

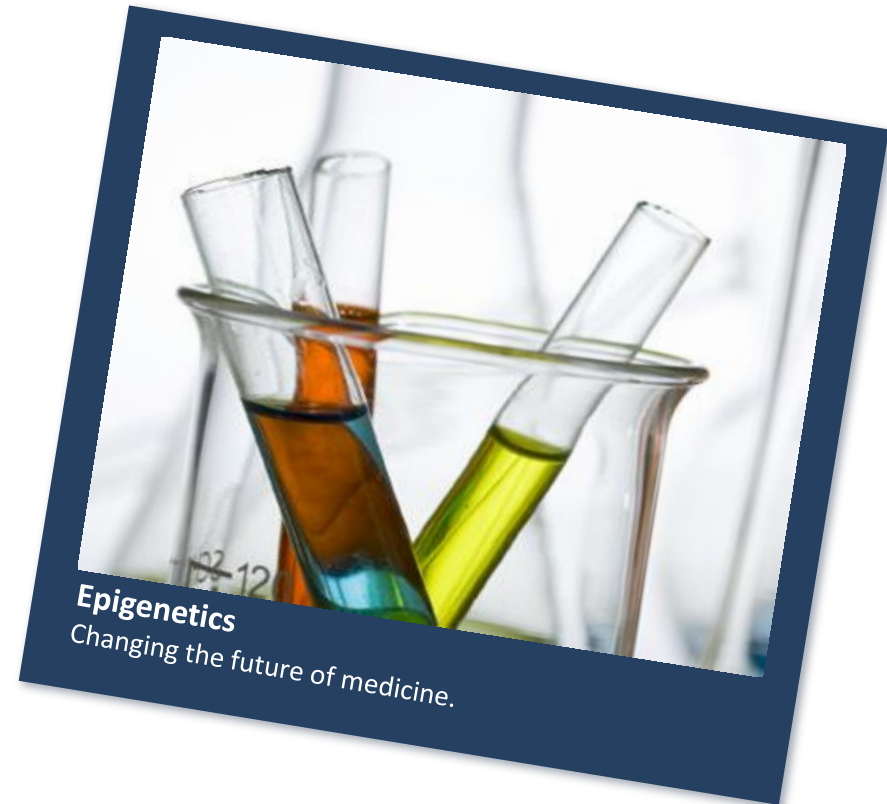
A background image of a laboratory setting with various glassware, including Erlenmeyer flasks and beakers, some containing liquids. The lighting is bright, creating a clean and professional atmosphere.

ZENITH 

BIO International Convention – June 2018
Advanced Epigenetic Technology

Today's Agenda for Zenith Capital Corp.

1. Corporate Profile
2. Epigenetic Mechanism Review
3. Prostate Cancer Rationale Review
4. Phase 1 Details & Early Results
5. Enzalutamide Combination Trial – Phase 2a
6. Next Steps



Safe Harbor Statement. This presentation contains forward-looking statements that involve risks and uncertainties, which may cause actual results to differ materially from the statements made. For this purpose, any statements that are contained herein that are not statements of historical fact may be deemed to be forward-looking statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Without limiting the foregoing, the words "believes," "anticipates," "plans," "intends," "will," "should," "expects," "projects," and similar expressions are intended to identify forward-looking statements. You are cautioned that such statements are subject to a multitude of risks and uncertainties that could cause actual results, future circumstances, or events to differ materially from those projected in the forward-looking statements. These risks include, but are not limited to, those associated with the success of research and development programs, the regulatory approval process, competition, securing and maintaining corporate alliances, market acceptance of the Company's products, the availability of government and insurance reimbursements for the Company's products, the strength of intellectual property, financing capability, the potential dilutive effects of any financing, reliance on subcontractors and key personnel. The forward-looking statements are made as of the date hereof, and the Company disclaims any intention and has no obligation or responsibility, except as required by law, to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise. CONTACT: Donald J. McCaffrey, Chairman, President & CEO

Suite 300, 4820 Richard Road S.W. Calgary, AB, Canada T3E 6L1

Tel: (403) 254-9252, Fax:(403) 256-8495, <http://www.zenithepigenetics.com>

Share Structure Profile

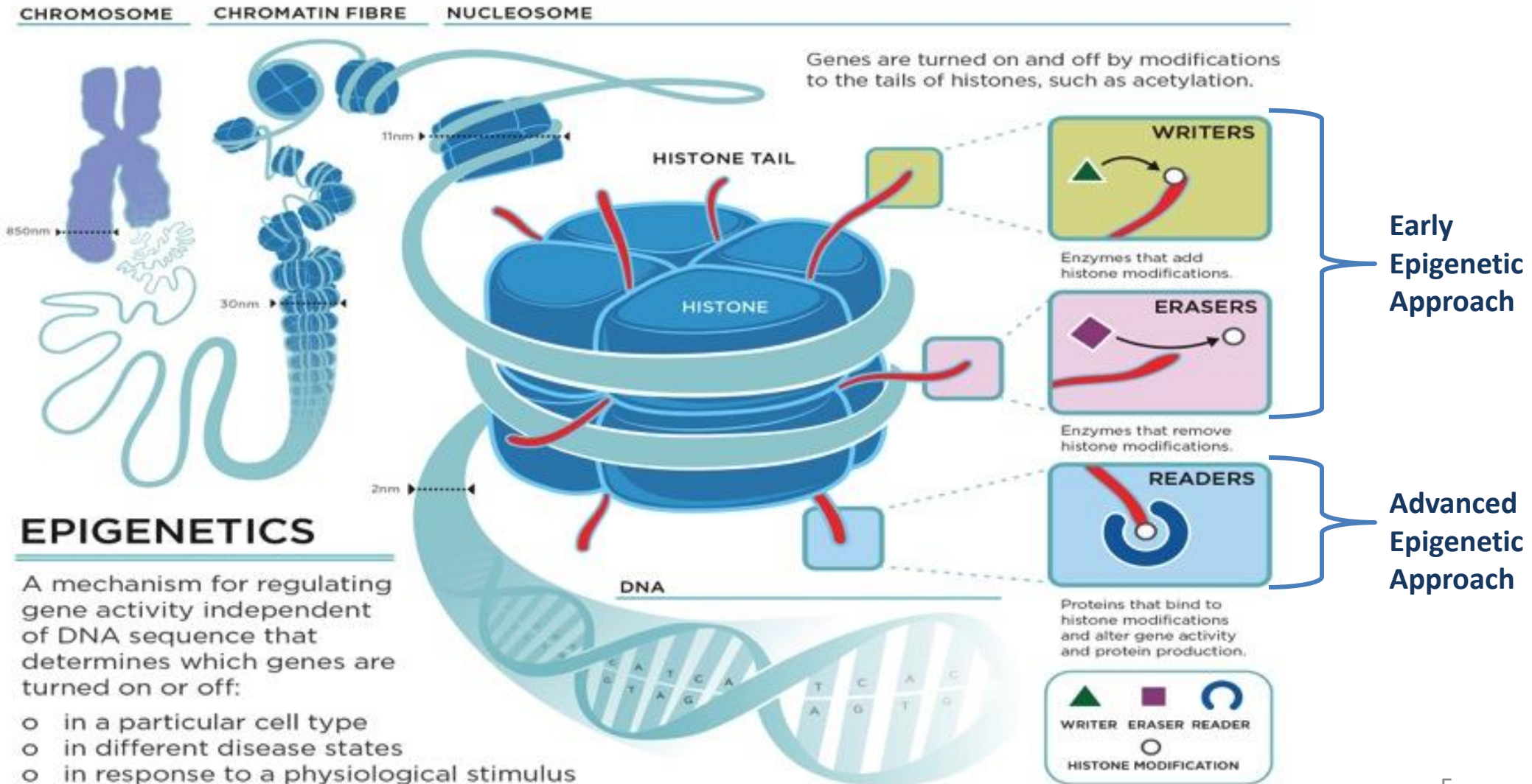
Founded	Corporate spin out from Resverlogix in June 2013
Status	Private company, full reporting issuer
Cash Raised 2014-2016	US\$44MM @ \$1.00 USD per share (all pre-clinical results based)
Enterprise Value est.	\$325 USD (\$2.50 USD/Share) est.
Shares Outstanding	125.2 MM 134.0 MM fully diluted 10MM additional shares will be sold shortly
Cash Burn	\$2 MM per quarter - Current

