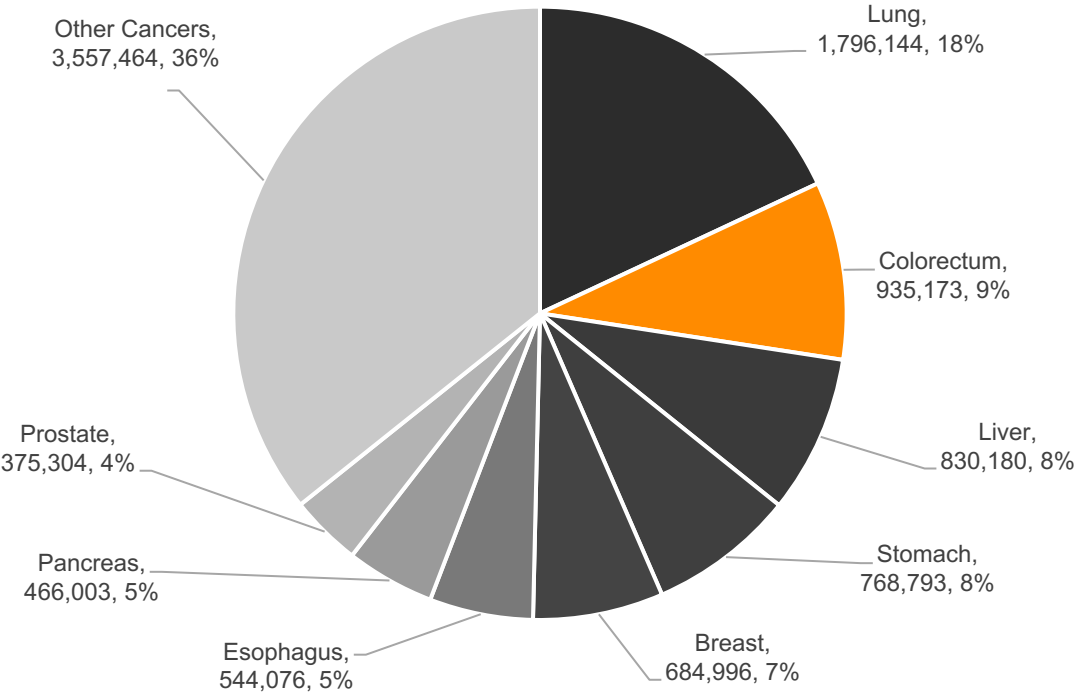
Number of new cases in 2020

(Global, both sexes, all ages)



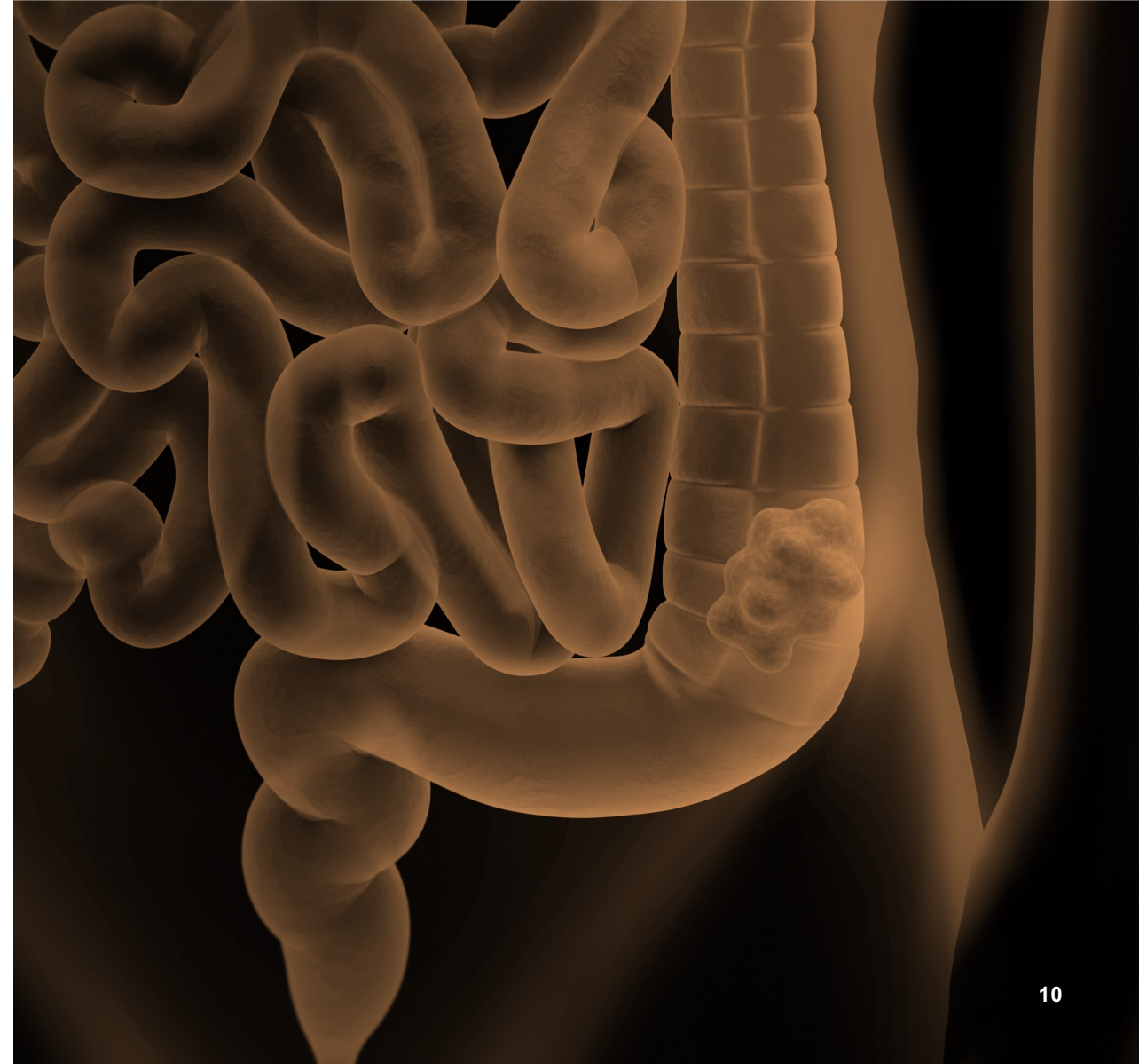
Number of deaths in 2020

(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⁾



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**

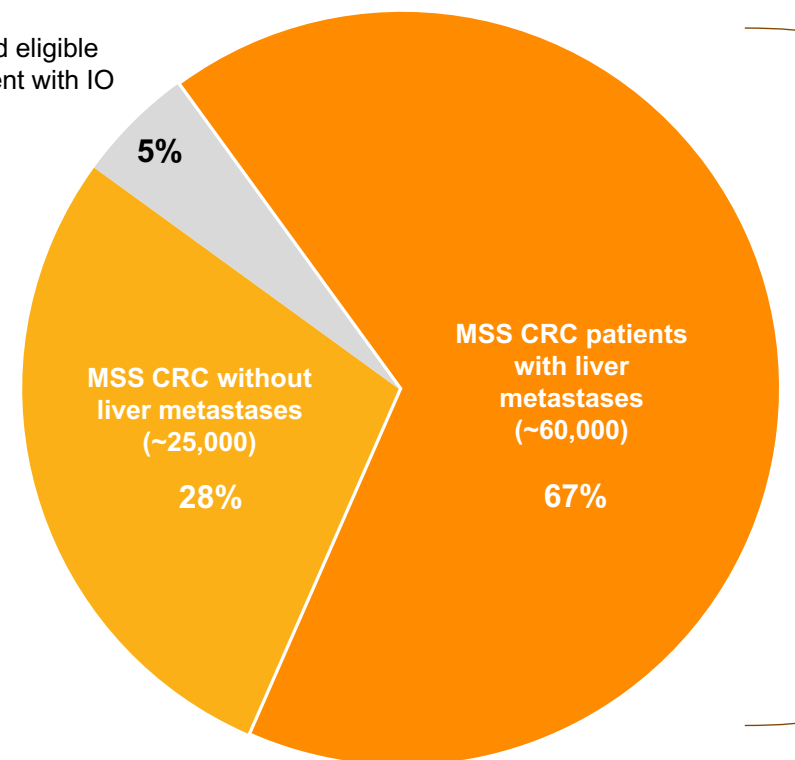
~60% of patients will be
diagnosed with Stage 4 disease ⁽¹⁾ **~90,000**

~95% of Stage 4
disease is MSS CRC ⁽²⁾ **~85,000**

~70% of patients
with Stage 4 disease
develop liver metastases ⁽³⁾ **~60,000**

US Stage 4 Patients

MSI-H and eligible
for treatment with IO



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

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 <i>NCT01876511</i>	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 <i>NCT02060188</i>	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 D+T+BSC vs. BSC <i>NCT02870920</i>	119 patients in D+T arm: 98% MSS; 1% MSI-H; 1% unknown	Durvalumab, 1,500 mg every 4 weeks + tremelimumab, 75 mg every 4 weeks (only 4 cycles)	1 (1/119)	22.7 (27/119)	1.8	6.6
	61 patients in BSC arm: 80% MSS; 2% MSI-H; 18% unknown		0 (0/61)	6.6 (4/61)	1.9	4.1**
IMblaze-370; phase III open-label RCT of atezolizumab vs. regorafenib vs. atezolizumab + cobimetinib <i>NCT02788279</i>		Atezolizumab, 1,200 mg every 3 weeks	2 (2/90)	21 (19/90)	1.9***	7.1****
	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
		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.

* 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.

** In a subgroup analysis of patients with MSS: HR, 0.66; 95% CI, 0.48–0.89; p5.02.

*** 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.

**** Atezolizumab + cobimetinib vs. regorafenib: HR, 1.00; 95% CI, 0.73–1.38; p 5 .99; atezolizumab vs. regorafenib: HR, 1.19; 95% CI, 0.83–1.71; p 5 .34.

(1) Cerner Enviza, CancerMPact® Treatment Architecture (2022)

BSC: 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;

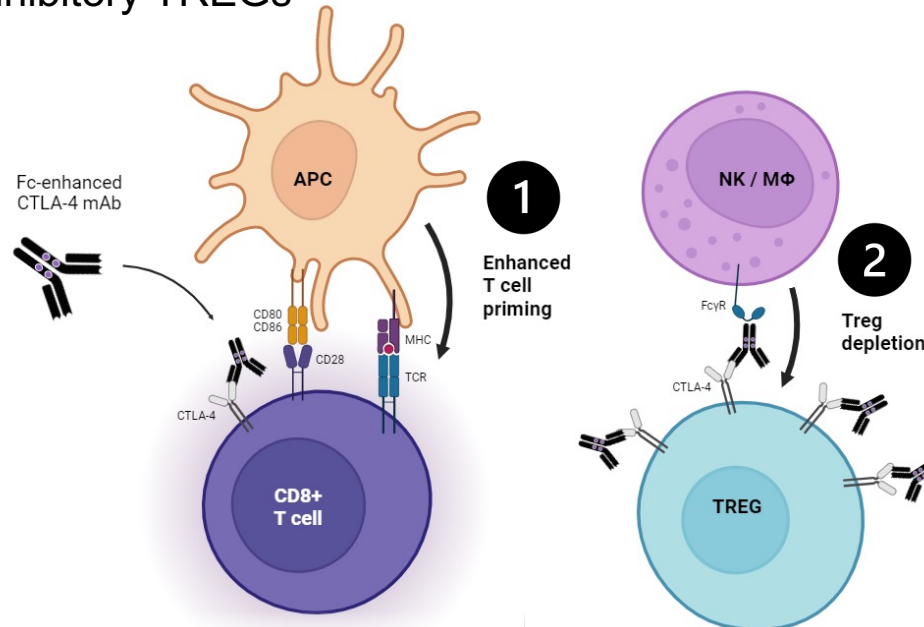
RCT: randomized controlled trial; T: tremelimumab.

