Unleashing the Potential of Immuno-Oncology
Therapies
April 1, 2024



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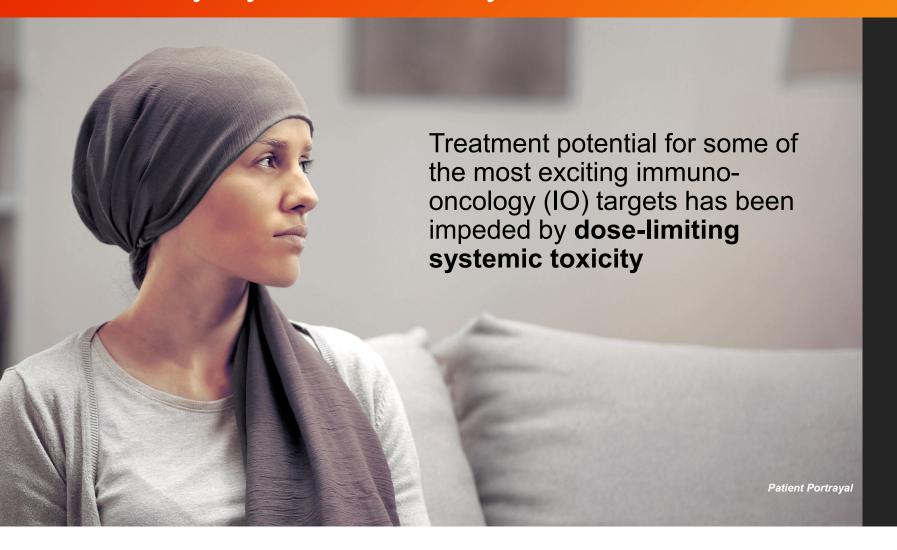
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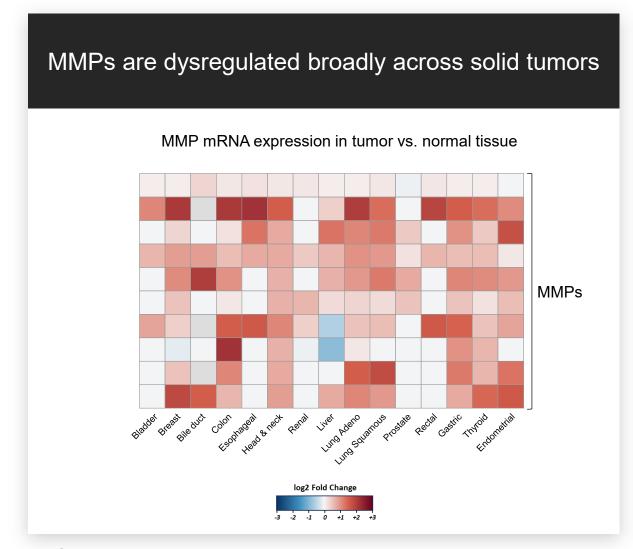
Immuno-Oncology Therapy Has Curative Potential But Has Been Limited by Systemic Toxicity

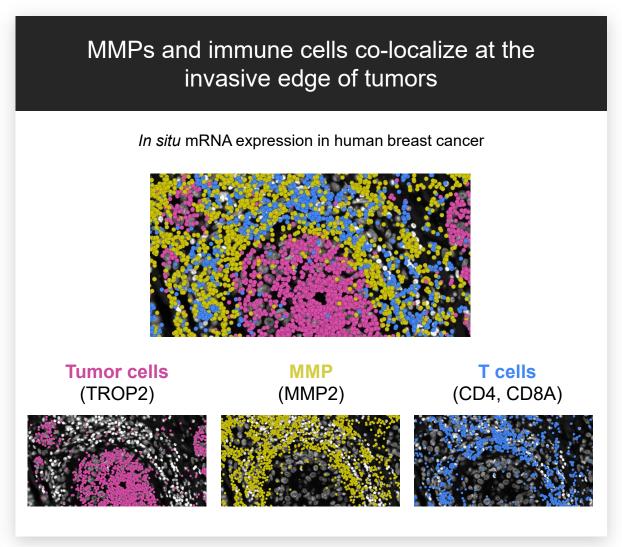


Xilio (ex-il-ee-oh) believes the next revolution in IO cancer therapies will trick tumors into activating their own treatments, while simultaneously sparing healthy tissues and cells, by leveraging dysregulated matrix metalloproteases (MMPs)



Xilio Exploits Dysregulated MMP Activity, a Hallmark of Invasive Cancer, to Activate Molecules in the Tumor Microenvironment

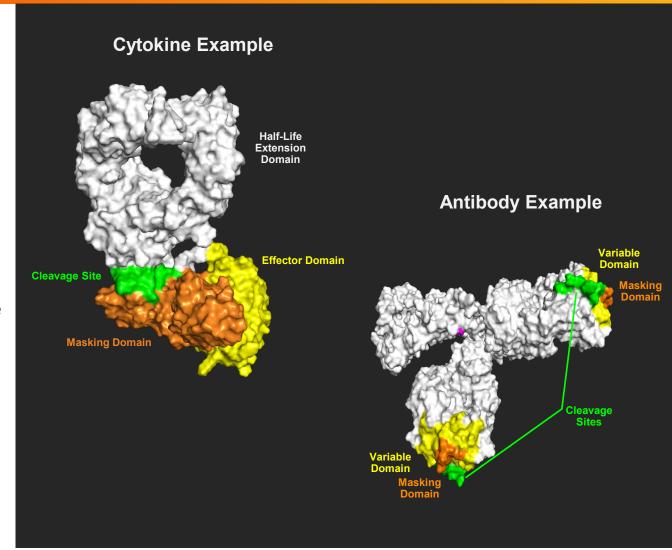






Xilio's Molecules are Designed to be Activated by Dysregulated MMPs in Tumors

- 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





Advancing Pipeline of Clinical and Preclinical Tumor-Activated Molecules

Program	Tumor Types	Mechanism of Action	Discovery	IND-Enabling	Phase 1	Phase 2	Phase 3	Partnerships
XTX101 in combination with atezolizumab ⁽¹⁾	Advanced MSS CRC	anti-CTLA-4 + PD-L1						Clinical collaboration with Roche (with co-funding)
XTX301 ⁽²⁾	Advanced Solid Tumors	IL-12						Exclusive global license with Gilead
XTX202 ⁽³⁾	Advanced RCC and Melanoma	ΙL-2βγ						Plan to explore strategic opportunities to develop in combinations ⁽³⁾
XTX501	Advanced Solid Tumors	PD-1/IL2 bispecific						
Additional research-stage programs	Undisclosed	Tumor-activated cell engagers						



^{1.} Evaluating XTX101 in combination with atezolizumab (Tecentriq®) in Phase 1 combination dose escalation trial and planned Phase 2 combination trial in MSS CRC.

