

# zentalis

CORPORATE PRESENTATION

March 2022

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This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such data and estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk. Neither we nor our affiliates, advisors or representatives makes any representation as to the accuracy or completeness of that data or undertake to update such data after the date of this presentation.

Data of fulvestrant, RAD1901, abemaciclib, alpelisib, adayosertib, venetoclax and osimertinib presented in this presentation is based on evaluation of comparable proxy chemical compounds purchased from commercial sources rather than the pharmaceutical company commercializing or developing, as applicable, the compound.

### Lead Program: Wee1i (ZN-c3) potentially first- and best-in-class

- Monotherapy responses in 4 solid tumor types, with 3 Exceptional Responders & an additional 2 confirmed in USC, 1 unconfirmed PR in USC thus far
- Potential accelerated approval paths for USC and biomarker-driven trials
- Fast Track designation granted in USC
- Orphan drug and rare pediatric disease designations granted in osteosarcoma

Oral SERD (ZN-c5): potentially best-in-class profile as monotherapy and in combination, including with ZN-c3

BCL-2 inhibitor (ZN-d5): broad applicability as anti-apoptotic target; potential as monotherapy and in combination, including with ZN-c3

Additional programs targeting fundamental cancer pathways: EGFR inhibitor (ZN-e4) & BCL-xL heterobifunctional degrader

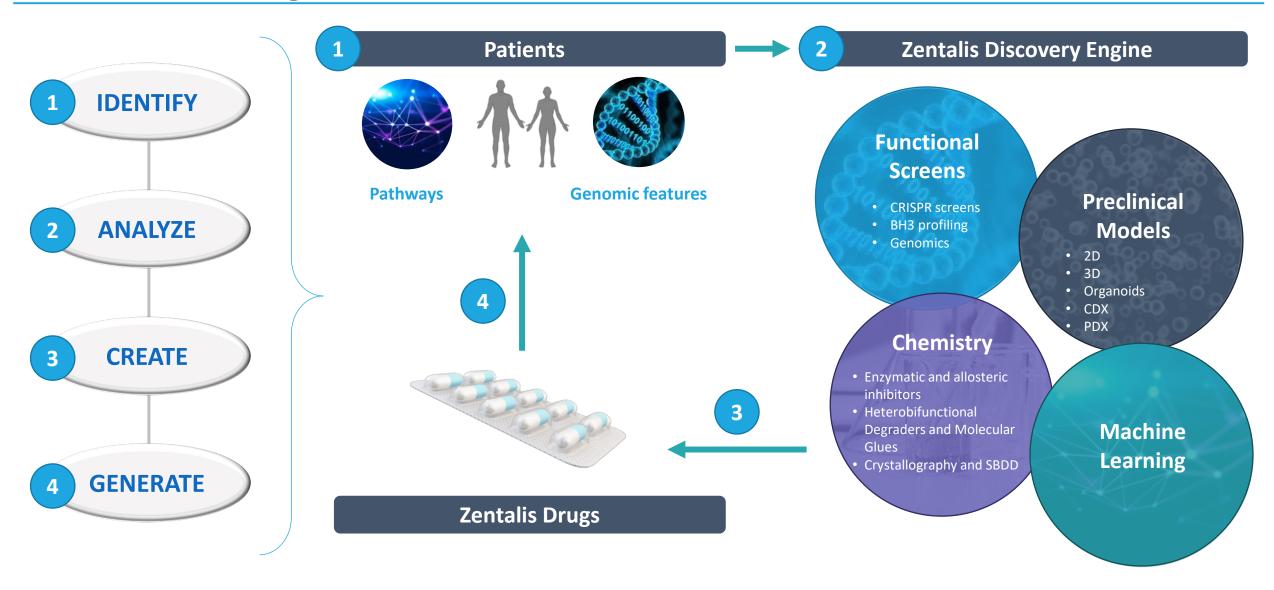
**Investigating internal & third-party combinations, including ZN-d5 + ZN**c3 for liquid tumors and ZN-c5 + ZN-c3 for CDK4/6i-resistant tumors

**Integrated Discovery Engine: 4 FDA-cleared INDs within the** first 5 years

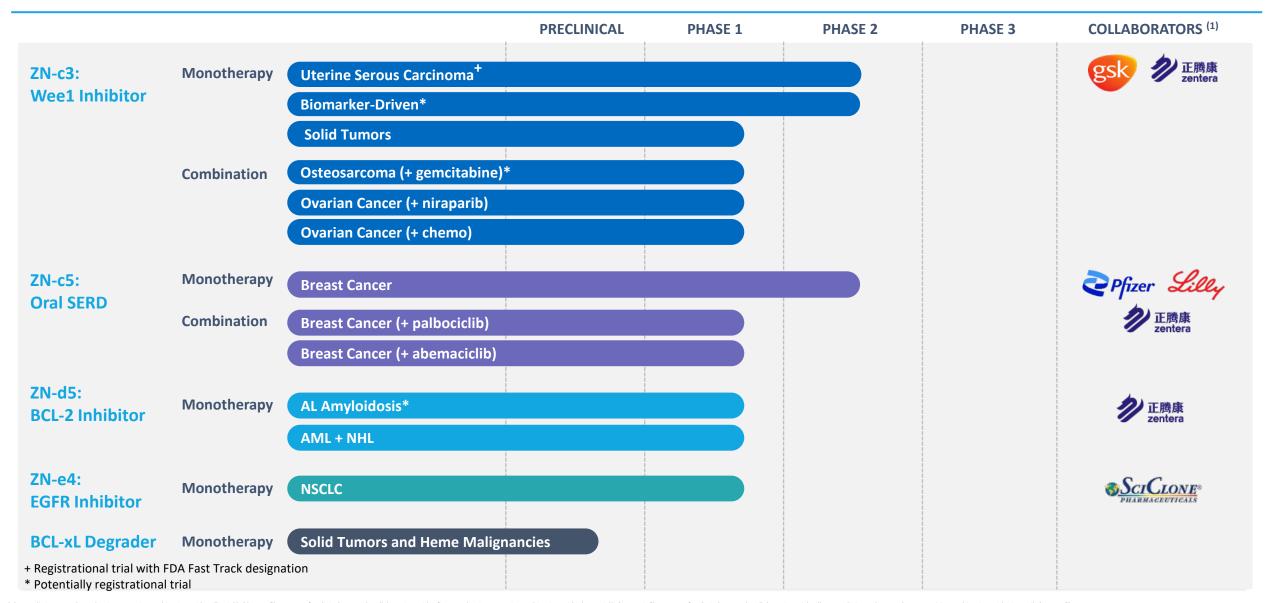


## Company Overview

## Utilizing the Highly Efficient 'Integrated Discovery Engine' to Generate Best-In-Class Drugs



### **Broad Oncology Pipeline Designed to Improve Patient Outcomes**







ZN-c3

## Wee1 Inhibitor



### **ZN-c3: Oral Wee1 Inhibitor for Solid Tumors**



- Highly attractive DNA damage response target
- Active across multiple tumor types with potential for combination
- Opportunity: no approved Wee1 inhibitor; only a few in development e.g., AstraZeneca's adayosertib (AZD1775)