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

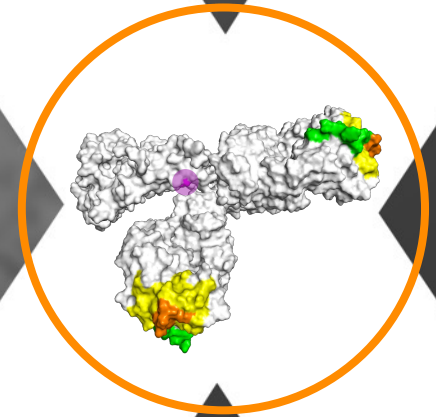
- Phase 1 data for third party Fc-enhanced anti-CTLA-4 in combination with a PD-1 in patients with MSS CRC demonstrated ORR >20% in MSS CRC patients ⁽¹⁾

Other responses include:

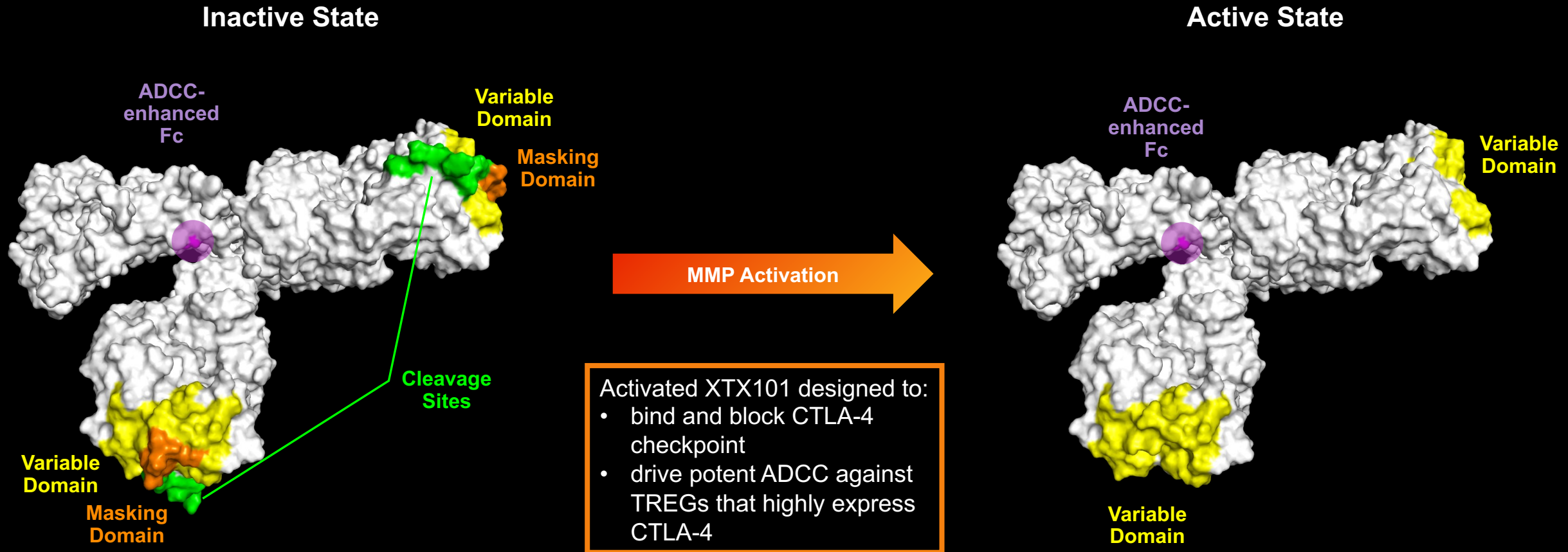
- Endometrial
- Pancreatic
- Cervical
- Melanoma
- Ovarian
- NSCLC
- Visceral angiosarcoma
- Leiomyosarcoma ⁽²⁾

XTX101

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



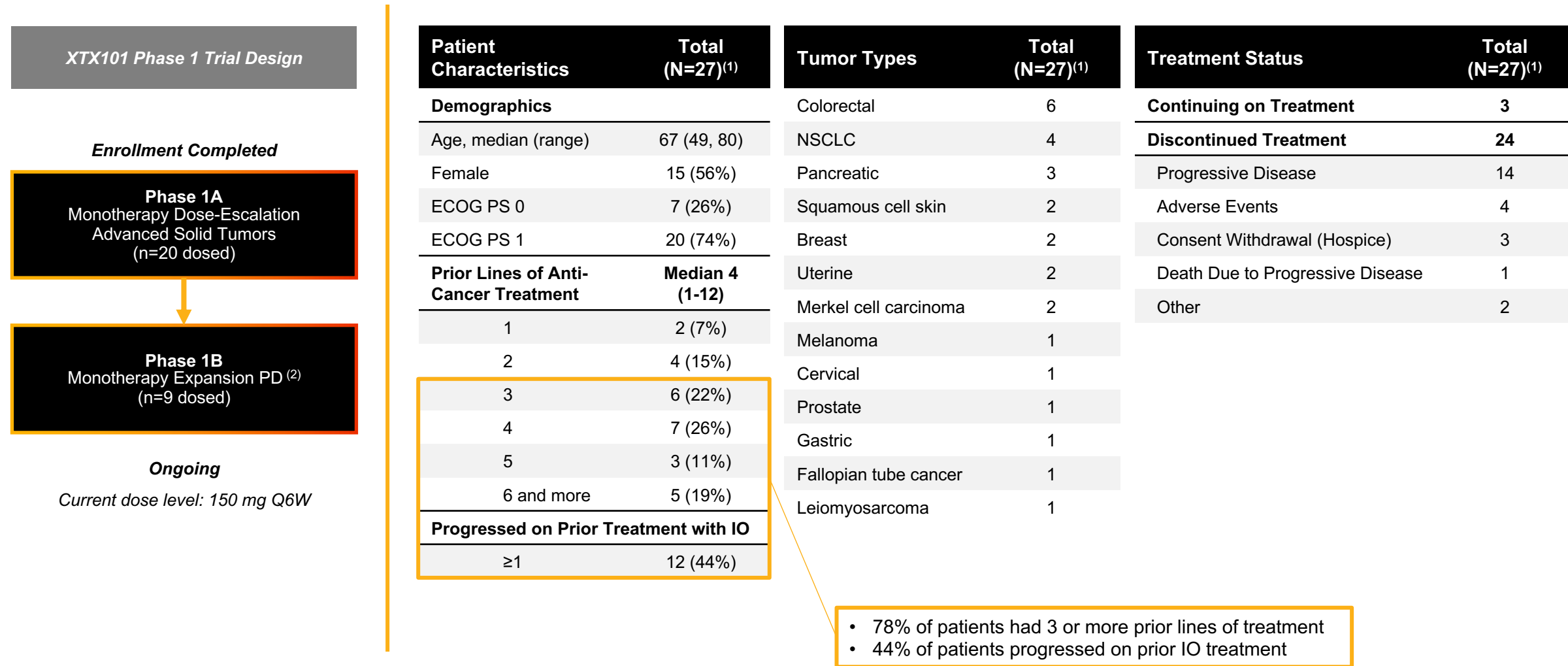
XTX101: Tumor-Activated, High Affinity Binding, Fc-Enhanced Anti-CTLA-4



XTX101 Clinical Data

Phase 1: Advanced Solid Tumors

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



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.

ECOG PS: ECOG performance status; Q6W: once every six weeks; TNBC: triple-negative breast cancer.

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 <i>All TRAEs with ≥10% incidence in any category</i>	All Patients at Q3W (7-180 mg) (n=18)		RP2D 150 mg Q6W (n=9)	
	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			1 (11%)	1 (11%)
Dose reduction due to AE	3		1	
Treatment discontinuation due to TRAE ⁽³⁾	4		0	

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.

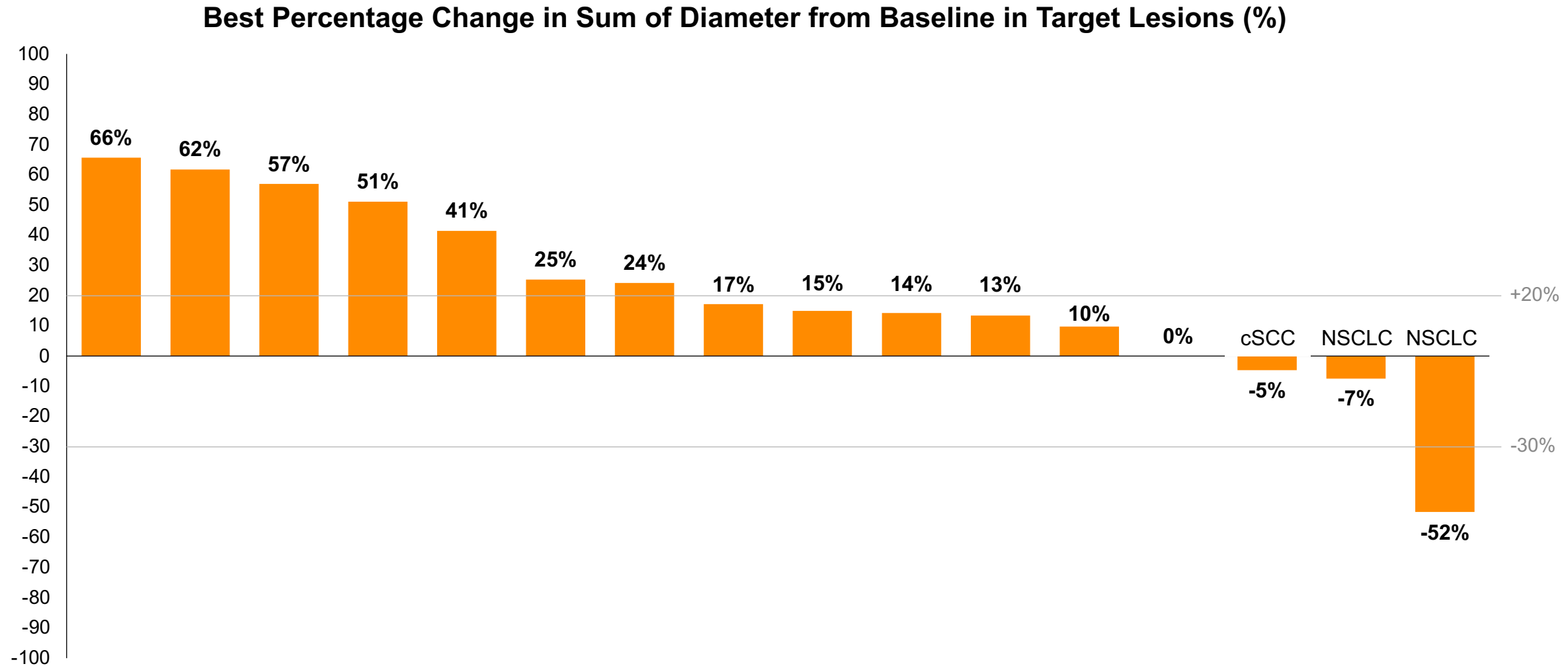
1. Grade 3 diarrhea with onset 10 weeks after the start of treatment (after 2 doses), resolved within 5 days without steroid use, patient tolerated 2 additional XTX101 doses after dose reduction (to 75 mg Q6W) without any symptom recurrence.

2. Infusion related reactions associated with antidrug antibodies (ADA).

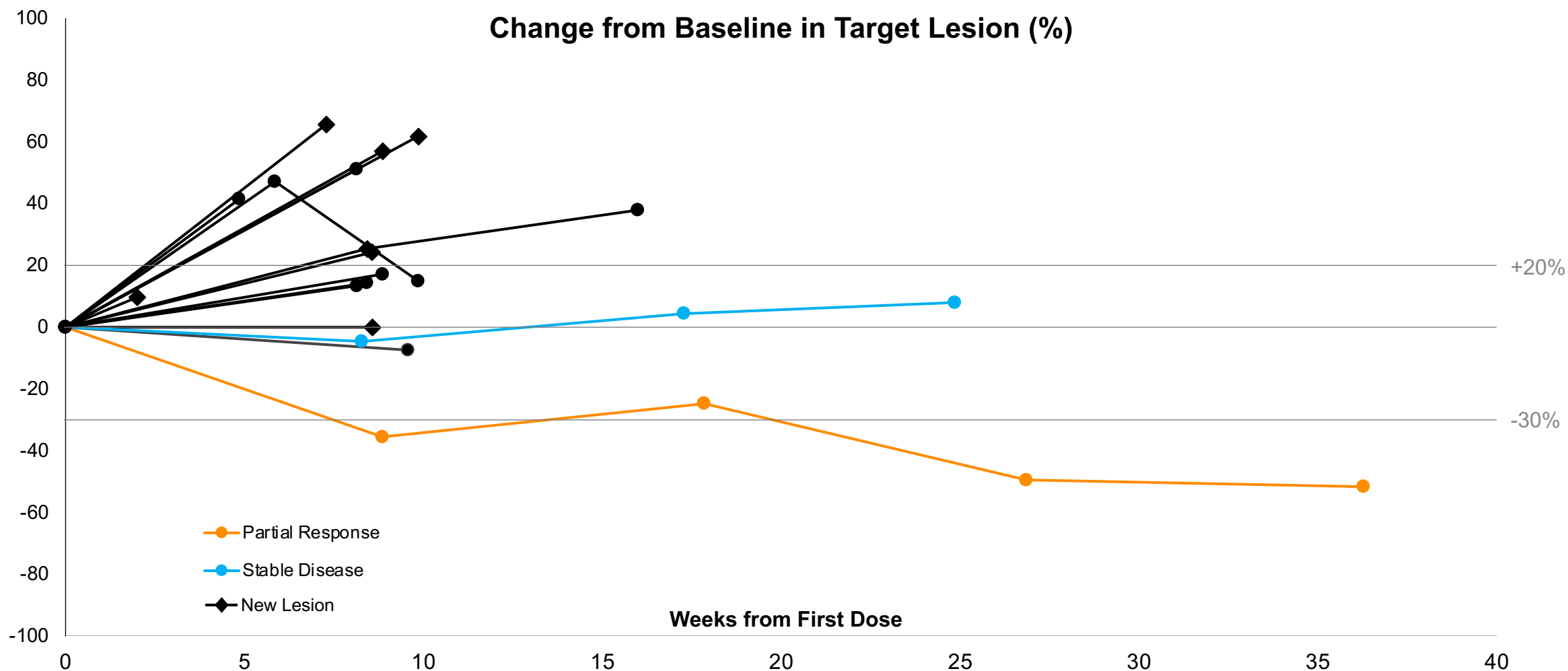
3. All treatment discontinuations were due to TRAE for an infusion reaction.