Evaluating XTX301 in Phase 1 monotherapy dose escalation for the treatment of advanced solid tumors.
 Plan to discontinue further investment in XTX202 as a monotherapy
 MSS CRC: metastatic colorectal cancer; RCC: renal cell cancer

Opportunity for XTX101 in MSS CRC

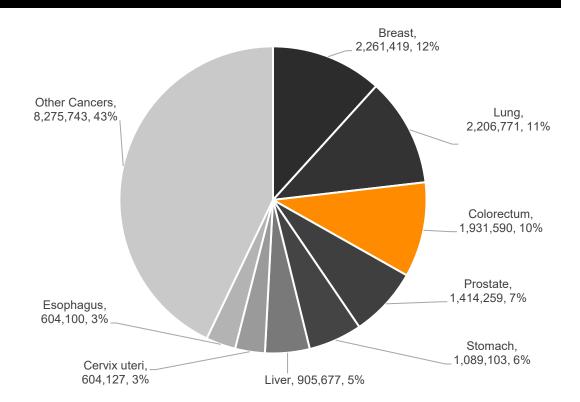
Pursuing XTX101 in Combination with Atezolizumab in MSS CRC



Colorectal Cancer is 3rd in Total Annual New Cases Globally

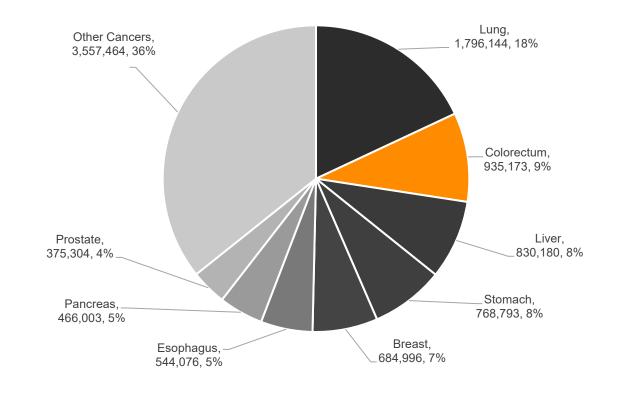
Number of new cases in 2020

(Global, both sexes, all ages)



Number of deaths in 2020

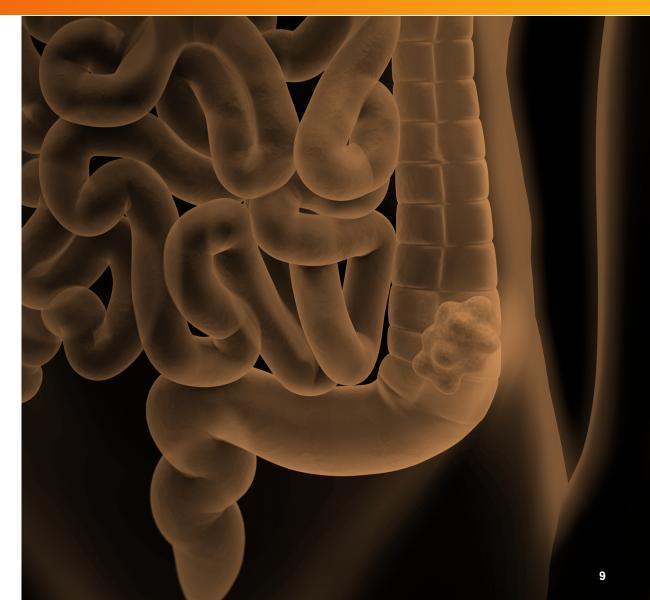
(Global, both sexes, all ages)





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).

Weng et al, Journal of Hematology & Oncology, (2022).
 MSI-H: microsatellite instability-high

^{2.} Cerner Enviza, CancerMPact® Treatment Architecture (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)

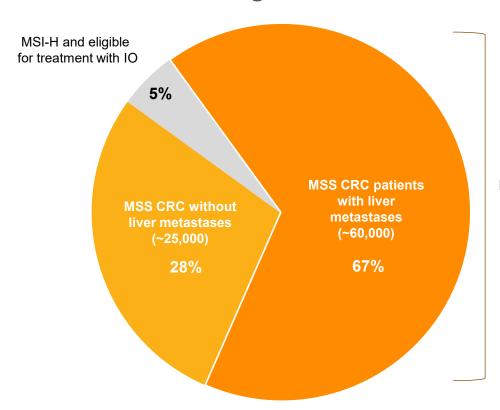
~90,000

~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



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

^{2.} Ooki et al, Journal of Anus Rectum Colon, (2021). MSI-H: microsatellite instability-high

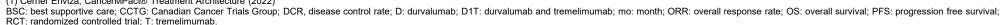
Historically, IO Therapies Have Shown Little to No Efficacy in MSS CRC

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





^{*} Three patients were given nivolumab, 1 mg/kg 1 ipilimumab, 1 mg/

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

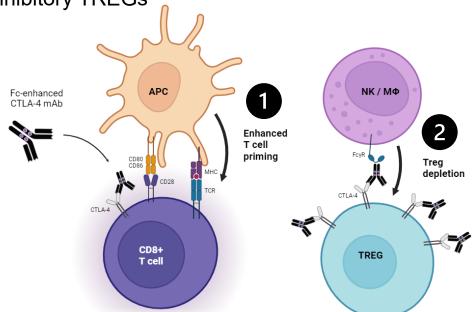
^{***} Atezolizumab + cobimetinib vs. regorafenib: HR, 1.25; 95% CI, 0.94–1.65; atezolizumab vs. regorafenib: HR, 1.39; 95% CI, 1.00–1.94.

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)

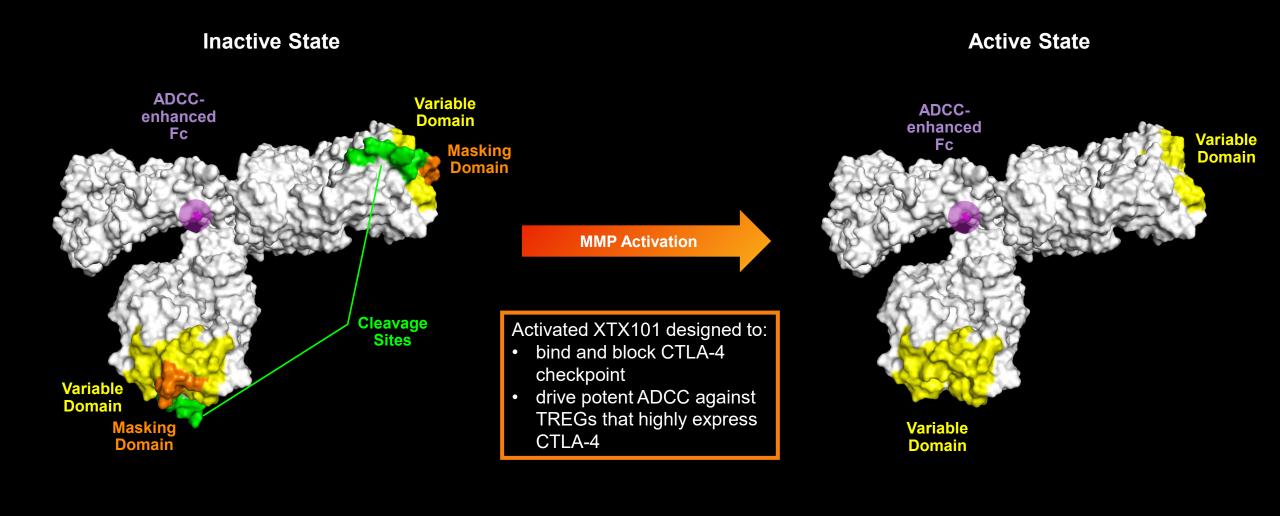
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XTX101