### **ANALYZE:** Adavosertib

- Promising efficacy across tumor types (ovarian and pancreatic cancer)
- Potentially limited by narrow therapeutic window and toxicity profile



**CREATE:** 

### ZN-c3

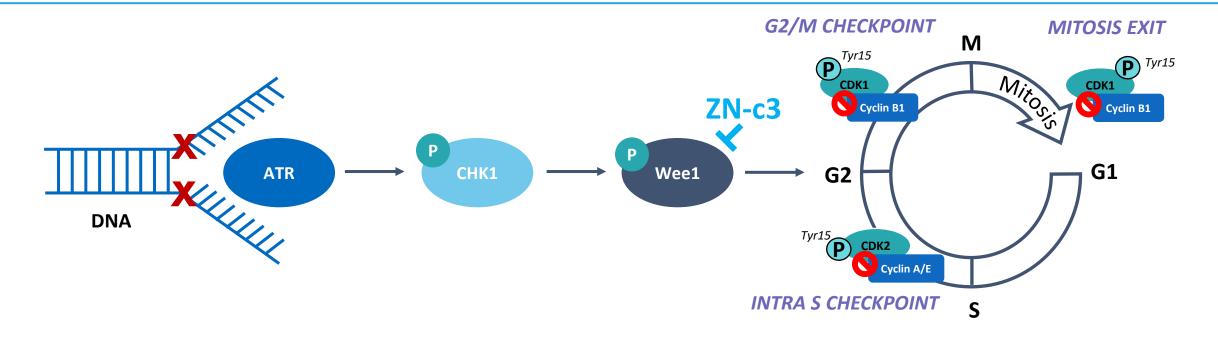
- Designed to have improved:
  - Potency
  - Solubility
  - Selectivity
  - PK properties
- Goal: broader therapeutic window
- Potential to have broad applicability as monotherapy and in combination



### **GENERATE:** Preclinical Evidence

- 117x higher tumor concentration compared to adavosertib
- Greater selectivity for Wee1 compared to adavosertib
- Induced prolonged tumor growth delay in human NSCLC tumor xenograft model

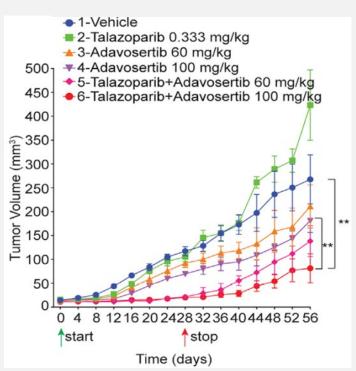
### Wee1 Inhibition: Clinically Proven DDR Target for Cancer



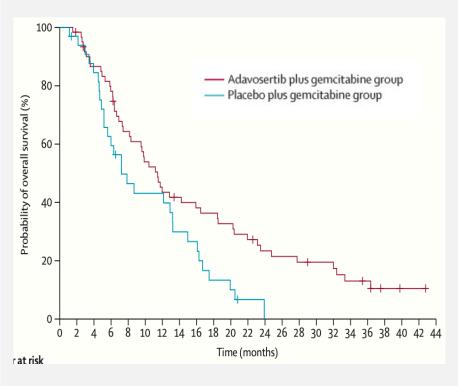
- Wee1 is a protein kinase expressed at high levels in many cancer types that prevents entry into mitosis in response to DNA damage by regulating the G2 checkpoint
- Wee1 inhibition causes cancer cells to proceed to mitosis without repairing DNA damage, resulting in premature mitotic entry and apoptosis
- Wee1 inhibition also causes aberrant origin firing (1), depletion of dNTP pools (2), and activation of cGAS/STING pathway (3-5)
- ZN-c3 has demonstrated significant growth inhibition and induced apoptosis in vitro and anti-tumor activity in vivo

### Wee1 Inhibitors: Strong Preclinical Activity and Clinical Responses

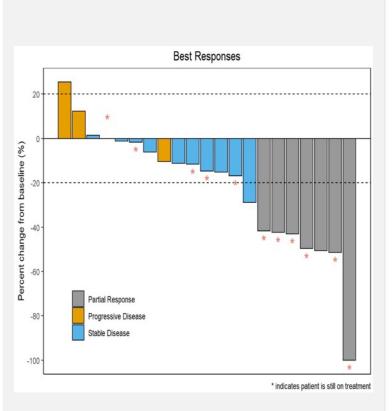
Combination of Wee1 and PARP **Inhibitors Showed Improved Anti-Tumor Activity Compared to the Use** of Each as Monotherapy (1)



Phase II Study of Wee1 Inhibitor Plus **Gemcitabine for Platinum-Refractory Recurrent Ovarian Cancer: Double-Blind,** Randomized, Placebo-Controlled (2)



### Phase II Trial of Wee1 Inhibitor in **Recurrent Uterine Serous** Carcinoma (USC) (3,4)



<sup>(1)</sup> Fang, Y. Cancer Cell (2019). A total of 2 x 106 OVCAR8 ovarian cancer cells were injected subcutaneously (s.c.) and grown for 2 weeks in nude mice. Mice were randomized with six in each group and treated as indicated. Average tumor volume ± SEM are displayed. p value: one-way ANOVA. \*\*p < 0.01

<sup>(2)</sup> Lheureux S., Lancet (2021). Addition of a WEE1 to Gemcitabine shows a statistically significant improvement in mOS over Gemcitabine with placebo (HR=0.56, P=0.017)

Liu, J.F. Adavosertib SGO Presentation (2020)

<sup>(4)</sup> An aggressive subtype of endometrial carcinoma characterized by frequent TP53 mutations (>90%)

