



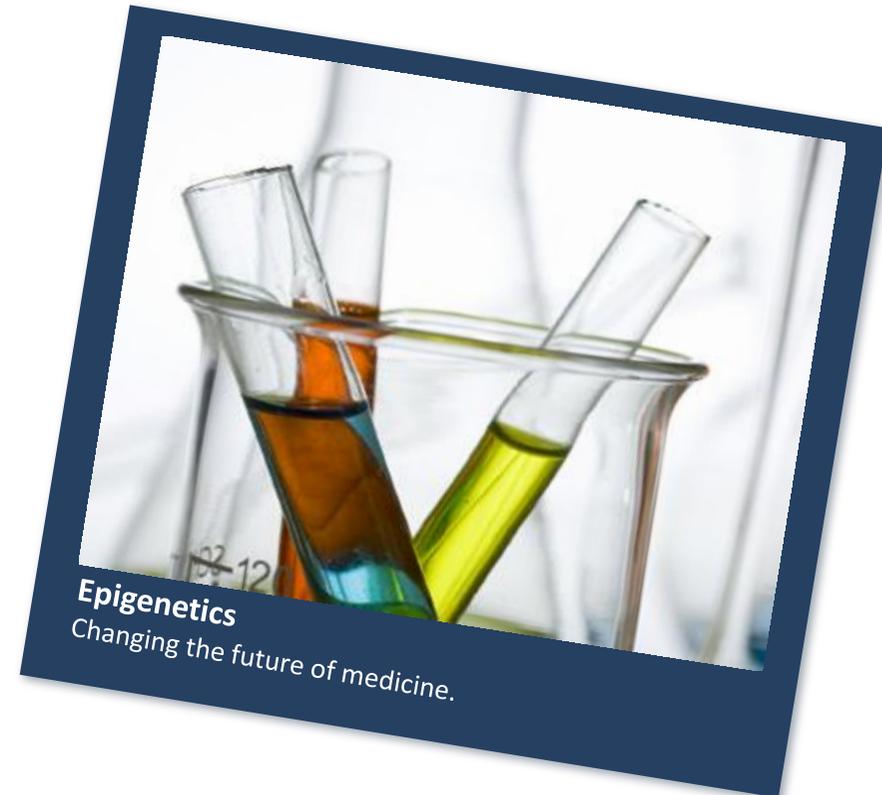
ZENITH



BIOTECH Showcase – Clinical Advancements Update
Advanced Epigenetic Technology **January 8th, 2018**

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 1b
6. Next Steps



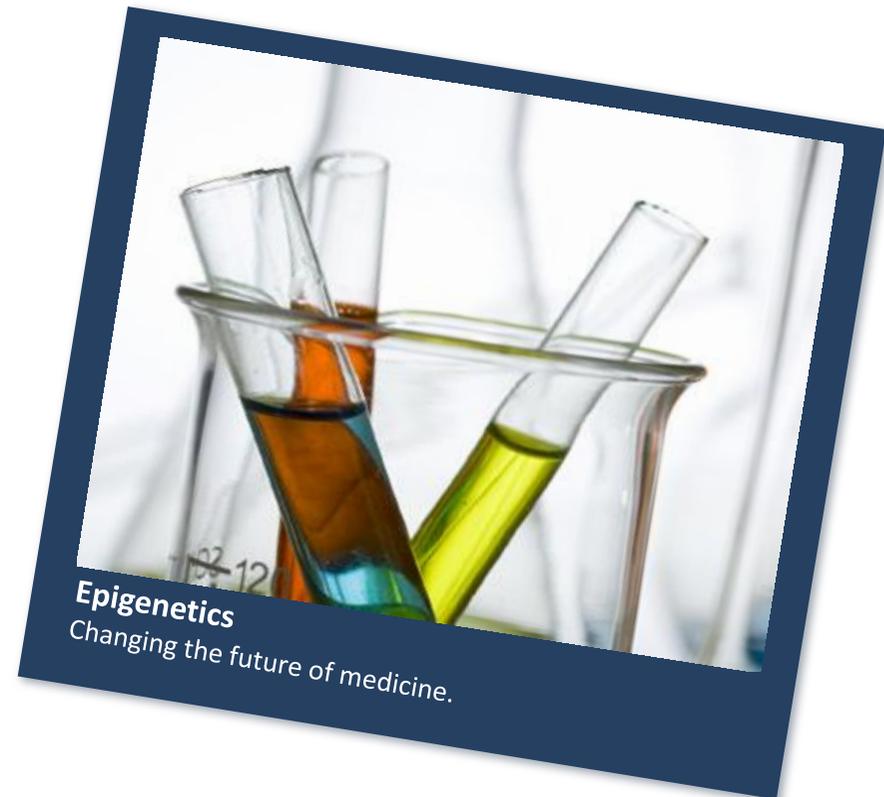
Safe Harbor Statement. This presentation contains forward-looking statements that involve risks and uncertainties, which may cause actual results to differ materially from the statements made. For this purpose, any statements that are contained herein that are not statements of historical fact may be 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

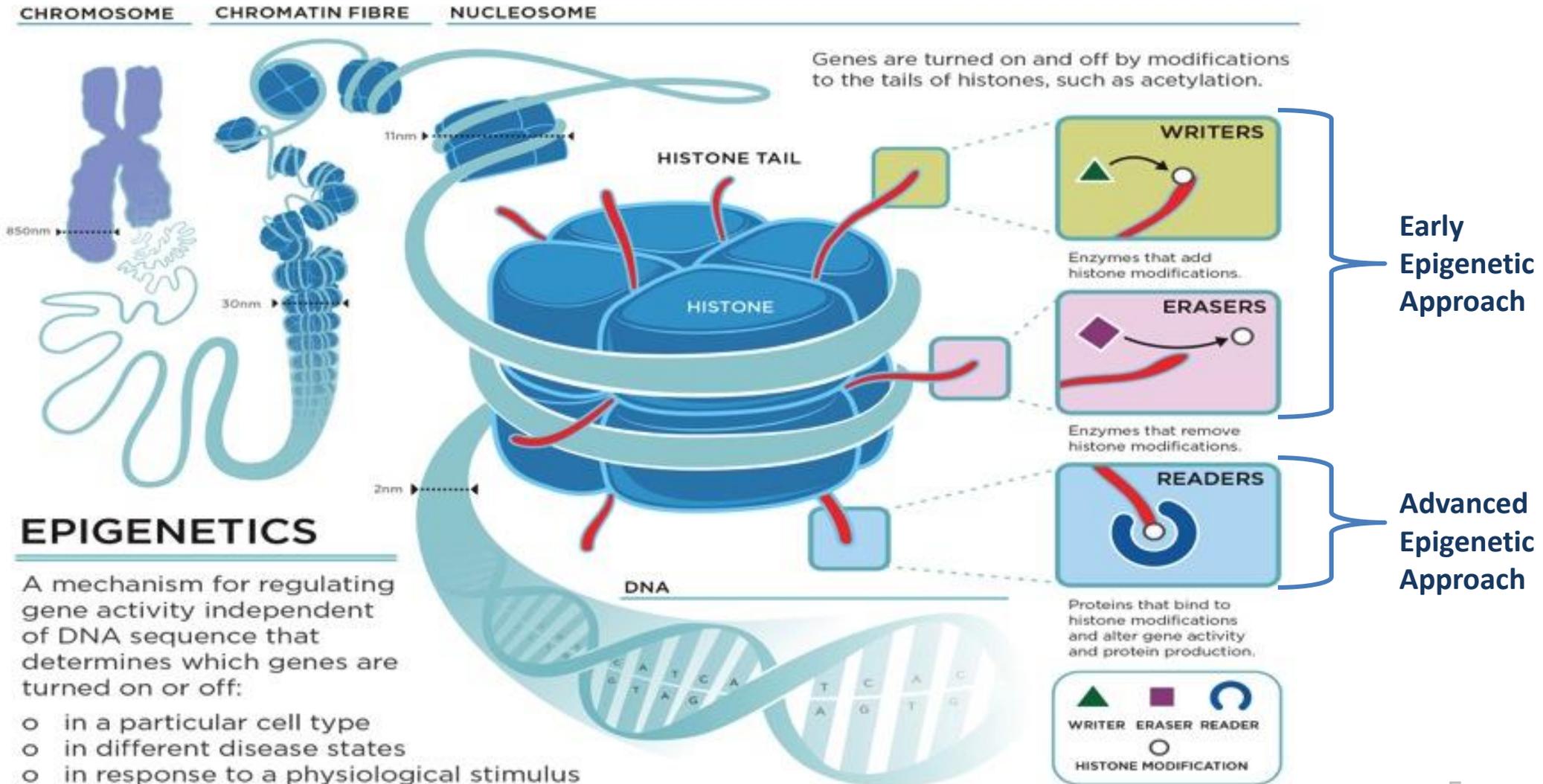
Founded	Corporate spin out from Resverlogix in June 2013
Status	Private Company, full reporting issuer
Cash Raised 2014-2016	Approx. US\$44MM @ \$1.00 USD per share (all pre-clinical results based)
Enterprise Value est.	\$350 to \$375MM USD (\$2.50 to \$3.00 USD/share) est.
Shares Outstanding	125.2 MM 134.0 MM fully diluted 10MM additional shares will be sold shortly
Cash Burn	\$2 MM per quarter - Current