Epigenetics Mechanism

1. Corporate Profile
- 2. Epigenetic Mechanism Review**
3. Prostate Cancer Rationale Review
4. Phase 1 Details & Early Results
5. Enzalutamide Combination Trial – Phase 2a
6. Next Steps



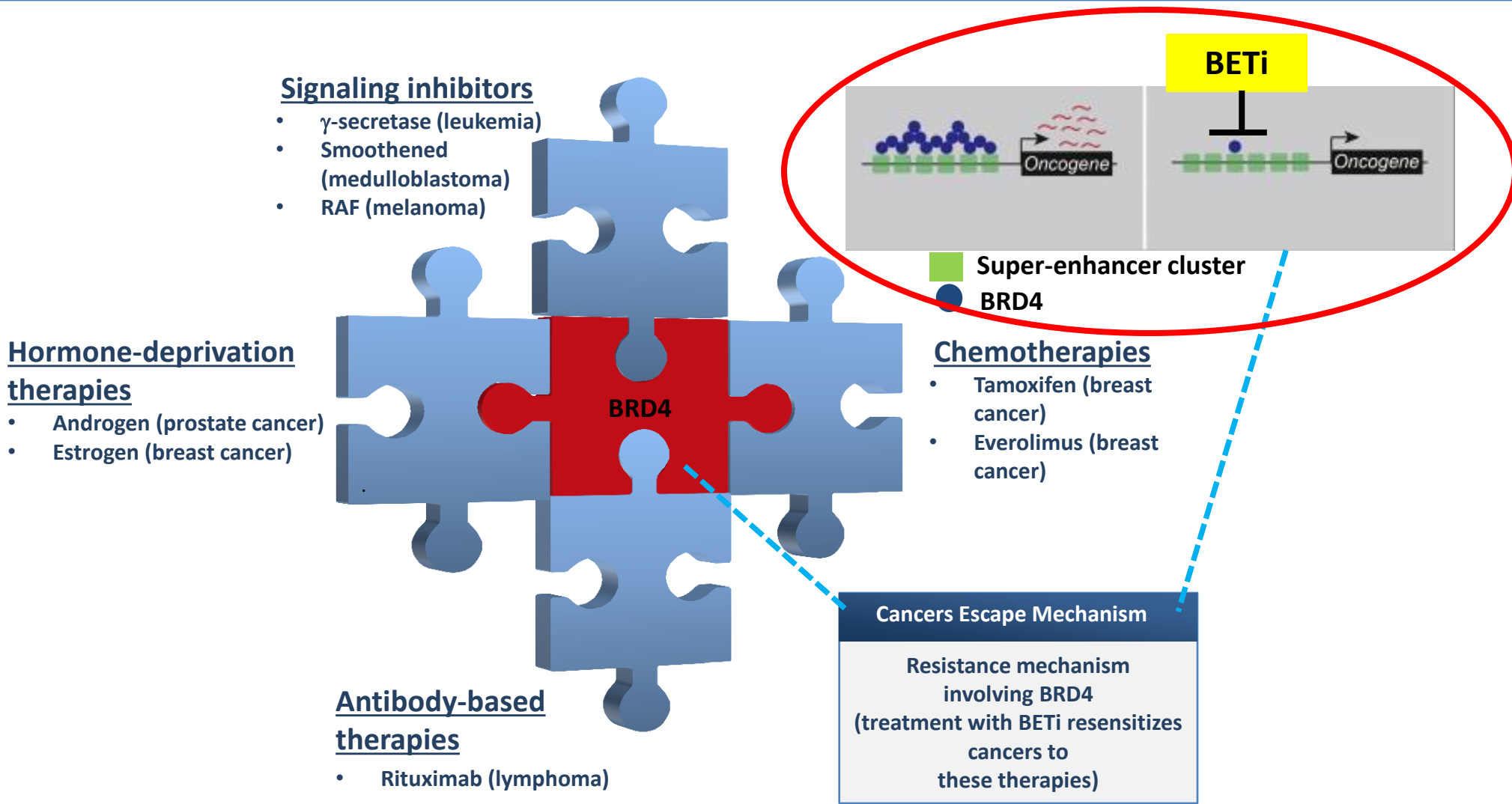
Epigenetics, the Mechanism Behind Our Approach



