



Targeting tumor suppressor loss
to unmask vulnerabilities in cancer
for the next generation of precision medicines

Corporate Overview
October 2022

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Certain statements in this presentation may be considered forward-looking statements. Forward-looking statements generally relate to future events, Tango's future financial and operating performance, goals, expectations, beliefs, development plans and development objectives for Tango's product pipeline. In some cases, you can identify forward-looking statements by terminology such as "may", "should", "expect", "intend", "will", "path", "achievable", "milestones", "goal", "forecast", "estimate", "anticipate", "believe", "predict", "potential" or "continue", or the negatives of these terms or variations of them or similar terminology. For example, statements concerning the following include or constitute forward-looking statements: Company has a cash runway into 2H 2024; Company has a productive discovery platform, Tango has a sustainable pipeline of novel precision oncology drugs and drug programs; the anticipated milestones for the Company's drug programs, including the timing for initial (and final) safety and efficacy clinical trial data and results, the timing of first-in-human clinical trials, the timing of IND-enabling studies, the timing of IND filings, the timing of clinical trial initiation and the timing of development candidate declaration; Tango's discovery platform and its increased probability of meaningful clinical results; there is a clear path to clinical POC in MTAP-null solid tumors with multiple histologies; potential for histology-agnostic registration for PRMT5 inhibitor with broad based activity across tumor types; the Company is actively enrolling patients in the TNG908 clinical trial; the Company's drug candidates planned for 2022; TNG908 is a potentially first in class PRMT5 inhibitor that is synthetic lethal with MTAP deletion; the Company will be pursuing novel combination therapies with inhibitors that have a complementary mechanism of action; TNG908 composition of matter patent expected to expire no earlier than 2041 (and that pending patent applications related thereto will issue as patents); TNG462 is potential best-in-class PRMT5 inhibitor (and has potential for broader and deeper clinical activity and is expected to have an increased therapeutic index and efficacy); the development plans for the PRMT5 franchise (including future multiple combination trials and plans to evaluate TNG908 and TNG462 in clinical studies); future clinical trial designs; the significant patient opportunities for the Company's pipeline therapies; synergy of USP1 in both PARP-sensitive and -resistance models suggests potential to meaningfully expand patient benefit from PARP inhibitors; Tango has sufficient cash balance to fund operations into second half of 2024 (and is sufficient to achieve multiple projected key milestones); the anticipated benefits of synthetic lethal drugs; planned expansion cohort of the TNG908 phase 1/2 clinical trial for glioblastomas; TNG908 expected to be brain penetrant in clinical study; projected dose escalations in TNG908 phase 1/2 study; the Company's key milestones for 2022 and 2023; one of the largest genetically defined patient populations may benefit from the PRMT5 franchise; and the anticipated benefits of future product candidates including those identified in the future through the Tango discovery platform. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward looking statements. These forward-looking statements are based upon estimates and assumptions that, while considered reasonable by Tango and its management, are inherently uncertain. Drug development, clinical trials and commercialization involve a high degree of risk, and only a small number of research and development programs result in commercialization of a product. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Factors that may cause actual results to differ materially from current expectations include, but are not limited to: Tango has a limited operating history and has not generated any revenue to date from drug sales, and may never become profitable (and may utilize cash resources more quickly than anticipated); Tango has limited experience with conducting clinical trials (and will rely on a third party to operate the clinical trial for TNG908) and may not be able to commence the clinical trial, enroll and dose patients when expected and may not generate results in the anticipated timeframe (or at all); the benefits of Tango pipeline products (stand-alone and as potential combination therapies) that are seen in pre-clinical experiments may not be present in clinical trials or in use commercially or may not be safe and/or effective in humans (and Tango or a third-party may not be able to obtain approval or commercial sales of any stand-alone or combination therapies); Tango has incurred significant operating losses and anticipates continued losses for the foreseeable future; Tango will need to raise capital in the future and if it is unable to raise capital when needed or on attractive terms, the Company would be forced to delay, scale back or discontinue some of our development programs or future commercialization efforts; Tango may be unable to advance the preclinical development programs into and through the clinic for safety or efficacy reasons or experience significant delays in doing so as a result of factors beyond Tango's control; Tango's approach to the discovery and development of product candidates is novel and unproven, which makes it difficult to predict the time, cost of development, and likelihood of successfully developing any products; Tango may not identify or discover development candidates (including next generation products) or may expend a portion of its limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success; delays or difficulties in the initiation, enrollment or dosing of patients in clinical trials could delay or prevent receipt of regulatory approvals; our products candidates may cause adverse or other undesirable side effects that could, among other things, delay or prevent regulatory approval; our dependence on third parties for conducting clinical trials and producing drug product; our ability to obtain and maintain patent and other intellectual property protection for our technology and product candidates or the scope of intellectual property protection obtained is not sufficiently broad; and delays and other impacts on product development and clinical trials from the COVID-19 pandemic. Additional information concerning risks, uncertainties and assumptions can be found in Tango's filings with the SEC, including the risk factors referenced in Tango's Annual Report on Form 10-K for the year ended December 31, 2021, as supplemented and/or modified by its most recent Quarterly Report on Form 10-Q. You should not place undue reliance on forward-looking statements in this presentation, which speak only as of the date they are made and are qualified in their entirety by reference to the cautionary statements herein. Tango specifically disclaims any duty to update these forward-looking statements.'

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COMPANY OVERVIEW

Tango summary



Precision oncology company based on synthetic lethality, combining discovery and clinical development in the same genetic context



Expanding oncology target space into tumor suppressor gene loss with a productive, state-of-the-art discovery platform



Sustainable pipeline of novel drug programs for cancers with specific tumor suppressor gene
Multiple development candidates declared in 2022

A novel synthetic lethal PRMT5 inhibitor for MTAP-deleted cancers in the clinic and a next generation molecule expected to file an IND in 1H 2023

A novel synthetic lethal CoREST inhibitor targeting STK11-induced immune evasion expected to file IND in 1H 2023



Broad strategic collaboration with Gilead based on immune evasion effects of tumor suppressor gene loss



Management team with deep expertise in cancer genetics, drug discovery, clinical development
Cash runway into at least 2H 2024

Leaders in drug discovery, cancer biology, functional genomics and translational medicine



LEADERSHIP



Barbara Weber, MD
CEO



Alan Huang, PhD
CSO



Daniella Beckman
CFO



Charles Davis, PhD
Pharmaceutical Sciences



Doug Barry
General Counsel



John Ross
Human Resources



Heather DiBenedetto
Development Operations



Jannik Andersen, PhD
Biology



Bill Mallender, PhD
Biochemistry



John Maxwell, PhD
Chemistry

BOARD OF DIRECTORS



Alexis Borisy
Chairman



Lesley Calhoun



Aaron Davis



Reid Huber, PhD



Malte Peters, MD



Mace Rothenberg, MD



Barbara Weber, MD

Scientific advisors

In memoriam
1959-2021



José Baselga, MD PhD
Head of Oncology R&D
AstraZeneca



Alan Ashworth, PhD FRS
President
UCSF Cancer Center



Bill Kaelin, MD
Professor, Dana Farber
Cancer Institute



Antoni Ribas, MD PhD
Professor
UCLA



Ulrich Elling, PhD
Investigator
Institute of Molecular
Biotechnology, Vienna



John Doench, PhD
Institute Scientist
Broad Institute

Leaders in cancer genetics, synthetic lethality, CRISPR technology and immuno-oncology

A strong strategic partnership with Gilead

SCOPE	RESEARCH AND DEVELOPMENT	RIGHTS	SHARED ECONOMICS	DEAL TERMS
15 TARGETS IMMUNE EVASION 2 licensed, 2 option-extended to date	TANGO TARGET VALIDATION TO CLINICAL POC Funded by milestone payments during option extension	TANGO FULL RIGHTS RETAINED TO THREE LEAD PROGRAMS All new cell autonomous targets	5 PROGRAMS CO-DEVELOP AND CO-PROMOTE	\$125M UPFRONT
\$6B MILESTONES \$410M/program Up to \$110M through clinical POC	GILEAD MULTIPLE TIMEPOINTS TO LICENSE A PROGRAM	GILEAD LICENSE RIGHTS All immune evasion targets	50/50 US PROFIT/LOSS ON CO-CO PROGRAMS	\$20M EQUITY
				LOW DOUBLE DIGIT ROYALTIES



A sustainable precision oncology pipeline of novel targets

PROGRAM	PATIENT SELECTION	DISCOVERY	IND-ENABLING	CLINICAL TRIALS		ANTICIPATED MILESTONES
				Phase 1/2	Phase 3	
PRMT5 TNG908	MTAP-del cancers	<div></div>		<div></div>		Initial clinical data 1H 2023
PRMT5 TNG462		<div></div>		<div></div>		IND filing 1H 2023
CoREST TNG260	STK11-mut cancers	<div></div>		<div></div>		IND filing 1H 2023
USP1	BRCA1/2-mut cancers	<div></div>		<div></div>		Development candidate 2H 2022 IND filing 2023
Multiple synthetic lethal targets	Tumor suppressor gene loss	<div></div>		<div></div>		

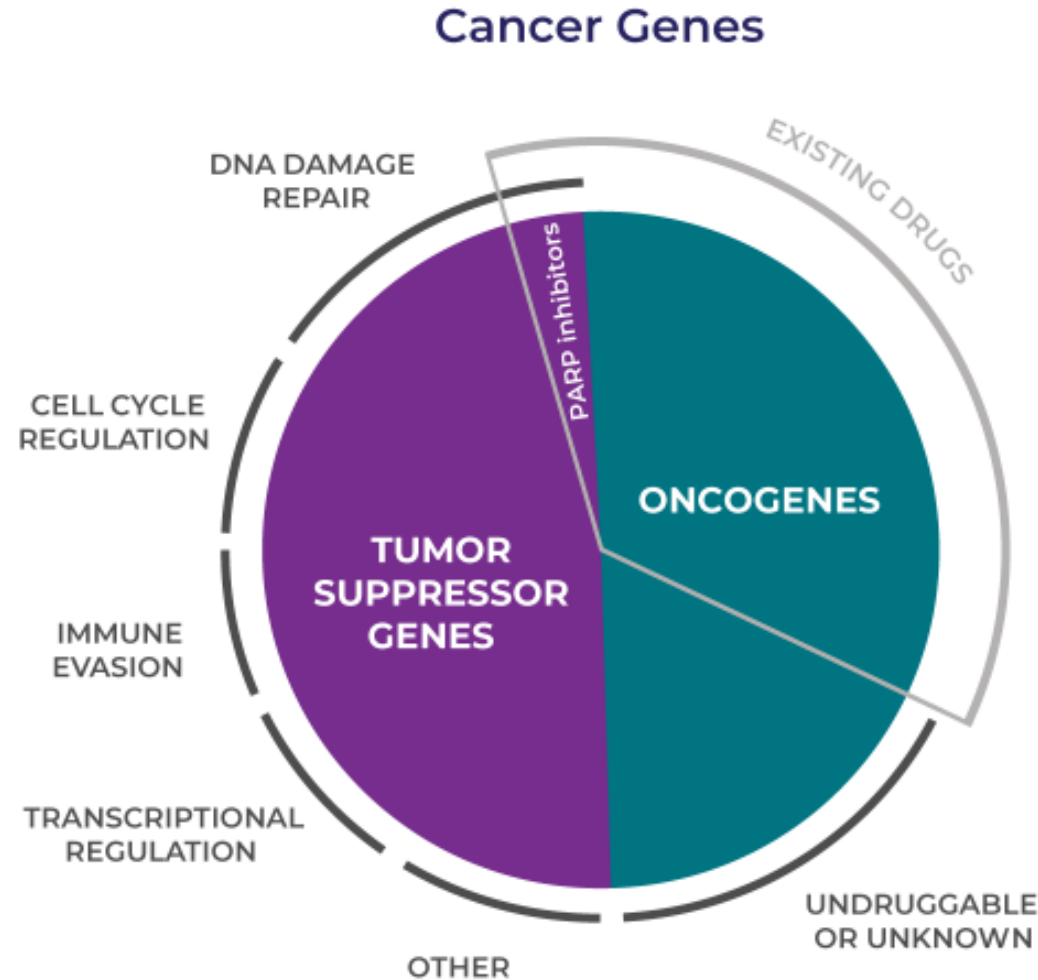
Gilead options and licensed targets not listed

SYNTHETIC LETHALITY FOR CANCER THERAPEUTICS

Most cancer targets are not drugged yet

TUMOR SUPPRESSOR GENES

- Important drivers of cancer inactivated or deleted in almost all human cancers
- Not directly druggable
- Indirectly targeted with synthetic lethality
- PARP inhibitors are the first examples of synthetic lethal targeting