### **ZN-c3: Excellent Potency, PK and Preclinical Activity**

#### **ZN-c3** Anti-Proliferative Activity in a Panel of Cell Lines

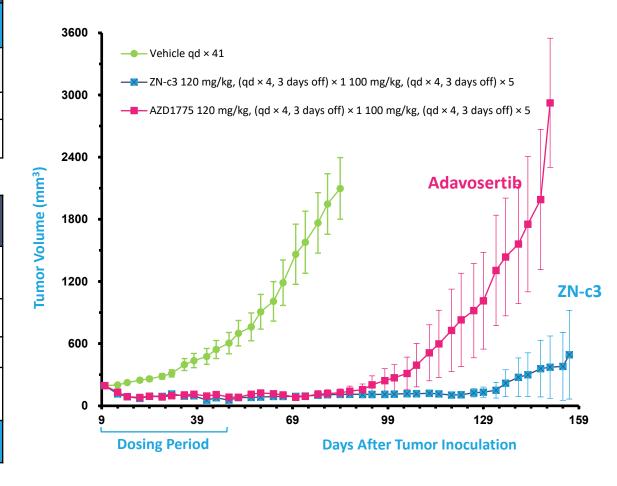
	CTG IC <sub>50</sub> (nM)									
Compound ID	NSCLC		SCLC		TNBC		Ovarian cancer cells			
	NCI- H23	A-427	DMS- 53	NCI- H1048	MDA- MB-231	HCC 1806	OVCAR 3	UWB 1.289		
ZN-c3	124	88	118	92	190	95	69	54		
Adavosertib <sup>(1)</sup>	108	94	130	97	233	94	124	57		

#### **Improved Tumor Concentration in Preclinical Models**

Study (A-427 NSCLC)	ZN-c3			Adavosertib <sup>(1)</sup>		
Dose (mg/kg/day)	20	40	80	20	40	80
C <sub>max</sub> (ng/mL)	1,167	1,997	5,100	635	2,460	4,703
T <sub>max</sub> (hr)	1	1	1	1	1	1
AUC <sub>0-24hr</sub> (ng·hr/mL)	4,863	17,088	39,722	1,494	6,313	13,408
Tumor Conc. (ng/mL) at 24 h	10.5	48.0	811	BQL <sup>(2)</sup>	BQL	6.95

#### **ZN-c3 Induced Prolonged Tumor Growth Delay**

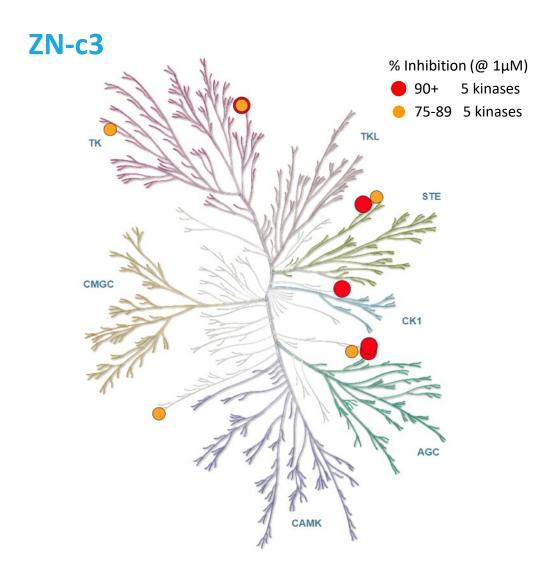
A427 Human NSCLC Tumor Xenograft Model

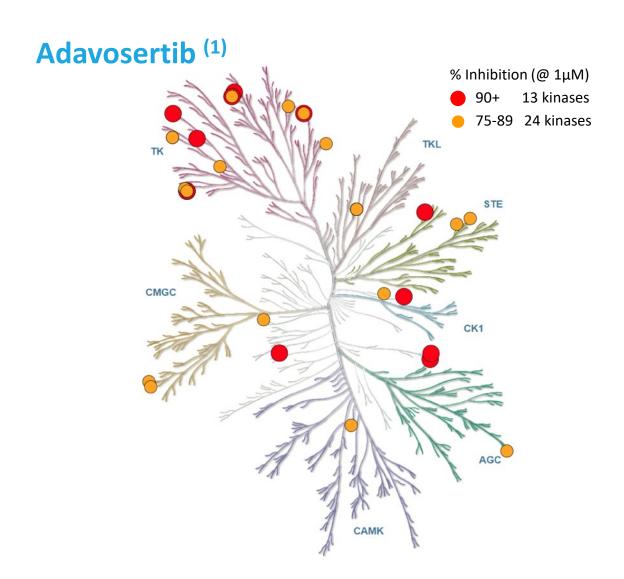


<sup>1)</sup> Adavosertib data based on evaluation of comparable proxy chemical compound purchased from commercial sources rather than obtained from the pharmaceutical company developing the compound.

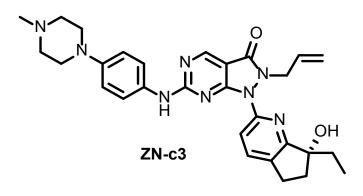
<sup>(2)</sup> BQL: Below Quantifiable Level

### **ZN-c3:** Differentiated Selectivity Profile

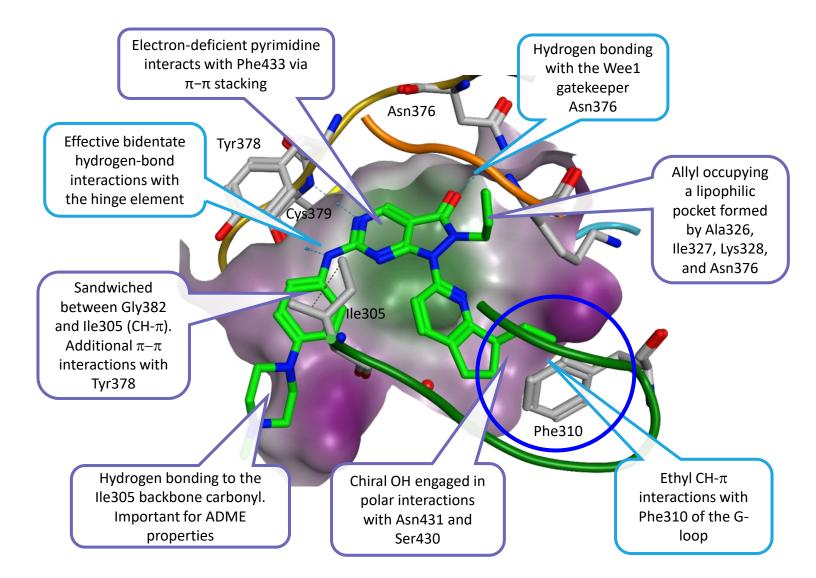




### Structure-Based Drug Design (SBDD) Led to the Discovery of a Highly Potent and Selective Wee1 Inhibitor ZN-c3 with Improved ADME Properties<sup>(1)</sup>