EPIGENETICS

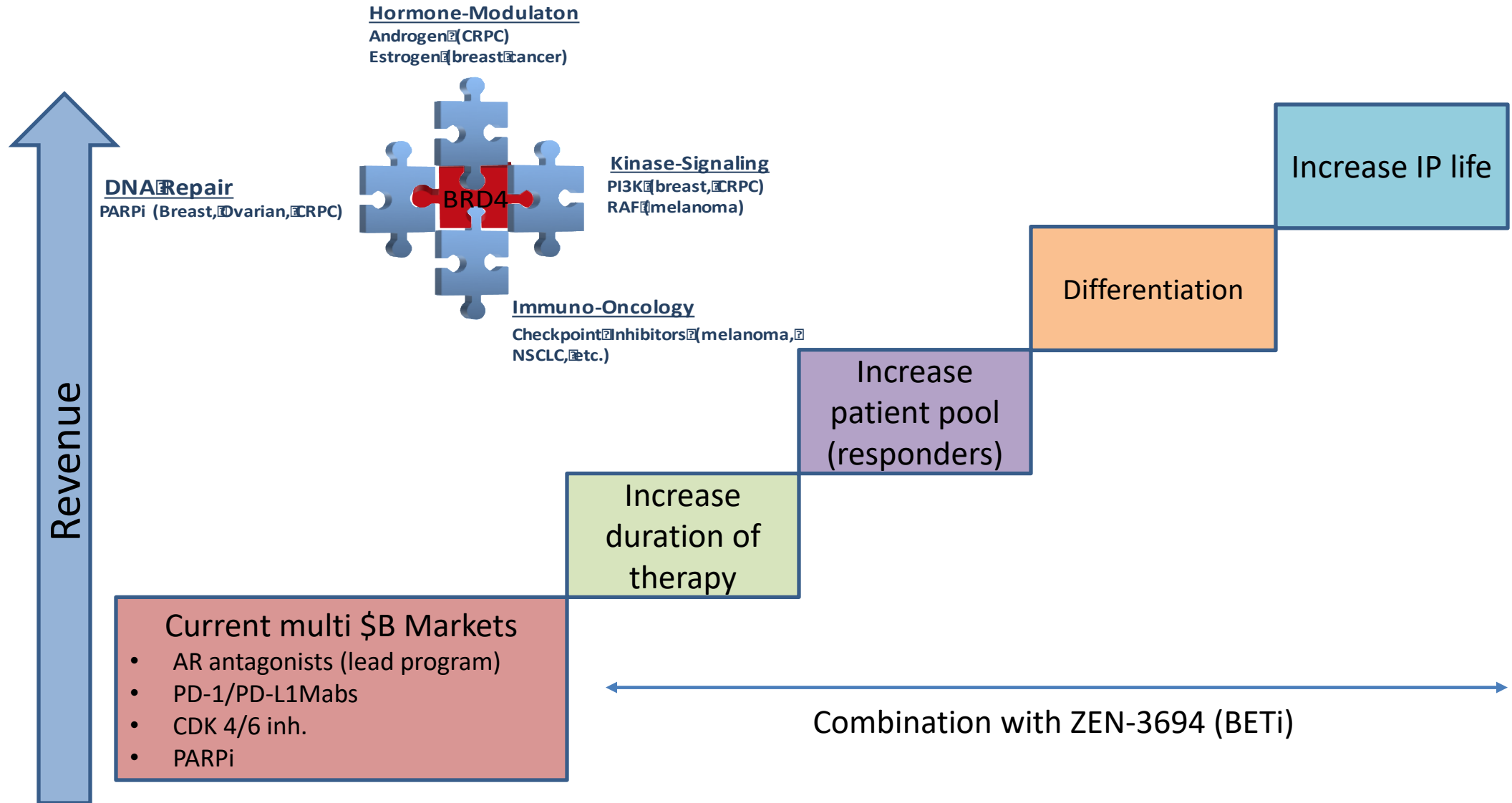
A mechanism for regulating gene activity independent of DNA sequence that determines which genes are turned on or off:

- o in a particular cell type
- o in different disease states
- o in response to a physiological stimulus



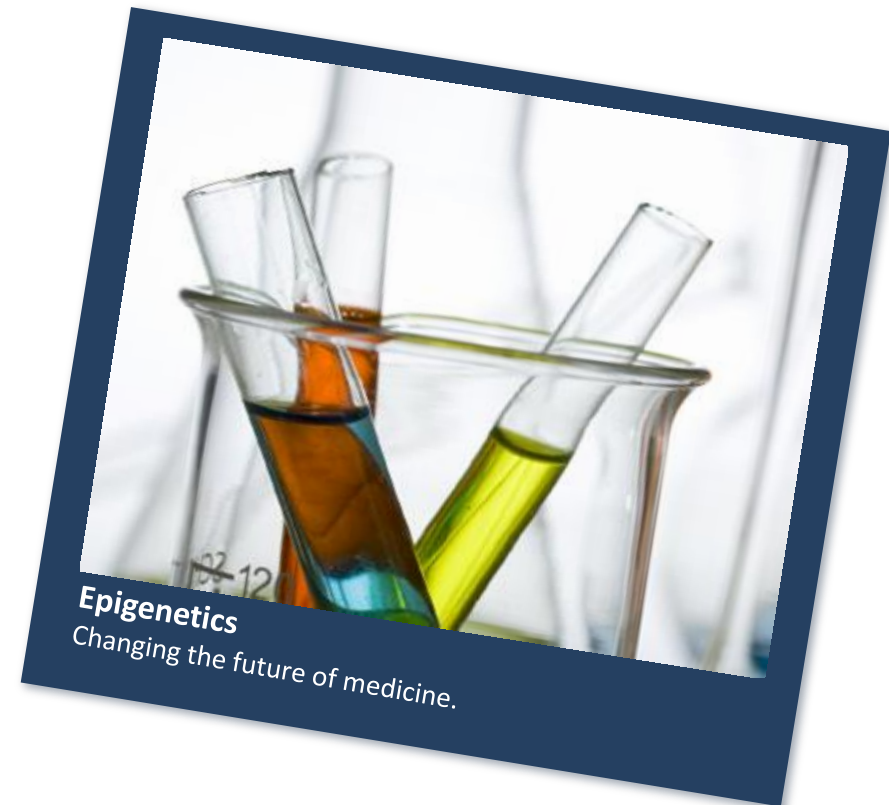
Resistance to several standard of care treatments does not impede sensitivity to BETi

Epigenetic combination therapies - addressing resistance & increasing revenue of \$B franchises



Prostate Cancer Rationale Review

1. Corporate Profile
2. Epigenetic Mechanism Review
- 3. Prostate Cancer Rationale Review**
4. Phase 1 Details & Early Results
5. Enzalutamide Combination Trial – Phase 2a
6. Next Steps