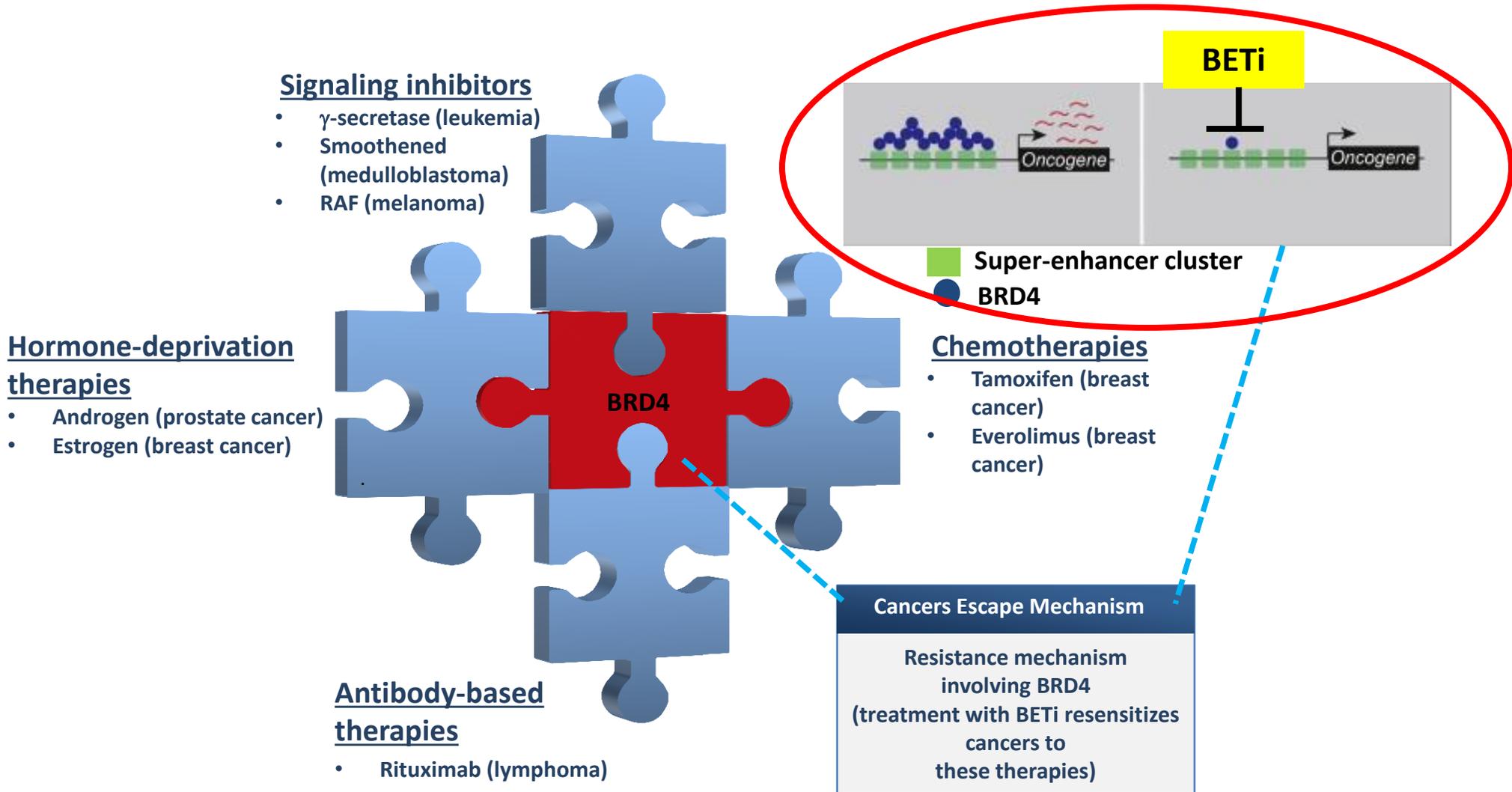
Epigenetic Mechanism

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- 2. Epigenetic Mechanism Review**
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7. Intellectual Property



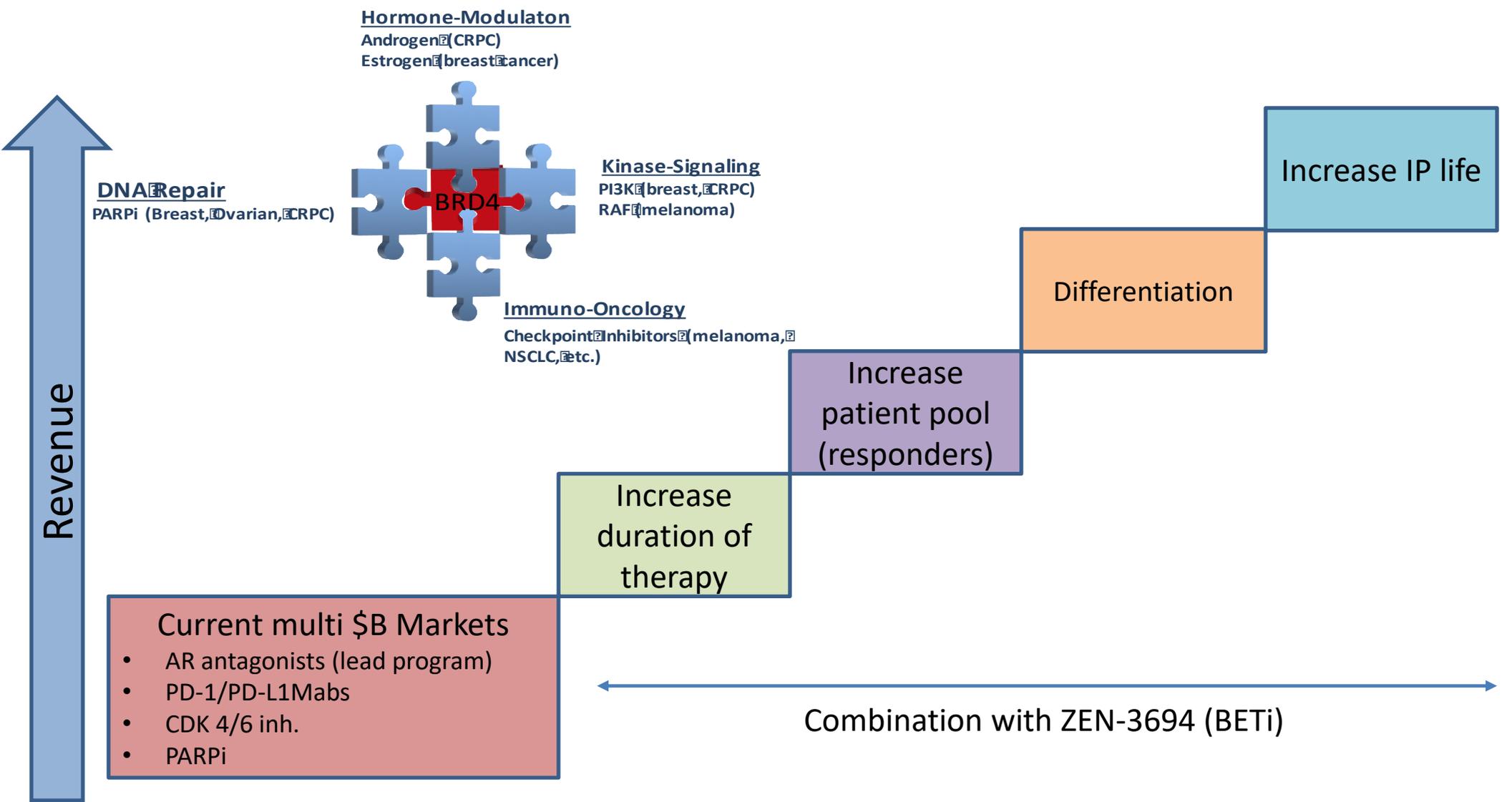
Epigenetics: the Mechanism Behind Our Approach