ZN-c3 potency and ADME					
Wee1 IC <sub>50</sub>	3.8 nM				
H23 IC <sub>50</sub>	103 nM				
A427 IC <sub>50</sub>	75 nM				
Log D	2.4				
<i>h</i> PPB	66%				
<i>h</i> Hep	<18 mL/min/kg				
solubility	> 2000 μM				
CYP3A4	7 μΜ				
hERG	> 30 μM				



### **ZN-c3: Clinical Development Plan**

#### **Ongoing and Planned Clinical Programs**

#### Phase 1

#### **Solid Tumors Monotherapy**

Dose Escalation and Expansion Initial data presented at AACR 2021

#### **Ovarian Cancer Combination**

Ph 1b Study (+ chemo) *Initiated* 

#### **ER+/HER2- Breast Cancer Combination**

Ph 1b Study (ZN-c5 + ZN-c3)*Initiation Expected in 2H 2022* 

### Phase 1/2

**★** Osteosarcoma Combination

Ph 1/2 Study (+ gemcitabine) **Initiated** 

#### **Ovarian Cancer Combination**

Ph 1/2 Study (+ niraparib) Initiated

#### **AML Combination**

Ph 1/2 (ZN-d5 + ZN-c3) Expected Initiation of Phase 1 Portion in 1H 2022

#### Phase 2

- **★** Uterine Serous Carcinoma Monotherapy Ph 2 Study *Initiated*
- **★** Predictive Biomarker Monotherapy Ph 2 Study Initiated

#### **Overview**

- **Updated interim Phase 1** monotherapy dose escalation and expansion data (1)
  - Generated new, deepening and durable tumor responses
  - ZN-c3 was well-tolerated: improved hematological tolerability
- FDA Fast Track designation for USC
- **Key FDA designations for** osteosarcoma for combo with chemo:
  - Orphan drug designation
  - Rare pediatric disease designation
- **Planned investigator-initiated trials:** 
  - A trial with the Ivy Brain Center in glioblastoma multiforme
  - A trial with immunotherapy with Dana Farber in TNBC

(1) As of May 15, 2021

### **ZN-c3: Exceptional Responders with Single Agent Treatment**

### Who is an Exceptional Responder?

**Exceptional Responses** are generally observed randomly and the underlying driver of response is often unknown



Exceptional Responses **observed in 3 non-USC patients** who had up to 19 prior lines of treatment and no recent responses

RP2D: 300 mg QD with continuous dosing

#### **Interim Results from Phase 1 Dose Escalation Trial**

### **Overview of Confirmed Exceptional Responders** (2)

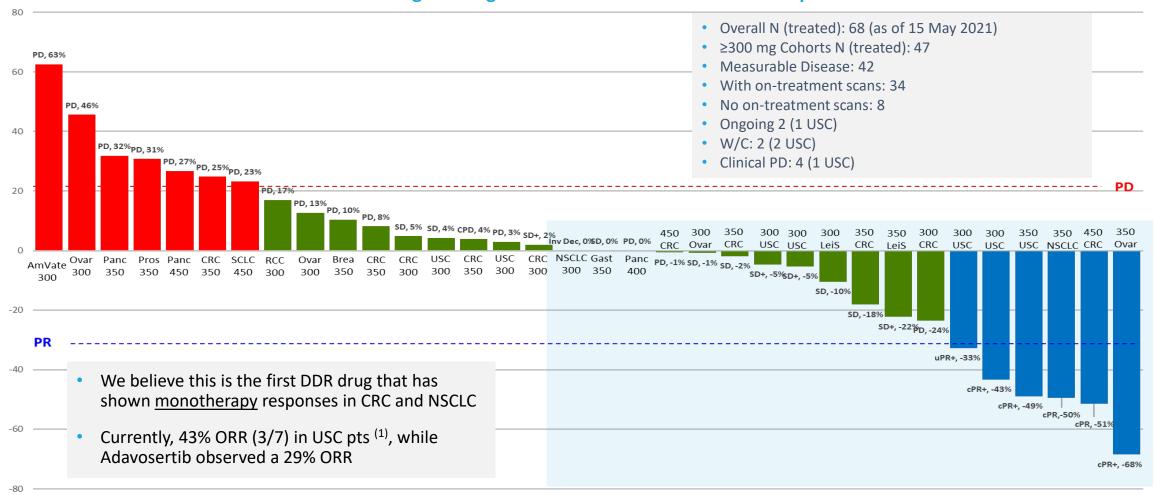
Patient	Prior lines of therapy	Tumor reduction (%)	Duration on study
CRC, Stage IV	5	51%	169 days
Ovarian cancer, Stage IV	19	68%	221 days and remains on study
NSCLC, Stage IV	5	50%	154 days

#### Overview of PRs in USC (2)

Patient	Prior lines of therapy	Tumor reduction (%)	Duration on study
USC, Stage IV (confirmed PR)	2	49%	158 days and remains on study
USC, Stage IV (confirmed PR)	4	43%	123 days and remains on study
USC, Stage IV (unconfirmed PR)	2	33%	31 days and remains on study