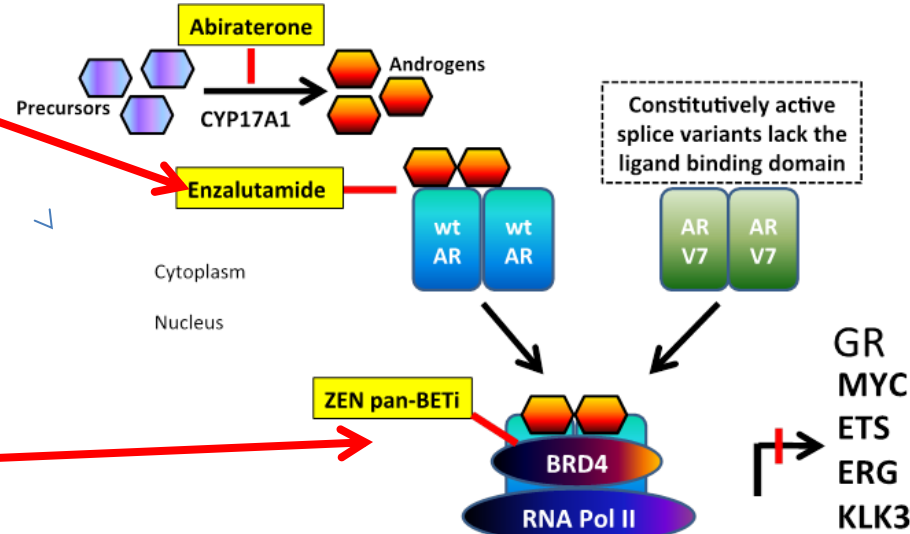


ZEN-3694 Potential in Patients Developing mCRPC Resistance to Enzalutamide

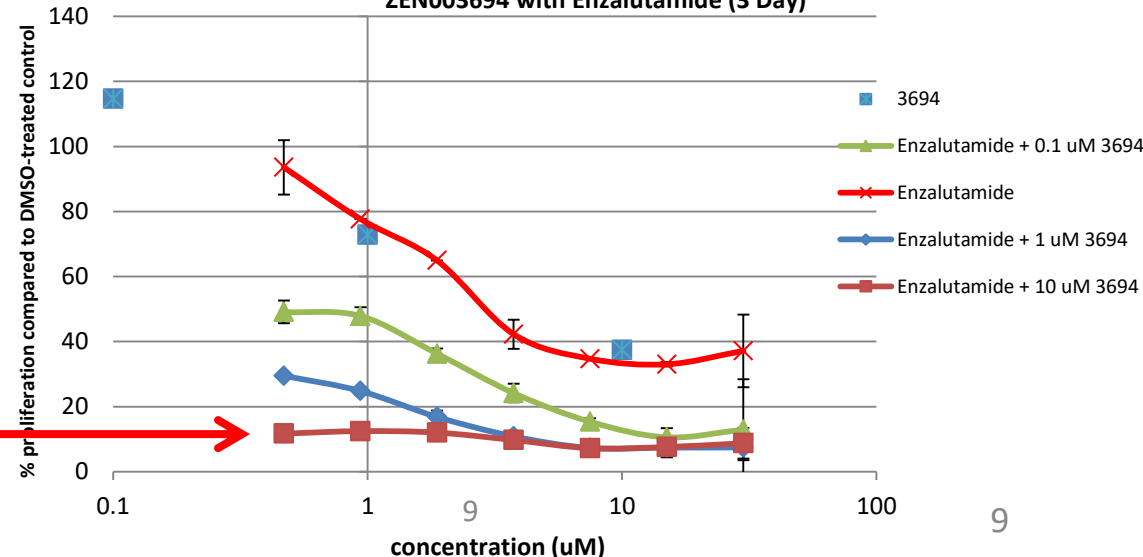
ZEN-3694 works down stream of current therapies

ZEN-3694 works where resistance to existing lead drugs, like Enzalutamide, has evolved

The combination of ZEN-3694 and enzalutamide shows strong synergy and is expected to reduce the development of resistance



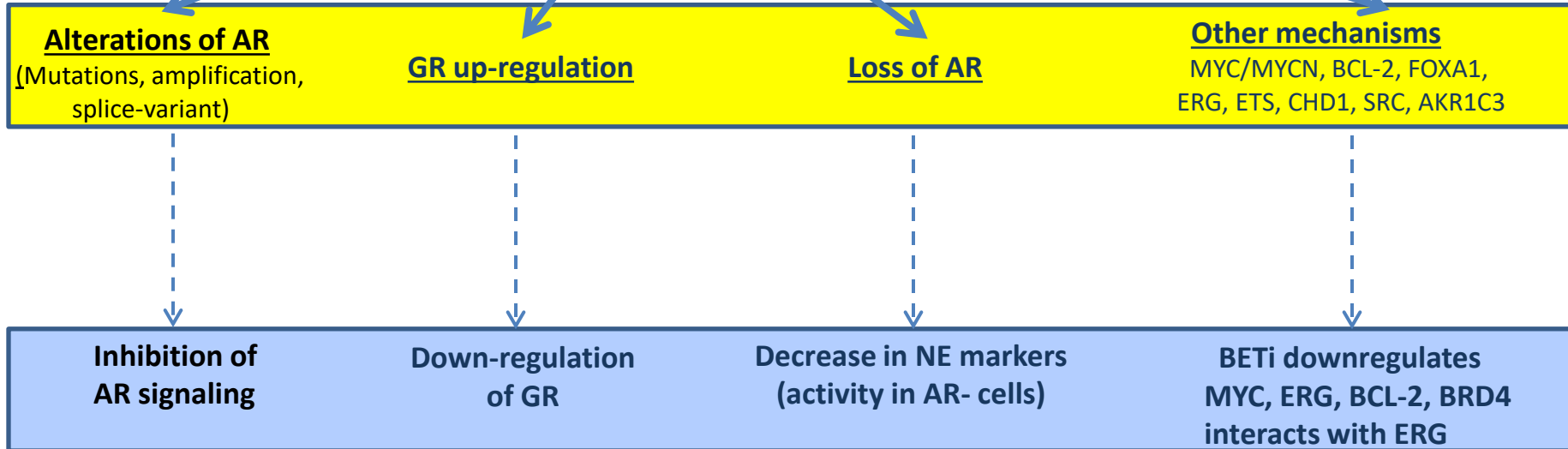
Cell Viability in VCAP P3 + 0.1 nM R1881 Treated with various concentrations of ZEN03694 with Enzalutamide (3 Day)



Potential Resistance Pathways in CRPC in response to Enzalutamide and/or Abiraterone

ENZALUTAMIDE/ABIRATERONE THERAPY

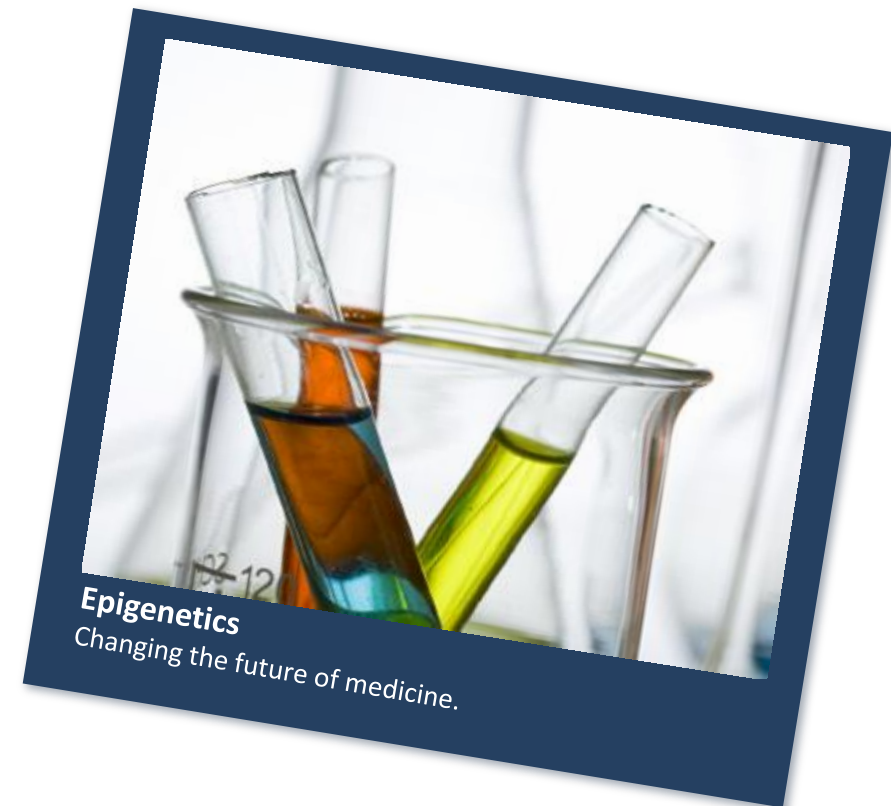
CRPC



ZEN-3694 shows good efficacy in different CRPC models that are resistant to AR antagonists