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

XTX101 Phase 1 Trial Design

Enrollment Completed

Phase 1A

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

Phase 1B

Monotherapy Expansion PD (1) (n=16 dosed)

Ongoing

Current dose level: 150 mg Q6W

Patient Characteristics	Total (N=36)				
Demographics					
Age, median (range)	63 (43, 80)				
Female	19 (53%)				
ECOG PS 0	10 (28%)				
ECOG PS 1	26 (72%)				
Prior Lines of Anti- Cancer Treatment	Median 4 (1-12)				
1	2 (6%)				
2	4 (11%)				
3	8 (22%)				
4	9 (25%)				
5	5 (14%)				
6 and more	8 (22%)				
Progressed on Prior Treatment with IO					
≥1	18 (50%)				

Tumor Types	Total (N=36)
Colorectal cancer	11
NSCLC	5
Pancreatic cancer	3
Breast cancer	3
Squamous cell skin	2
Uterine cancer	2
Merkel cell carcinoma	2
Melanoma	2
Cervical cancer	1
Prostate cancer	1
Gastric cancer	1
Fallopian tube cancer	1
Leiomyosarcoma	1
Esophageal cancer	1

Treatment Status	Total (N=36)		
Continuing on Treatment	3		
Discontinued Treatment	33		
Progressive Disease	18		
Adverse Events	4		
Consent Withdrawal (Hospice)	5		
Death	3		
Other	3		

- 83% of patients had 3 or more prior lines of treatment
- 50% of patients progressed on prior IO treatment



Patients on XTX101 150mg Q6W Experienced Minimal TRAEs

- No treatment discontinuations due to TRAEs at RP2D
- In N=18 patients treated at RP2D only 2 Grade 3 TRAEs observed
- No Grade 4 or 5 TRAEs at any dose level
- No endocrine and limited skin irAE

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

Data cutoff date: November 13, 2023.

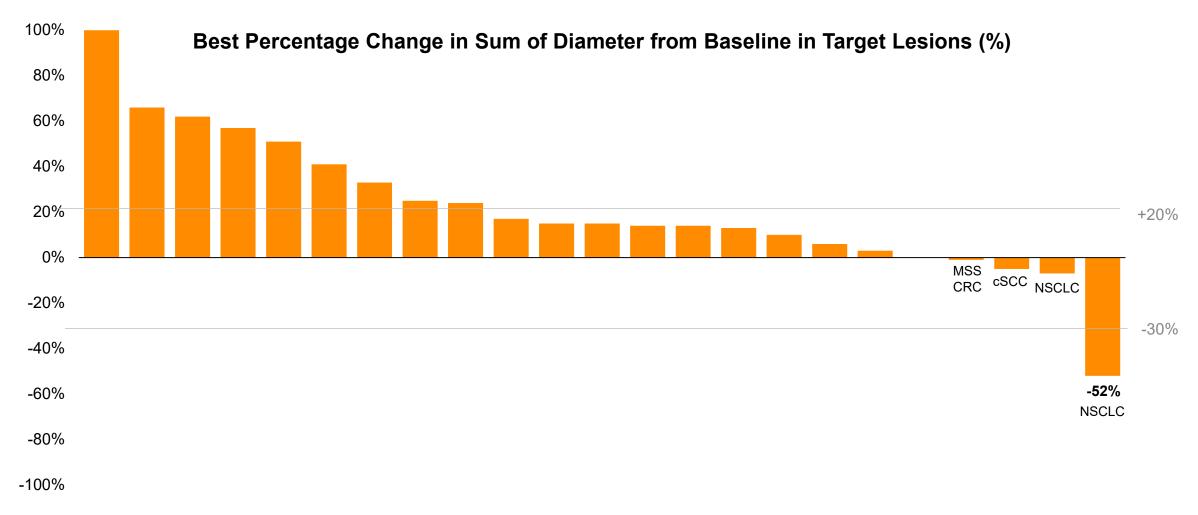
^{1.} The PT of diarrhea or colitis was reported among 7 unique patients, with 3 patients recording both diarrhea and colitis as TRAE

^{2.} 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 3. Infusion related reactions associated with antidrug antibodies.

^{4.} All treatment discontinuations due to TRAE were for an infusion reaction.

AE: adverse event; irAE: immune-related adverse event; Q3W: once every three weeks; RP2D: recommended Phase 2 dose.

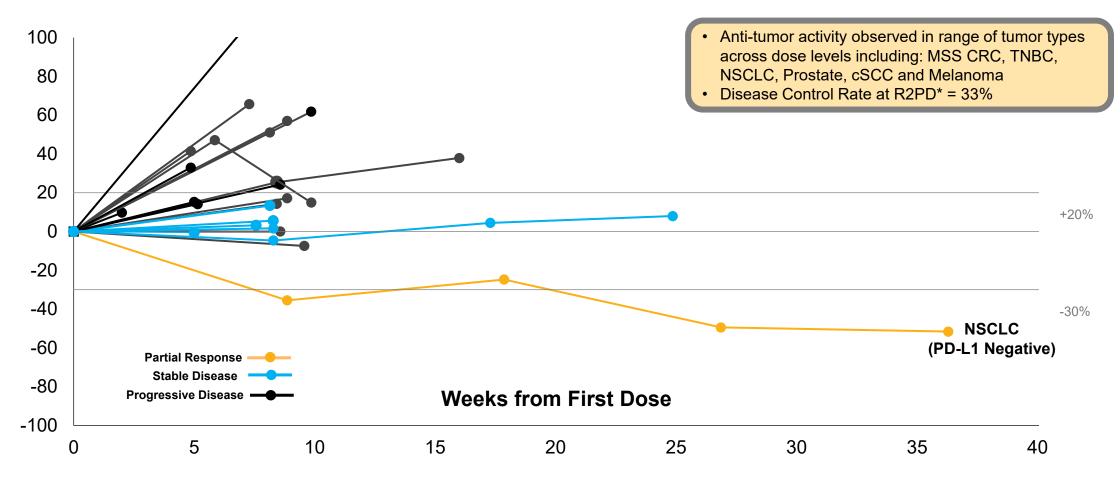
XTX101 Monotherapy Demonstrated Evidence of Anti-Tumor Activity in Phase 1 Trial





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

Change from Baseline in Target Lesion (%)





Deep and Durable Confirmed Partial Response (PR) Through Week 36 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

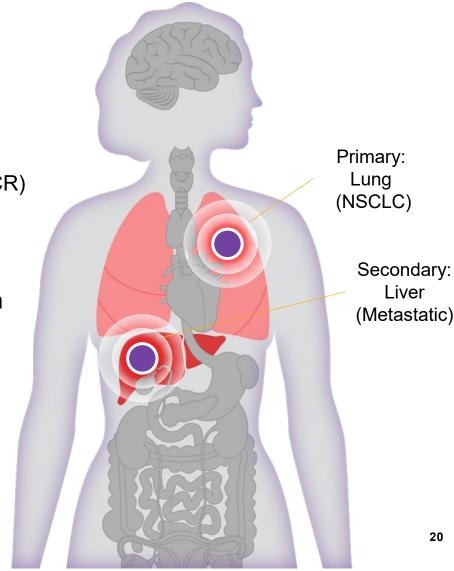
Previous Treatment: 4 cycles of paclitaxel and carboplatin (non-durable CR)