SYNTHETIC LETHALITY

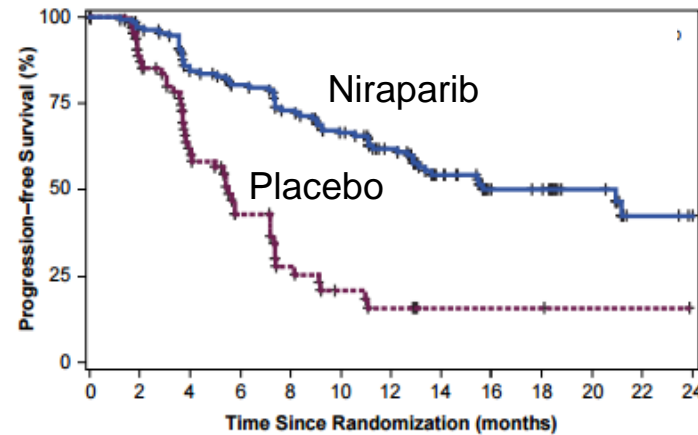
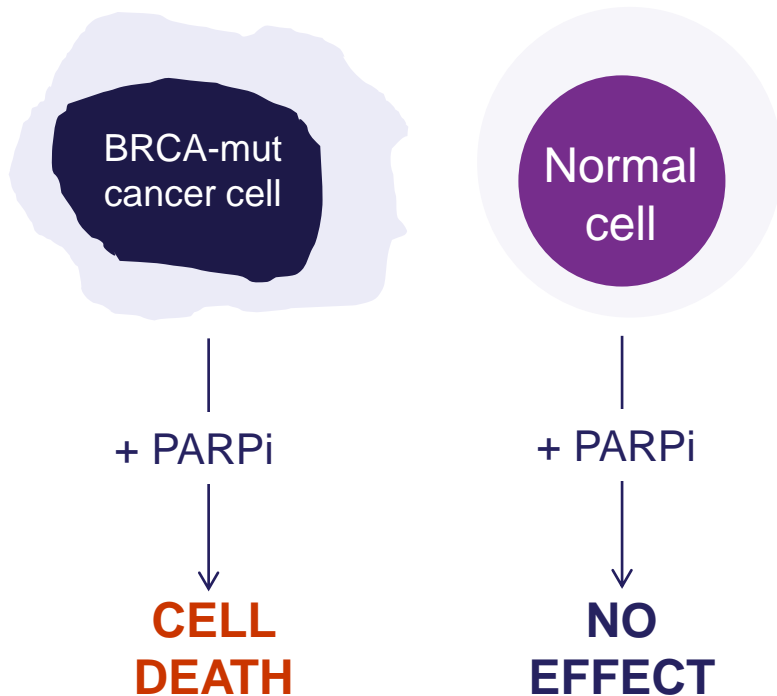
is currently the only way to target tumor suppressor gene loss

CRISPR TECHNOLOGY

makes large scale synthetic lethal discovery efforts feasible

PARP is the first synthetic lethal drug target

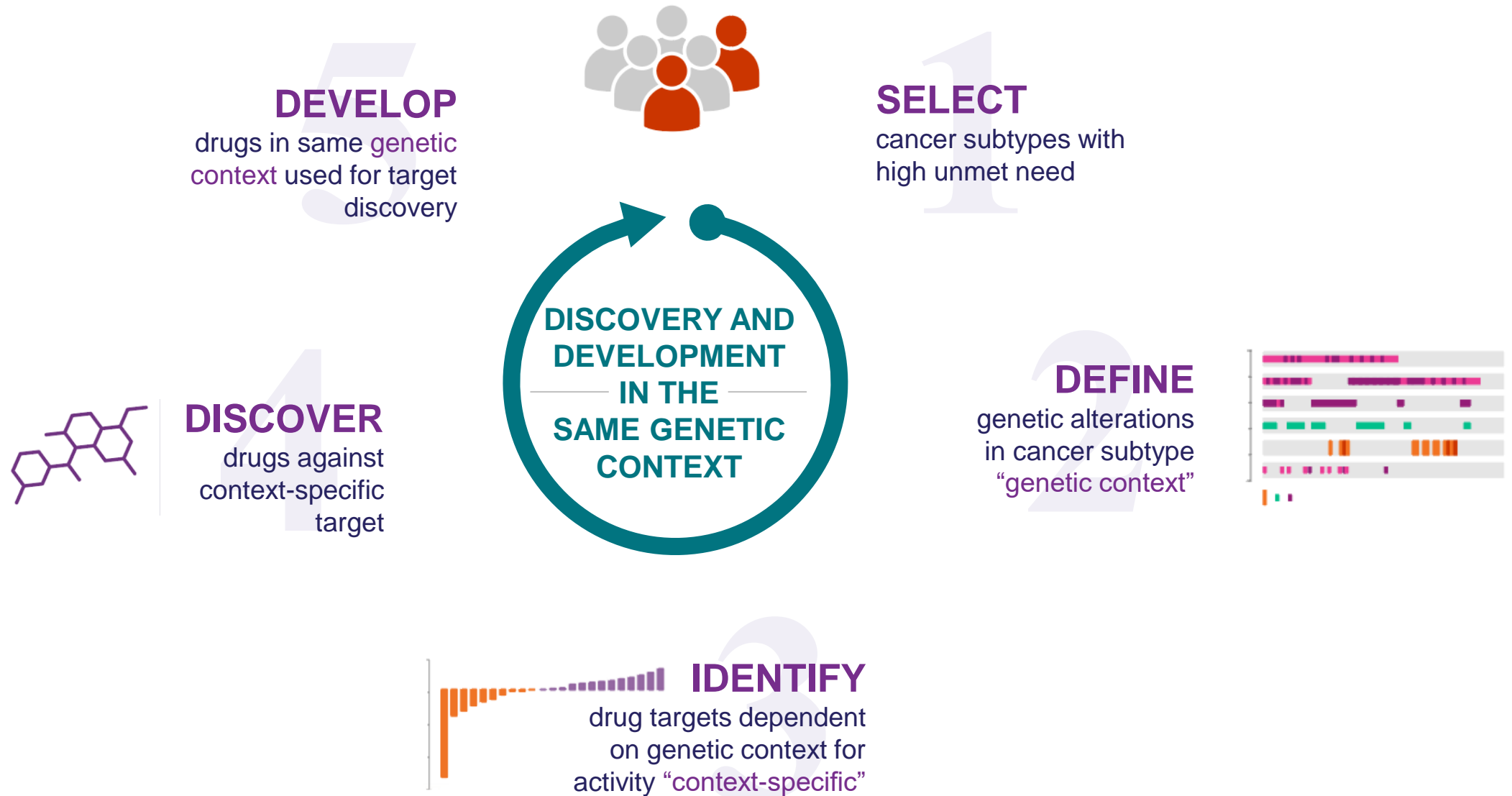
BRCA1/2 mutation and PARP inhibition are a synthetic lethal pair



PARP inhibitors are approved in BRCA mutant breast, ovarian, pancreatic and prostate cancer

- PARP inhibitors are clinical validation for synthetic lethal drug targeting
- Synthetic lethal drugs inherently have a wide therapeutic index
- Multiple analyses suggest hundreds of synthetic lethal pairs exist in human cancer

A unique approach to target discovery and clinical development in the same genetic context



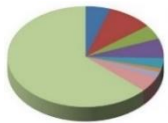
A robust discovery platform linked to a precision medicine approach

NOVEL TARGET DISCOVERY



Multiple, highly optimized CRISPR systems

Combinatorial, T cell co-culture and *in vivo* genetic screens



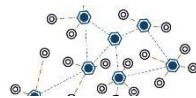
Druggable genome, paralog and genome-wide CRISPR libraries

Efficient screening, actionable hits



Cancer genetics

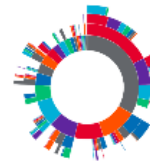
Leveraging massive public data sets from Broad, NIH and Sanger Institute



Functional data

Proprietary genetic perturbation data from hundreds of CRISPR screens

COMPUTATIONAL ANALYSIS



TANDEM

Tango cancer dependency map

Sophisticated and proprietary

Linking large Tango and public datasets

Integrating target, genetic context & functional data

PRECISION MEDICINE



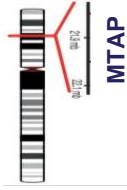
Cancer types with high unmet medical need

Genetic selection from the first patient dosed

Increased probability of meaningful clinical results

PRMT5 inhibition in MTAP-deleted cancers

Lead program is a potentially first-in-class synthetic lethal PRMT5 inhibitor



TNG908

MTA-cooperative PRMT5 inhibitor that is synthetic lethal with MTAP deletion that is blood-brain barrier penetrant

TNG462

Next-generation MTA-cooperative PRMT5 inhibitor with enhanced potency and MTAP-selectivity



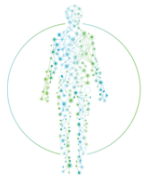
DIFFERENTIATED MECHANISM

Novel MTA-cooperative mechanism targeting tumor cells with MTAP deletion enables stronger target inhibition than non-selective PRMT5 inhibitors



LARGE PATIENT OPPORTUNITY

10-15% of all human cancers have MTAP deletion

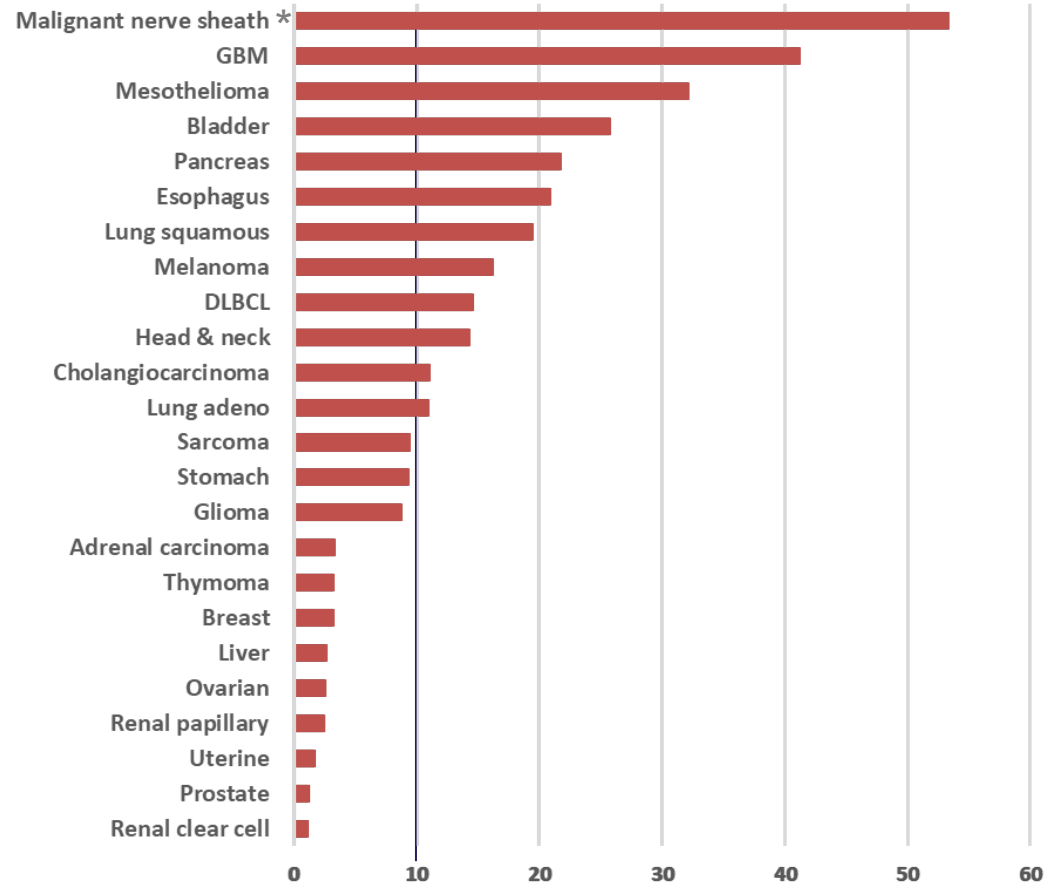


NEAR TERM MILESTONES

Currently in Phase 1 dose escalation, initial clinical data 1H 2023

10-15% of all human cancers are MTAP-null

MTAP DELETION FREQUENCY



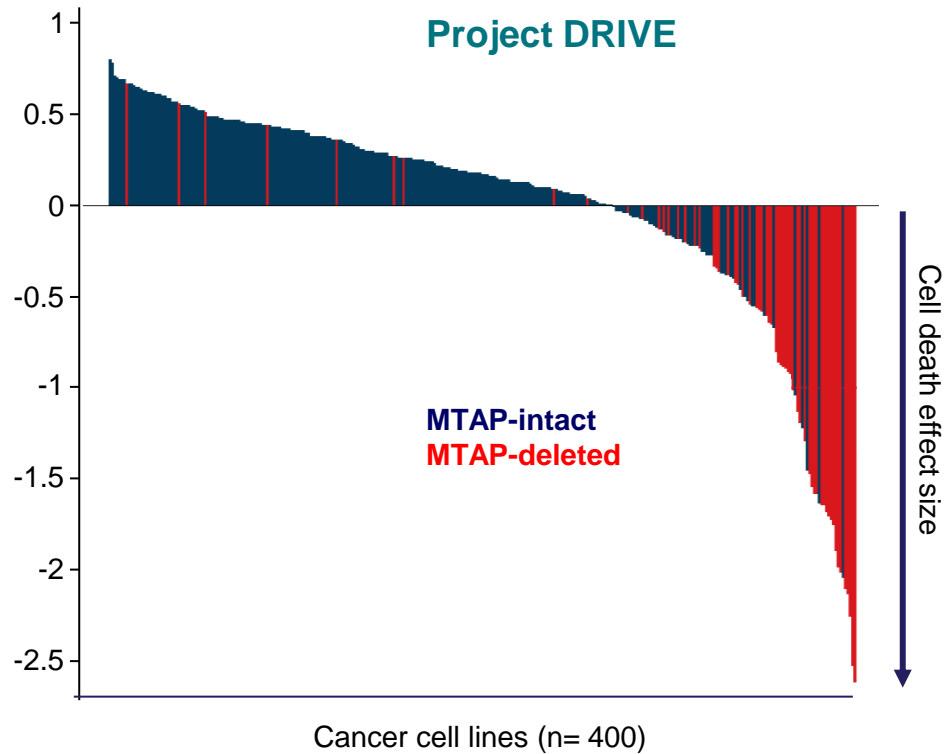
TCGA PanCancer Atlas

*Lee et al, Nature Genetics 2014

- MTAP co-deleted with tumor suppressor gene CDKN2A
- Clear path to clinical POC in MTAP-null solid tumors with multiple histologies
- Potential for histology-agnostic registration with broad-based activity across tumor types