Phase 1 Details & Results

1. Corporate Profile
2. Epigenetic Mechanism Review
3. Prostate Cancer Rationale Review
- 4. Phase 1 Details & Early Results**
5. Enzalutamide Combination Trial – Phase 2a
6. Next Steps



Zenith's Principal Investigators



Name	Institution	Comments
<p>Eric Small, MD <i>Chief, Dept. of Medicine</i></p> <p>Rahul Aggarwal, MD <i>Developmental Therapeutics Specialist, Genitourinary Oncologist</i></p>	<p>University of California, San Francisco (UCSF)</p>	<p>Developed abiraterone - #2 CRPC drug, owned by J&J.</p>
<p>Howard Scher, MD <i>Chief, Genitourinary Oncology</i></p> <p>Wassim Abida, MD, PhD <i>Medical Oncologist</i></p>	<p>Memorial Sloane Kettering Cancer Center (MSKCC)</p>	<p>Developed enzalutamide - #1 CRPC drug, now owned by Pfizer. Developing ARN-509 for J&J</p>
<p>Joshi Alumkal, MD <i>Associate Professor</i></p>	<p>Oregon Health Sciences University (OHSU)</p>	<p>Expert in epigenetics in prostate cancer research</p>
<p>Allan Pantuck, MD <i>Professor, Dept. of Urology</i></p>	<p>University of California Los Angeles (UCLA)</p>	<p>Involved in enzalutamide and provenge development</p>
<p>Elizabeth Heath, MD <i>Professor, Dept. Hematology/Oncology</i></p>	<p>Karmanos (Wayne State)</p>	<p>Genitourinary oncology specialist</p>
<p>Mark Fleming, MD <i>Oncologist</i></p>	<p>Virginia Oncology Associates</p>	<p>Community site</p>

ZEN-3694 development in mCRPC- Phase 1 single agent study results

2016		2017	
1H	2H	1H	2H

Single agent dose escalation;
enzalutamide and/or abiraterone
failures N~12

Single agent expansion at RP2D;
same population as dose escalation
N=12

Key Learnings

- Maximum tolerated dose (MTD) defined ✓
- Dose proportional PK ✓
- Good safety profile, prolonged dosing without dose interruption/reduction is feasible ✓
- Target modulation shown at doses below MTD ✓
- Some single agent anti-tumor activity/disease stabilization observed in multiple patients ✓

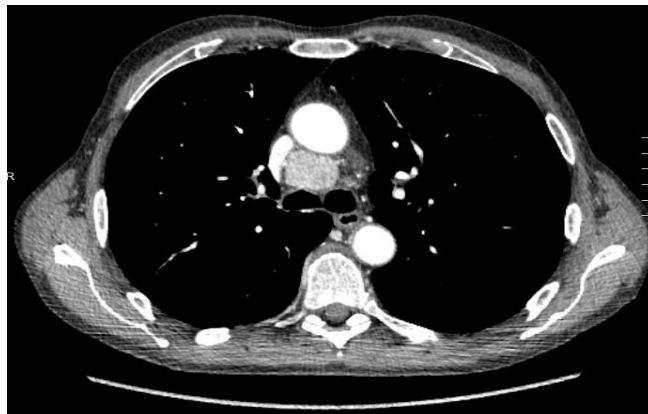
Single agent study key to understanding drug characteristics and supporting combination study

Prior Therapy for mCRPC

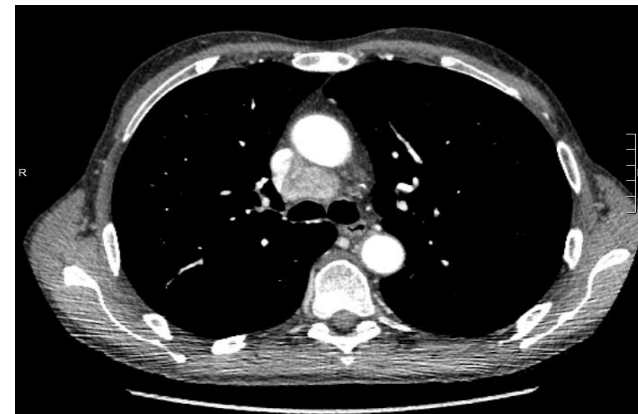
- Provenge
- Enzalutamide: 6/5/2014 – 5/5/2016 – acquired resistance
- Abiraterone: 5/22/2016 – 8/12/2016 – primary resistance

- ZEN-3694: 8/24/2016 – 7/16/2016, 45 weeks

Study Entry



32 Weeks



Stable
mediastinal
nodes over 8
months

Enzalutamide Combination Trial – Phase 1b/2a

1. Corporate Profile
2. Epigenetic Mechanism Review
3. Prostate Cancer Rationale Review
4. Phase 1 Details & Early Results
- 5. Enzalutamide Combination Trial – Phase 2a**
6. Next Steps



ZEN-3694 Phase 2a Study Design

Phase 2a, open label, combination, 3x3 dose escalation/confirmation

mCRPC, chemo-naïve, enzalutamide naïve, prior progression on abiraterone

X mg QD ZEN-3694
160 mg QD enzalutamide
N = 3 (planned)