XTX101 Treatment: 150mg Q6W, 7 doses administered (36 weeks)

Related AE: Grade 1 fatigue (only)

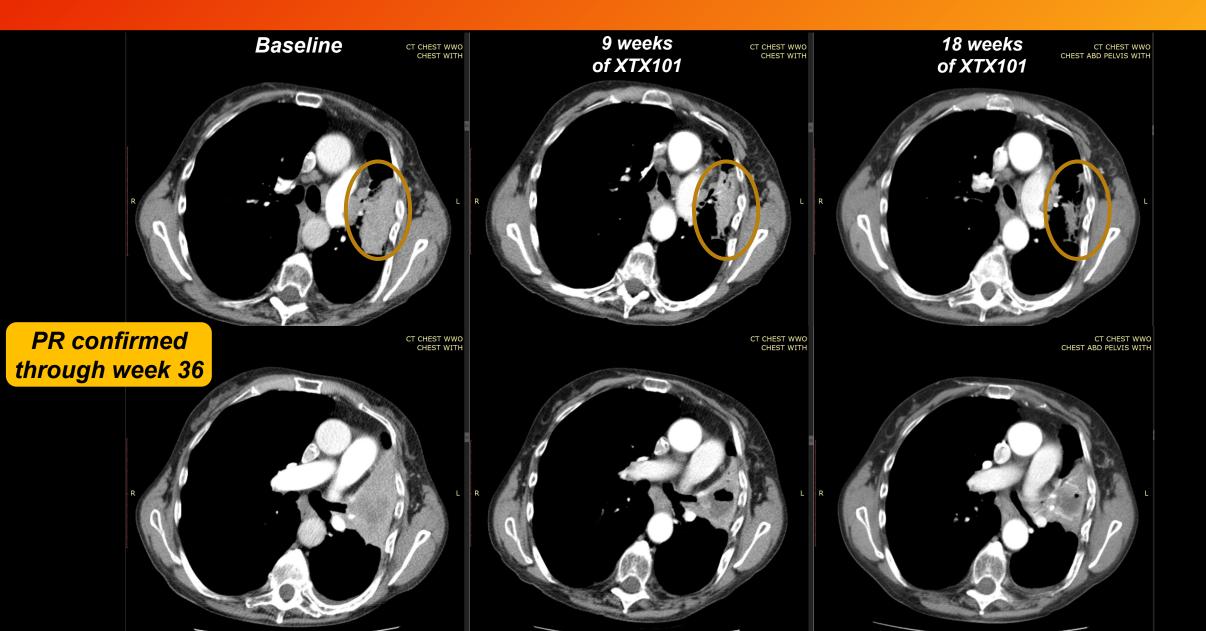
Anti-Tumor Activity: Reduction in the sum of diameters by 52% with resolution of liver metastases

Confirmed PR through week 36*

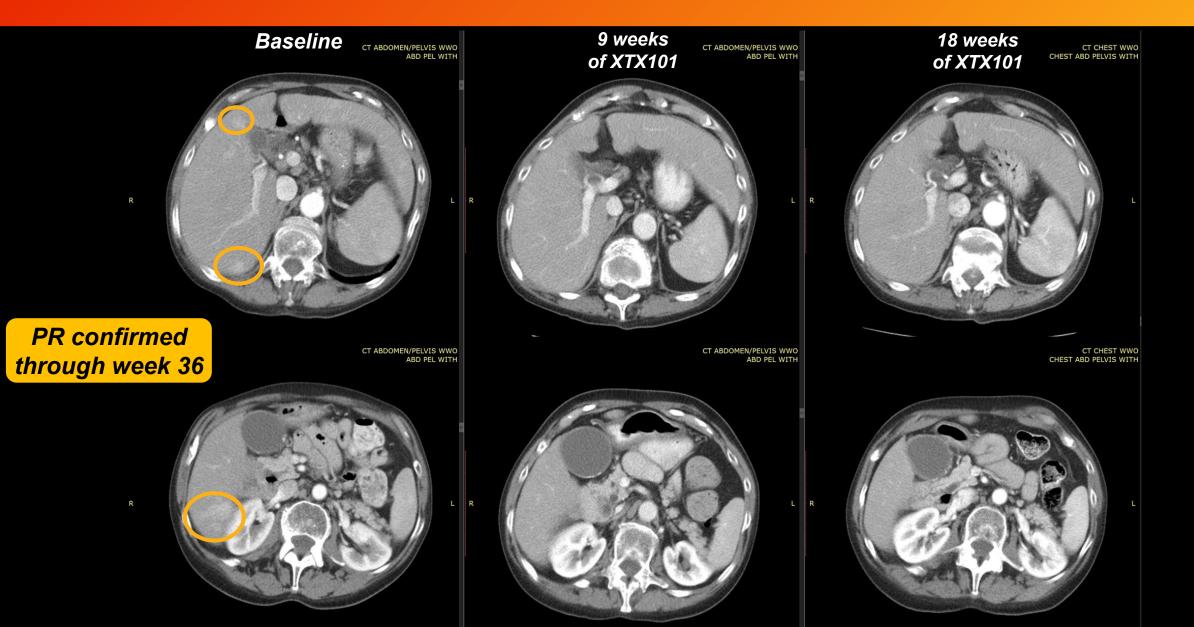




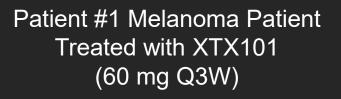
Primary Lung Lesion Decreased in Size and Developed Cavitation

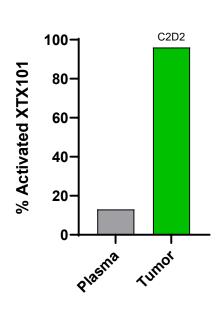


Hepatic Metastases Resolved At Initial Imaging on XTX101 Monotherapy



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



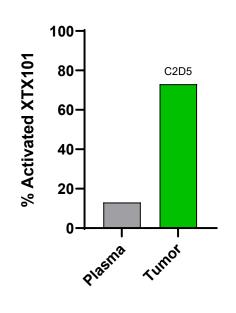


96% Activated Molecule in Tumor (metastatic lesion on calf)

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.