### **ZN-c3:** Displayed Multiple PRs Across Tumor Types

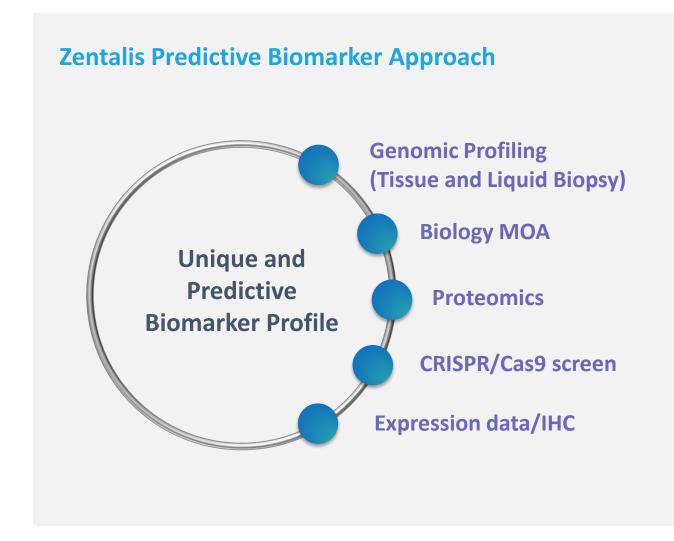
#### ZN-c3 Dose Escalation and Expansion Study – 300 mg QD and Above Dose Cohorts **Best % Change in Target Lesion Size and Best Overall Response**



### **Ovarian Cancer Exceptional Responder Clinical Update**

Follow-Up 2 Follow-Up 4 Baseline Follow-Up 1 Follow-Up 3 (09/22/2020) (11/24/2020) (12/28/2020) (03/01/2021) (05/17/2021) **Target Lesions** T01 Pleura Pleura LA: 32.9 mm Disappeared Disappeared Disappeared Disappeared Size SA: 16,6 mm **T02** Peritoneum Pleritoneum LA: 65.7 mm LA: 36,3 mm LA: 33.2 mm (-8.5% ΔP) LA: 29,7 mm LA: 27.4 mm (-7.7% ΔP) Size SA: 51,1 mm (-44.7% AP) SA: 27,2 mm (-10.5% AP) SA: 18,9 mm SA: 34.0 mm SA: 27,6 mm (+1,5% AP) (-20,0% AP) (-31.5% AP) (-33,5% AP)

### **Exceptional Responders Exhibit Unique Biological Features**



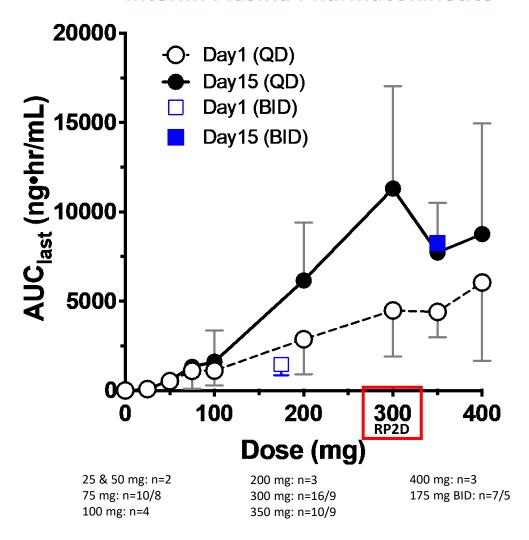
### **Confirming Biomarker Profile**

- Observed multiple Exceptional Responses with single agent ZN-c3 (1)
- Activity in tumor types (e.g., CRC) not previously seen by other Wee1i
- Approach to confirm unique, novel and predictive profile
- Clear path for the development of companion diagnostic

Phase 2 predictive biomarker-enabled trial ongoing

### **ZN-c3: RP2D Shows Highest AUC Across Doses**

#### **Interim Plasma Pharmacokinetics**



### ZN-c3 shows ~30% more exposure than Adavosertib at 300 mg dose (RP2D) (1)

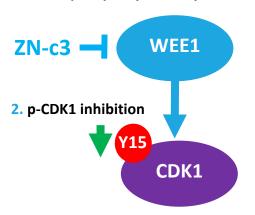
- Greater than dose proportional exposure up to 450 mg (not plotted)
- 1.87 to 2.50-fold accumulation at 200-350 mg dose
- No additional increase of exposure occurs beyond Day 15 (up to Cycle 6)
- 300 mg QD exhibited the highest mean AUC between 25-400 mg
- 300 mg QD was well-tolerated without dose reductions in majority of patients

### Decreases in p-CDK1 Show Target Engagement for Wee1 Inhibition

### **Confirmation of WEE1 Target Engagement in Surrogate Tissue**

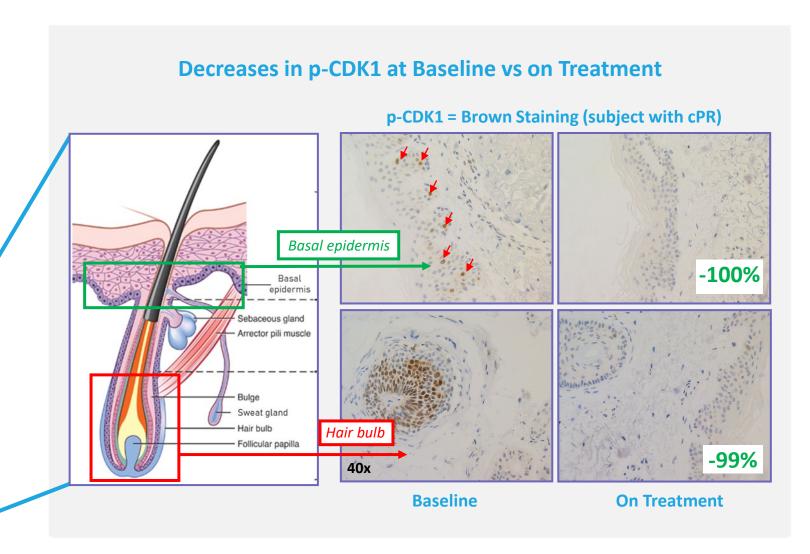
- CDK1 phosphorylation (p-CDK1) is mediated by Wee1
- Inhibition of Wee1 will lead to inhibition of p-CDK1
- Skin biopsies were performed at baseline and on treatment to verify p-CDK1 levels and level of target engagement of Wee1