Seven sites, UCSF and MSKCC leading

Dose escalation cohorts

MTD / RP2D Confirmation

MTD: Highest dose with $\leq 1/6$ patients with DLT

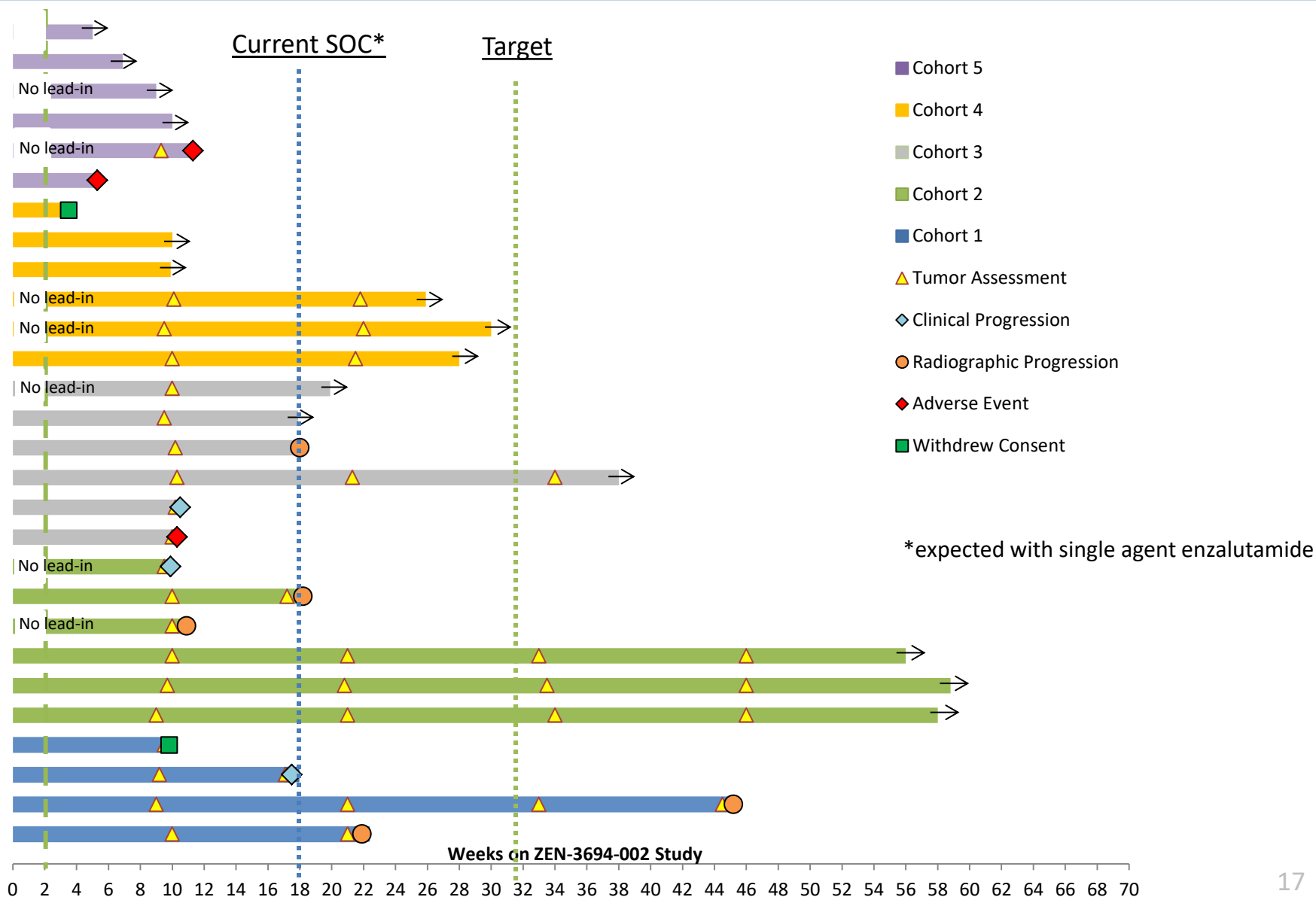
Expansion Cohort A

Enza naïve, progression on
abiraterone

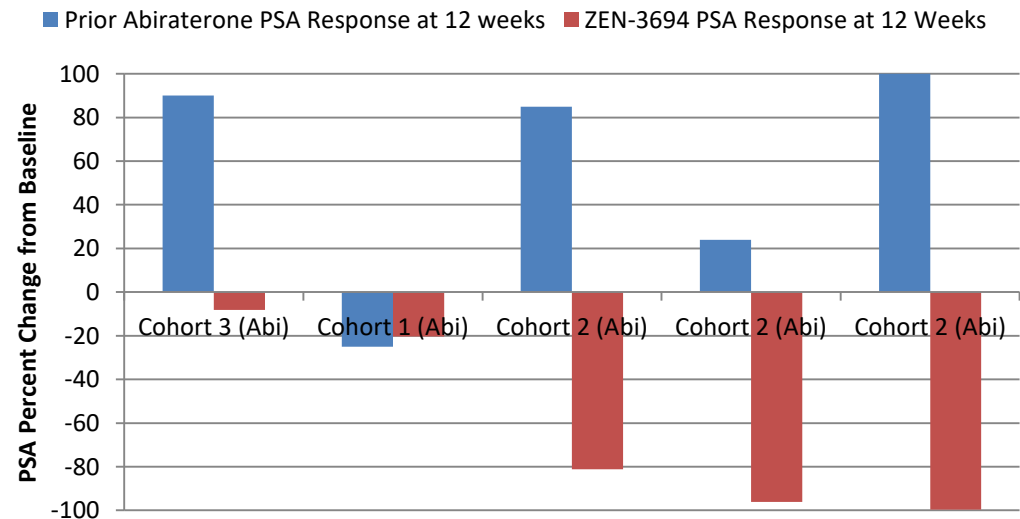
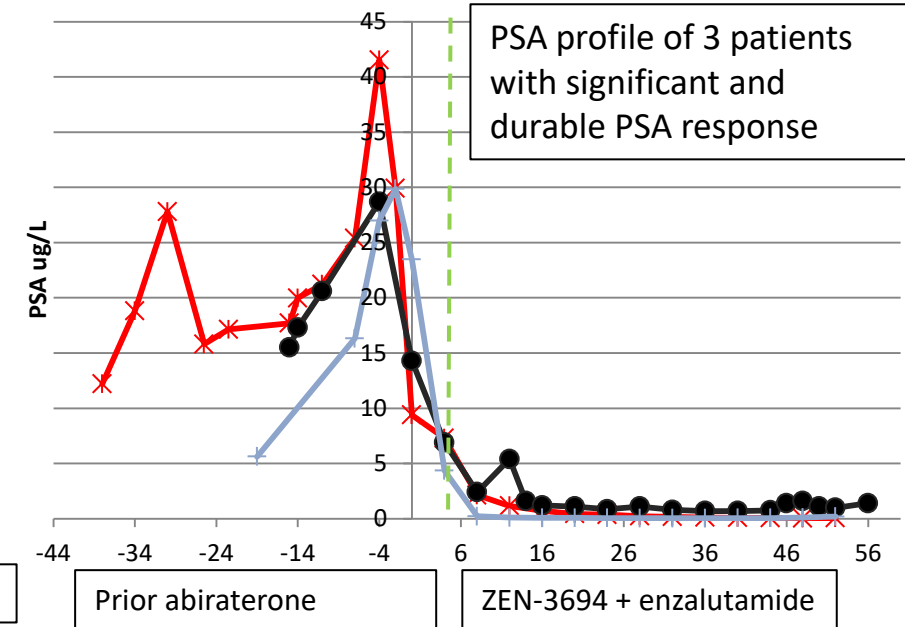
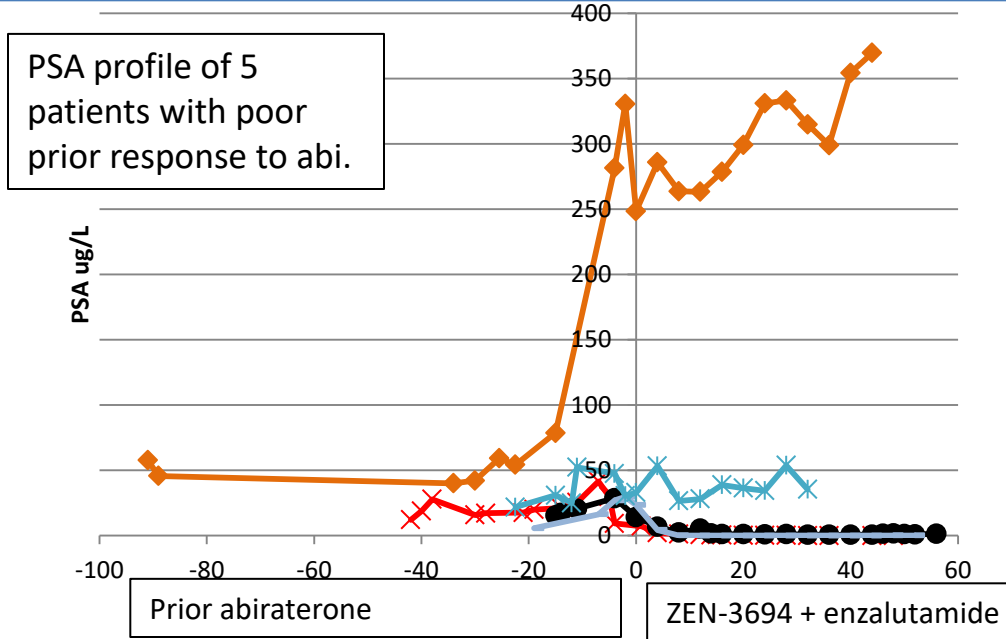
Expansion Cohort B