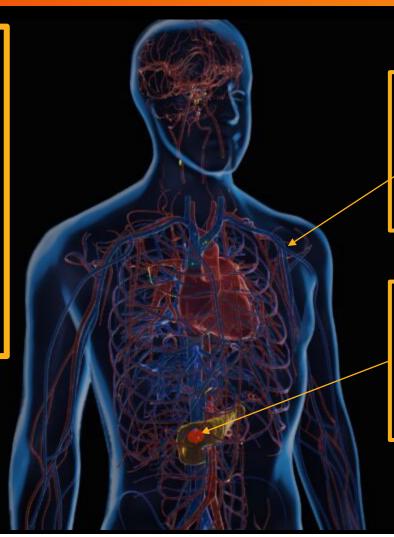
13% Activated Molecule in Plasma*



Activated XTX101 at RP2D Similar to 1.3_(AUC)/2.7_(Cmax) mg/kg Ipilimumab in Periphery and Projected Exposure Similar to ~15-20 mg/kg Ipilimumab in Tumors

XTX101 RP2D: 150 mg Q6W

- ~2.1 mg/kg for 70kg patient
- Potency adjustment vs ipilimumab ~10x based on preclinical data
- At 100% activation, estimated exposure for XTX101 equivalent to ~21 mg/kg ipilimumab



Estimated peripheral exposure for XTX101 at RP2D and ~13% activation equivalent to:

- ~1.3 mg/kg ipilimumab (AUC)
- ~2.7 mg/kg ipilimumab (C_{max})

Estimated tumor exposure for XTX101 at RP2D and ~73-96% activation equivalent to:

- ~15.3 mg/kg ipilimumab (@ 73% activation)
- ~20.1 mg/kg ipilimumab (@ 96% activation)



XTX101 Advancing under Co-Funded Clinical Collaboration: Enrollment in Phase 1 Dose Escalation Initiated Q4'2023

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

- ✓ Initiated enrollment in Q4 2023
- ✓ FPI in Q4 2023
- 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)

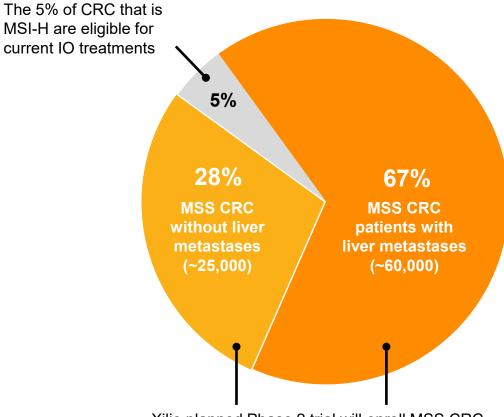
With and Without Liver Metastases

- 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 trial 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)
- 33% monotherapy DCR at RP2D across range of late-line and IO refractory tumors (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 potential pivotal trial in 2025



Next Anticipated Milestones

- Selecting a RP2D for XTX101 in combination with atezolizumab in Q2 2024
- Initiating Phase 2 for XTX101 in combination with atezolizumab in patients with MSS CRC in Q3 2024

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 INFy production



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



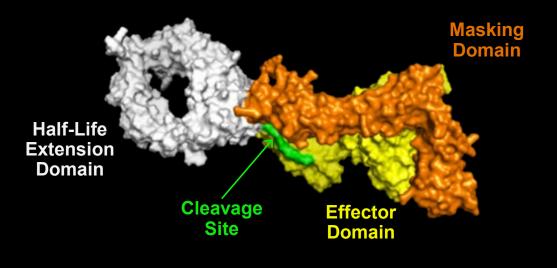
Robust INFy induction results in broad remodeling of the TME towards a more immune-permissive environment



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

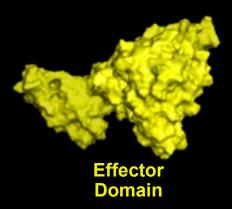


Active State



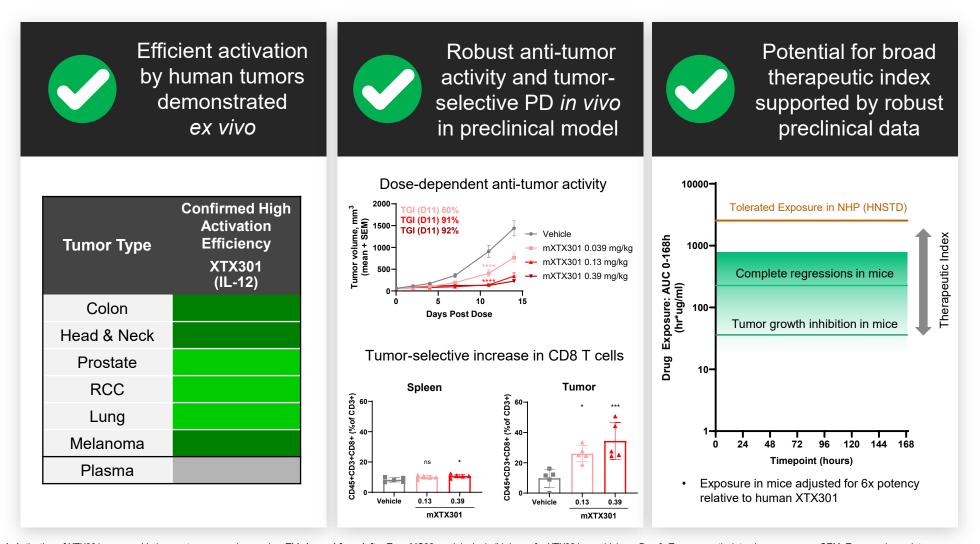
Activated XTX301:

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





XTX301: Designed to Overcome Limitations of Systemically Active IL-12





Entered Into Transformational Partnership with Gilead, Designed to Explore Broad Potential of IL-12 Across Solid Tumors

\$43.5M

total upfront payments

(\$30M cash payment + \$13.5M initial equity investment at a premium (\$1.97/share)

Up to \$604M additional contingent payments:

- Includes up to \$29M prior to transition fee for up to \$11.5M in additional equity investments (1) and a development milestone
- \$75M transition fee
- Up to \$500M for additional development, regulatory and sales-based milestones after transition fee

Tiered royalties: high single-digits to mid-teens

Gilead received an exclusive global license to develop and commercialize Xilio's tumor-activated IL-12 program, including XTX301

- Xilio responsible for clinical development of XTX301 in ongoing Phase 1 trial through initial planned Phase 2 trial
- Following delivery by Xilio of specified clinical data package for XTX301, Gilead can elect to pay transition fee and transition development and commercialization to Gilead (2)





XTX301 Phase 1

Monotherapy Dose Escalation Initial Data



XTX301 Monotherapy Phase 1 Dose Escalation: No DLTs Observed Into DL3 (45 µg/kg, ~100x MTD for rhlL-12)

Phase 1A Monotherapy Dose Escalation Advanced solid tumors 3+3 design with optional dose expansion (up to 10 patients per cohort)

Phase 1B Monotherapy PD Cohort

- n = up to 40
- Selected solid tumors

Current Dose Level DL3: 45 µg/kg DL1: 5 µg/kg No DLT No DLT

- XTX301 is administered in the outpatient setting
- DL3 (45 ug/kg) equivalent to ~100x MTD for rhIL-12
- Generally well-tolerated into DL3
- No DLTs reported through data cutoff date



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 dose escalation enrollment ongoing, n=9 patients treated to date
 - Starting dose (dose level 1) of 5µg/kg Q3W
 - Current dose (dose level 3) of 45 μg/kg, nearly 100x MTD of rhIL-12
 - Generally well-tolerated, no dose limiting toxicities observed through data cutoff date