1. CDK1 phosphorylation by Wee1



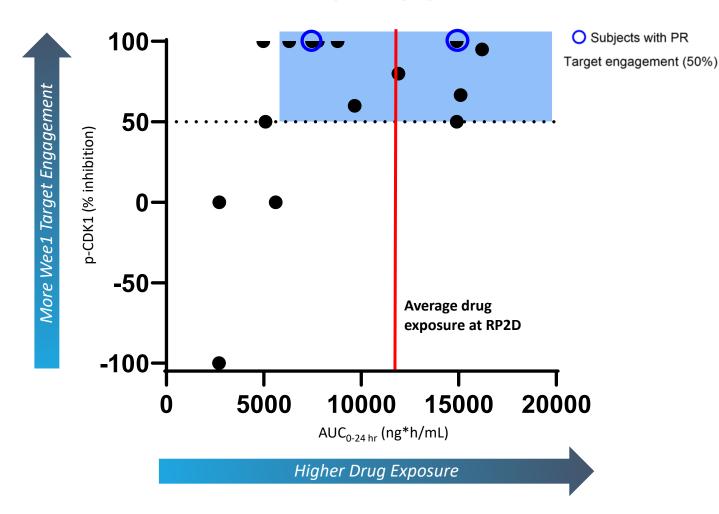
3. Skin Biopsy





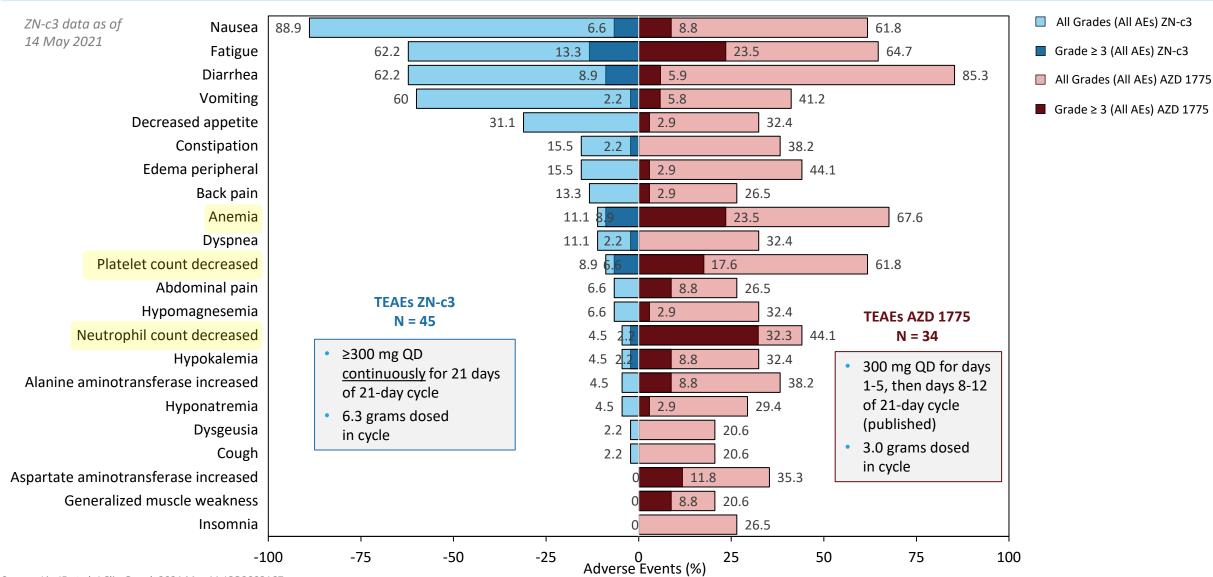
### ZN-c3: PK/PD Correlation Shows Active Target Engagement at RP2D

#### **WEE1 Target Engagement**



- Inhibition of p-CDK1 demonstrated Wee1 target engagement
- Increase in dose / drug exposure directly related to Wee1 target engagement
- RP2D showed highest AUC, with excellent target engagement and p-CDK1 levels decreased at least by 50%

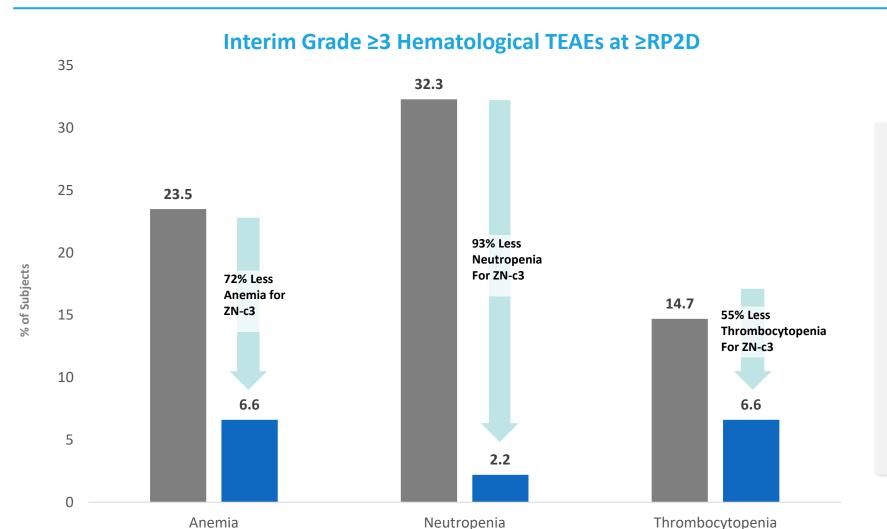
### ZN-c3: Well Tolerated in Comparison to Adavosertib (1)



Source: Liu JF et al. J Clin Oncol. 2021 Mar 11:JCO2003167

<sup>(1)</sup> Non-head-to-head comparison. Results of a head-to-head comparison may differ significantly from those set forth herein. In addition, because our Phase 1 clinical trial for ZN-c3 and the Adavosertib clinical trials were separate trials, differences between the results of the trials may not be statistically or clinically meaningful

### ZN-c3: Meaningfully Reduced Hematological Toxicities (1)



- Significantly lower overall severe hematological AE rate vs Adayosertib
- Despite continuous dosing and delivering 2x the drug load, ZNc3 induces markedly less hematological toxicity
- Better tolerability unlocks the promise for wide ranging drug combinations with increased efficacy and commercial potential

Anemia

■ Adavosertib 300mg Intermittent

■ ZN-c3 300mg QD Continuous

### **ZN-c3** Uterine Serous Carcinoma Indication Overview

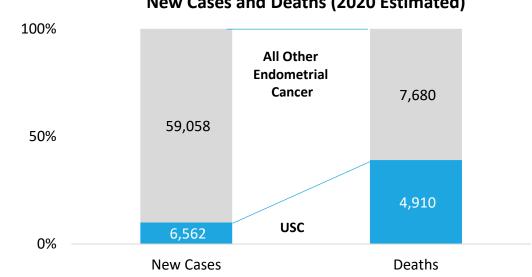
### **Overview of Uterine Serous Carcinoma (USC)**