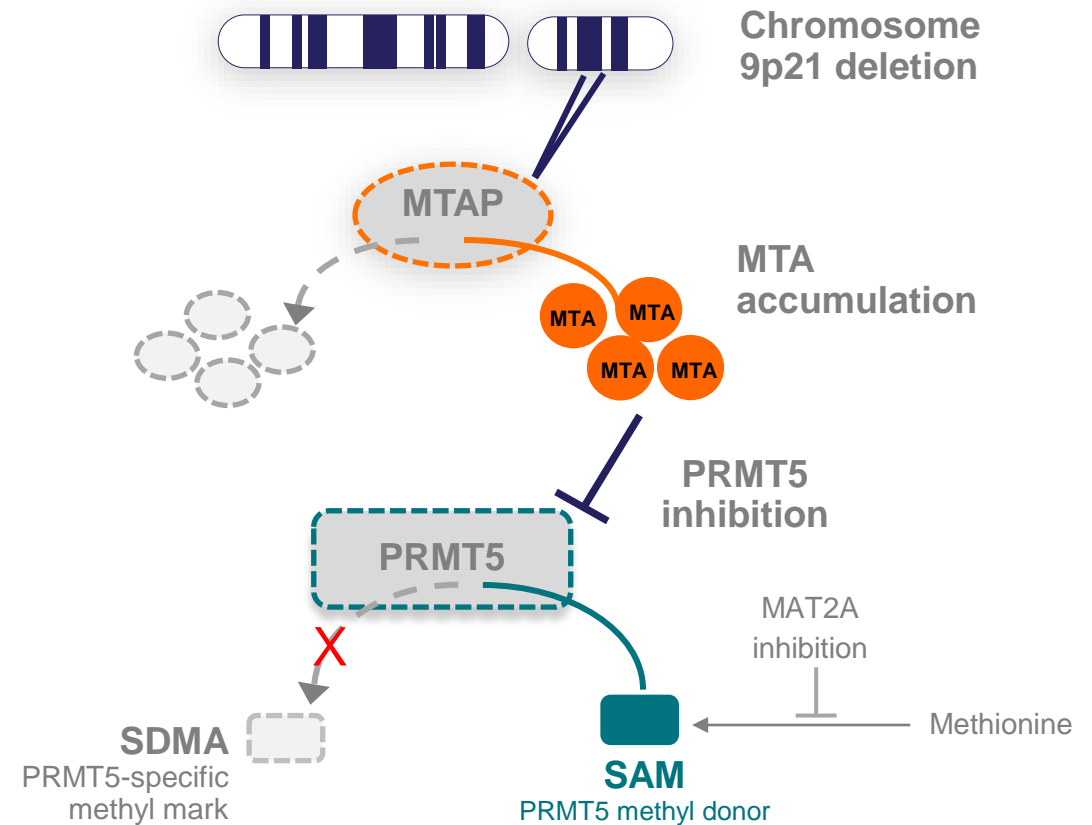
PRMT5 and MTAP are a synthetic lethal pair

MTAP-deleted cancer cell lines are sensitive to PRMT5 knockdown



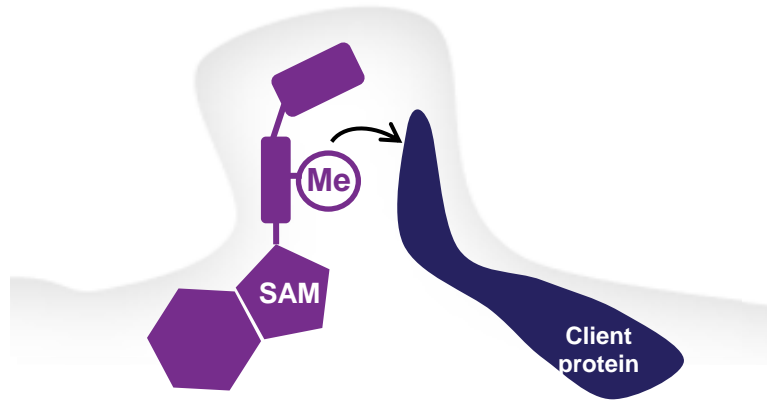
Mavrakis et al., Science 2016; Kryukov et al., Science 2016

MTAP deletion leads to PRMT5 inhibition



TNG908 is an MTA-cooperative PRMT5 inhibitor that is synthetic lethal with MTAP deletion

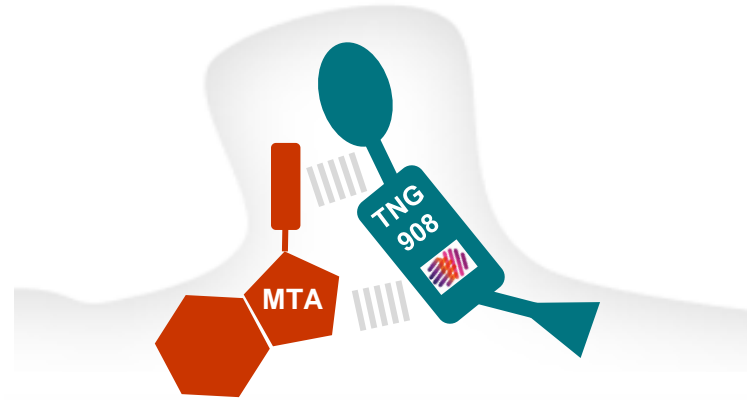
Normal cells



Active PRMT5

- Most PRMT5 in normal cells is bound to SAM
- PRMT5 requires SAM for activity
- Non-synthetic lethal PRMT5 inhibitors suppress PRMT5 equally in normal and MTAP-del cells

MTAP-deleted cancer cells



Inactive PRMT5

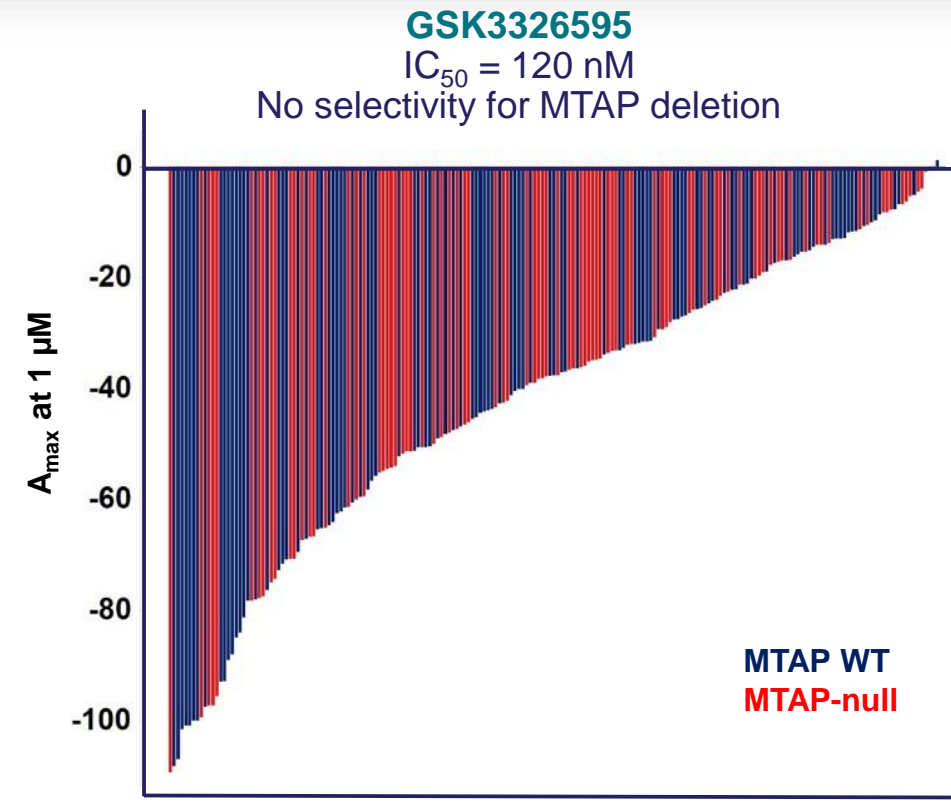
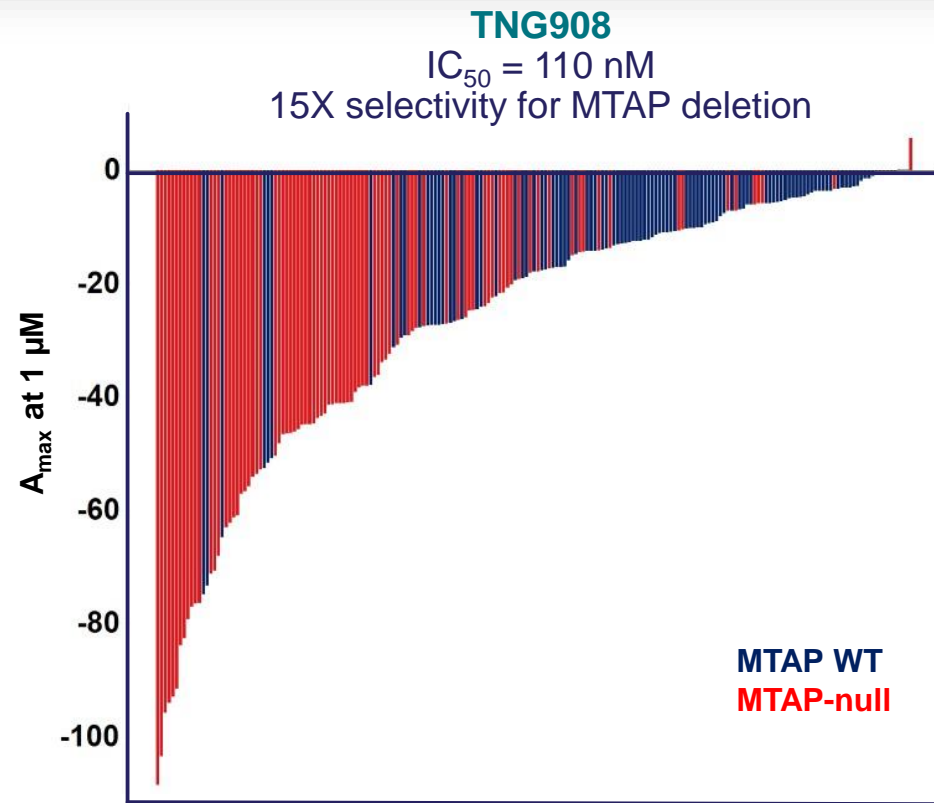
- Most PRMT5 in MTAP-deleted cells is bound to MTA
- MTA-bound PRMT5 is inactive
- Synthetic lethal PRMT5 inhibitors bind to the PRMT5-MTA complex

MTA-cooperative PRMT5 inhibitors

- Work by locking PRMT5 into the MTA-bound inactive state
- Induce cytotoxicity in MTAP-deleted cells at much lower concentrations than in normal cells

MTA-cooperative PRMT5 inhibitors are highly selective for MTAP-null cancer cell lines

200 cancer cell lines representing multiple lineages

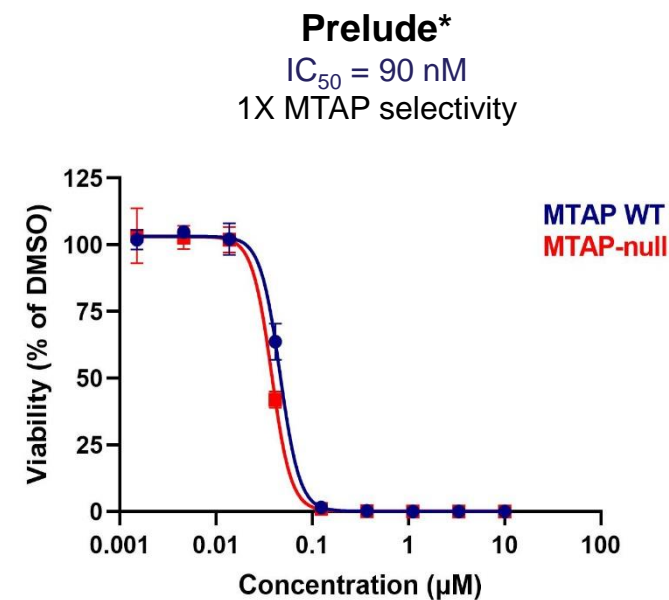
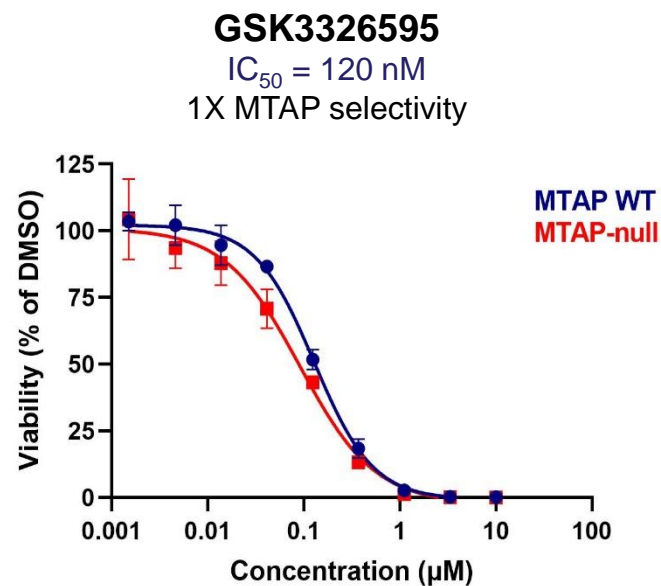
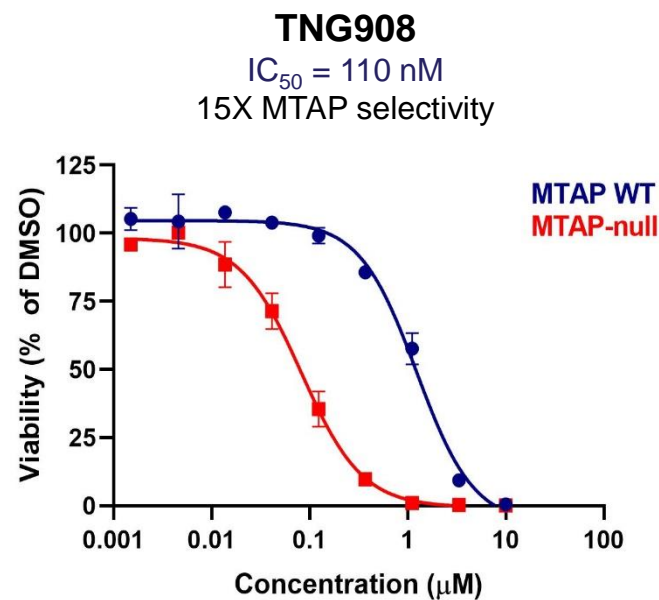