Phase 1 safety and PK/PD data in Q4 2024

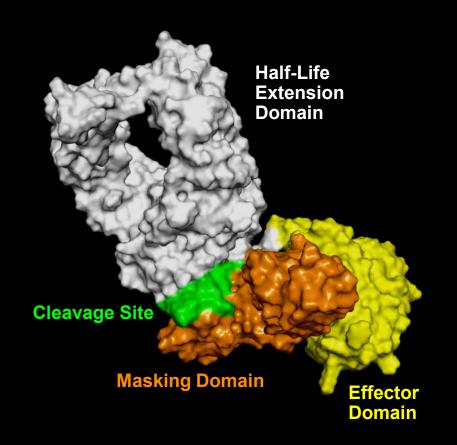
XTX202

Tumor-Activated, Beta-Gamma IL-2



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

Inactive State

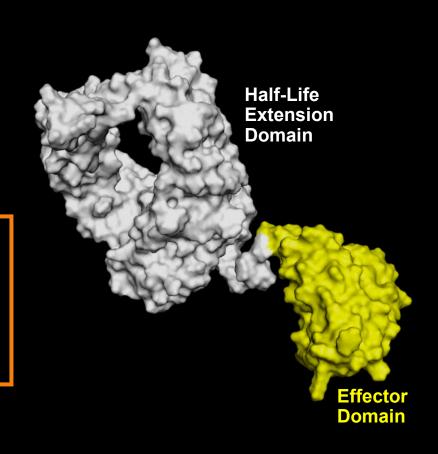


Active State

MMP Activation

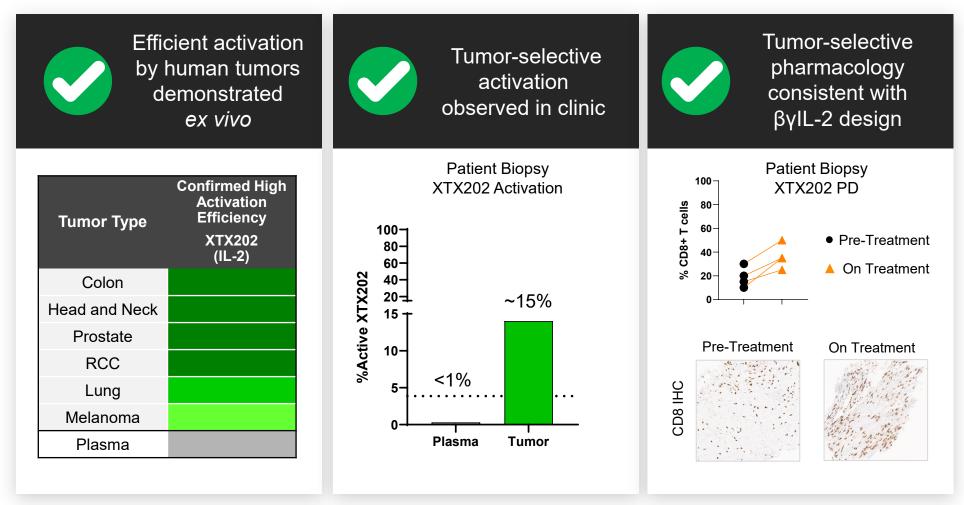
Activated XTX202:

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





XTX202: Evidence of Tumor-Selective Activation Validating Xilio Platform



First panel: Activation of XTX202 assessed in human tumor samples ex vivo.

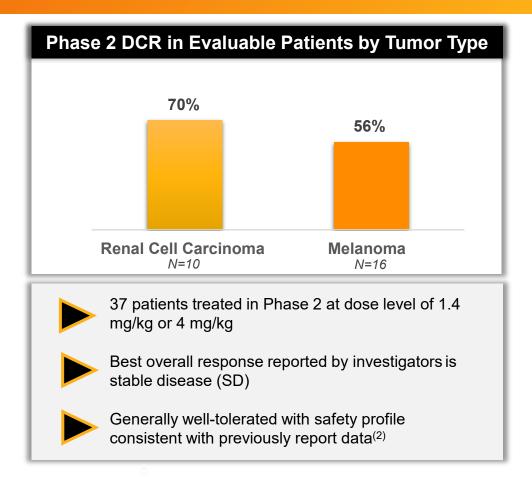
Second panel: Biopsy of 1 patient treated with XTX202 at 2.8 mg/kg dose level, which was the only biopsy available for XTX202 bioanalytical analysis. Percent activated XTX202 in tumor was calculated using raw liquid chromatography / mass spectrometry data. Tumor biopsy specimen was collected cycle 2, day 2. 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. Third panel: Intratumoral CD8+ T cell increases observed in four patient biopsies. Patients had an optional on-treatment tumor biopsy and were the only four patients treated with XTX202 for whom a tumor biopsy analysis was available as of August 1, 2023. Top: CD8+ T cells assessed by Fluorescence-Activated Cell Sorting (FACS) for peripheral blood and Immunohistochemistry (IHC) for tumor. Change in CD8+ cells in tumor takes into account increase in stromal TILs and CD8+ IHC.



NK: natural killer

XTX202 is Combination Ready with Dose Dependent Anti-Tumor Activity Across a Broad Range of Tumor Types and a DCR Rate > 50% at 4 mg/kg

Dose Level ⁽¹⁾ (mg/kg)	# Patients Treated (Phase 1 & 2)	# EOT Without Response Assessment	# Ongoing Before 1st Response Assessment	# Response Evaluable	# SD for 9+ Weeks as BOR	DCR (% of evaluable)
<1.4	16	2	0	14	2	14%
1.4	22	1	0	21	8	38%
2.8	13	6	0	7	3	43%
4	44	5	8	31	16	52%
All	95	14	8	73	29	40%

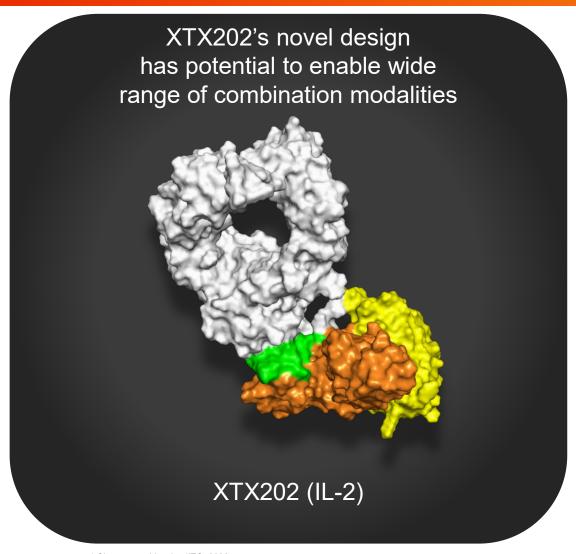


Best response: long-term stable disease (> 18 months) in Stage IV MSS CRC patient with liver metastases



Data cutoff date: March 6, 2024.