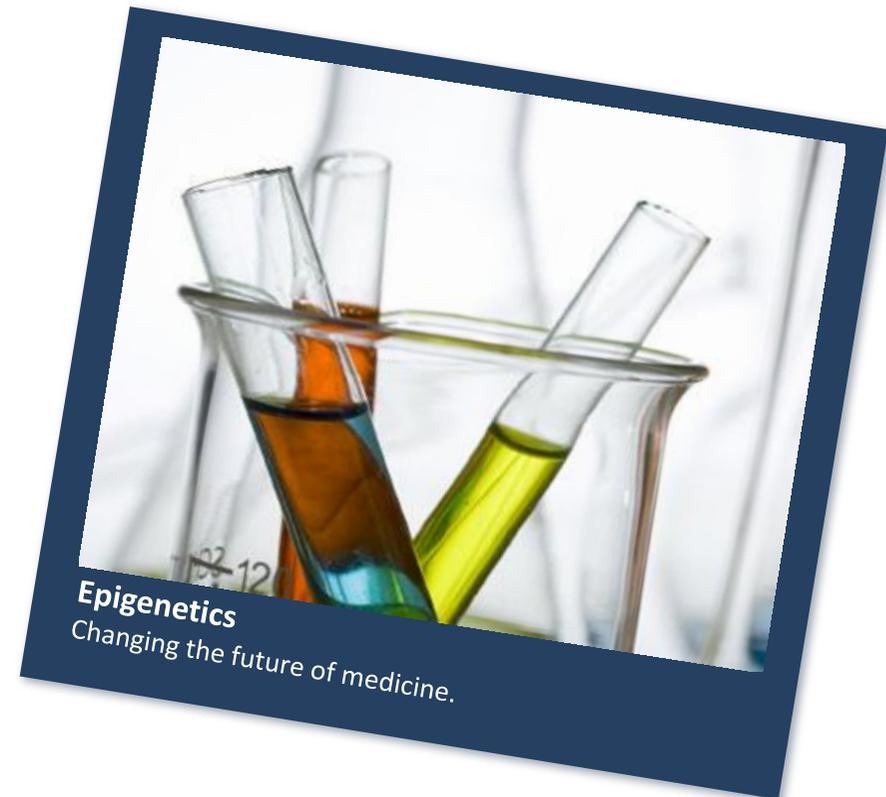
Resistance to several standard of care treatments does not impede sensitivity to BETi

Developing Epigenetic Combination Therapies to Address Resistance & Significantly Increase Revenue of \$B Franchises



Prostate Cancer Rationale Review

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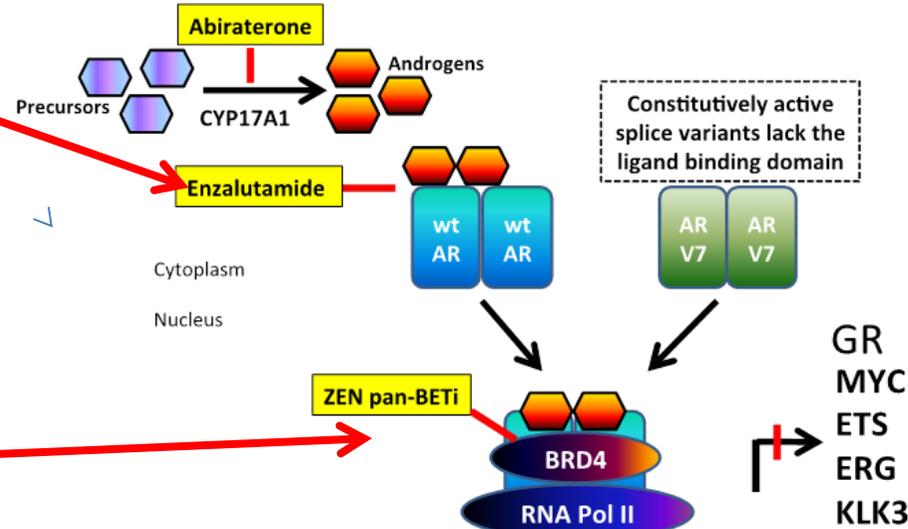


ZEN-3694 Potential in Patients Developing mCRPC Resistance to Enzalutamide

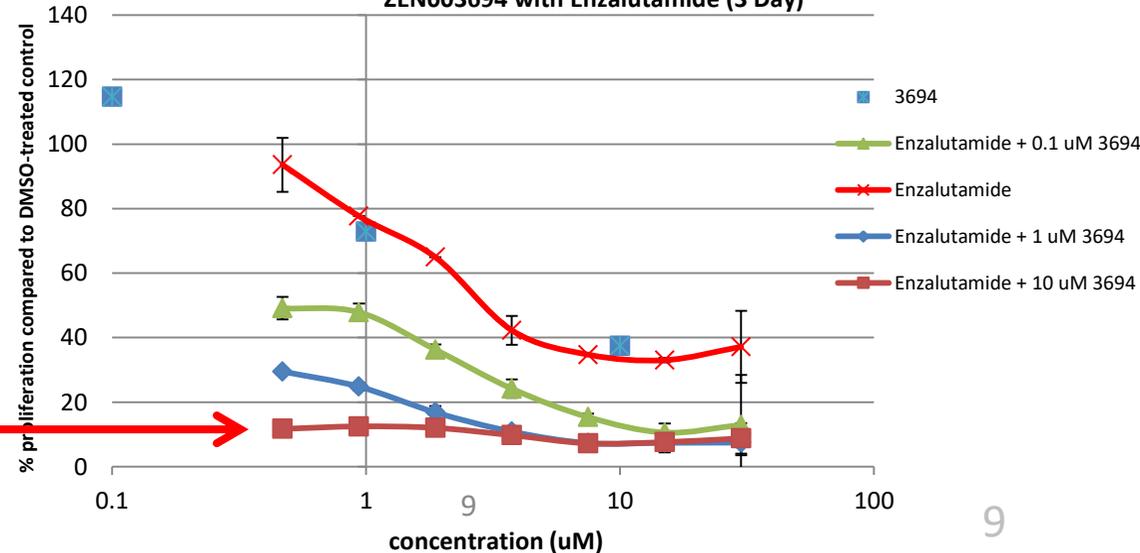
ZEN-3694 works down stream of current therapies