7-day viability assay

All cell lines represented in both panels

TNG908 is 15X selective for MTAP-null cells

MTAP selectivity of TNG908 makes MTAP-deleted tumors 15X more sensitive than normal cells

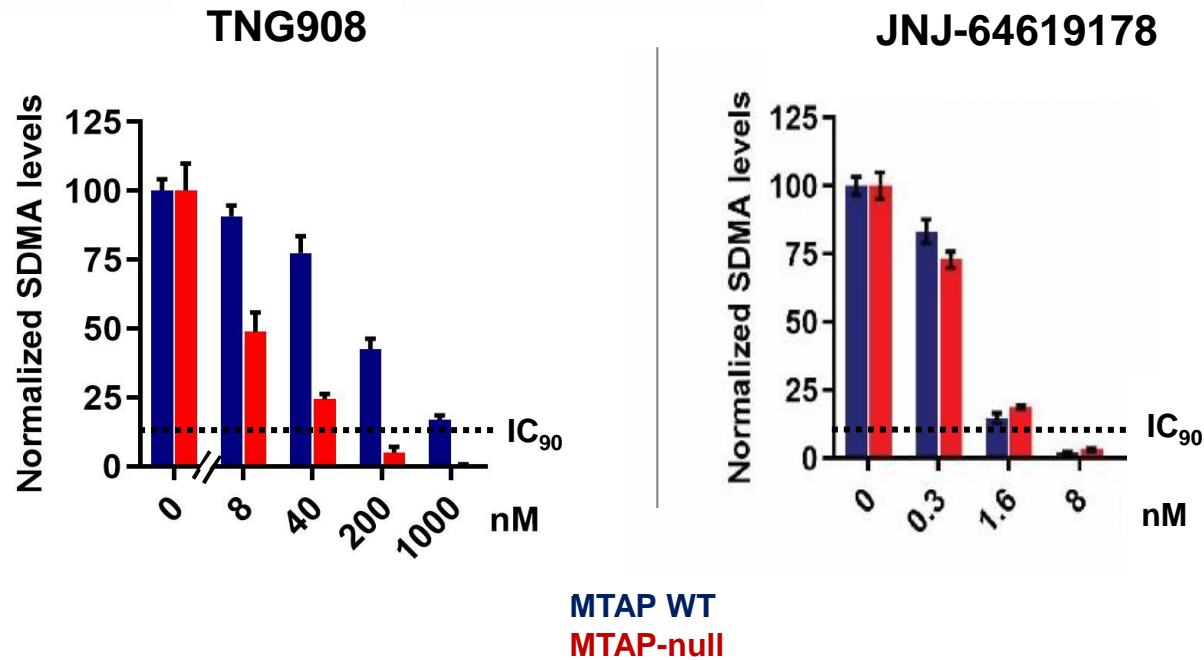


Isogenic HAP1 cells (parental WT line)

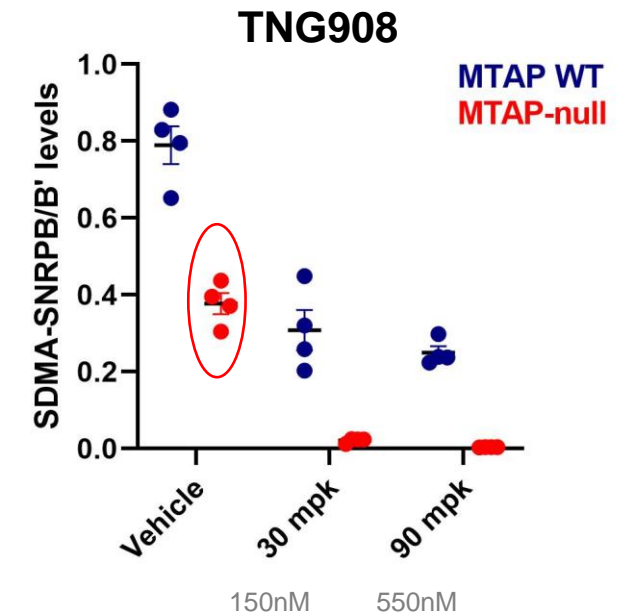
* Compound I from Patent WO2020168125, chemical structure of Prelude clinical molecules not disclosed

TNG908 PRMT5 inhibition is dose-dependent and MTAP-null selective

HAP1 MTAP isogenic cell lines



HCT116 colon cancer xenografts

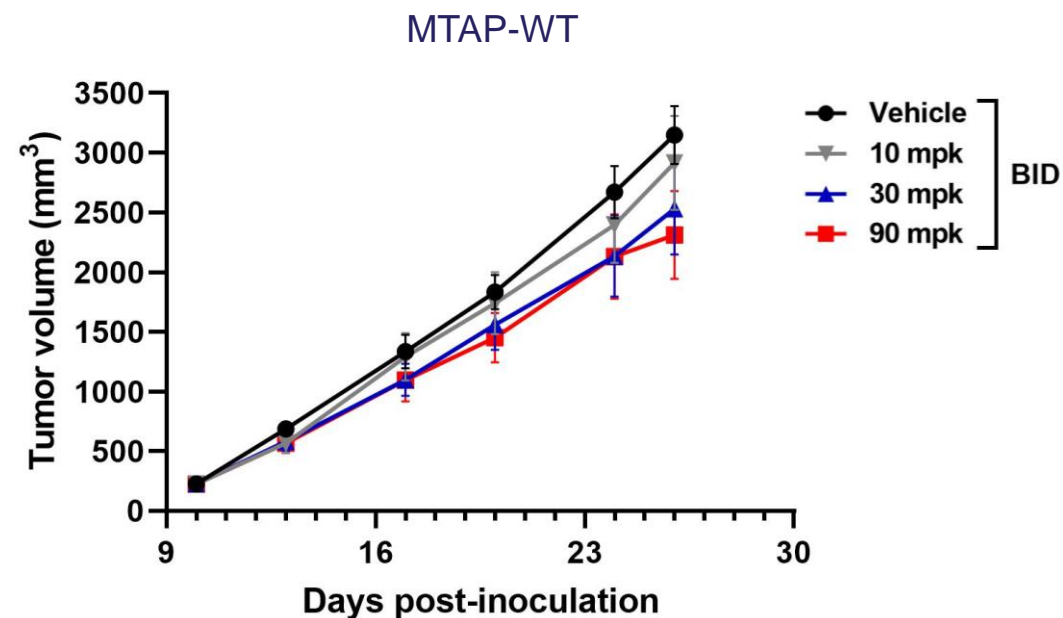
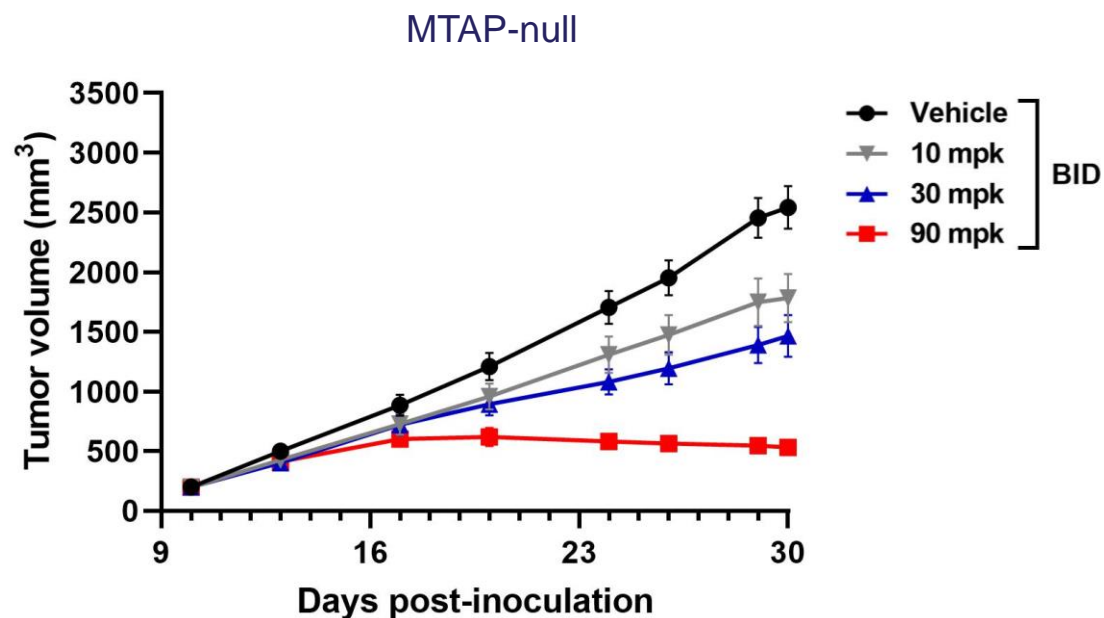


- SDMA measures PRMT5-specific methylation
- SDMA suppression in MTAP-null and WT cells cannot be uncoupled by non-selective PRMT5 inhibitors

TNG908 anti-tumor activity is dose and MTAP-deletion dependent

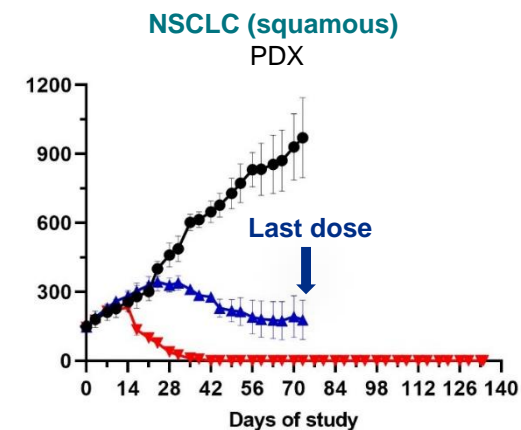
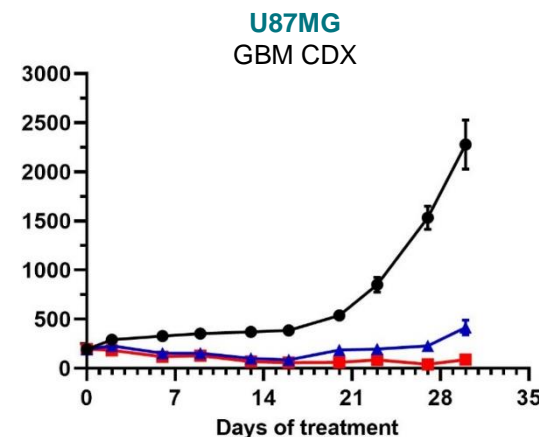
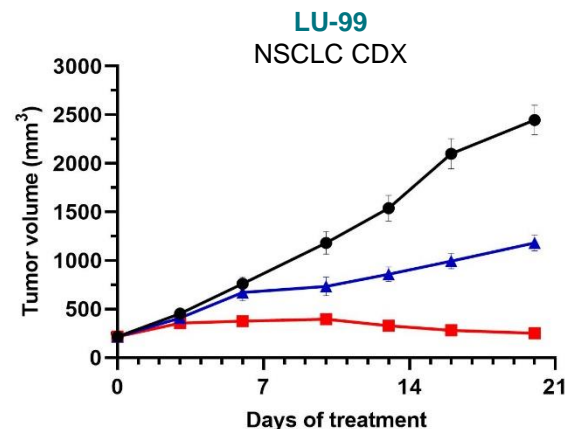
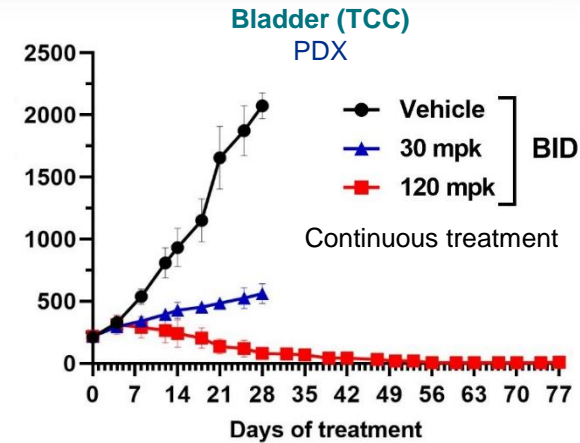
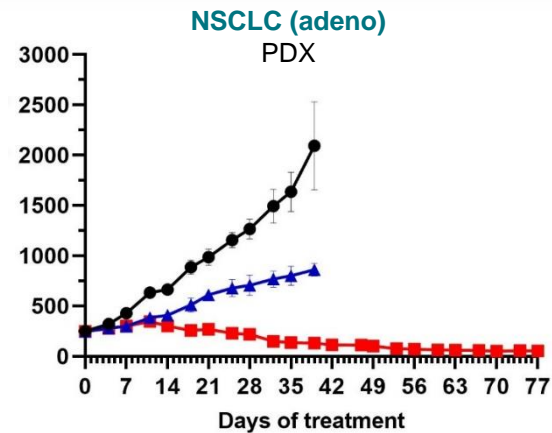
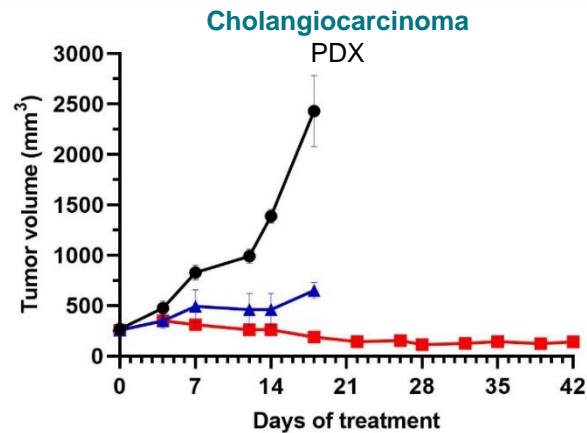
TNG908 IC50 110 nM, 15X selectivity for MTAP deletion