Biochemical progression on
enzalutamide

ZEN-3694 + enzalutamide is active: Increase in treatment duration relative to single agent enzalutamide

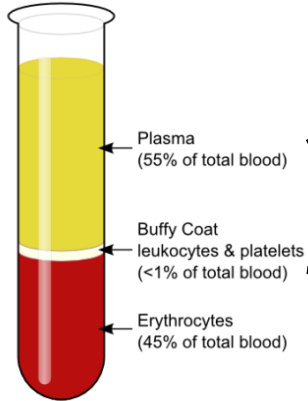


Strong PSA response with ZEN-3694 + enzalutamide in patients with poor prior response to abiraterone



Extensive translational medicine plan for deciphering MOA and designing future biomarker driven trials

Whole blood



CTCs

==>

- Enumeration, AR-C, AR-N
- MYC, AR-V7, GR
- HRD signature

Whole blood

==>

- PD marker assay to measure target modulation
- Nanostring cancer immune panel
- AR-V7 target engagement

PBMCs

==>

- Immune Tolerance Markers, T cell subtypes, TCR sequencing

Plasma

==>

- Exploratory, Metabolomics/exosomes/protein markers, cytokine panel

Tumor biopsy



½ FFPE



IHC

==>

- MYC
- AR, GR
- PD-L1, CD8+ TIL
- Histology

½ Frozen

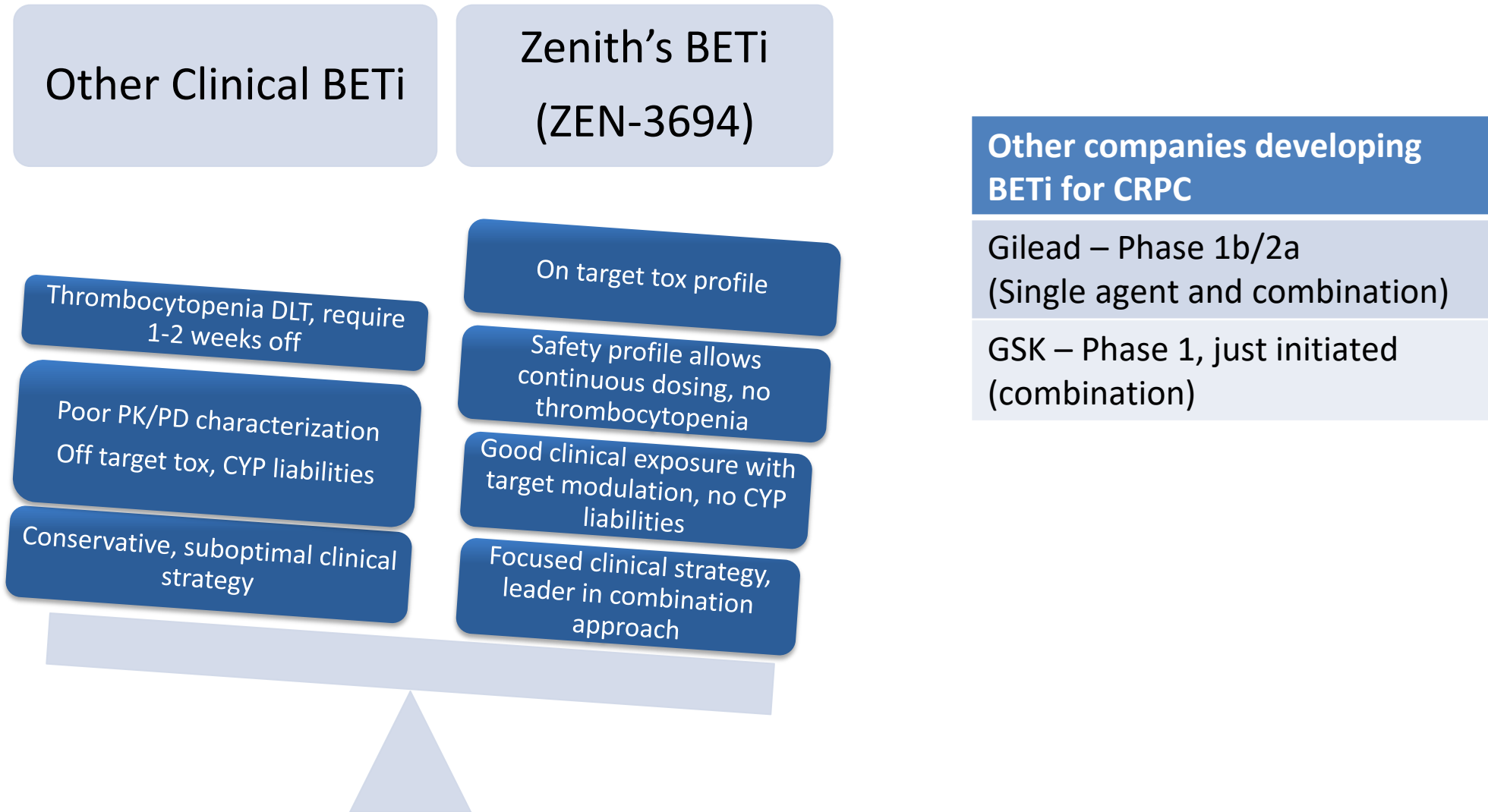


RNA-seq

==>

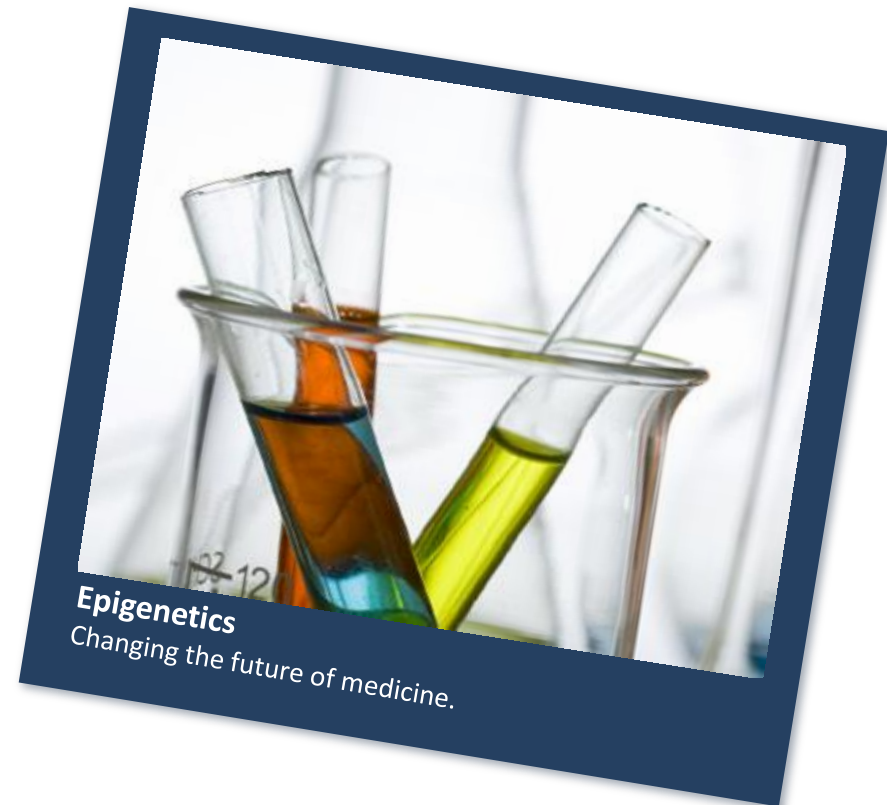
- Expressed mutations
- Fusions and splice variants
- Expression profiles and pathway analysis (AR/GR signaling, NFkB, etc.)
- Immuno-onc markers

Translational program designed for molecular profiling ARi resistant patients and effect of ZEN-3694 on resistant markers, potential correlation of response to molecular signature

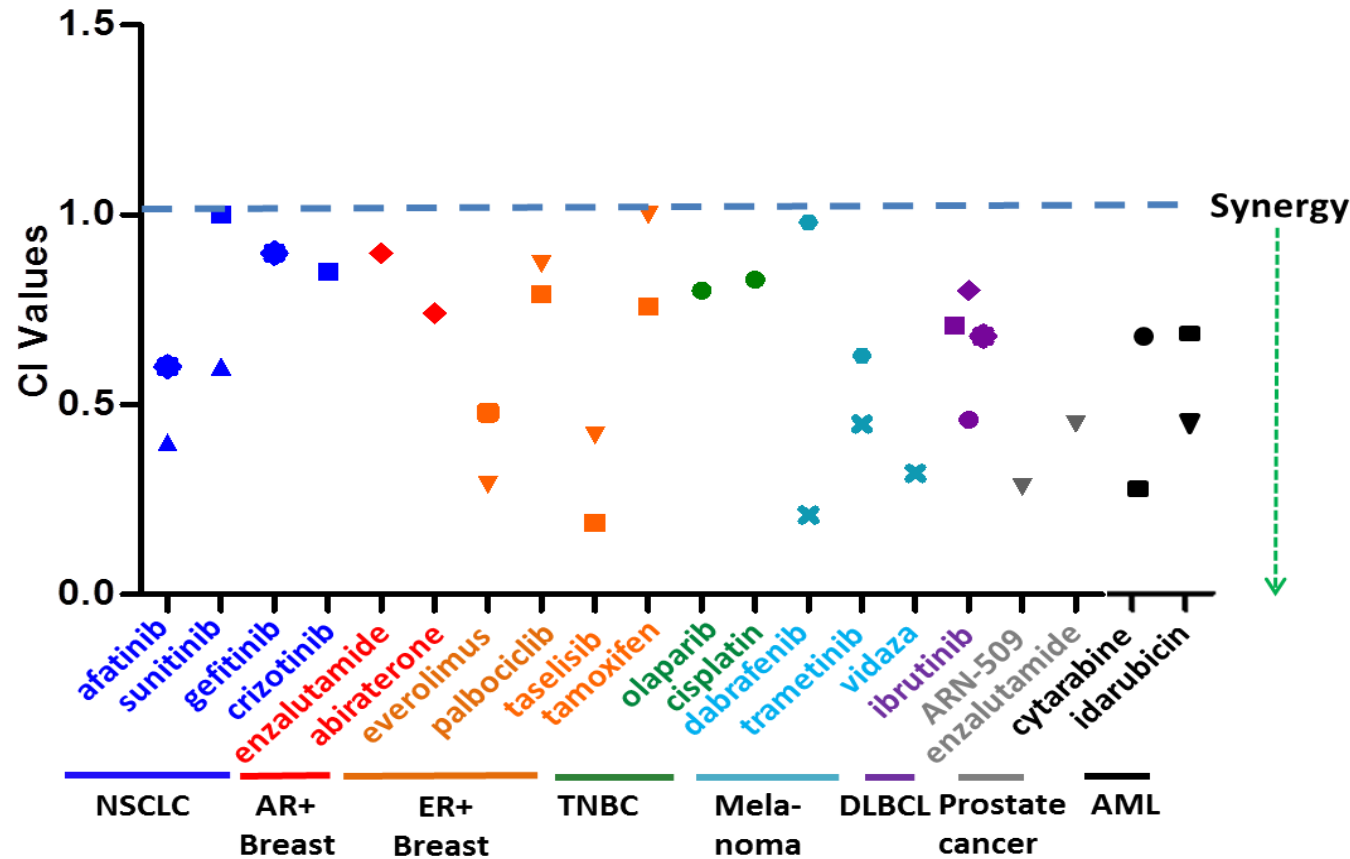


Next Steps