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



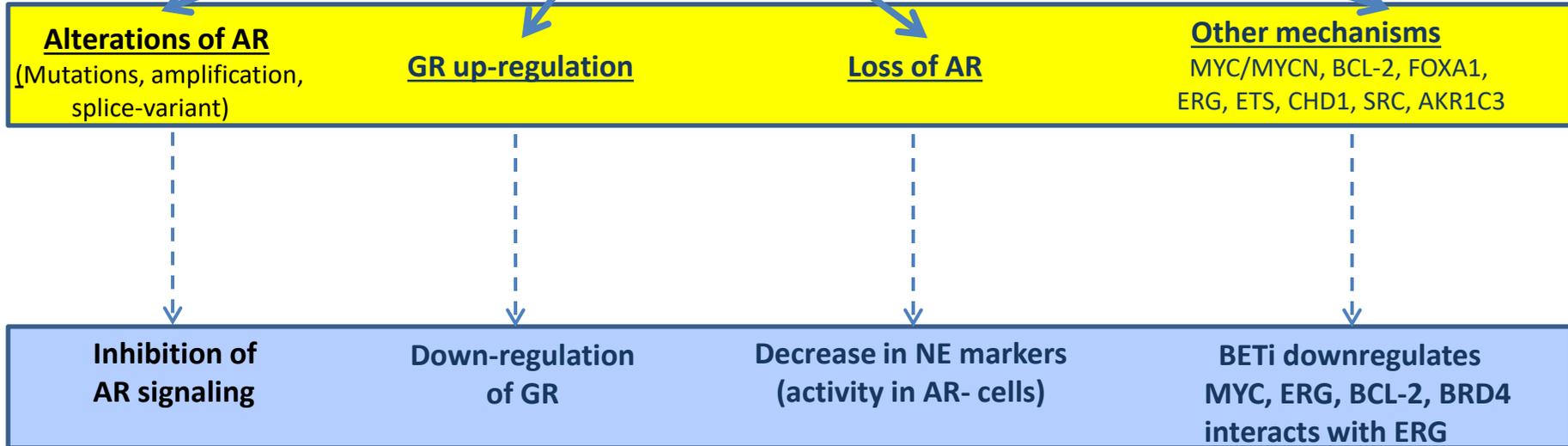
Cell Viability in VCAP P3 + 0.1 nM R1881 Treated with various concentrations of ZEN003694 with Enzalutamide (3 Day)



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

ENZALUTAMIDE/ABIRATERONE THERAPY

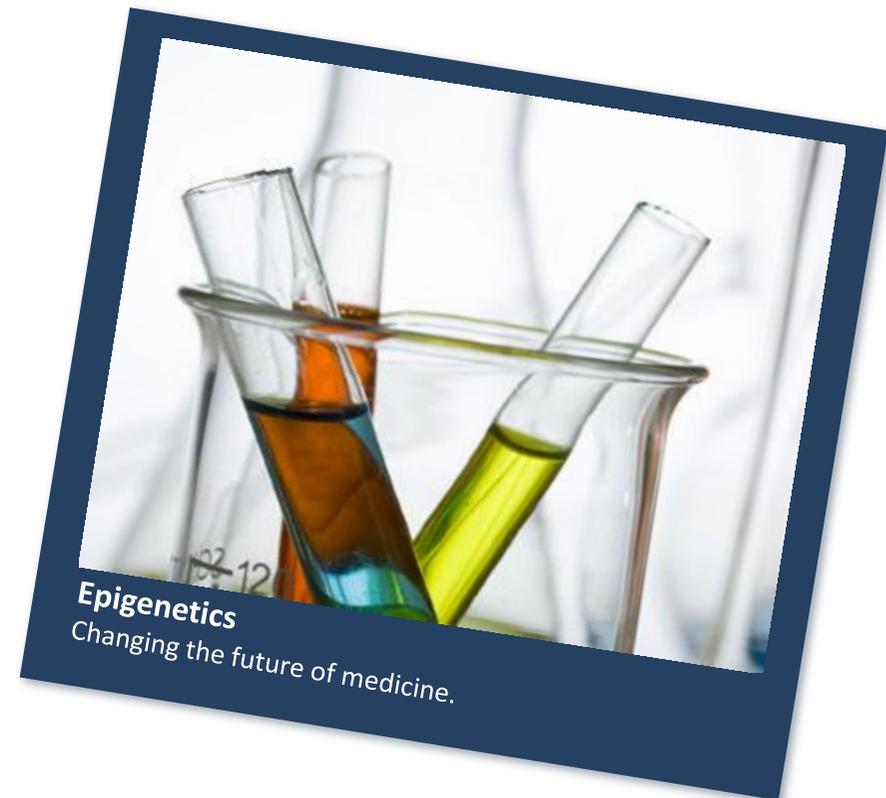
CRPC



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

Phase 1 Details & Results

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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>

Primary

- Safety, tolerability, maximum tolerated dose (MTD), and recommended Phase 2 dose (RP2D) of ZEN-3694

Secondary

- Pharmacokinetics (PK)
- Preliminary clinical activity
 - PCWG2 Criteria: PSA response rate, Radiographic response rate, PFS
 - Circulating Tumor Cell (CTC) response rate

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 ✓

Ongoing activities

- Fully enrolled and dosed,
- Study closeout ongoing, follow on data analysis continues

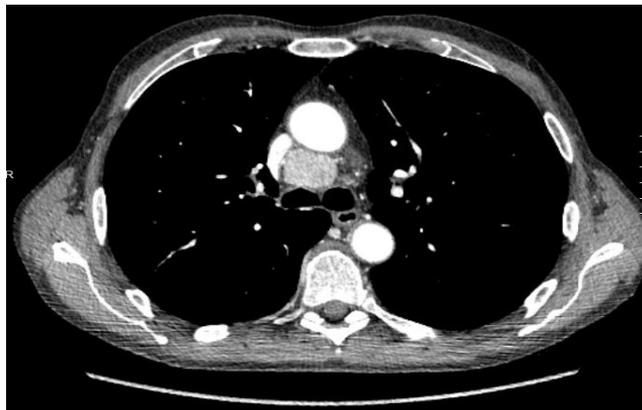
Patient X: Prolonged disease stabilization

Prior Therapy for mCRPC

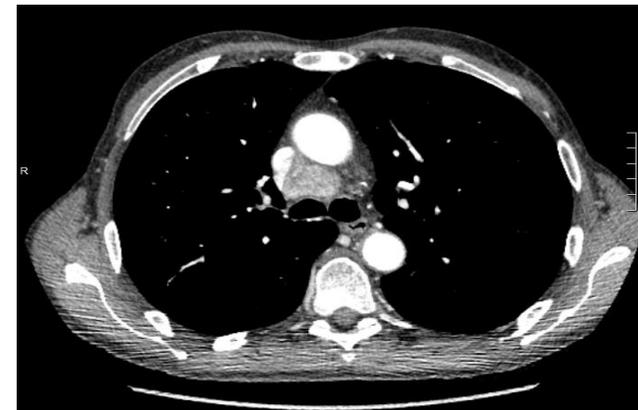
- Provenge
- Enzalutamide: 6/5/2014 – 5/5/2016 – acquired resistance
- Abiraterone: 5/22/2016 – 8/12/2016 – primary resistance

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

Study Entry



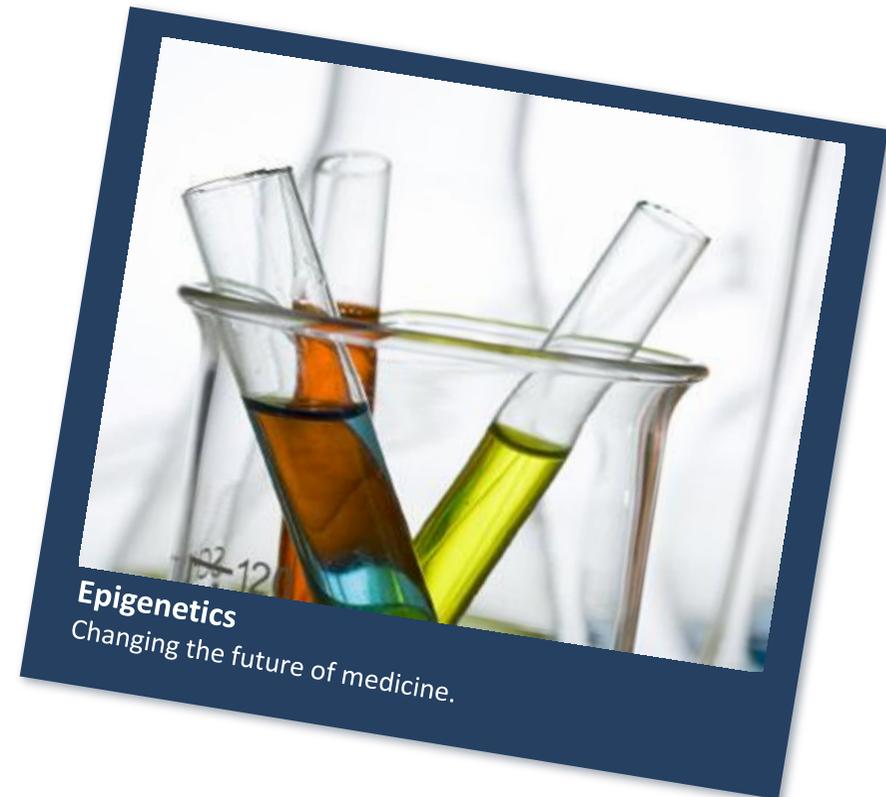
32 Weeks



Stable
mediastinal
nodes over 8
months

Enzalutamide Combination Trial – Phase 1b

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ZEN-3694 Phase 1b Study Design