HCT116 (colon)



TNG908 drives tumor regression in MTAP-null xenograft models across lineages

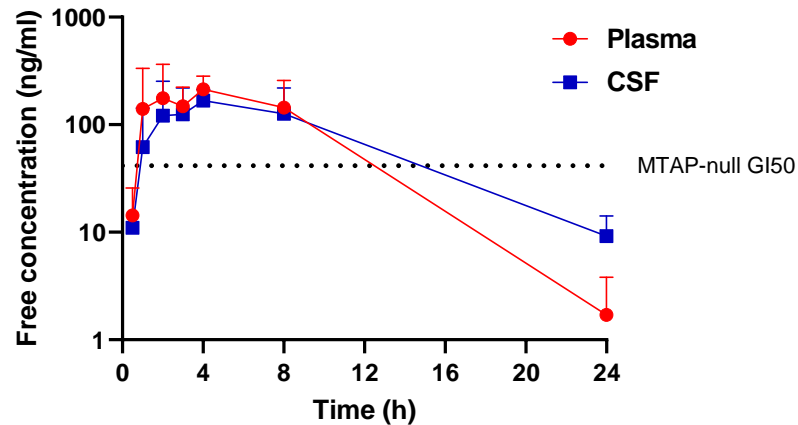
TNG908 IC50 110 nM, 15X selectivity for MTAP deletion



- Tumor growth inhibition, stasis or regression in all models (n=52)
- Deep regressions in multiple histologies
- All models dosed continuously except NSCLC (squamous) PDX

TNG908 is efficacious in a murine orthotopic GBM CDX model

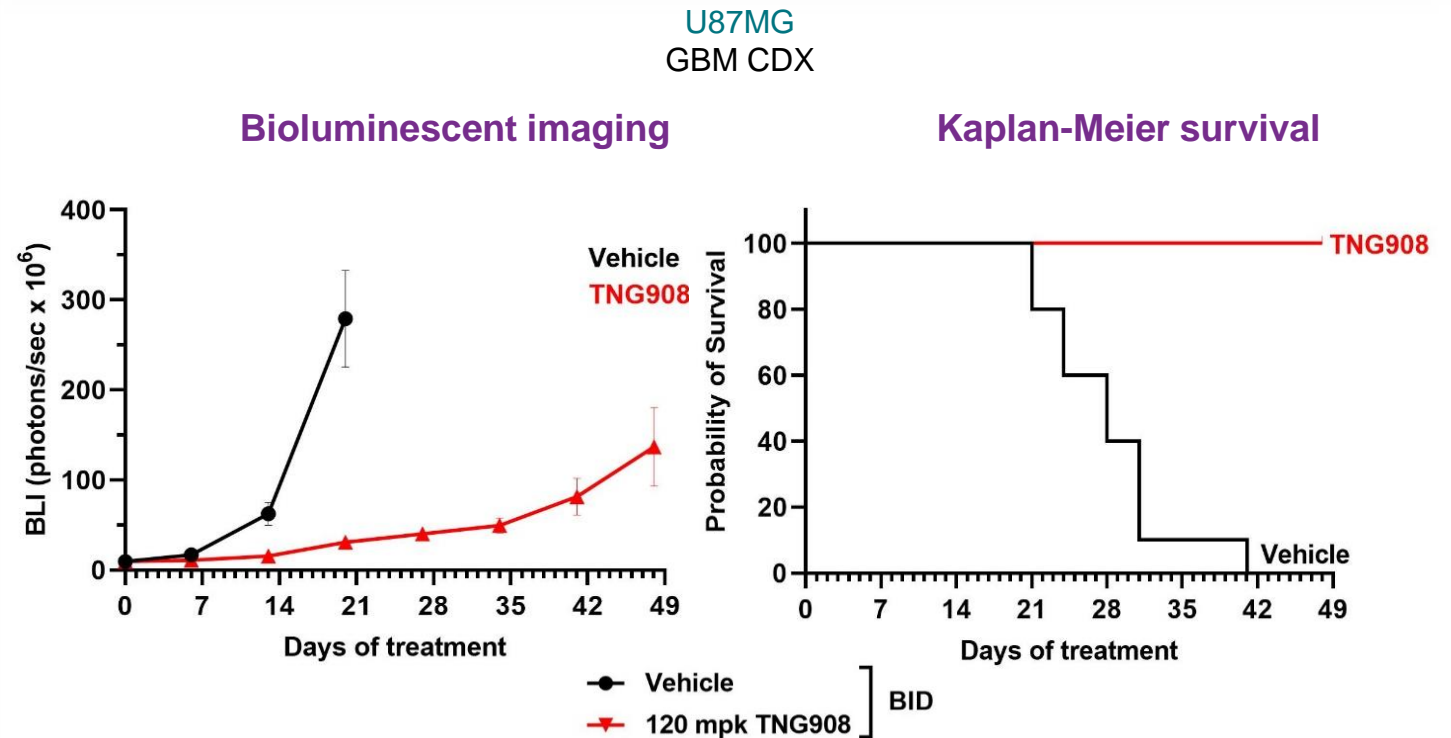
TNG908 exposure in brain and plasma is equivalent in primates



10 mg/kg PO

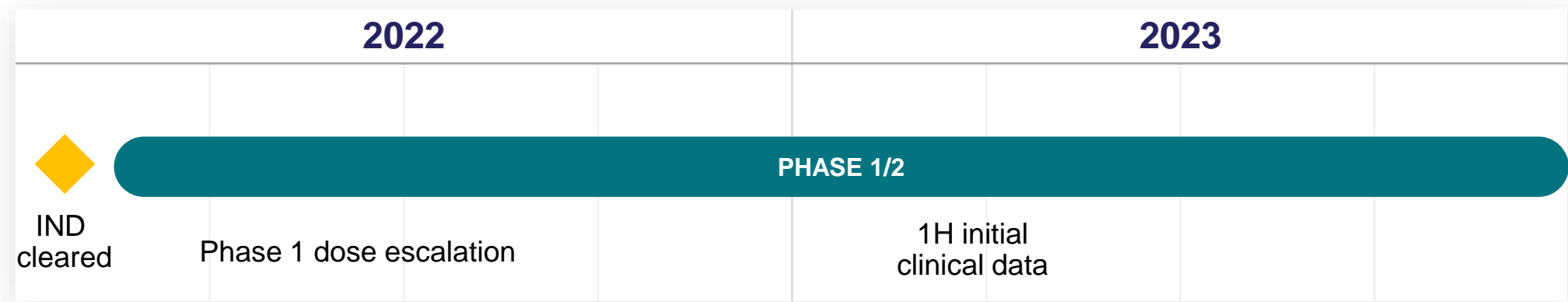
CSF concentration is a well-established surrogate for free brain concentration

TNG908 is effective in MTAP-null orthotopic glioblastoma xenograft despite reduced exposure in rodent brain



TNG908 exposure is reduced in murine orthotopic vs. standard xenografts due to limited blood brain barrier penetrance in rodents (~15% of plasma exposure)

TNG908 is a potentially first-in-class PRMT5 inhibitor that is synthetic lethal with MTAP deletion



CLINICAL STAGE PROGRAM

- Deep and durable regressions in cell-based and patient-derived xenograft models across histologies
- Progress in dose escalation, multiple clinical sites open for enrollment
- FDA Fast Track designation granted February 2022
- Received US Orphan Drug Designation from FDA for MPNST
- Pursuing novel combinations with inhibitors that have complementary mechanism of action
- TNG908 composition of matter issued patents expected to expire no earlier than 2041

Efficient trial design to evaluate efficacy in multiple indications

DOSE ESCALATION

- Solid tumors with MTAP deletion

DOSE EXPANSION

**Malignant peripheral
nerve sheath
tumors**
n ~ 20

30-50%
MTAP-null

**Non-small cell lung
Mesothelioma
Cholangiocarcinoma
Glioblastoma**
n ~ 20 each

15-40%
MTAP-null

**Histology-agnostic
cohort**
n ~ 20

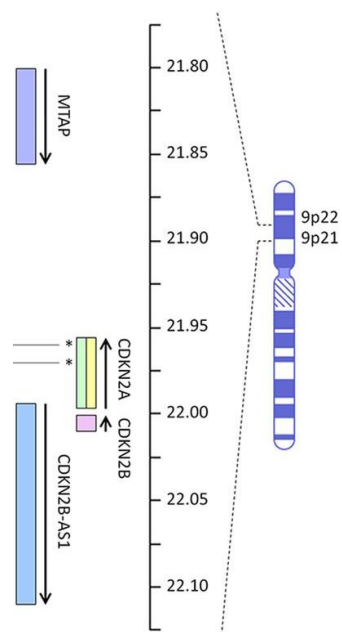
20-35%
MTAP-null

PHASE 1/2 STUDY

- Safety, PK/PD and efficacy as primary endpoints
- Multiple clinical sites open for enrollment
- Evaluating optimally efficacious dose vs. MTD
- Expansion cohorts provide optionality for multiple registration strategies
- Expected to be brain penetrant
- Initial clinical data 1H 2023

Investing in our PRMT5 franchise with a nextGen molecule

MTAP deletions occur in ~10-15% of all human cancers



**The most common
homozygous deletion
in human cancer**

- One of the largest precision oncology patient populations
- TNG908 is a novel synthetic lethal PRMT5 inhibitor 15X more potent in MTAP-null cells than normal cells with good blood-brain barrier penetrance in non-human primates
- TNG462 is a potential best-in-class PRMT5 inhibitor with enhanced potency, greater selectivity for MTAP deletion and extended target coverage

A COMPREHENSIVE DEVELOPMENT PLAN

- Multiple combination trials based on strong preclinical data and rationale
- Extensive effort to define and address resistance mechanisms in a range of genetic backgrounds
- Both TNG908 and TNG462 to be evaluated in clinical studies

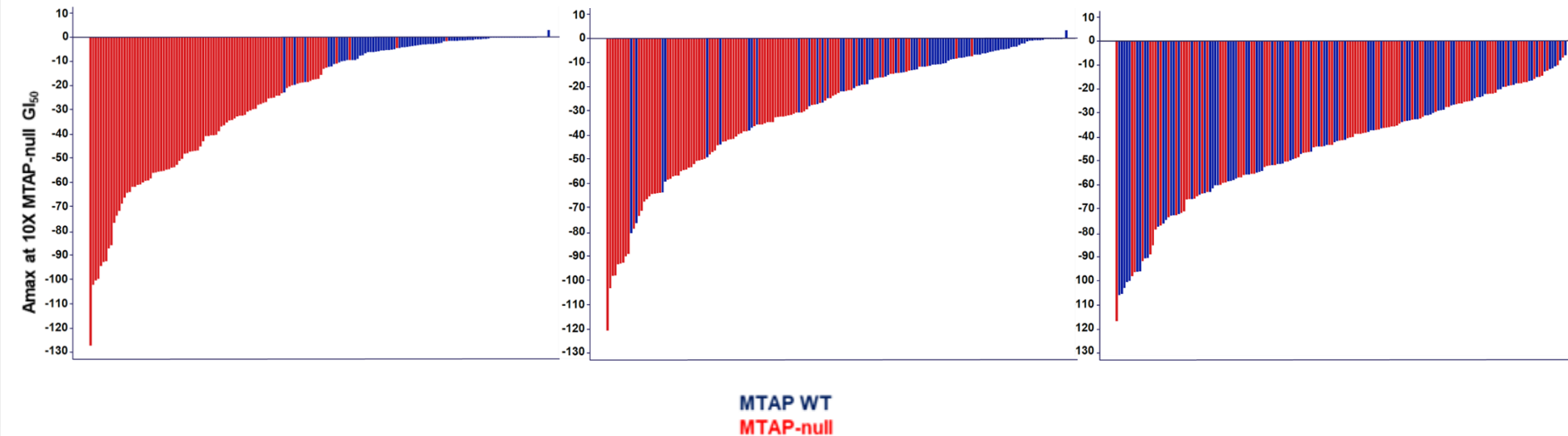
TNG462 is highly potent and 45X selective for MTAP deletion