- Type II endometrial cancer
- Not hormonally mediated
- Approximately 70% of USC present with Stage III or IV disease at diagnosis
- Poor survival rates; only 30-50%, even if confined to uterus
- Recurrence rates are 29-80% post-surgery
- ~6k new cases and ~4.5k deaths in U.S. per year
- Current standard of care: comprehensive surgery, adjuvant chemotherapy and adjuvant vaginal cuff brachytherapy

### **USC Represents High Unmet Medical Need**

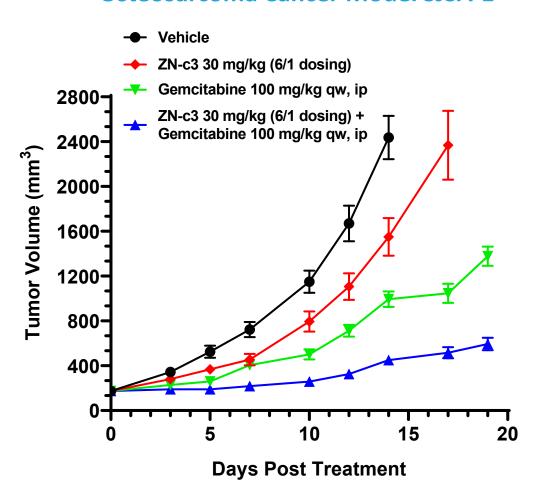
Comprises 10% of Endometrial Cancers with Highest Mortality





## ZN-c3 in Combination with Gemcitabine Shows Strong Activity in an Osteosarcoma Cancer Model

#### **Osteosarcoma Cancer Model SJSA-1**



#### **Clinical Unmet Need in Osteosarcoma**

- Approximately 1,000 new cases in the U.S.<sup>(1)</sup>
- Up to 90% have sequence mutations or structural variants in TP53 and are often enriched in relapsed or refractory cases, portending resistance to chemotherapy<sup>(2)</sup>
- No significant advances over the last 10 plus years<sup>(3)</sup>
- Overall survival rate for patients with metastatic or recurrent disease is <20%<sup>(4)</sup>

Phase 1/2 Initiated in 3Q 2021

<sup>(1)</sup> American Cancer Society. Last accessed on April 7<sup>th</sup>, 2020

<sup>(2)</sup> Tang et al. J Orthop Res. 2019;37(3):789–98

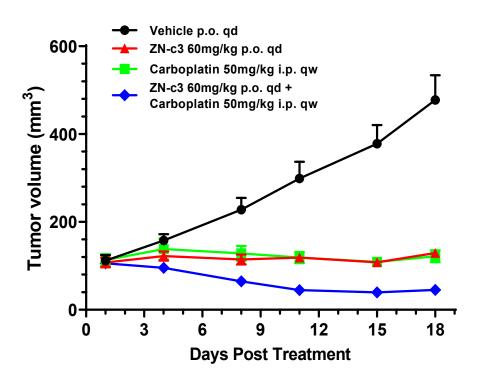
<sup>(3)</sup> Misaghi A et al. Sicot-j. 2018;4:12

<sup>(4)</sup> Harrison DJ et al. Expert Rev Anticanc. 2018;18:1, 39-50

### ZN-c3 in Combination Demonstrates Synergistic Activity in Ovarian **Cancer Models**

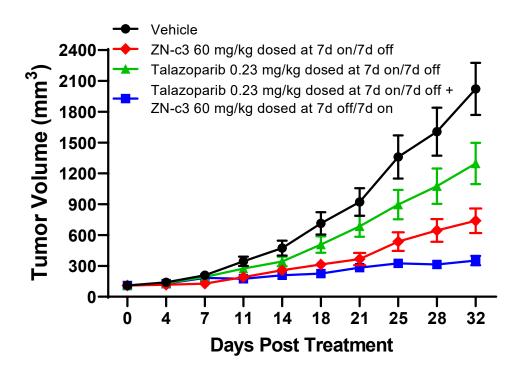
ZN-c3 in combination with carboplatin shows better activity than single agent alone in an ovarian preclinical model

#### **Ovarian Cancer Model TOV21G**

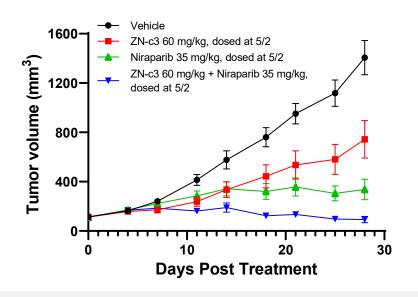


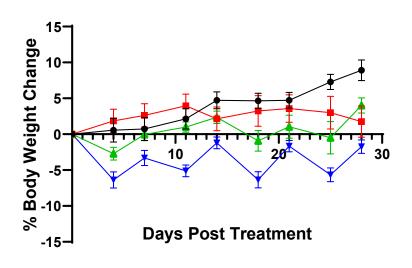
Combination of Wee1 and PARP inhibition has been shown significantly inhibit tumor growth in preclinical models(1)

#### **OVCAR3 Tumor Model (sequential dosing)**



### **ZN-c3 + PARP Inhibitor Combination Induces Regressions and is** Well Tolerated in a TNBC PDX Tumor Model





- Tumors with Cyclin E amplification have enhanced sensitivity to Wee1 inhibition (1)
- Combination of PARP and Wee1 inhibitors in TNBC:
  - Results in synergistic cell killing in preclinical models with either BRCA1 mutations or high levels of cyclin E (2)
  - Has shown to induce replication stress, DNA damage and abrogation of the G2 DNA damage check point leading to significant tumor growth inhibition in pre-clinical models (3)
- Wee1 inhibition may broaden the application range of PARP inhibitors in TNBC

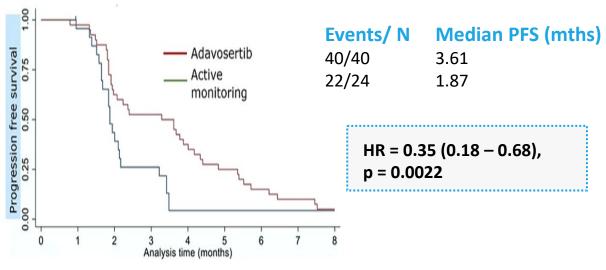
Chen X et al Clin Cancer Res. 2018 Dec 15;24(24):6594-6610