1. Corporate Profile
2. Epigenetic Mechanism Review
3. Prostate Cancer Rationale Review
4. Phase 1 Details & Early Results
5. Enzalutamide Combination Trial – Phase 2a
- 6. Next Steps**



ZEN-3694 Synergizes With Several Standard of Care Cancer Drugs



Indication		Cell line (mutation)
NSCLC	▲	H1975 (EGFR L858R T790M)
	◆	H820 (EGFR T790M)
	■	H2228 (ALK)
AR+ Breast	◆	MDA-MB-453
ER+ Breast	■	MCF-7 (ER+)
	▼	ZR-75-1 (ER+)
TNBC	●	HCC1937 (BRCA1)
Melanoma	×	C32 (BRAF V600E)
	●	A375 (BRAF)
DLBCL	◆	CARNAVAL (MYC/BCL2)
	●	OCI-LY18 (MYC/BCL2)
	◆	NU-DUL-1
	■	OCI-LY3 (A20)
Prostate	▼	VCAP (AR AMP/AR-V7)
AML	■	MV4-11 (MLL-AF4/FLT3-ITD)
	●	OCI-AML2 (DNMT3A/MLL)
	▼	OCI-AML3 (DNMT3A/NPM1)

CANCER

Repression of BET activity sensitizes homologous recombination–proficient cancers to PARP inhibition

Article

Cancer Cell

BRD4 Inhibition Is Synthetic Lethal with PARP Inhibitors through the Induction of Homologous Recombination Deficiency

Report

Cell Reports

BET Bromodomain Inhibition Synergizes with PARP Inhibitor in Epithelial Ovarian Cancer

A background image of a laboratory setting with various glassware, including Erlenmeyer flasks and beakers, some containing liquids. The lighting is bright, creating a clean and professional atmosphere.

ZENITH 

BIO International Convention – June 2018
Advanced Epigenetic Technology