180 cancer cell lines from multiple lineages

TNG462
 $IC_{50} = 4 \text{ nM}$
45X selectivity for MTAP deletion

TNG908
 $IC_{50} = 110 \text{ nM}$
15X selectivity for MTAP deletion

GSK3326595
 $IC_{50} = 120 \text{ nM}$
No selectivity for MTAP deletion



7-day viability assay
Same cell lines represented in all panels

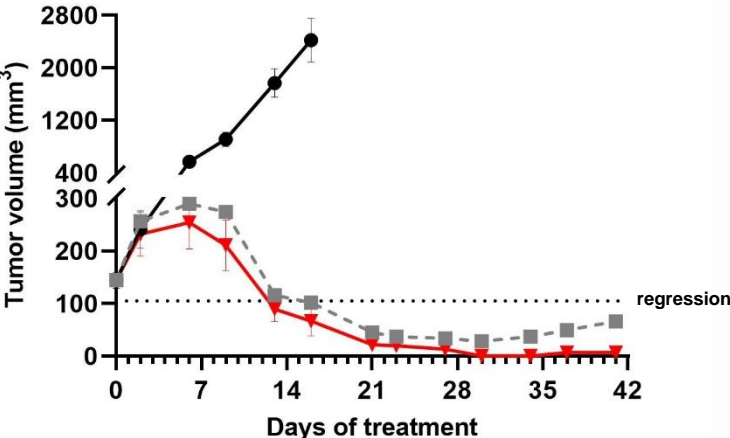
Next-generation PRMT5 inhibitor development candidate

- TNG462 has an optimized PK profile for enhanced target coverage
- Enhanced potency and MTAP selectivity has the potential for broader and deeper clinical activity

TNG462 is a potentially best-in-class PRMT5 inhibitor

TNG908 IC50 110 nM, 15X selectivity for MTAP deletion
TNG462 IC50 4 nM, 45X selectivity for MTAP deletion

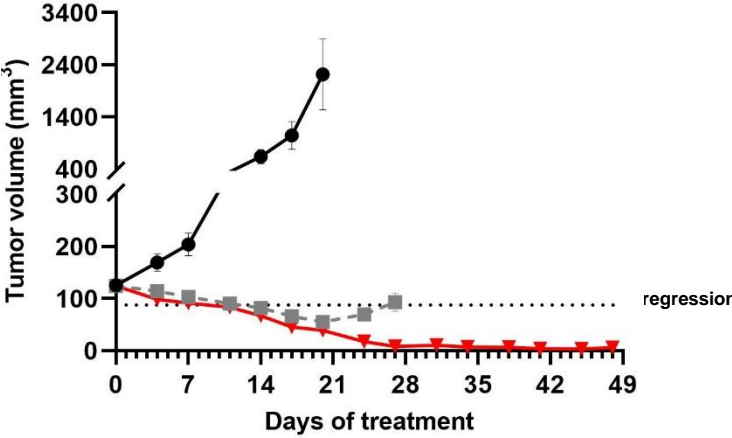
Cholangiocarcinoma
PDX



Mean % TV_{initial}

Maximum	Final		
-	-	● Vehicle] BID
-77	-54	■ 120 mpk TNG908	
-100	-95	▲ 60 mpk TNG462	

DLBCL
OCI-LY19 CDX



Mean % TV_{initial}

Maximum	Final		
-	-	● Vehicle] BID
-55	-25	■ 120 mpk TNG908	
-97	-95	▲ 60 mpk TNG462	

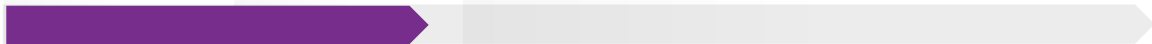
TNG462 induces deep and durable regressions across histologies

	TNG908	TNG462
LN18 (GBM)	16%	73%
LU99 (lung)	48%	66%
OCI-Ly19 (DLBCL)	55%	97%
Bladder PDX	80%	82%
Cholangio PDX	77%	100%

% tumor regression

5/6 mice with cholangiocarcinoma and
5/6 mice with DLBCL had complete
regressions when treated with TNG462

TNG462 IND filing planned 1H 2023

PROGRAM	PATIENT SELECTION	DISCOVERY	IND-ENABLING	CLINICAL TRIALS		ANTICIPATED MILESTONES
				Phase 1/2	Phase 3	
TNG462	MTAP-deleted cancers					IND filing 1H 2023

NOVEL TARGET

- Same mechanism of action as TNG908 with enhanced pharmacological properties
- Potential to be a best-in-class inhibitor with increased therapeutic index and efficacy
- Currently in IND-enabling studies

CLINICAL PLANS

- Clinical trial design similar to TNG908
- Glioblastoma excluded as TNG462 not expected to cross the blood-brain barrier
- Both TNG908 and TNG462 to be evaluated in clinical trials

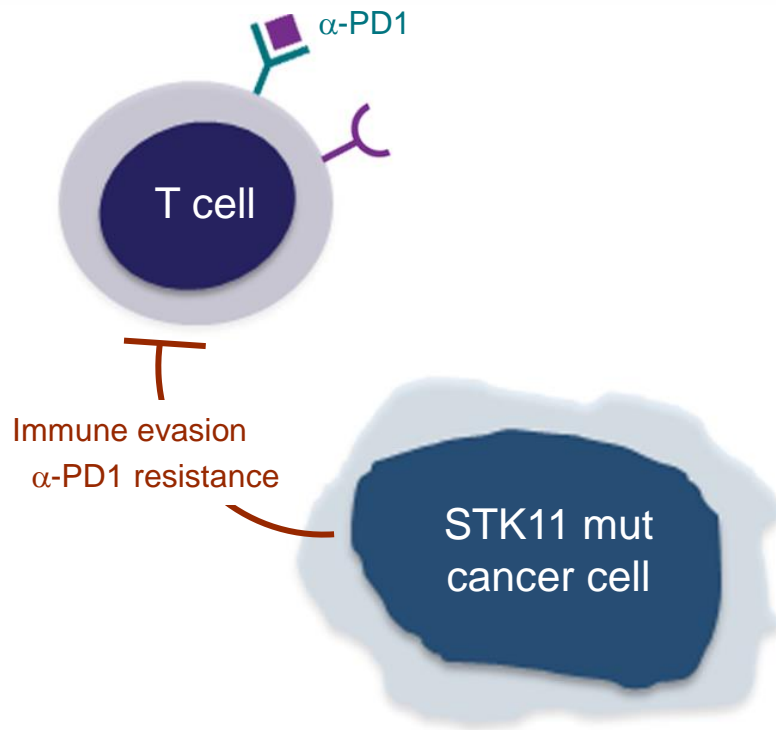
SIGNIFICANT PATIENT OPPORTUNITY

- MTAP-deletions occur in approximately 10-15% of all human cancers

CoREST inhibition in STK11-mutant cancers

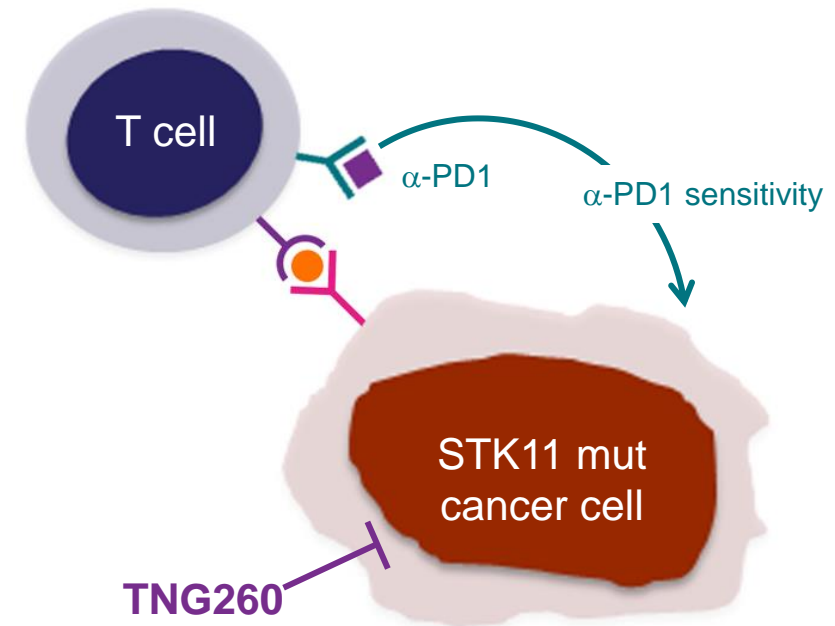
TNG260 reverses immune evasion caused by STK11 loss-of-function mutations

Immune evasion driven by tumor suppressor gene loss



STK11 re-activation is not feasible

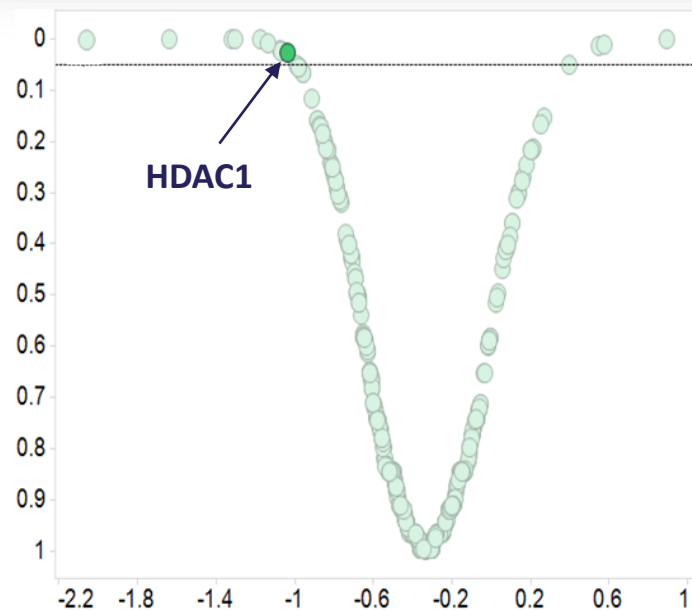
TNG260 reverses immune evasion driven by STK11 mutations



Selective CoREST inhibition in cancer cells enables immune-mediated cytotoxicity

STK11 loss-of-function mutations drive immune evasion

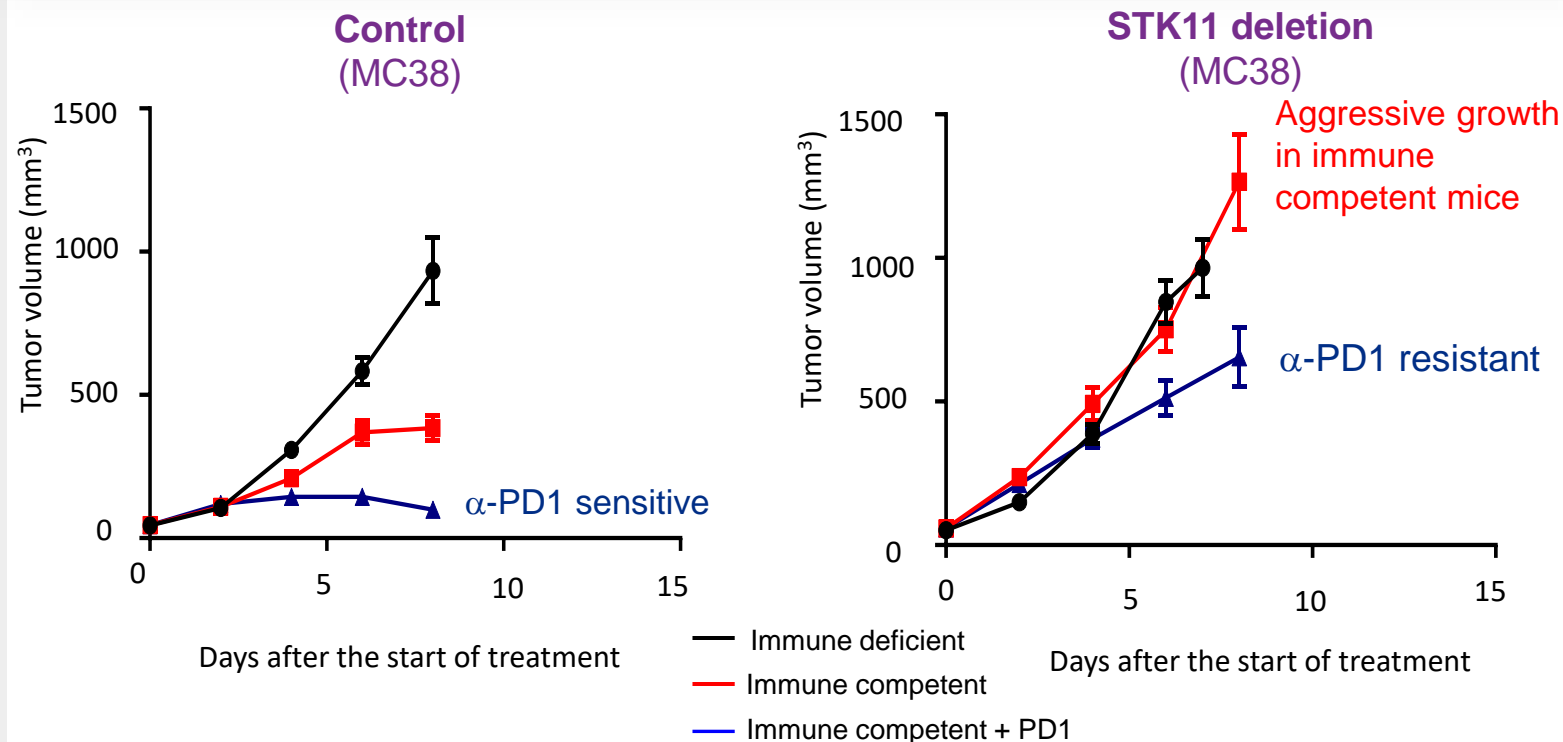
In vivo CRISPR screen identifies targets that reverse immune evasion caused by STK11 deletion