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



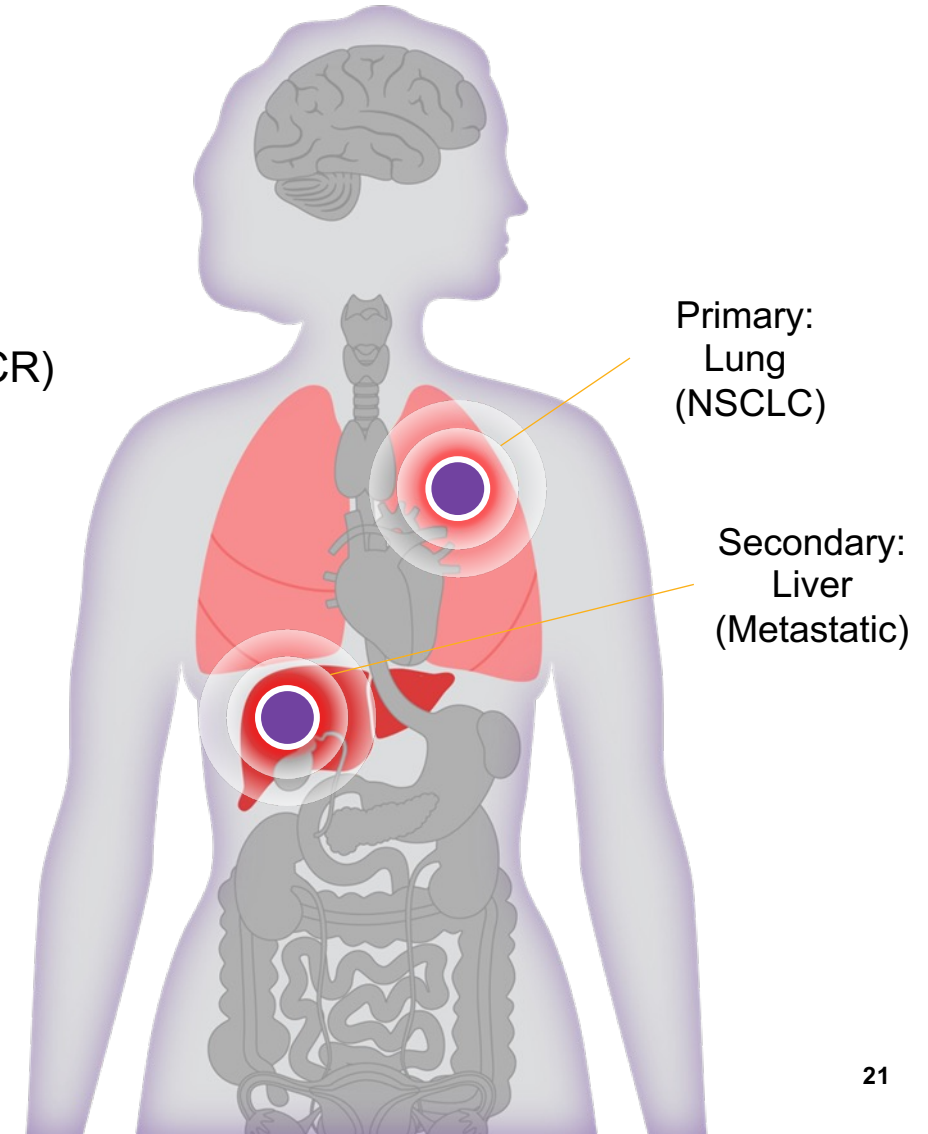
XTX101 Monotherapy Demonstrated Durable Partial Response in a Patient with PD-L1 Negative NSCLC and Innumerable Hepatic Metastases



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)

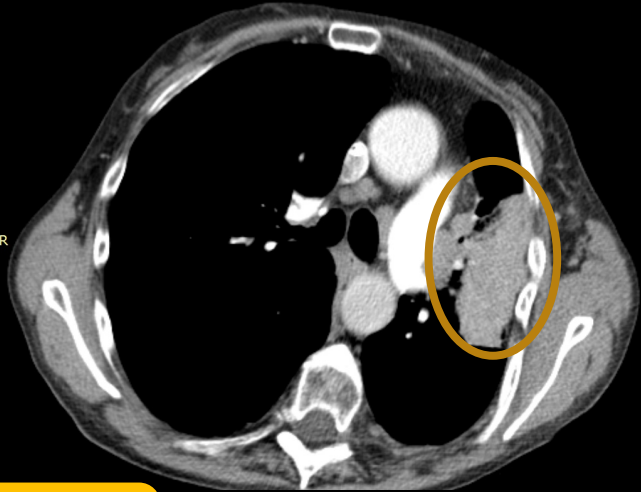
Confirmed PR through week 36



Primary Lung Lesion Decreased in Size and Developed Cavitation

Baseline

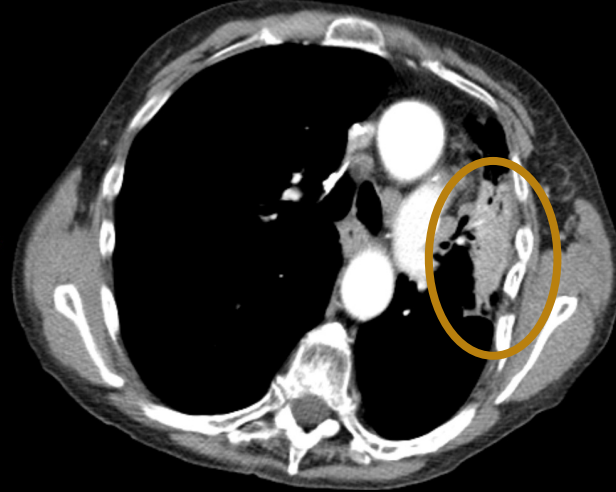
CT CHEST WWO
CHEST WITH



CT CHEST WWO
CHEST WITH

**9 weeks
of XTX101**

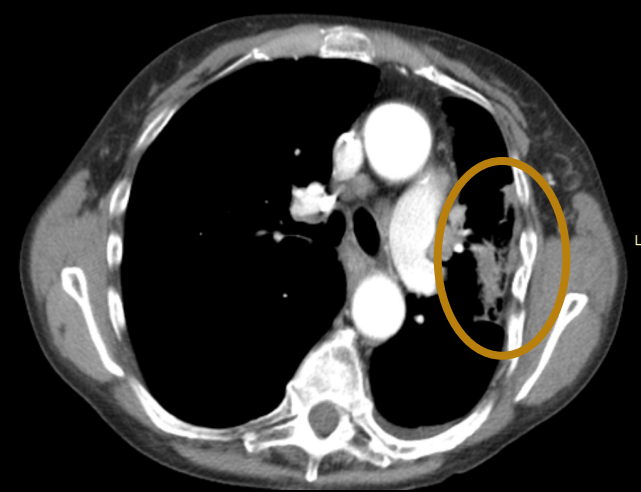
CT CHEST WWO
CHEST WITH



CT CHEST WWO
CHEST WITH

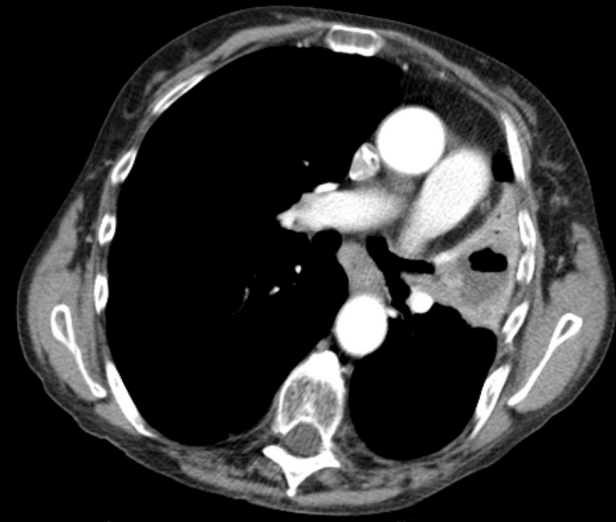
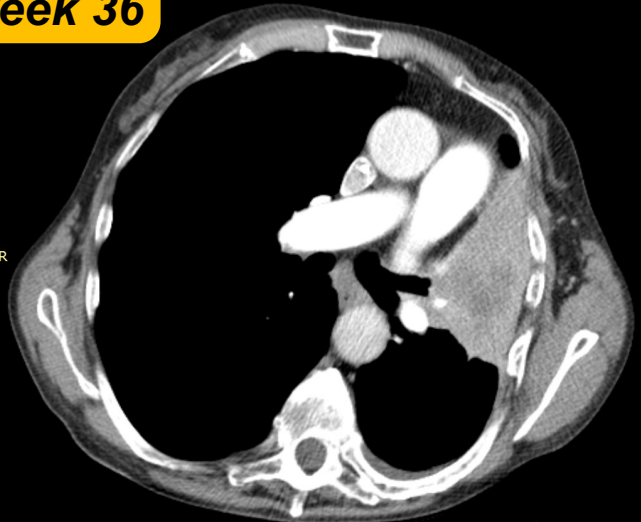
**18 weeks
of XTX101**