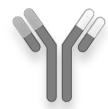
Combination with IL-2 Required for Many Modalities to Pursue Maximum Potential and XTX202 Well-Suited for Broad Applications





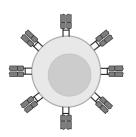
Cell Engagers

- Increased quantity and quality of effector cells induced by XTX202 benefits T cell engagers, as well as NK engagers
- Demonstrated combination benefit preclinically (internal data on file)



Checkpoint Inhibitors

 Preclinical data supportive of IL-2 combination with checkpoint inhibitors including CTLA-4^(2,3)



Cell Therapies

- TIL-based therapies require co-administration with IL-2 to engraft and expand T cells
- IL-2 co-administration limited by poor aldesleukin tolerability⁽¹⁾



Cancer Vaccines

 IL-2 addition key to vaccination regimen enabled eradication of large tumors in preclinical studies⁽⁴⁾



.Chesney and Lewis, JITC, 2022

2. Broucek et al., JITC, 2013

3. Caudana et al., Cancer Immunology Research, 2019

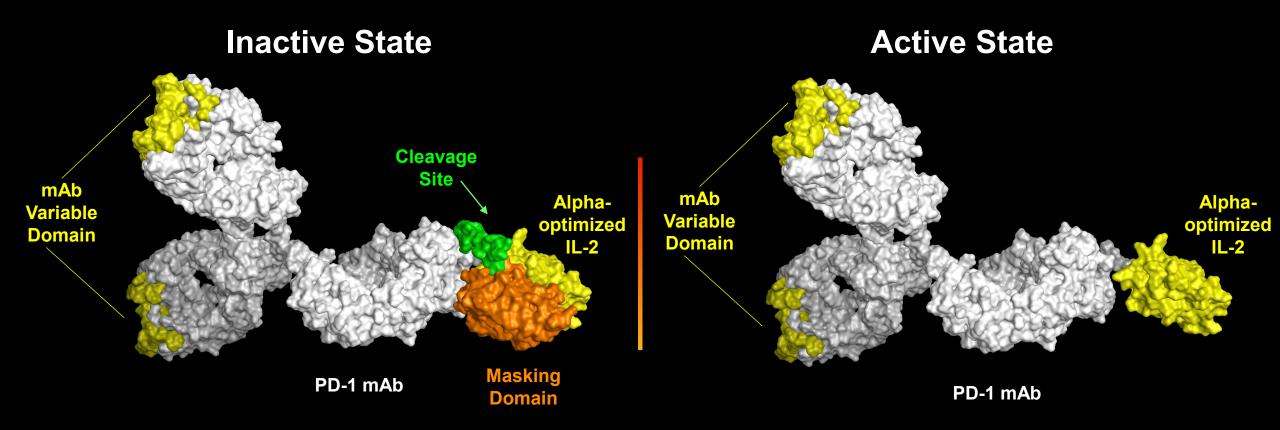
4. Movnihan et al., Nature Medicine, 2016

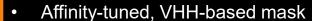
XTX501

PD1/IL2 bispecific



XTX501: Xilio's Clinically Validated Technology Extended to Create Tumor-Activated PD1/IL2 Bispecific

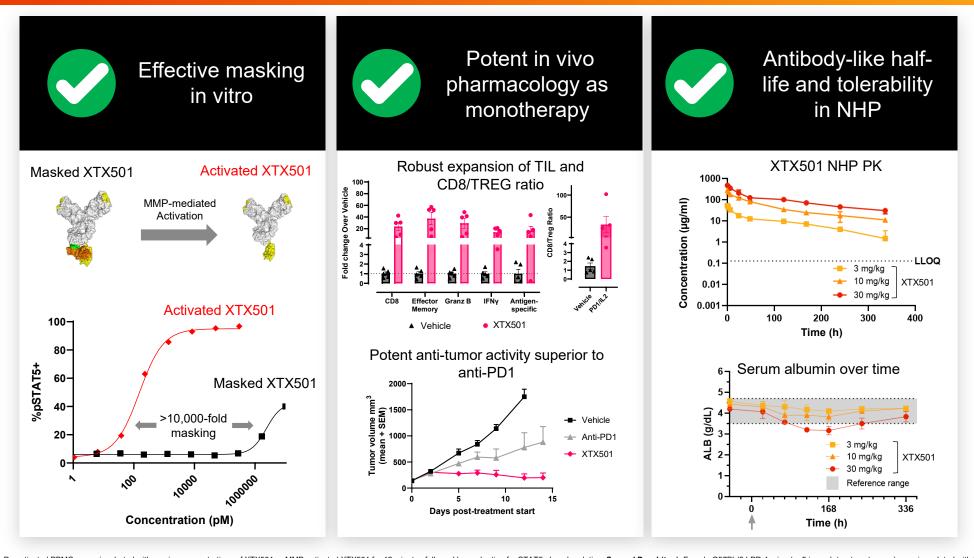




- Alpha-optimized IL-2
- Non-masked PD1 in Fc-silenced heterodimeric IgG1 backbone
- XTX501 designed to direct IL-2 to PD1+ T cells

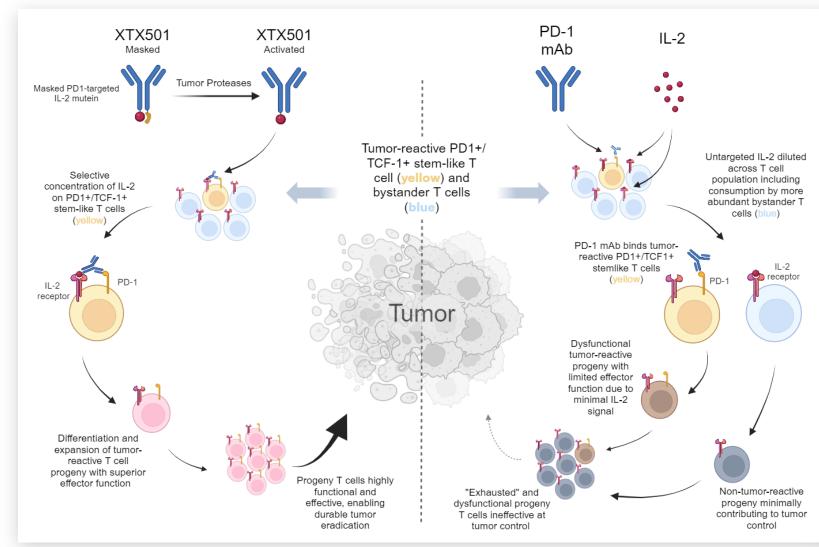


XTX501: Tumor-Activated PD1/IL2 Bispecific Demonstrated Synergistic Anti-Tumor Activity, Antibody-Like PK and Favorable Tolerability in NHP





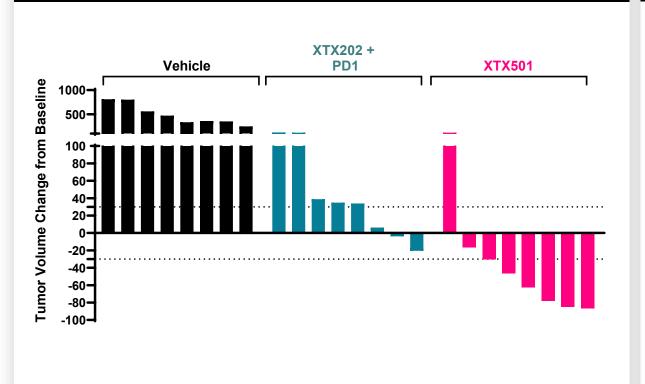
XTX501 Designed to Induce a Differentiated, Enhanced Immune Response to Cancer Compared to PD-(L)1 Monotherapy or PD-(L)1 + IL-2 Combination