Effect Size

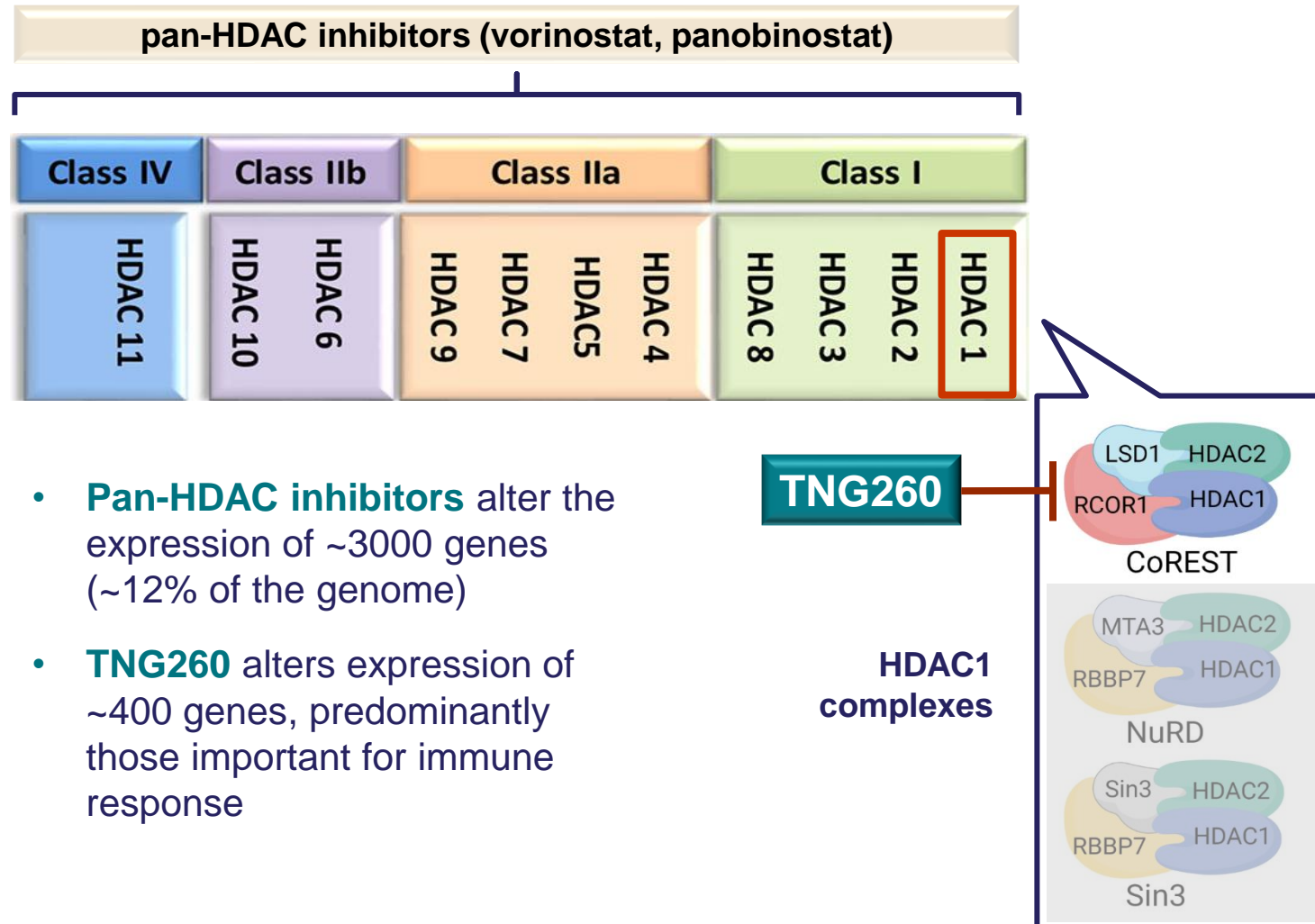
← Loss promotes immune-mediated killing → Loss promotes immune evasion

STK11 deletion causes α -PD1 resistance



STK11 loss-of-function mutations are associated with clinical immune checkpoint inhibitor resistance

TNG260 is a highly selective CoREST complex inhibitor



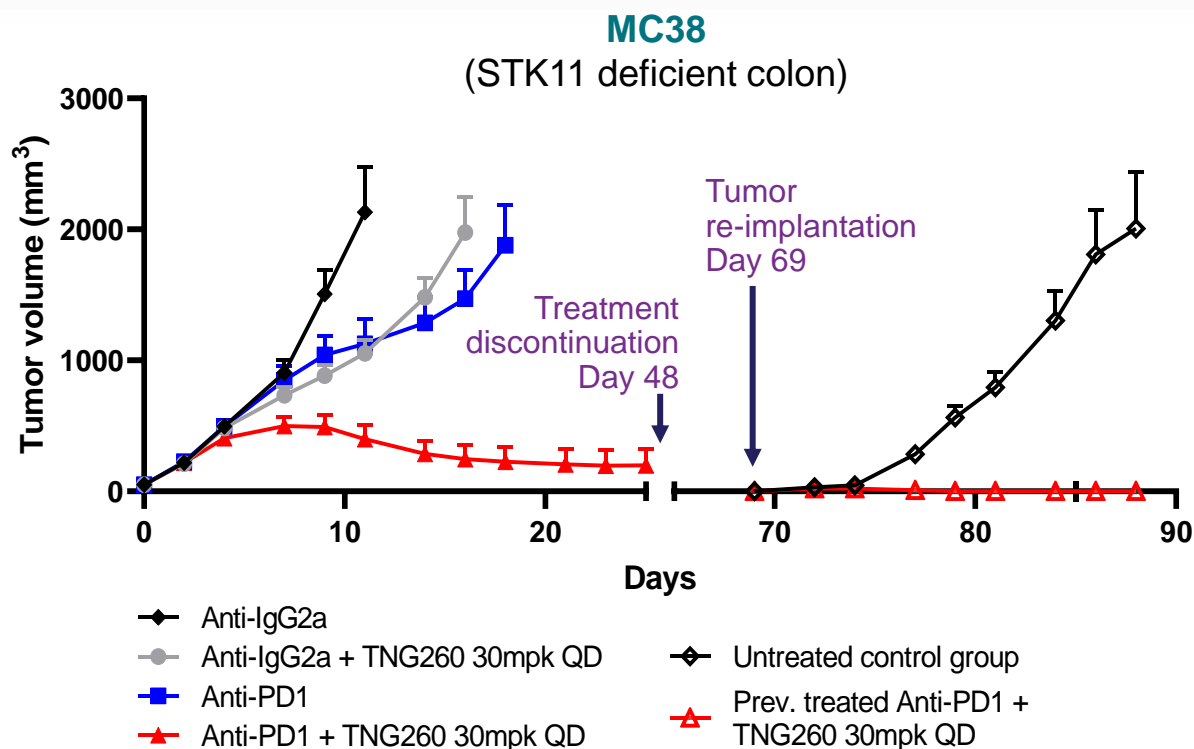
- **Pan-HDAC inhibitors** alter the expression of ~3000 genes (~12% of the genome)
- **TNG260** alters expression of ~400 genes, predominantly those important for immune response

Key points

- Pan-HDAC inhibitors target all 11 HDAC isoforms
- CoREST-mediated deacetylation regulates transcription of a specific set of immune response genes
- Sin3 and NuRD are the predominant HDAC1 complexes involved in hematopoiesis
- HDAC3 is an essential gene and likely a predominant contributor to pan-HDACi toxicity

TNG260 inhibition induces complete regression and establishes immune memory in an STK11-mutant tumors

TNG260 IC50 5nM, 10X isoform selectivity



- 5/8 mice had complete tumor regression at day 34, treatment discontinued at day 48
- All mice with complete regression remained tumor free off treatment for 21 days
- 5/5 with complete regression rejected tumor reimplantation

TNG260

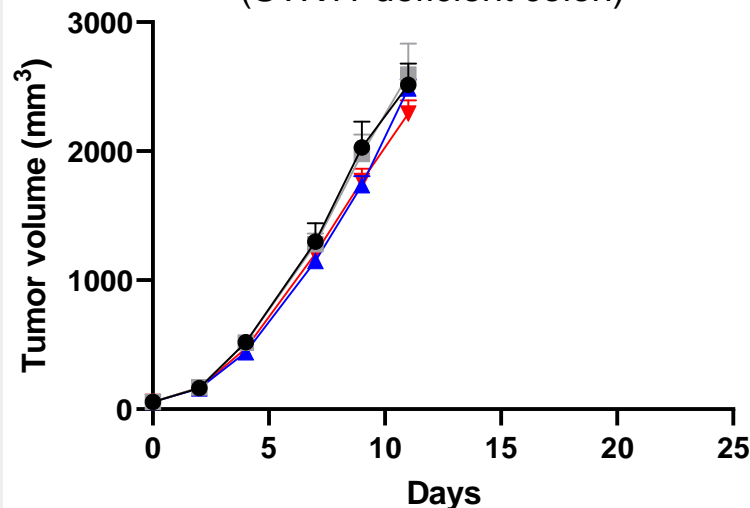
- TNG260 reverses immune evasion in STK11-mutant tumors
- TNG260 has strong *in vivo* efficacy in combination with anti-PD1 antibody
- TNG260 induces immune memory and renders treated mice resistant to tumor re-implantation
- Potent, highly selective molecule with good pharmacologic properties

Anti-tumor efficacy of TNG260 requires an intact immune system

Immunocompromised mice

BALB/c Nude Mouse

MC38
(STK11 deficient colon)

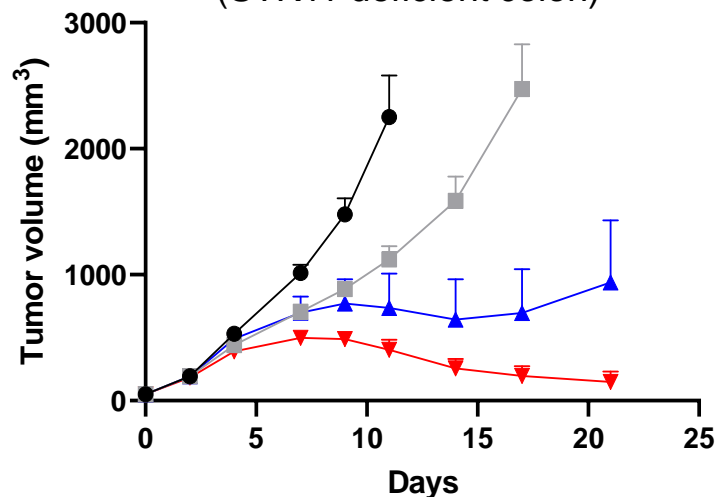


- Anti-IgG2a
- TNG260 30mpk
- ▲ Anti-PD1
- ▼ Anti-PD1 + TNG260 30mpk

Immunocompetent mice

C57/BL6

MC38
(STK11 deficient colon)



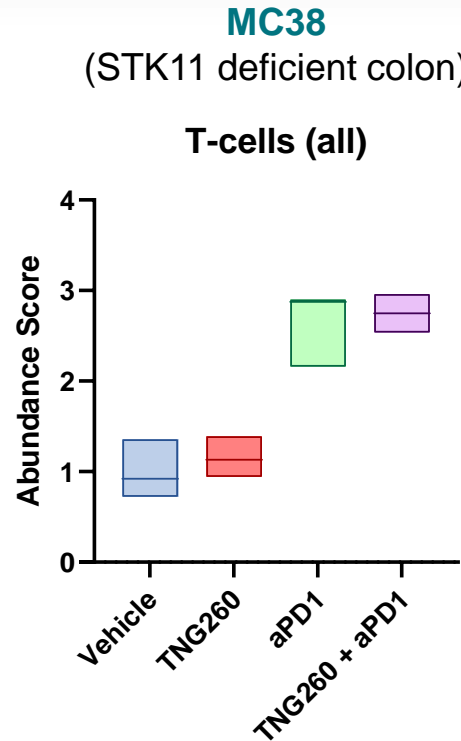
- Anti-IgG2a
- TNG260 30mpk
- ▲ Anti-PD1
- ▼ Anti-PD1 + TNG260 30mpk

TNG260

- Development candidate selected 2Q 2022
- Anti-tumor effect of TNG260 not observed in mice lacking T cells