CT CHEST WWO
CHEST ABD PELVIS WITH



CT CHEST WWO
CHEST ABD PELVIS WITH

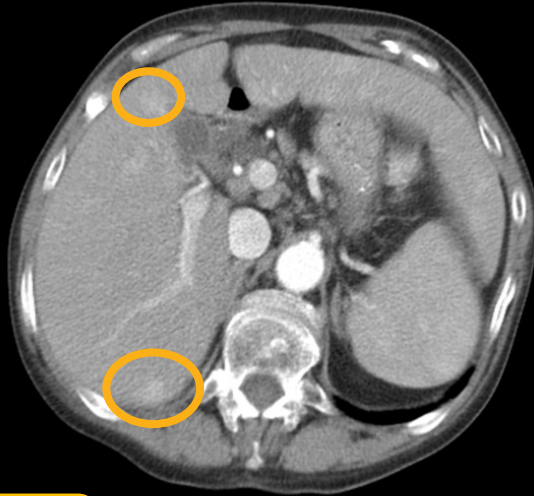
**PR confirmed
through week 36**



Hepatic Metastases Resolved At Initial Imaging on XTX101 Monotherapy

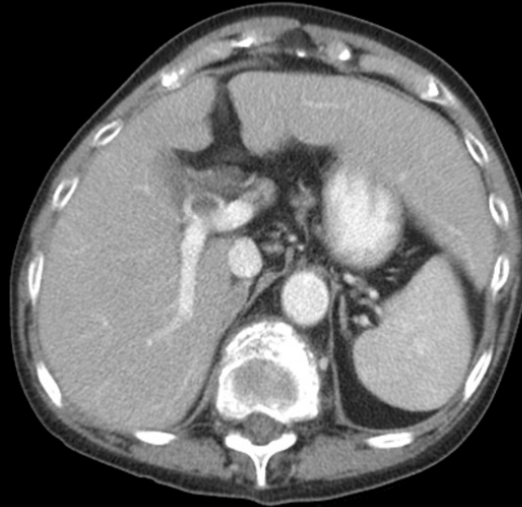
Baseline

CT ABDOMEN/PELVIS WWO
ABD PEL WITH



**9 weeks
of XTX101**

CT ABDOMEN/PELVIS WWO
ABD PEL WITH

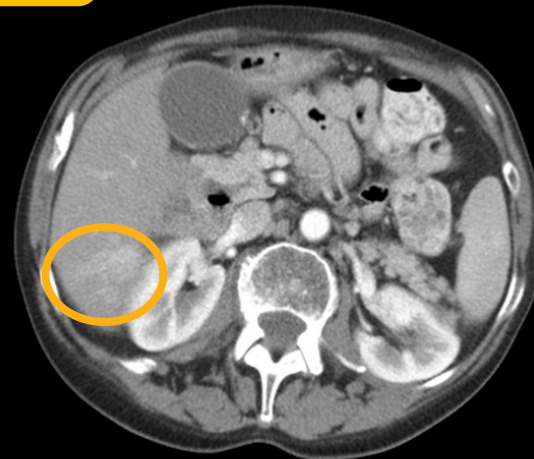


**18 weeks
of XTX101**

CT CHEST WWO
CHEST ABD PELVIS WITH



CT ABDOMEN/PELVIS WWO
ABD PEL WITH



CT ABDOMEN/PELVIS WWO
ABD PEL WITH



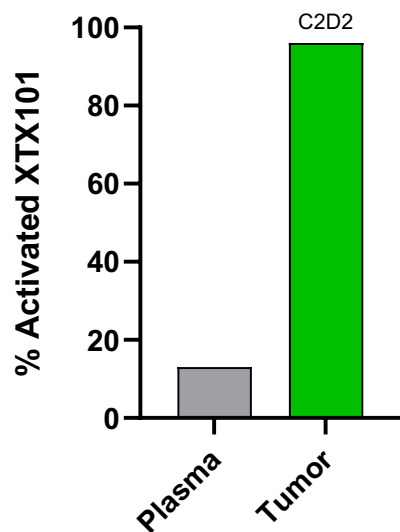
CT CHEST WWO
CHEST ABD PELVIS WITH



**PR confirmed
through week 36**

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

Patient #1 Melanoma Patient
Treated with XTX101
(60 mg Q3W)

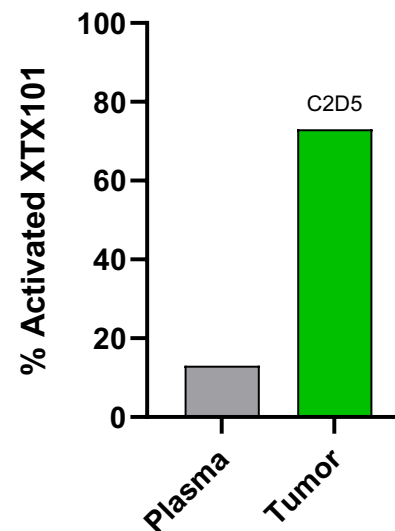


96% Activated Molecule
in Tumor
(*metastatic lesion on calf*)

vs.

13% Activated Molecule
in Plasma*

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

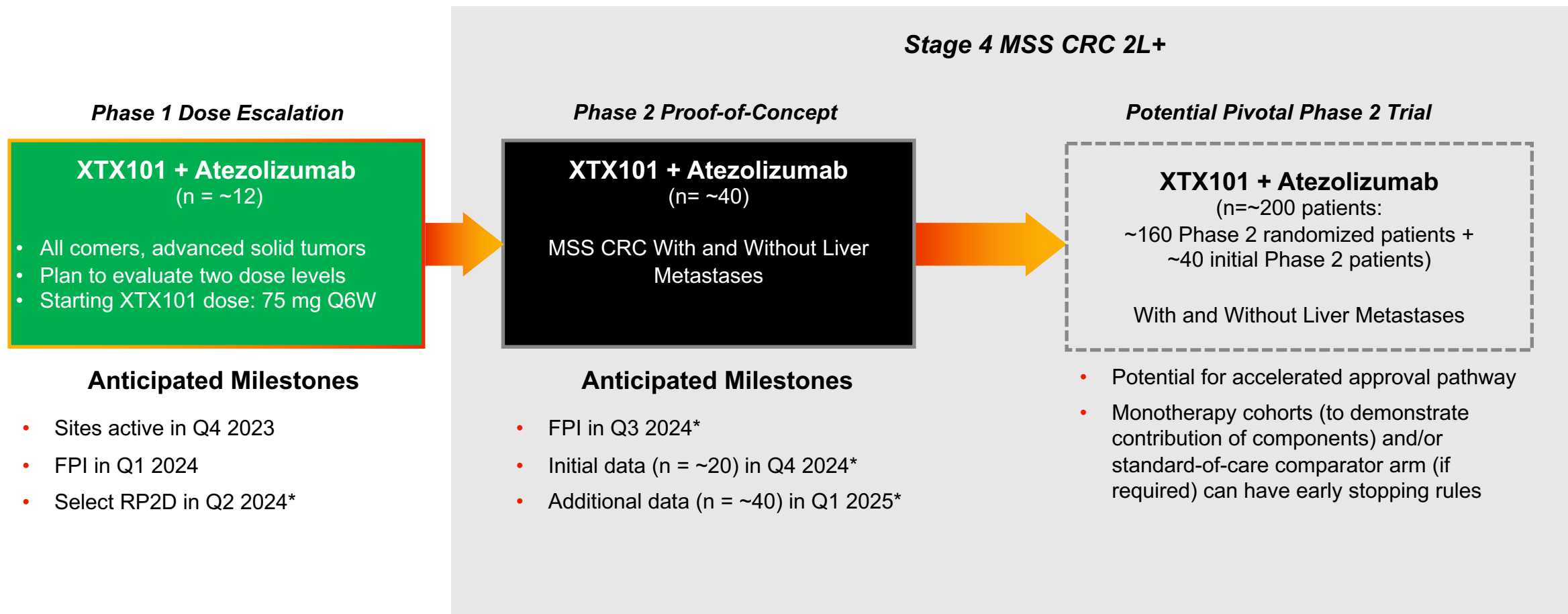


73% Activated Molecule
in Tumor
(*metastatic lesion in liver*)

vs.

13% Activated Molecule
in Plasma*

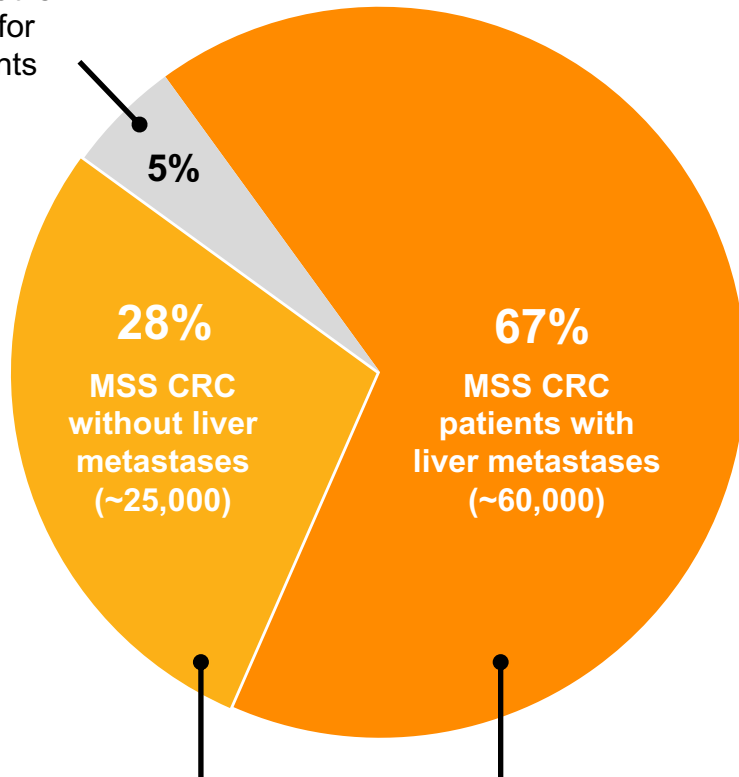
XTX101 Advancing under Co-Funded Clinical Collaboration: Anticipate Initiating Combination with Atezolizumab in Q1 2024



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

US Stage 4 Patients

The 5% of CRC that is MSI-H are eligible for current IO treatments



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 on-treatment 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*

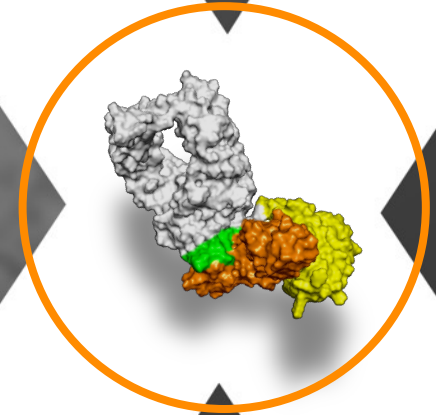
Next Milestone



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

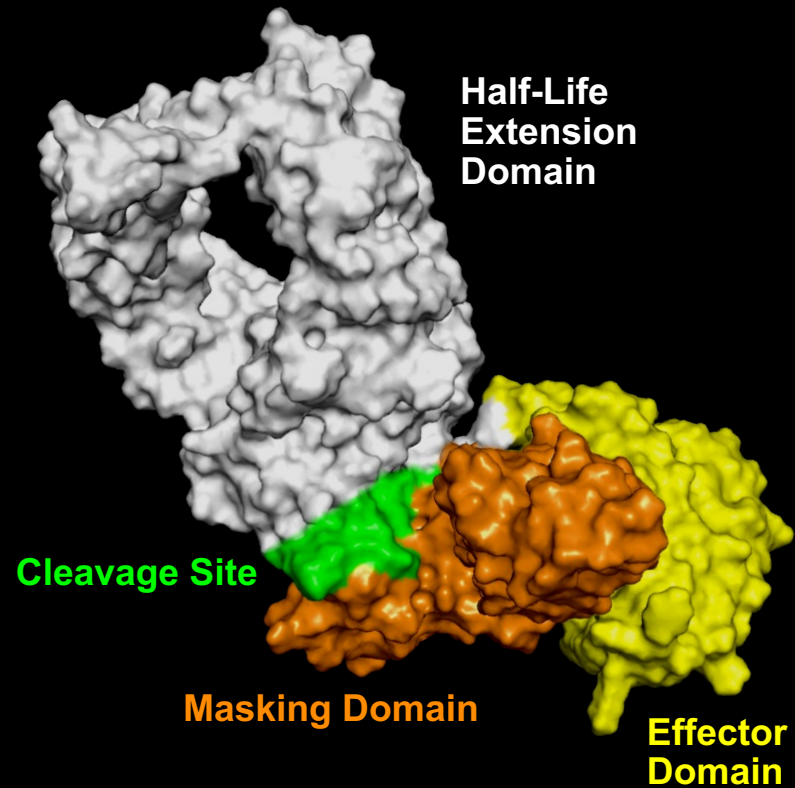
XTX202

Tumor-Activated, Beta-Gamma IL-2



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

Inactive State

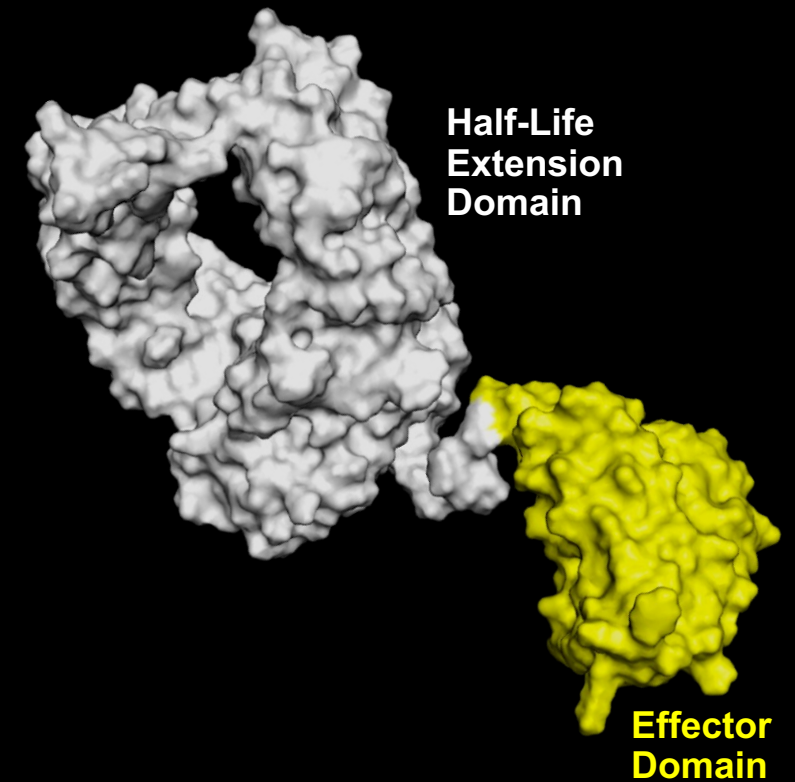


MMP Activation

Activated XTX202:

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

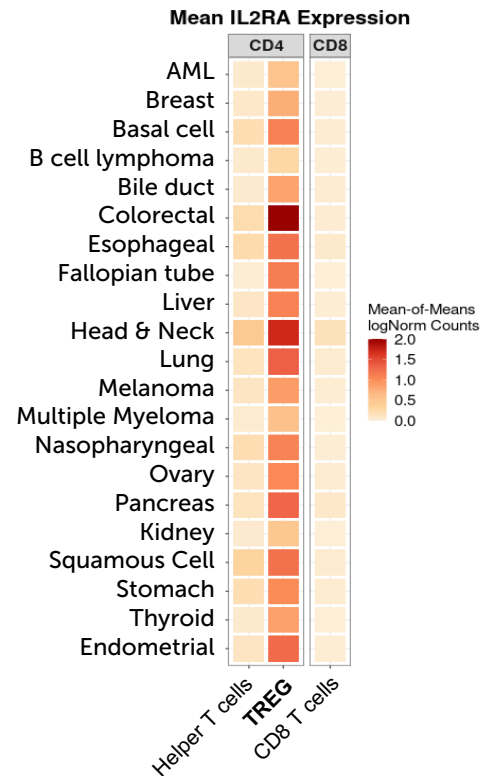
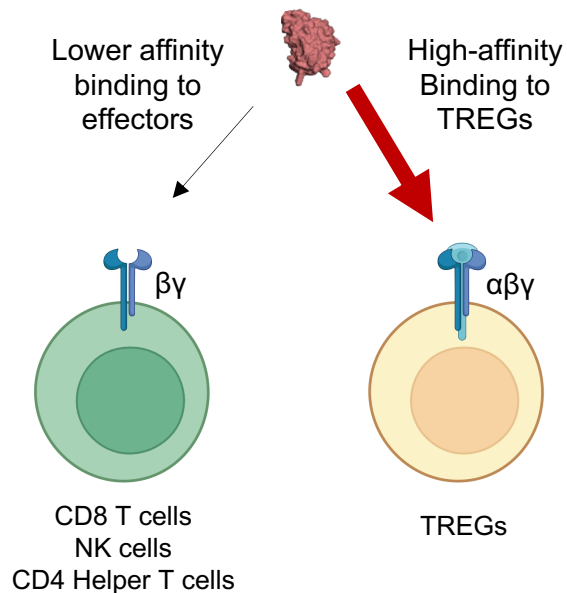
Active State



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

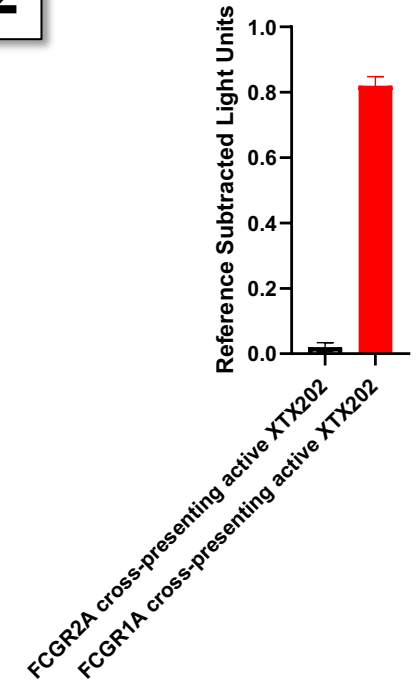
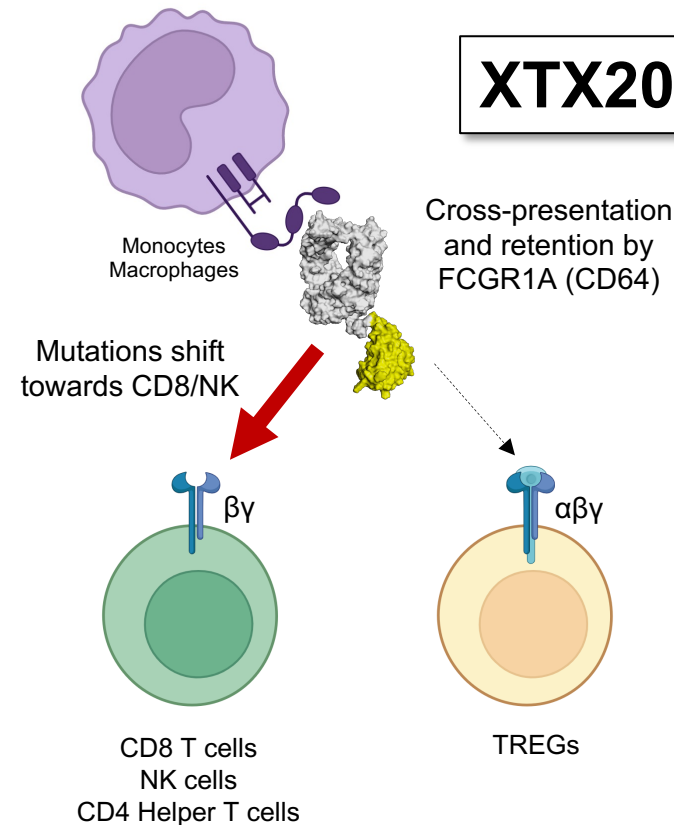
Wild-type IL-2 has high affinity for alpha-containing IL-2 receptor found primarily on TREGs

Wild-type IL-2



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

XTX202



Left panel: Pre-processed single cell RNA sequencing data obtained from Zheng et al., Science 2021. Heatmap showing the expression levels of a gene of interest across different cancer indications (y-axis) and different T cell subtypes (x-axis). CD4+ T cells (left) and CD8+ T cells (right) were shown in separate panels. Color intensity tracks with gene expression signal, which is mean-of-mean normalized gene expression (mean expression of the gene of interest was first computed for each T cell subtype and for each individual patient; next, a cancer indication-specific mean of means was computed and is displayed).

Right panel: Active XTX202 (12.5 nM) bound to FCGR1A or FCGR2A beads was used in a cell-based IL-2 reporter gene assay to determine the ability of Fc receptors to cross-present XTX202. Illustrations created with [BioRender.com](https://www.biorender.com)

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

Phase 1A
Monotherapy Dose
Escalation Advanced
Solid Tumors

Current dose
level:
4.0 mg/kg Q3W

Phase 1B
Monotherapy PD Cohort
"Hot Tumors"

XTX202 Phase 2 Trial Design

Phase 2A
Monotherapy Expansion
RCC Cohort

Dose level 1:
1.4 mg/kg Q3W

Dose level 2:
4.0 mg/kg Q3W

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)
Colorectal	8	
NSCLC	7	
Melanoma	6	6
Sarcoma	5	
Pancreatic	4	
RCC	4	2
Prostate	3	
Endometrial	2	
Cervical	1	
Esophageal	1	
Ovarian	1	
Other	13	

	Phase 1	Phase 2
Treatment Status	Total (N=54)	Total (N=8)
Continuing on Treatment	15	5
Discontinued Treatment	39	3
Progressive Disease	30	3
Adverse Events (Not treatment related)	1	—
Consent Withdrawal (Hospice)	1	—
Death Due to Progressive Disease	4	—
Other	3	—

Phase 1

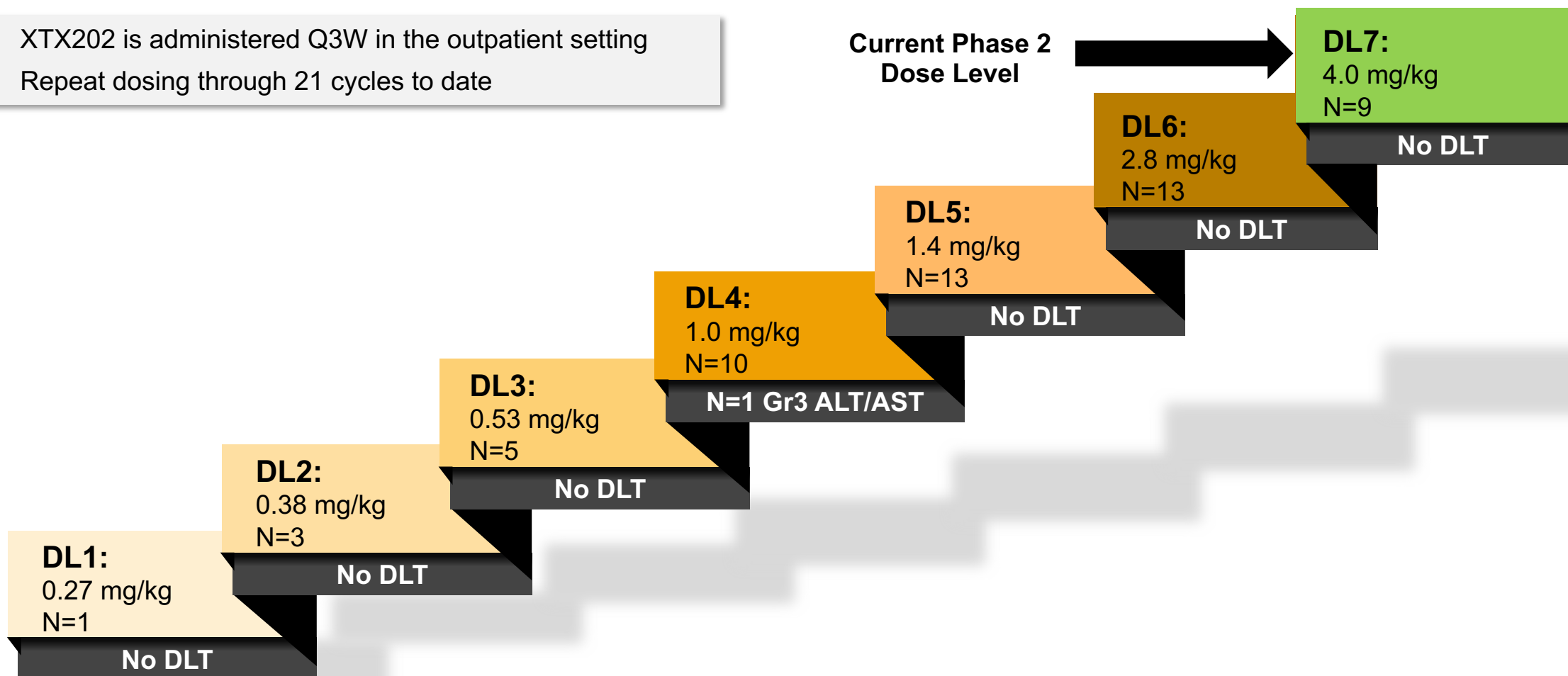
- 54 patients enrolled with a wide range of advanced and IO-treatment refractory solid tumors
- 74% of patients had ≥3 prior lines of anti-cancer treatment
- 69% of patient progressed on prior IO treatment

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 is administered Q3W in the outpatient setting
- Repeat dosing through 21 cycles to date



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 <i>TRAEs with ≥10% incidence (any grade)</i>	All Patients Phase 1 and Phase 2 All dose levels (n=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		0	

Data cutoff date: October 26, 2023

Grade 3 TRAEs not included above (n=1 each): diarrhea; colitis; myalgia; hypoxia; lymphopenia; AST/ALT increased. The events of Grade 3 diarrhea and Grade 3 colitis were reported in the same patient treated at 1.4 mg/kg. The patient was treated with steroids and the AEs resolved.