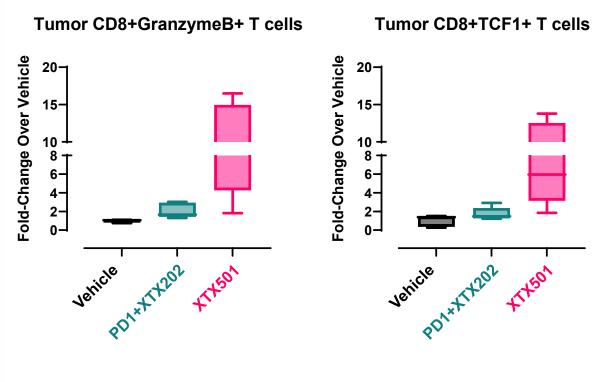
- Targeted delivery of IL-2 to PD1+ cells selectively enhances IL-2 signaling on tumor-reactive, stem-like T cells
- Drives unique differentiation program in progeny effector T cells endowing them with superior effector function and anti-tumor activity
- Not achievable with PD-(L)1
 monotherapy or IL-2 combo
 since no concurrent selective
 targeting of tumor-reactive cells

XTX501 Demonstrated Differentiated Pharmacology vs PD1 or PD1+XTX202 Indicative of Enhanced Anti-Tumor Immunity

Robust Preclinical Monotherapy Activity Beyond XTX202 + PD1 Combination



XTX501 Increased Intra-tumoral Cytotoxic and TCF1+ Stem-like T cells



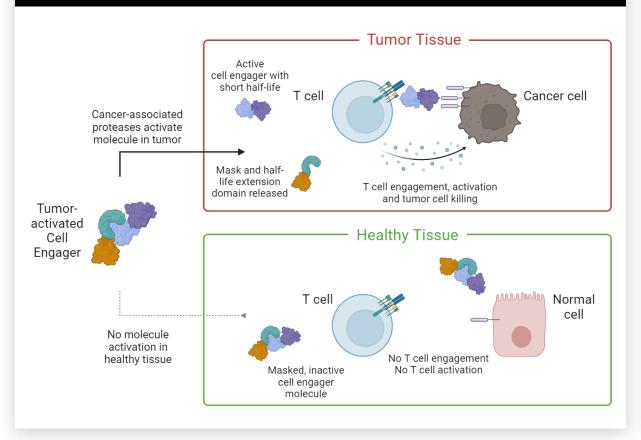


Xilio Cell Engager Programs

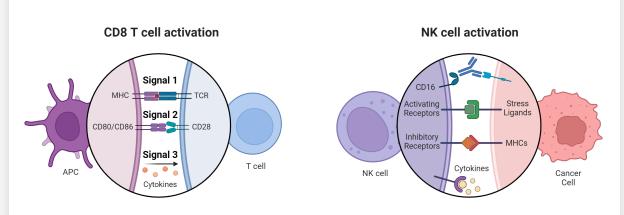


Xilio is Developing Two Formats of Tumor-Activated Cell Engagers Built on our Validated Masking Approach and Conditional Half-life Optimization

<u>A</u>dvanced <u>T</u>umor-<u>A</u>ctivated <u>C</u>ell Engage<u>R</u>s (ATACRs)



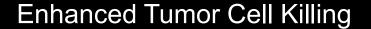
Selective Effector-Enhanced Cell EngageRs (SEECRs)

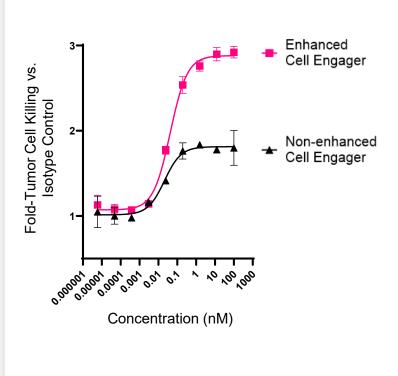


- Designed to provide multiple stimulatory signals in a tumor-selective manner
- Uniquely enabled by Xilio's masking approach, keeping individual components masked until activated in the tumor microenvironment

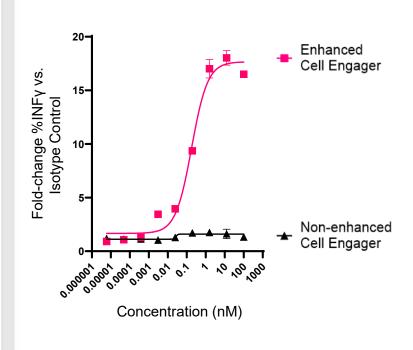


SEECR Format Demonstrated Enhanced Functionality Compared to Established Cell Engager Format

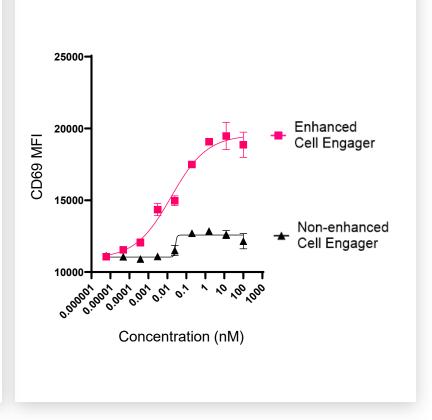




Potent IFNy Induction



Increased Expression of CD69 Activation Marker





Positioned for Multiple Anticipated Key Clinical Milestones in 2H 2024 Anticipate Cash Runway Into Q2 2025*



XTX301 (IL-12)

<u>Announced Partnership with Gilead</u>
Exclusive global license for IL-12 program

XTX202 (IL-2)

Reported Additional Phase 2 Data (1)

Plan to explore strategic opportunities to continue to develop XTX202 in combination with other agents

RP2D in Combination Dose Escalation (2)

Plan to select RP2D for XTX101 + atezolizumab

XTX501 (PD-1/IL2 bispecific)

Preclinical poster presentation at AACR

XTX301 (IL-12)

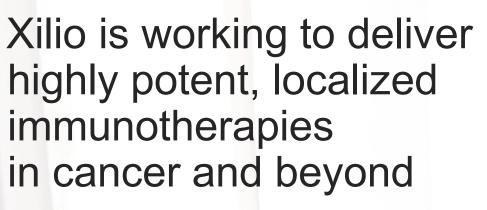
Report Phase 1 Data

Plan to report Phase 1 safety, PK and PD data for XTX301 in patients with advanced solid tumors



^{1.} In March 2024, announced plans to discontinue further investment in XTX202 as a monotherapy.

Evaluating XTX101 in combination with atezolizumab (Tecentriq®) under co-funded clinical collaboration with Roche in Phase 1 combination dose escalation trial and planned Phase 2 combination trial in MSS CRC.
 As of December 31, 2023, cash and cash equivalents were \$44.7 million. Anticipated cash runway includes cash and cash equivalents as of December 31, 2023, together with upfront payment under license agreement with Gilead, proceeds from initial equity investment by Gilead, anticipated net proceeds from the private placement and after giving effect to one-time costs and anticipated future cost savings associated with the strategic portfolio reprioritization and workforce reduction and repayment of outstanding loan balance under PacWest loan agreement in the first quarter of 2024.



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