Phase 1b, 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

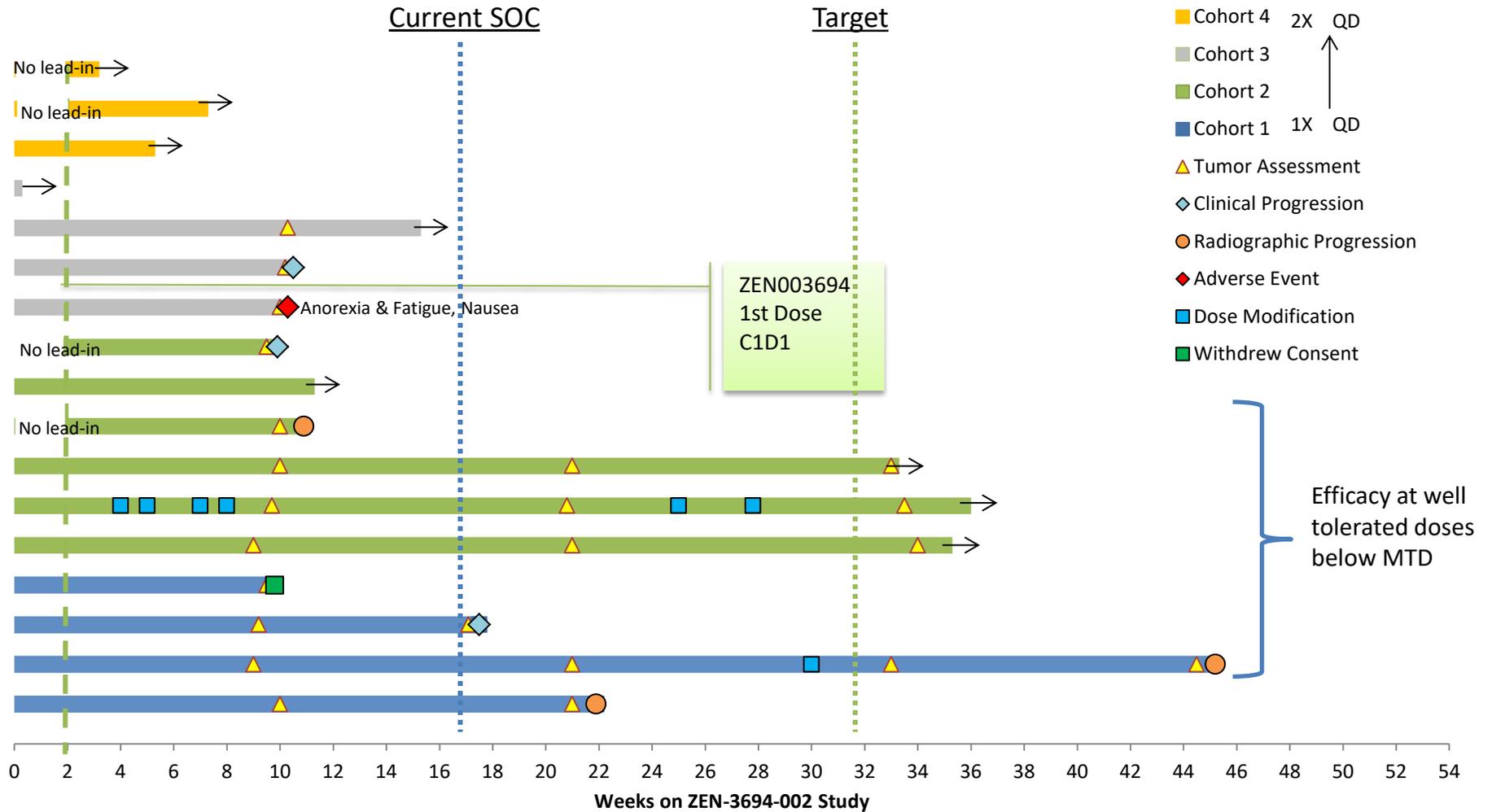
Expansion Cohort A

Enza naïve, progression on
abiraterone

Expansion Cohort B

Biochemical progression on
enzalutamide

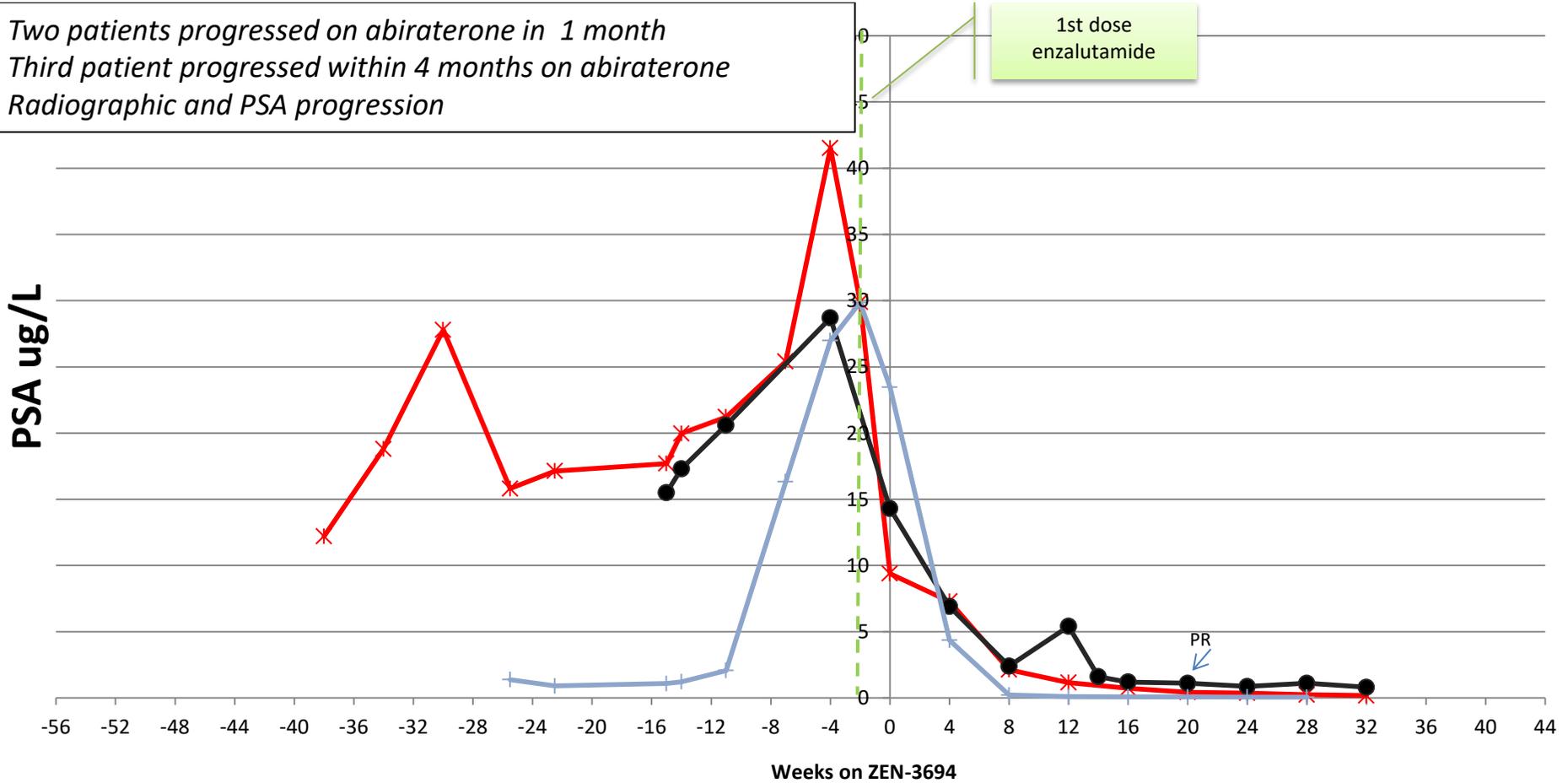
ZEN-3694-002 Treatment Duration



	Treatment days	rPFS
SOC (2 nd line enza/abi)	4-5 months	4-6 months
ZEN-3694 + Enza target	> 8-9 months	> 8-9 months