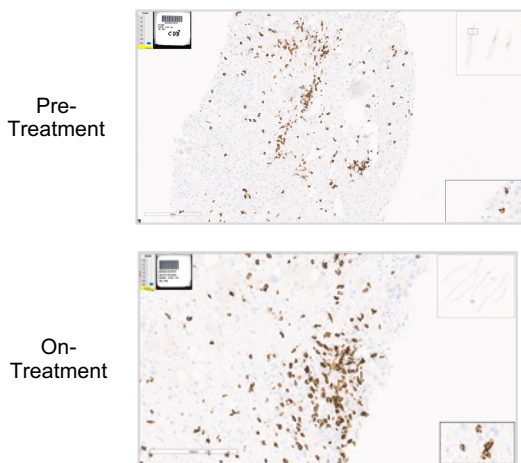
Grade 4 TRAEs (n=2) were lymphocyte count decreased/lymphopenia

AE: adverse event; TRAE: treatment related adverse event.

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

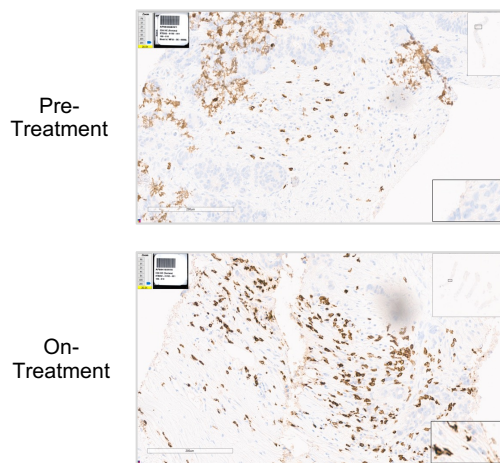
20% Increase in CD8+



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

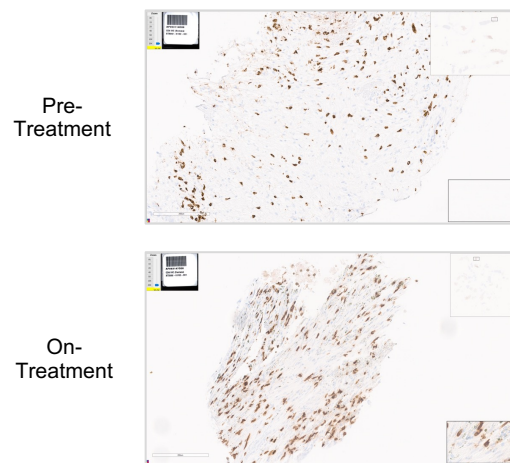
120% Increase in CD8+



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

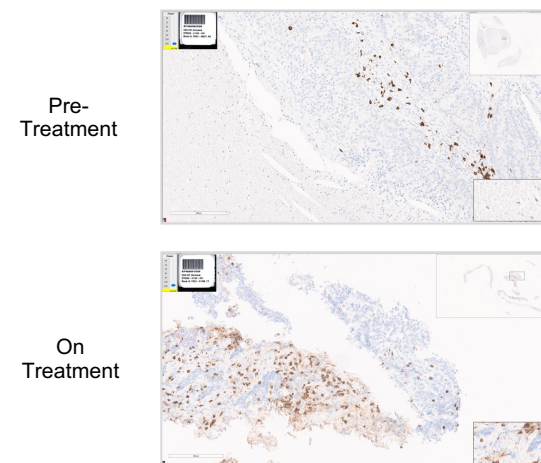
230% Increase in CD8+



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

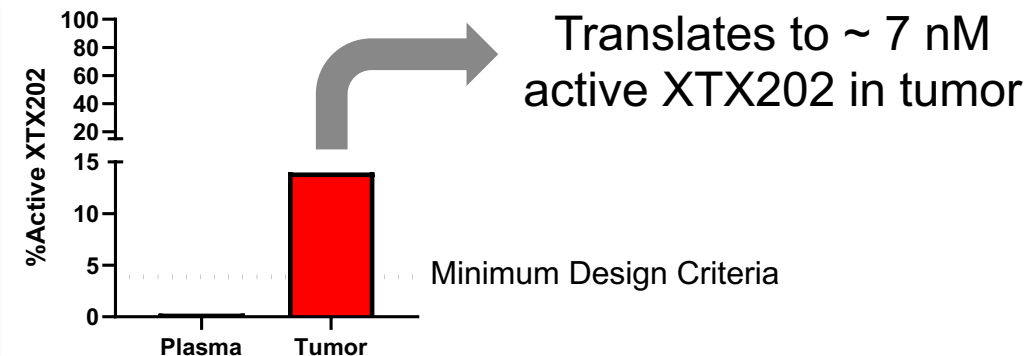
- 75M, Stage 4 RCC
- Initial diagnosis May 2021
- 5 prior lines of treatment
- Progressed on IO in 1L

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

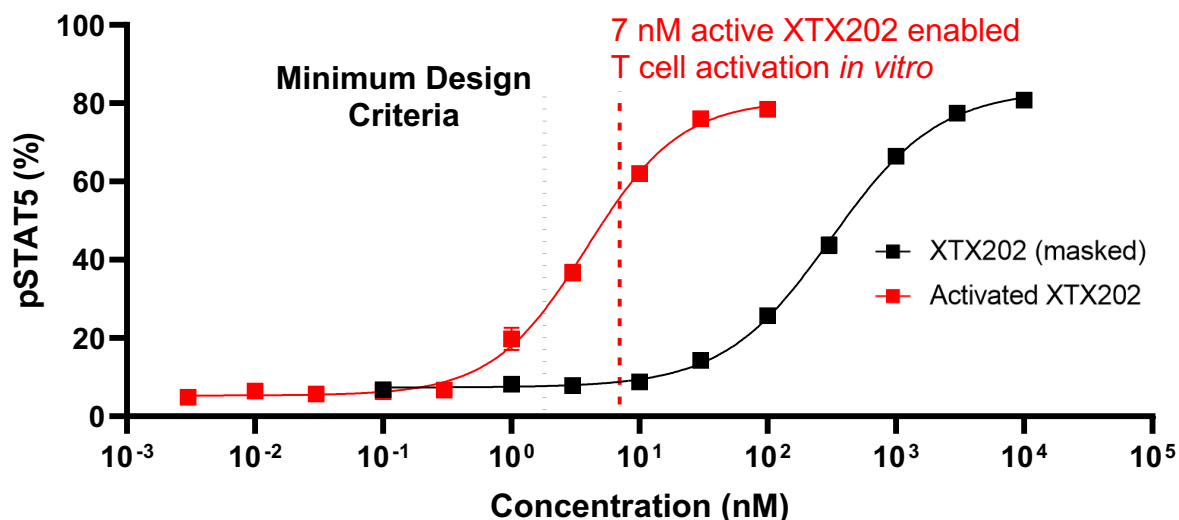
CLINICAL DATA

- 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

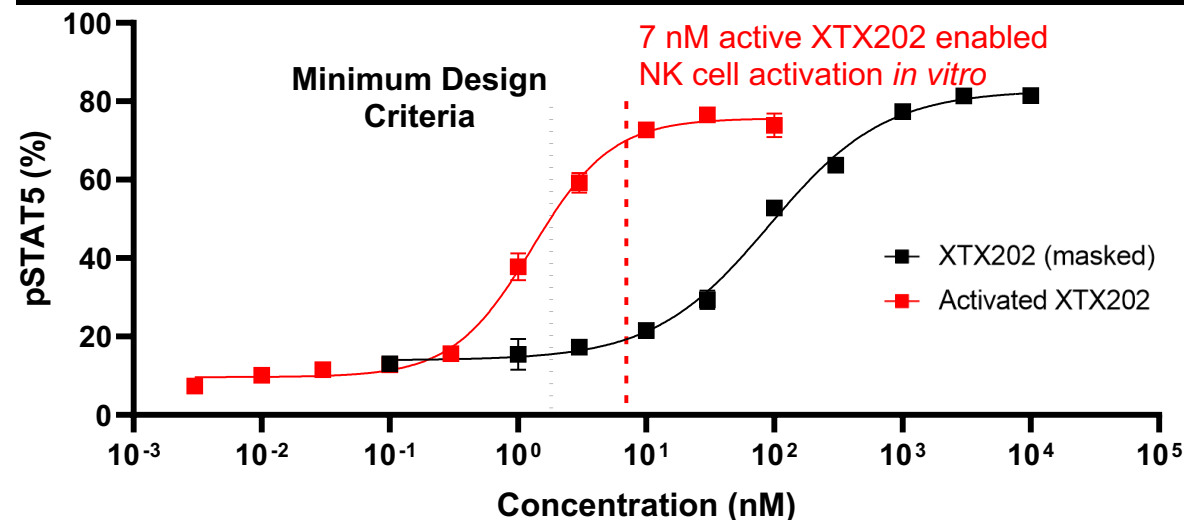


PRECLINICAL DATA

CD8+ T cells



NK cells



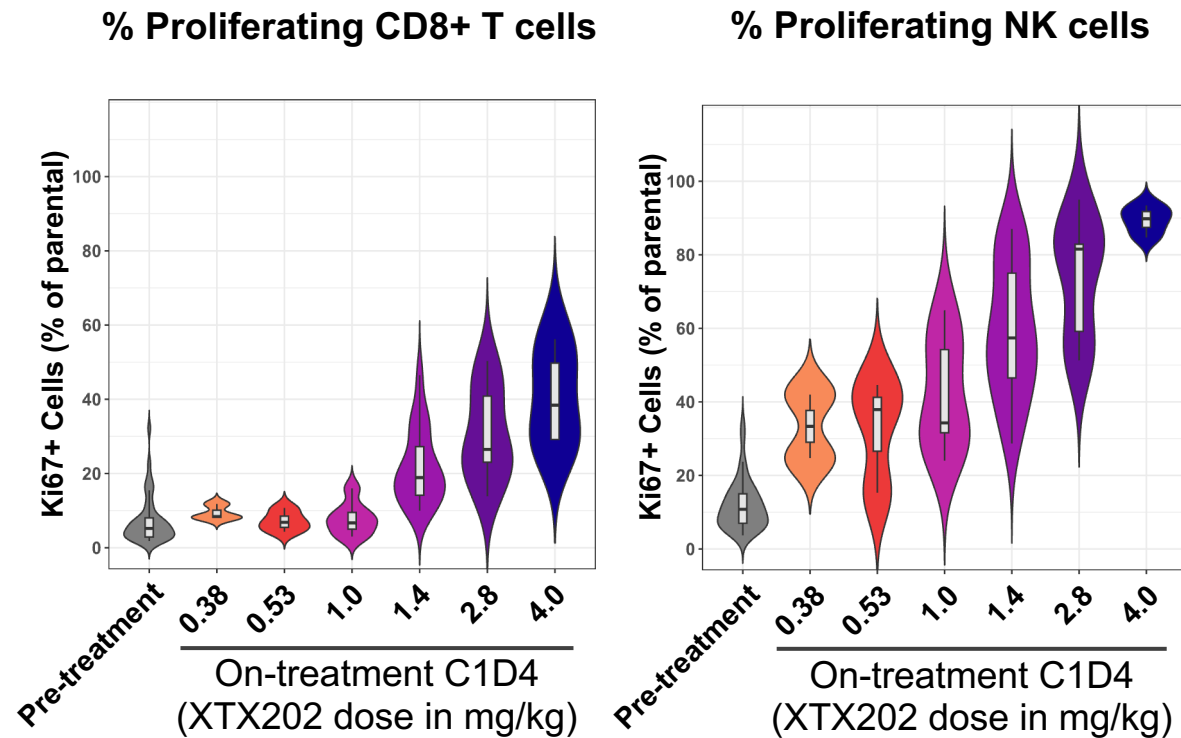
Top: Patient biopsy was the only one available for XTX202 bioanalytical analysis. Percent activated XTX202 in tumor was calculated using raw liquid chromatography / mass spectrometry data. Tumor biopsy specimen was collected C2D2. Percent activated molecule in plasma represents the average for area under 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 biopsy (7 nM) is overlaid as a red vertical dotted line.