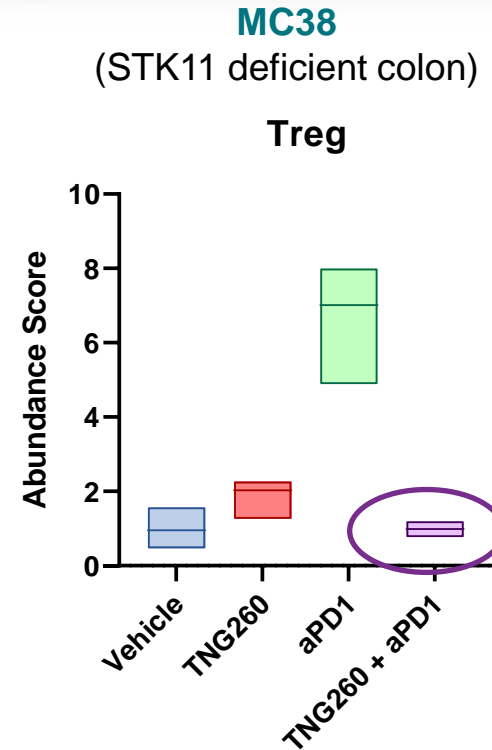
TNG260 eliminates Treg infiltration caused by α -PD1 without reducing T effector influx

α -PD1 induces tumor cell cytokine secretion that recruits T effectors



- CXCL9, 10 and 11 recruit T effector cells that mediate tumor cell killing and are increased by the combination

TNG260 eliminates immune suppressive Treg infiltration caused by α -PD1



- α -PD1 markedly increases Treg infiltration
- CCL1 and CCL22 recruit Tregs that drive immune evasion and are reduced to baseline by the combination

MECHANISM OF ACTION

- TNG260 results in specific transcriptional changes in STK11 mutant cells
- TNG260 mediated transcriptional changes alter tumor secretion of specific cytokines
- Changes in cytokine secretion caused by TNG260 + α -PD1 change the T cell ratio in the tumor to strongly favor immune-mediated tumor cell killing

Trial design to assess TNG260 inhibitor plus α -PD1 in multiple tumors types to evaluate safety, efficacy and the effect of KRAS mutation on outcome

DOSE ESCALATION

- Any solid tumor with STK11 mutation
- Combination with α -PD1

DOSE EXPANSION

**STK11 mut
KRAS WT lung cancer**
n ~ 20

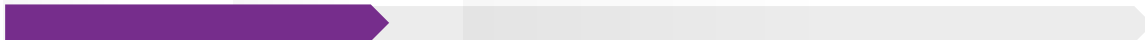
**STK11 mut
KRAS mut lung cancer**
n ~ 20

**STK11 mut
Histology-agnostic cohort**
(enriched for cervical, unknown
primary, pancreatic, breast)
n ~ 20

PHASE 1/2 STUDY

- Combination with α -PD1 to assess safety, PK/PD and efficacy as primary endpoints
- Approximately 50% of STK11 mut lung cancer is KRAS mutant
- Impact of KRAS mutations on checkpoint inhibitor resistance in STK11 mutant tumors unclear
- IND filing planned 1H 2023

TNG260 IND filing planned 2023

PROGRAM	PATIENT SELECTION	DISCOVERY	IND-ENABLING	CLINICAL TRIALS		ANTICIPATED MILESTONES
				Phase 1/2	Phase 3	
CoREST TNG260	STK11-mut cancers					IND filing 1H 2023

NOVEL TARGET

- STK11 mutations are key drivers of immune evasion in lung cancers and occur in multiple other tumor types
- TNG260 is a highly selective CoREST complex deacetylase inhibitor
- TNG260 reverses checkpoint inhibitor resistance in preclinical STK11-mutant models

CLINICAL PLAN

- Novel mechanism with strong *in vivo* efficacy
- Induction of immune memory that prevents tumor regrowth in responders
- IND filing planned 1H 2023
- Phase 1/2 clinical study will evaluate efficacy in combination with α -PD1 in STK11 mutant cancers

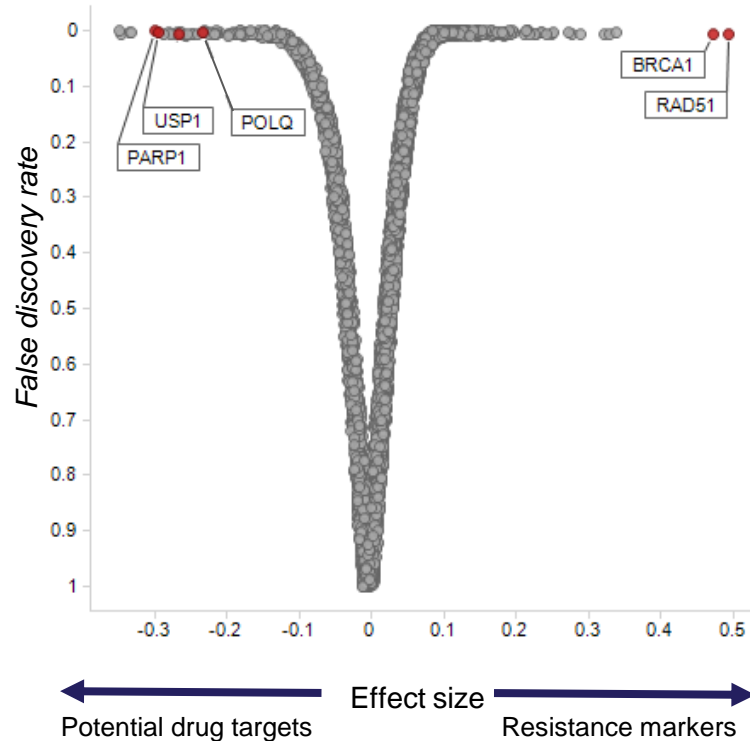
SIGNIFICANT PATIENT OPPORTUNITY

- STK11 mutations occur in ~15% NSCLC, 15% cervical, 10% carcinoma of unknown primary, 5% breast and 3% pancreatic cancers
- STK11 mutations are associated with clinical checkpoint inhibitor resistance
- STK11 mutations among the first genetic patient selection for an immuno-oncology clinical trial

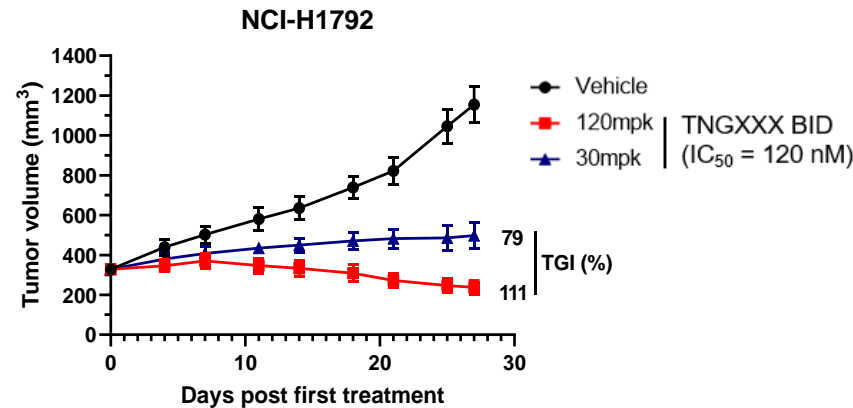
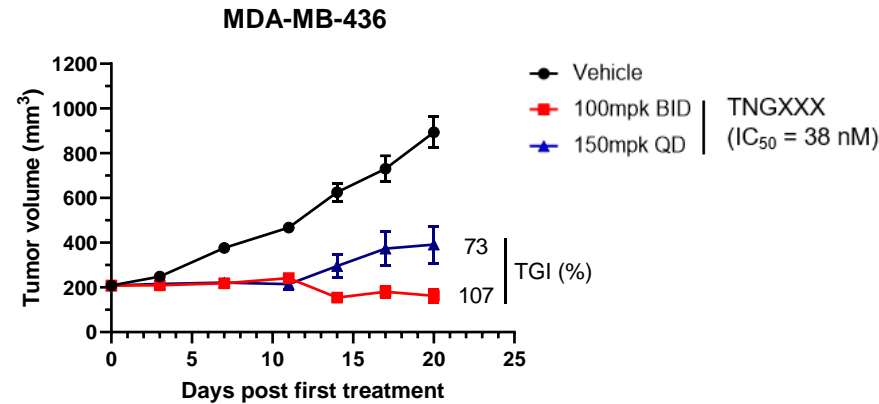
USP1 inhibition in BRCA1/2 mutant cancers

USP1 and BRCA1/2 are a synthetic lethal pair

Tango druggable genome CRISPR screen cell line panel



In vivo efficacy of USP1i

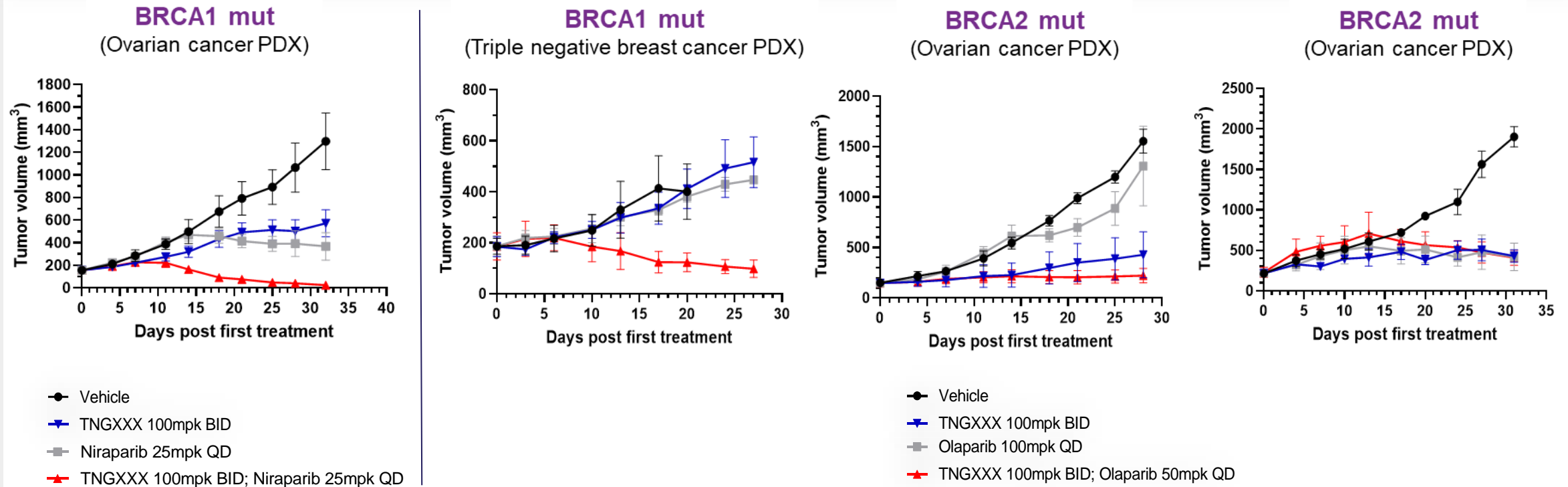


USP1

- USP1 is a de-ubiquitinating enzyme (DUB) that is synthetic lethal with BRCA1/2
- Loss of USP1 results in deficient DNA replication in BRCA1/2 mutant cells
- *In vivo* efficacy in BRCA1/2-mut breast and ovarian tumor models
- Some BRCA WT lung cancer cell lines are sensitive to USP1 inhibition, patient selection marker being evaluated


Advanced lead has single agent and PARPi combination activity

TNGXXX IC50 38nM, >200 fold selectivity for BRCA1/2mut vs WT



Single agent and combination activity in PARPi sensitive and resistant models

USP1 development candidate in 2H 2022

PROGRAM	PATIENT SELECTION	DISCOVERY	IND-ENABLING	CLINICAL TRIALS		ANTICIPATED MILESTONES
				Phase 1/2	Phase 3	
USP1	BRCA1/2-mut cancers					Development candidate 2H 2022 IND filing 2023

NOVEL TARGET

- Strong synthetic lethality with BRCA1/2 mutation
- MOA distinct from PARPi with efficacy mediated through ub-PCNA and replication stress
- Single agent activity and strong PARP1 synergy in breast and ovarian preclinical models
- Synergy with PARPi in both sensitive and resistant xenografts

ADVANCED DRUG DISCOVERY

- Multiple pending patent applications
- Proprietary inhibitor-bound crystal structure enables structure-guided drug design
- Advanced allosteric inhibitors with strong *in vivo* activity, dose range-finding studies ongoing

SIGNIFICANT PATIENT OPPORTUNITY

- BRCA1/2 mutations are present in approximately 15% of ovarian cancers, 10% of breast cancers, 10% of prostate cancers, 5% of endometrial cancers and 5% of pancreatic cancers
- Synergy in both PARPi-sensitive and -resistance models suggests potential to meaningfully expand patient benefit from PARP inhibitors

FINANCIAL HIGHLIGHTS AND MILESTONES

Q2 2022 financial highlights (Nasdaq: TNGX)

Cash balance

- \$416M cash, cash equivalents and marketable securities (6/30)
- Includes net proceeds of \$327M from SPAC/PIPE closed August 2021

Cash runway

- Sufficient cash to fund operations into at least 2H 2024

Shares outstanding

- 88M common shares outstanding

Sufficient cash to achieve multiple projected key milestones

2022 FY

- ✓ Initiate TNG908 first-in-human clinical trial 2Q
- ✓ Development candidate for nextGen PRMT5 inhibitor 2Q (TNG462)
- ✓ Development candidate for CoREST inhibitor Q2 (TNG260)
- Development candidate for USP1 inhibitor 2H

2023 FY

- Initial safety and efficacy data on TNG908 1H
- IND filing for TNG462 1H (nextGen PRMT5)
- IND filing for TNG260 1H (CoREST)
- IND filing for USP1 development candidate 2023