ZEN-3694-002 Combination Study: PSA Response (cohort 2, 1.33X mg)

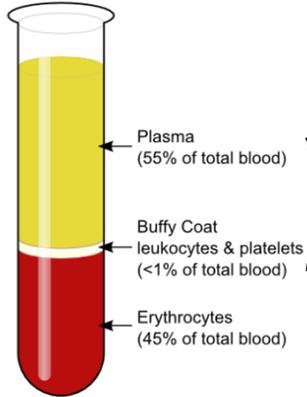
Two patients progressed on abiraterone in 1 month
Third patient progressed within 4 months on abiraterone
Radiographic and PSA progression



	PSA50 response	PSA Response duration
SOC (2 nd line enza/abi)	15-25%	3-4 months
ZEN-3694 + Enza target	>40%	>8 months

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

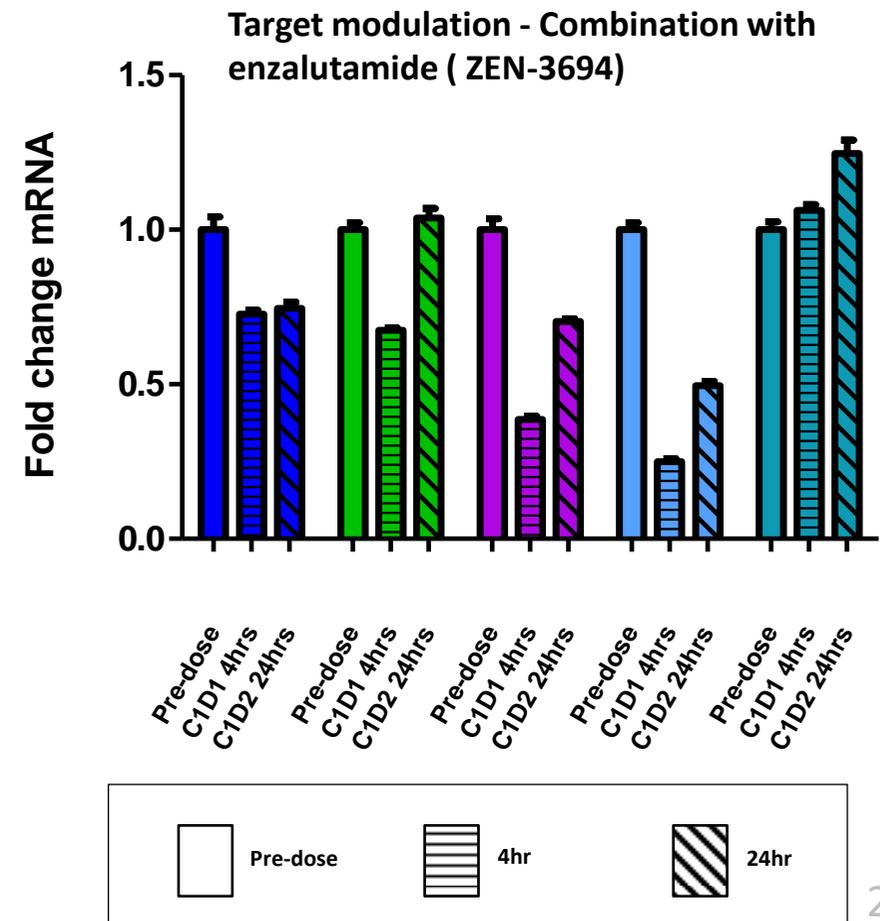
RNA-seq

- 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

ZEN-3694 combination study with enzalutamide

- Dose escalation progressing
- Dose proportional exposure
- Target modulation shown at well tolerated doses
- Combination well tolerated



Lack of Grade 3-4 Treatment-related Adverse Events (ZEN-3694-002) at Efficacious Doses

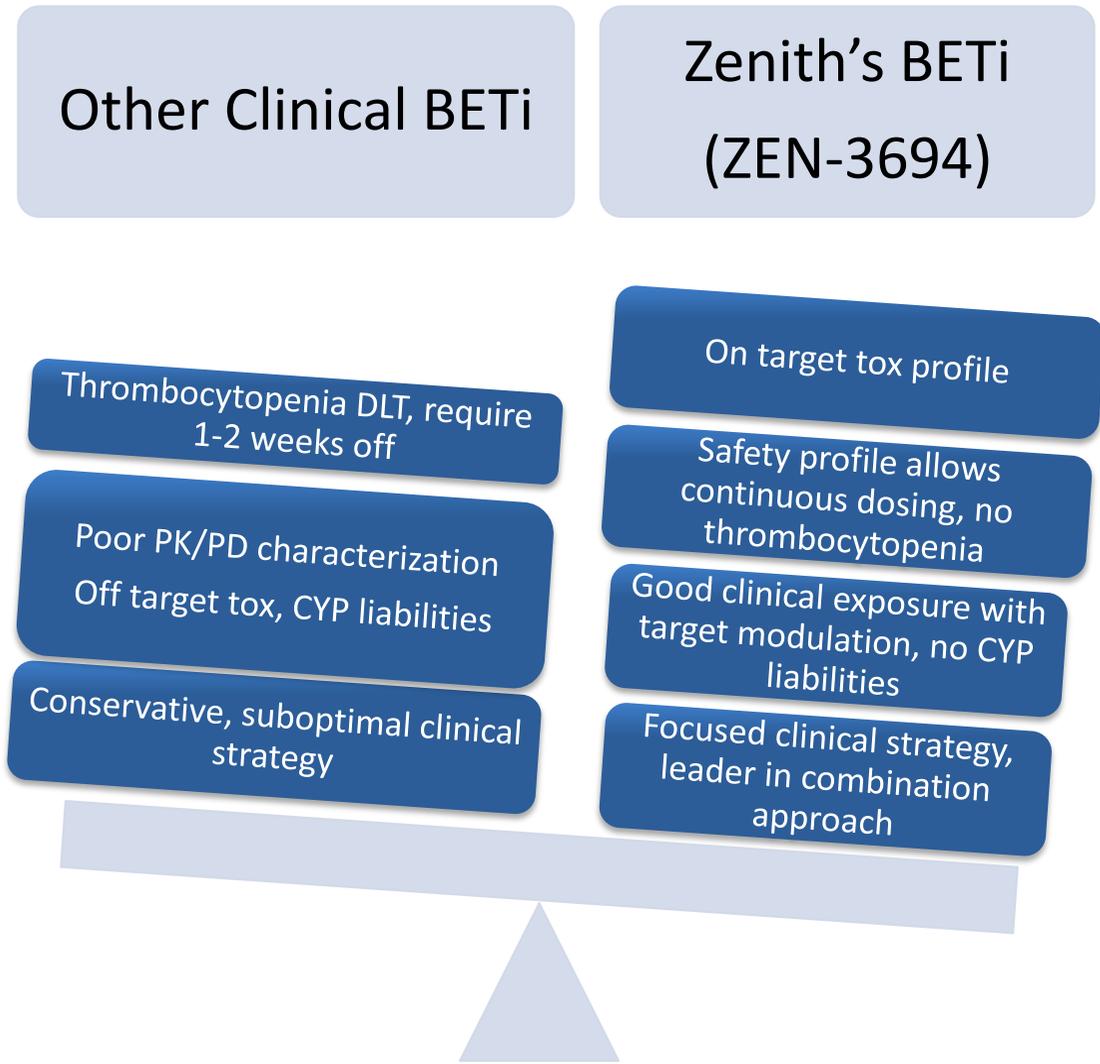


	1.0x mg N=4		1.33x mg N=6		1.66x mg N=3		2.0x mg N=4	
Grade	3	4	3	4	3	4	3	4
Fatigue			1*					
Hypokalemia							1	