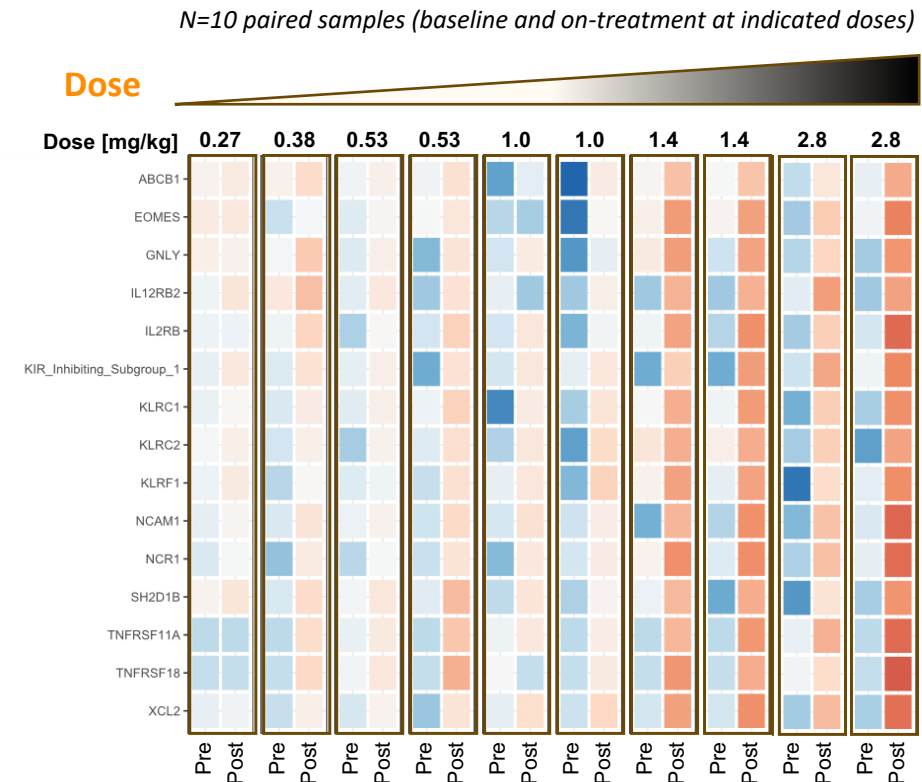
nM: nanomolar.

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

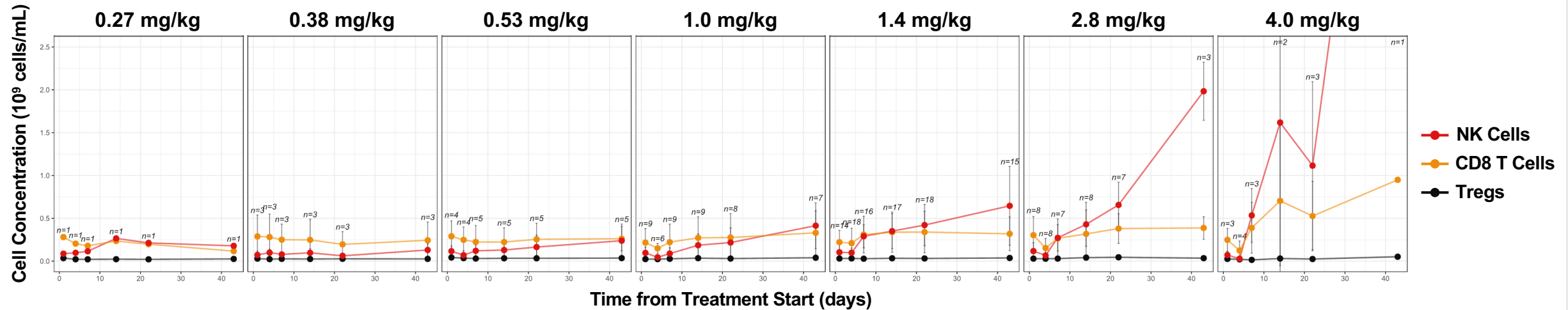


XTX202 Treatment Resulted in Dose-Dependent Upregulation of Key T and NK Cell Markers

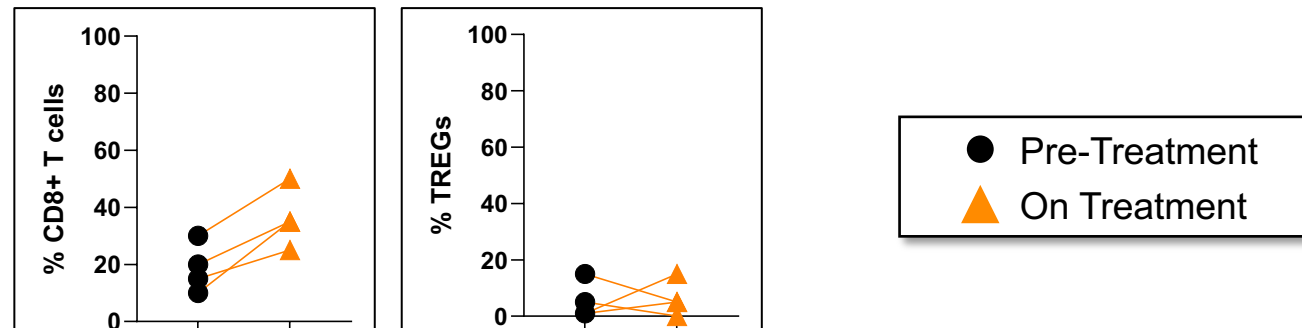


XTX202 Demonstrated Stimulation of CD8+ T and NK Cells Without Expansion of TREGs

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



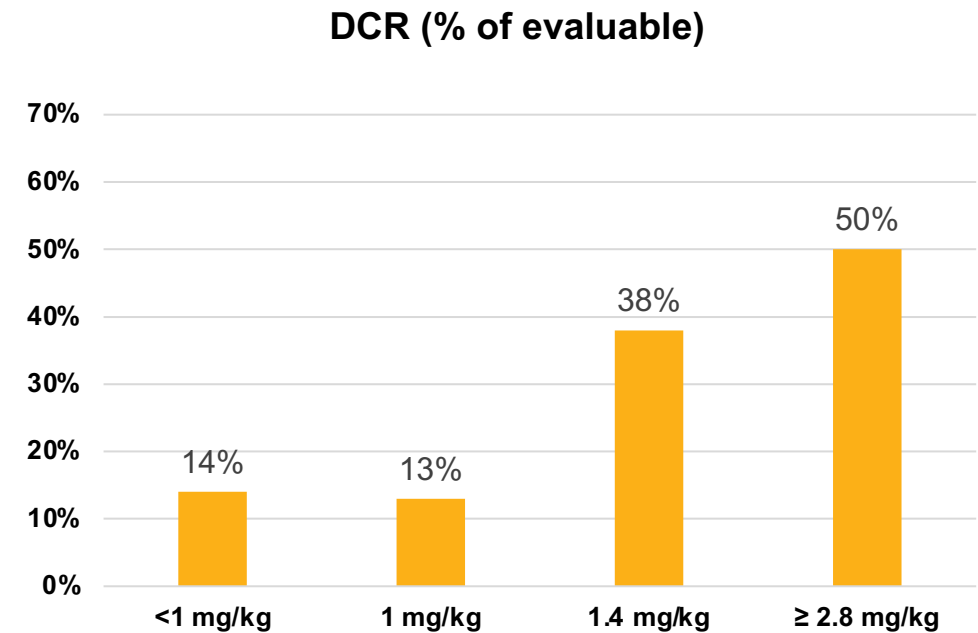
Intratumoral CD8+ T Cell Increase Observed Without Concomitant TREG Expansion



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%



Data cutoff date: October 26, 2023. All dose levels are Q3W outpatient administration. DCR defined as SD or partial response at 9+ weeks.

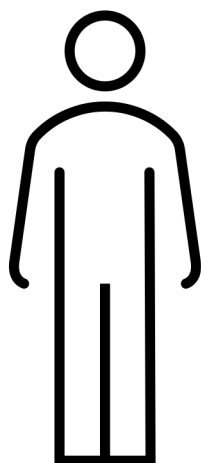
SD (n=13) observed across a range of solid tumors, including cold tumors: melanoma (n=3); renal cell carcinoma (RCC) (n=2); non-small cell lung cancer (n=2); colorectal cancer (n=2); and myoepithelial carcinoma, vaginal cancer, testicular cancer and squamous penile cancer (n=1 each).

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

**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.

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

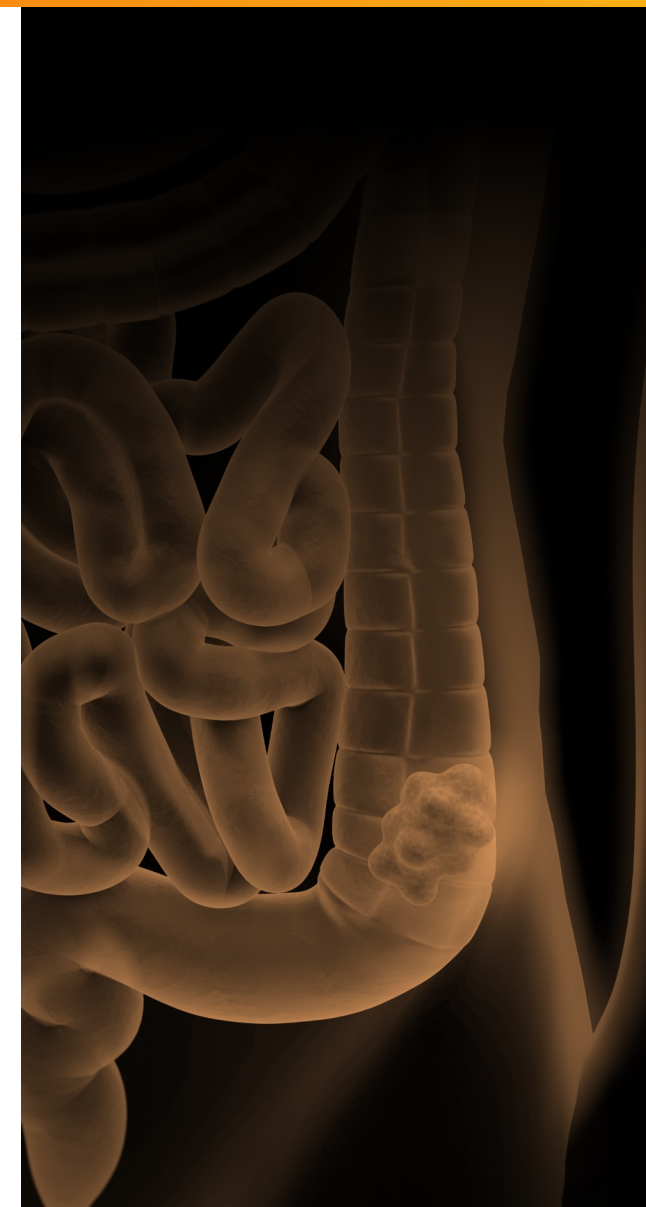
Prior treatment:

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

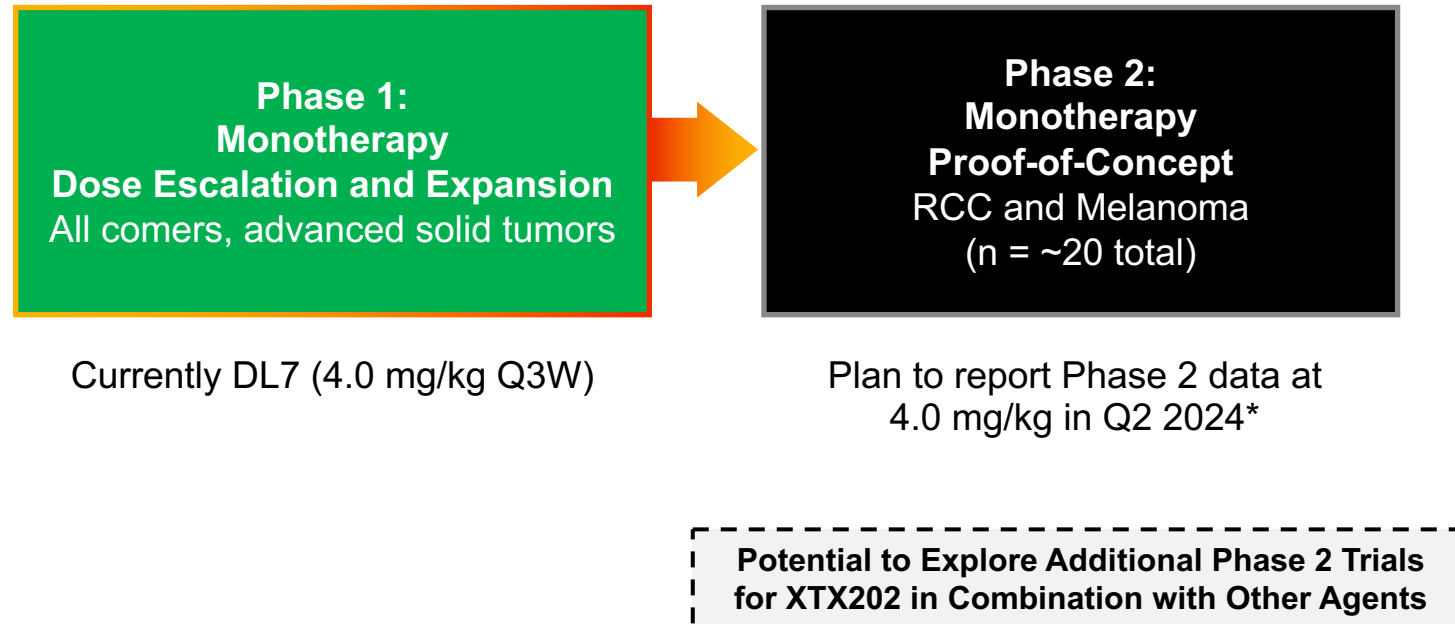
On XTX202:

- 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 Clinical Development Plan



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*

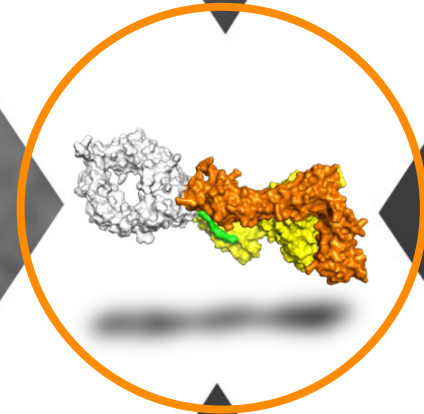


- Plan to evaluate high dose monotherapy (4.0 mg/kg) Phase 2 proof-of-concept in melanoma and RCC, data anticipated (~n=20) in Q2 2024*

** Milestones subject to obtaining sufficient additional capital.*

XTX301

Tumor-Activated IL-12



The Compelling Potential of IL-12 as a Therapeutic Agent

- IL-12 has significant potential as a potent IO therapeutic agent in cold tumors
- Poor tolerability has limited its clinical progress for decades
- No currently approved IL-12 agents

IL-12 Has Highly Compelling Biology for IO Applications



Exquisitely potent stimulator of NK and T cell cytotoxicity and INF γ production



Capable of polarizing CD4 T-cells towards Th1 phenotype, thus driving cellular immunity against infection and cancer



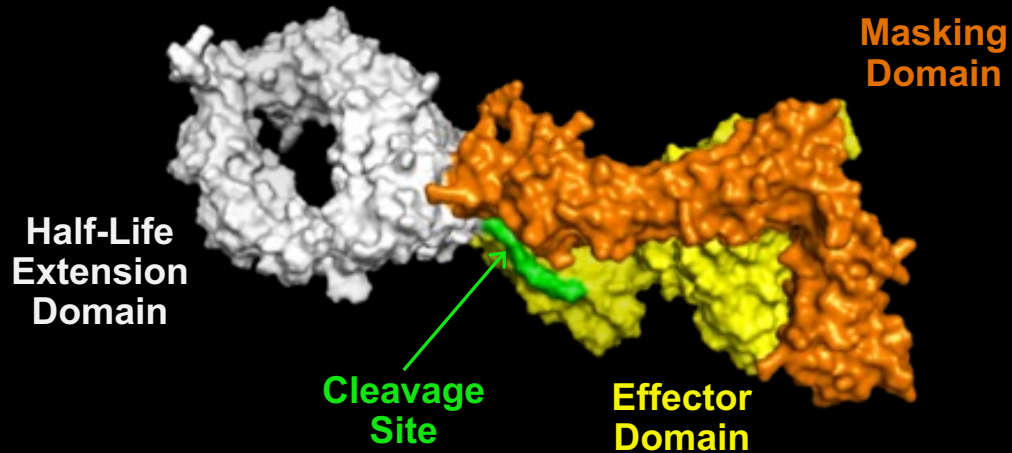
Robust INF γ induction results in broad remodeling of the TME towards a more immune-permissive environment



Demonstrated single agent objective responses in patients, but poorly tolerated (MTD <500 ng/kg on repeat dosing)

XTX301: Tumor-Activated IL-12 Designed to Overcome the Limitations of Systemic Recombinant Human IL-12

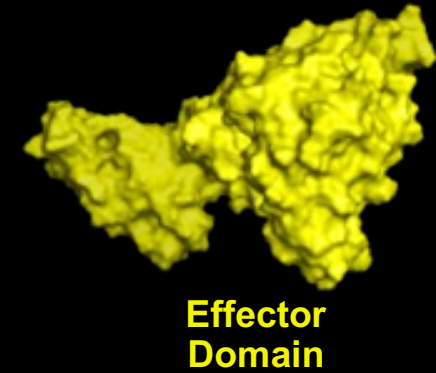
Inactive State



MMP Activation

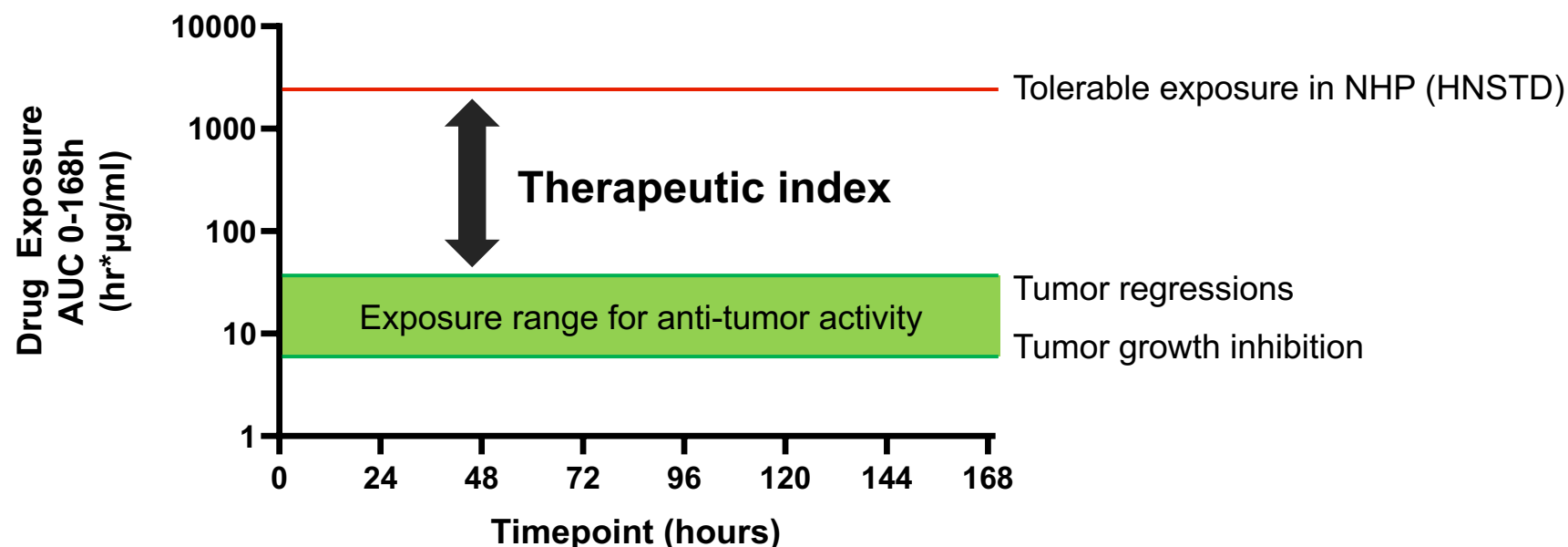
- Activated XTX301:
- Optimized short half-life IL-12 (half-life extension domain not retained)

Active State



XTX301 Preclinical Data Support Potential for Broad Therapeutic Index

- XTX301 was tolerated at doses up to 2.0 mg/kg Q1W x4 in NHP (HNSTD)
- mXTX301 induced tumor regressions in murine model following a **single dose** of 0.13 mg/kg



Compound	<i>In Vivo</i> Model	Dose (mg/kg)	AUC ₀₋₁₆₈ (hr*µg/mL)	Estimated Therapeutic Index (AUC _{Safety} / AUC _{Activity})
mXTX301	Anti-tumor activity (murine)	0.13	37.8	67
XTX301	Safety (NHP)	2.0	2540	

XTX301 Phase 1 Data (Safety and PK/PD) Anticipated in 2024*



- Demonstrated dose-dependent anti-tumor activity without significant body weight loss *in vivo*
- Preferentially activated in tumors vs. plasma *in vivo* and patient tumors vs. plasma *ex vivo*
- Phase 1 enrollment ongoing
 - Starting dose (dose level 1) of 5µg/kg (0.005 mg/kg) Q3W
- Phase 1 safety and PK/PD data anticipated in 2H 2024*

Next Milestone



- Anticipate reporting preliminary Phase 1 safety data into 3rd dose level in Q4 2023

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-2 β γ)

Q2'24

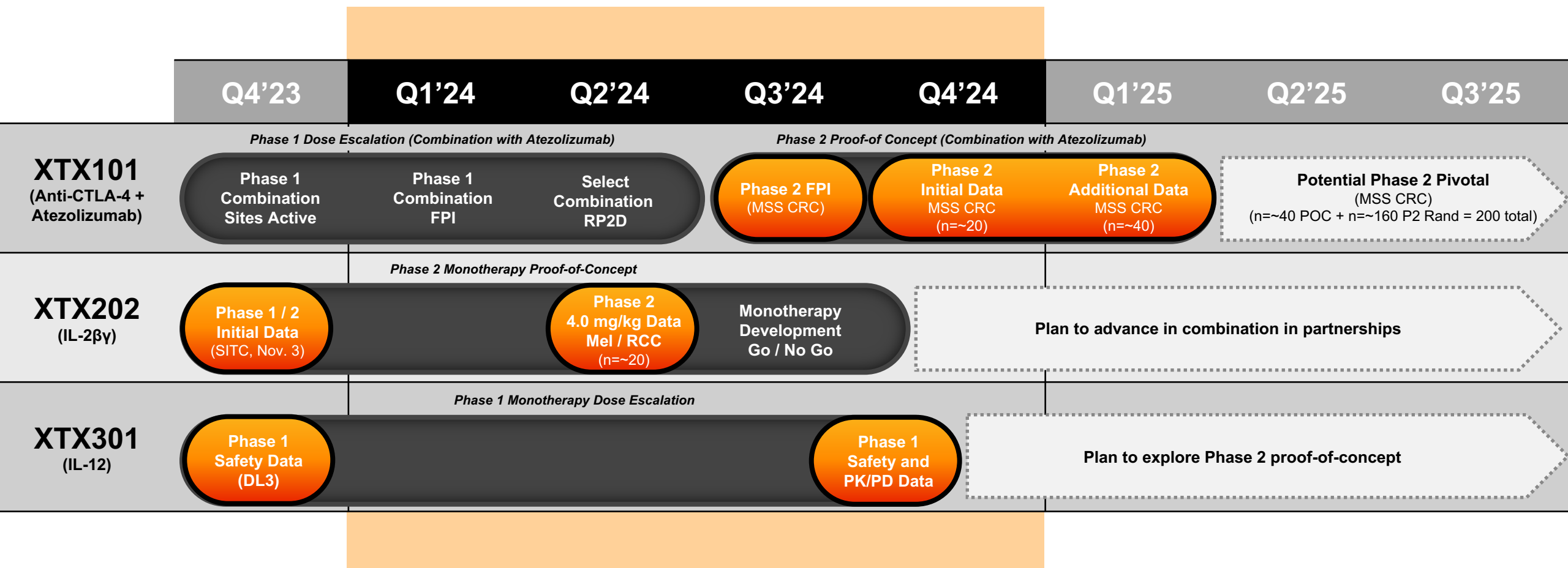
XTX202 Monotherapy
Phase 2 POC Data
(4.0 mg/kg)
in Melanoma and RCC

XTX301
(IL-12)

2H'24

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

Multiple Potential Clinical Milestones Anticipated in 2024*



* Anticipate existing cash and cash equivalents of \$75.4M as of June 30, 2023 will be sufficient to fund operating expenses and capital expenditure requirements into the end of Q2 2024. Milestones in Q2 2024 and beyond subject to obtaining sufficient additional capital.


Anticipate Existing Cash and Cash Equivalents Sufficient to Fund Operating Expenses and Capital Expenditure Requirements Into the End of Q2 2024

Balance Sheet

	September 30, 2023*	December 31, 2022
Cash and Cash Equivalents	\$59.8M	\$120.4M

Statement of Operations

	Three Months Ended September 30	
	2023*	2022*
Research & Development Expenses	\$11.1M	\$13.0M
General & Administrative Expenses	\$6.3M	\$7.2M
Loss from Operations	\$(17.4M)	\$(20.2M)



Xilio is working to deliver
highly potent, localized
immunotherapies
in cancer and beyond

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