Very well tolerated in combination with enzalutamide

* Patient was suffering from fatigue from enzalutamide before entering Zen-3694 trial, Event occurred after cycle 1 so not a DLT

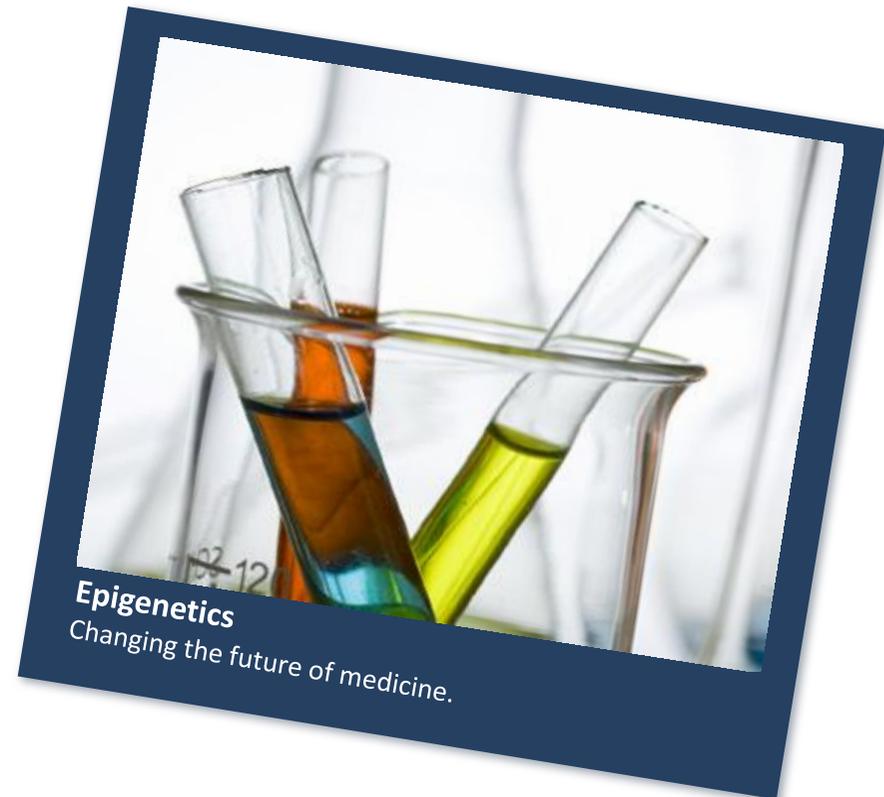
Zenith's BETi program is Clinically Differentiated



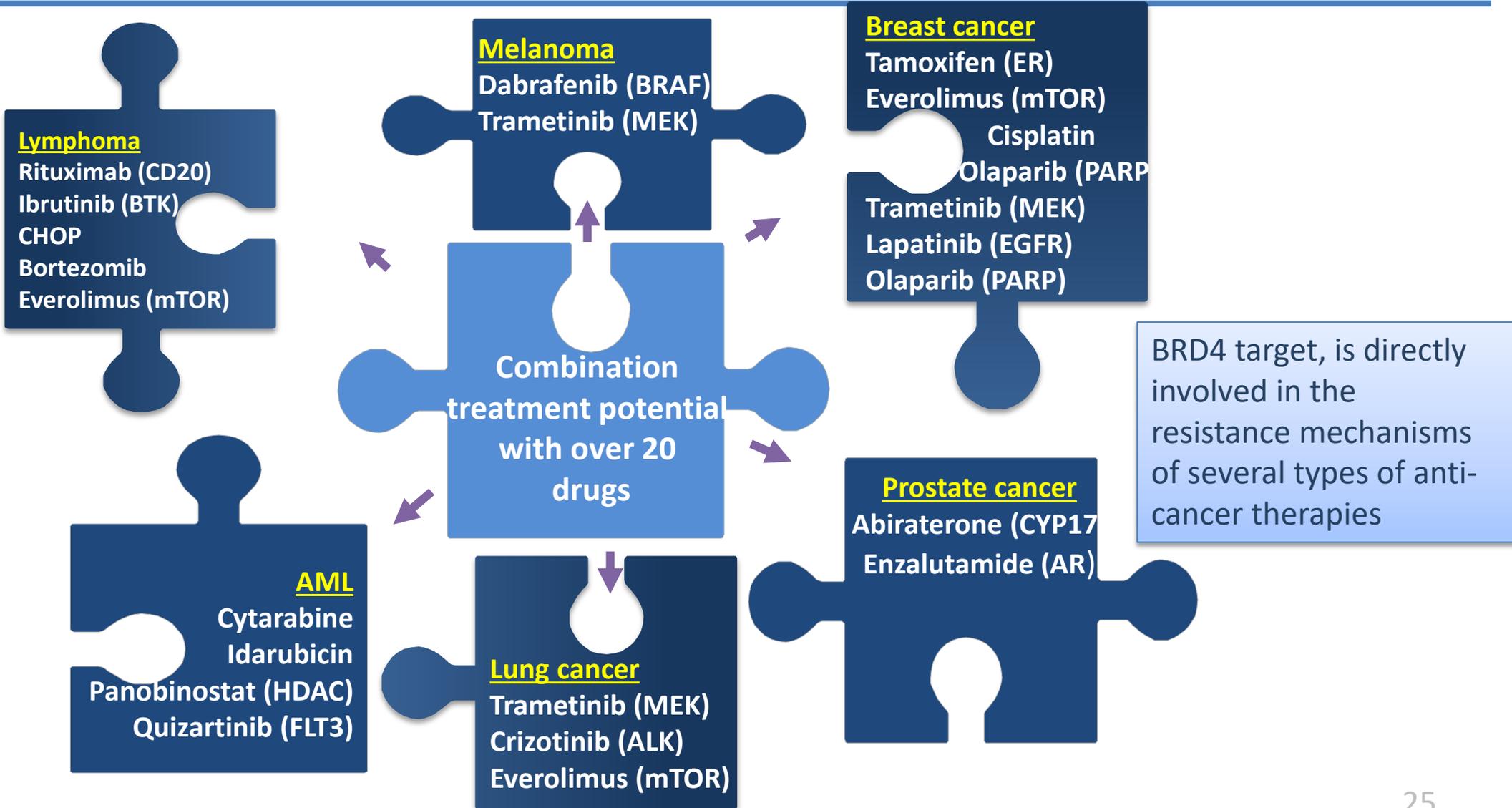
Other companies developing BETi for CRPC
Gilead – Phase 1b/2a (Single agent and combination)
GSK – Phase 1, just initiated (combination)

Next Steps

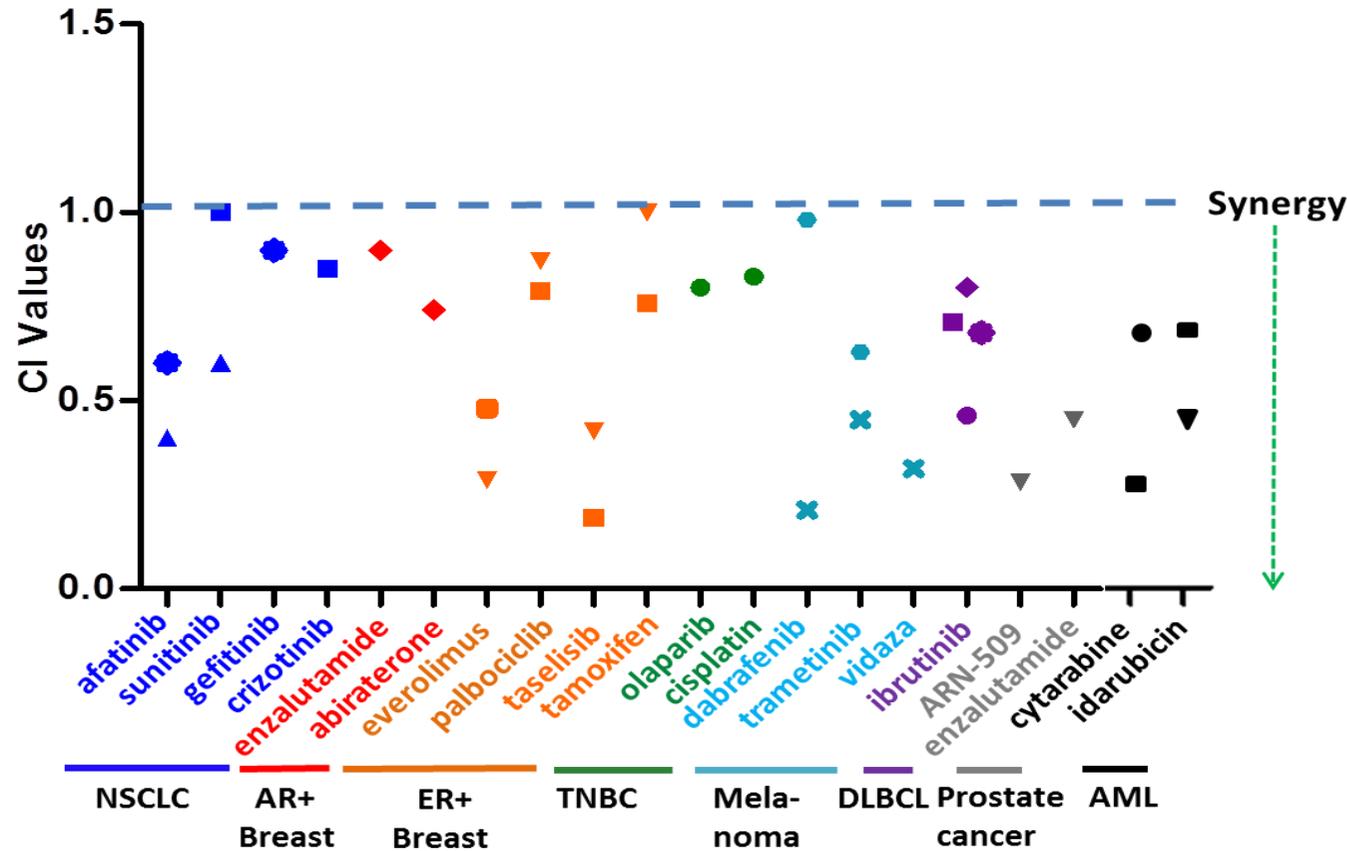
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BET Inhibitors Potential as Combination Agents

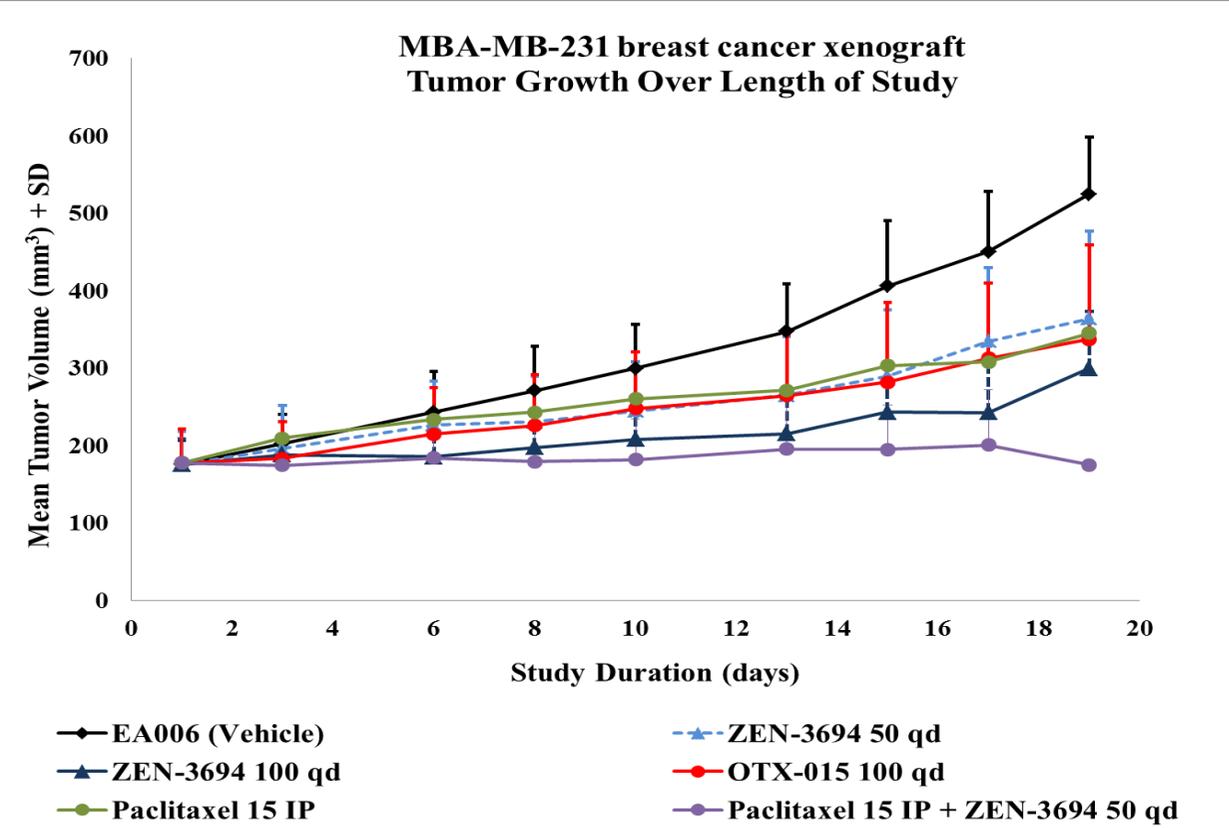


ZEN-3694 Synergizes With Several Standard of Care Cancer Drugs



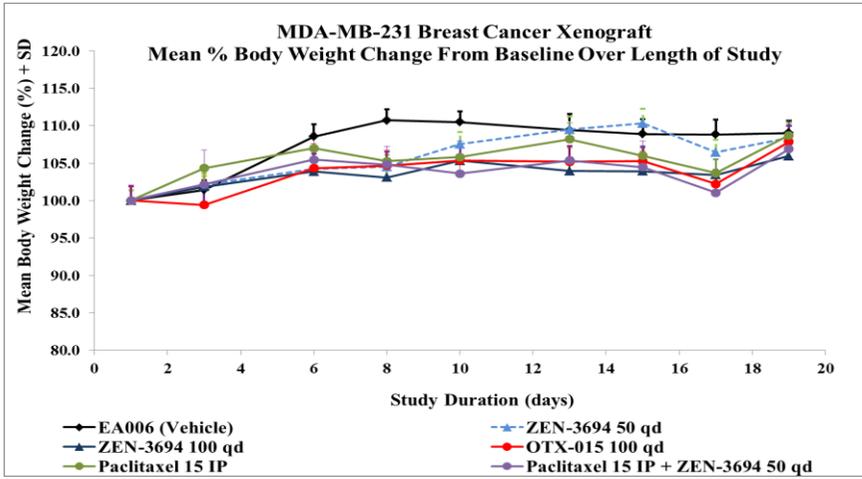
Indication		Cell line (mutation)
NSCLC	▲	H1975 (EGFR L858R T790M)
	◆	H820 (EGFR T790M)
	■	H2228 (ALK)
AR+ Breast	◆	MDA-MB-453
ER+ Breast	■	MCF-7 (ER+)
	▼	ZR-75-1 (ER+)
TNBC	●	HCC1937 (BRCA1)
Melanoma	×	C32 (BRAF V600E)
	●	A375 (BRAF)
DLBCL	◆	CARNAVAL (MYC/BCL2)
	●	OCI-LY18 (MYC/BCL2)
	◆	NU-DUL-1
	■	OCI-LY3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

ZEN-3694 is Synergistic With Paclitaxel in Triple-negative Breast Cancer Models



Treatment Groups	TGI
EA006 (Vehicle)	0%
ZEN-3694 50 mg/kg qd	46%
ZEN-3694 100 mg/kg qd	64%
OTX-015 100 mg/kg qd	54%
Paclitaxel 15 mg/kg IP	52%
Paclitaxel 15 mg/kg IP + ZEN-3694 50 mg/kg qd	101%

- Combination regimen is well tolerated
- ZEN-3694 is more potent than OTX at equivalent dose
- ZEN-3694 is synergistic in combo with Paclitaxel (5/12 regressed tumors)





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