Chen X Cancers (Basel). 2021 Apr 1;13(7):1656

<sup>(3)</sup> Fan, Y et al. Cancer Cell. 2019 Jun 10;35(6):851-867

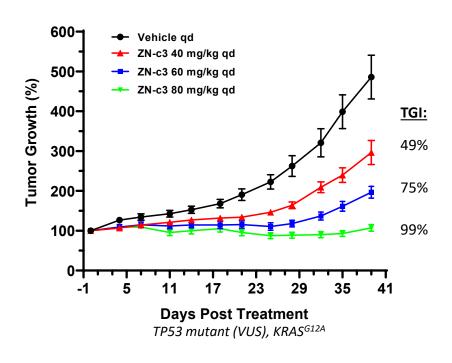
## Wee1 Inhibition Has Shown a Progression-Free Survival Benefit in Patients with Colorectal Cancer

### Primary Analysis: Progression Free Survival from Point of Randomization into FOCUS 4-C<sup>(1)</sup>



Treatment Arm	Numbers at risk (failures)								
	0	1	2	3	4	5	6	7	8
AM	24 (1)	22 (12)	10 (4)	6 (5)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)
Adavosertib	40 (1)	39 (14)	25 (4)	21 (6)	15 (5)	10 (4)	6 (2)	4 (2)	2 (0)

### ZN-c3 is Active in a KRAS/TP53 Mutant Preclinical Colorectal Cancer Model



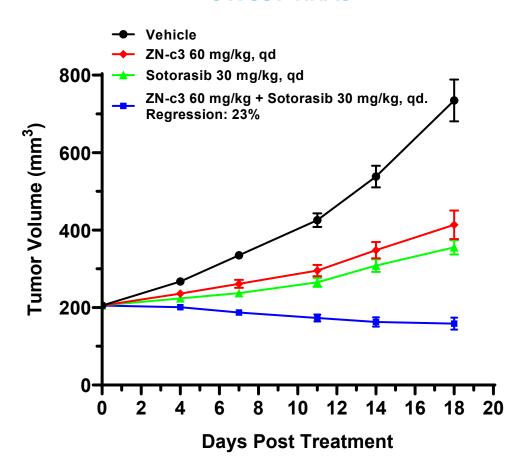
Multiple opportunities for combining ZN-c3 with different agents: 5-FU, irinotecan, anti-PD-1 and others





## ZN-c3 in Combination with Sotorasib<sup>(1)</sup> Induces Regressions in a KRAS/TP53 Mutant Preclinical Colorectal Cancer Model

#### SW837 KRAS<sup>G12C</sup>



- Wee1 inhibition has been shown to improved PFS compared with active monitoring in patients with KRAS/TP53 mutated CRC (FOCUS4C trial)<sup>(2)</sup>
- These data support combining ZN-c3 with KRAS<sup>G12C</sup> inhibitors in this population

<sup>(1)</sup> Sotorasib (AMG510, KRAS G12C inhibitor)

### **ZN-c3:** Cornerstone of Multiple Treatments in Many Indications

- Potentially registrational trials underway
- Superior selectivity and tolerability profile supports combination therapies across multiple indications
- Efficacy observed in hematologic tumors in addition to solid tumors

ZN-c3 Developm	nent Program
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Indication	Treatment	Status	Addressable Patient Population <sup>(1)</sup>
USC*	ZN-c3 monotherapy	Enrolling	~12,000 <sup>(2)</sup>
Solid Tumors	ZN-c3 monotherapy	Enrolling	N/A
Ovarian	ZN-c3 and chemotherapy	Enrolling	~14,000 <sup>(3)</sup>
Osteosarcoma*	ZN-c3 and gemcitabine	Enrolling	~1,000 <sup>(4)</sup> (US incidence)
Predictive Biomarker*	ZN-c3 monotherapy	Initiated Dec 2021	~55,000 <sup>(5)</sup>
Ovarian	ZN-c3 and niraparib (PARPi)	Initiated Dec 2021	~18,000 <sup>(6)</sup>
Breast (ER+/HER2-)	ZN-c5 (SERD) and ZN-c3	Initiate 2022	>1,500,000 <sup>(7)</sup> (total); ~450,000 (CDK4/6i r/r) <sup>(8)</sup>
Breast (HER2+)	ZN-c3 and trastuzumab	-	~400,000 <sup>(9)</sup> (total); ~60,000 (trastuzumab resistant) <sup>(10)</sup>
Colorectal	ZN-c3 monotherapy	-	>2,000,000 <sup>(11)</sup> (total); ~500,000 (TP53/KRAS mutant) <sup>(12)</sup>
AML	ZN-d5 (BCL-2i) and ZN-c3	Initiate 1H 2022	~68,000 <sup>(13)</sup> (US prevalence)

#### \* Potentially registrational trial

- (1) North America, Western Europe, and Japan prevalence unless otherwise stated.
- (2) Gynecologic Oncology 115 (2009) 142-153, David Boruta et al.; National Cancer Institute, SEER 2020 Data.
- (3) Informa Pharma Intelligence. Ovarian Cancer November 2020; Platinum resistant/refractory.
- (4) Cancer.org; SEER database.
- (5) Observed predictive biomarker frequency data across solid tumor types; biomarker not disclosed.
- (6) Informa Pharma Intelligence. Ovarian Cancer November 2020; estimated PARP treated patients.

- (7) Informa Pharma Intelligence. ER+/HER2- BC December 2020; All stages.
- (8) Li et al. Mechanisms of CDK4/6 Inhibitor Resistance in Luminal Breast Cancer. Front Pharmacol (2020).
- (9) Informa Pharma Intelligence. HER2+ BC March 2021; All stages.
- (10) Olson & Mullins. When Standard Therapy Fails in Breast Cancer: Current and Future Options for HER2-Positive Disease. J Clin Trials (2013).
- (11) Globocan 2020 https://gco.iarc.fr/today/data/factsheets/cancers/10\_8\_9 Colorectum fact sheet.pdf
- (12) American Cancer Society Facts & Figures 2020; Based on flowchart of patients from Seligmann JF et al. J Clin Oncol. 2021. US population.
- (13) Cancer.org; SEER database (2018).



Oral SERD



### ZN-c5: Oral SERD Candidate for ER+/HER2- Breast Cancer



- Clinically validated approach
- Potential use as backbone therapy
- Fulvestrant: only FDAapproved SERD
- Opportunity to combine with ZN-c3 in CDK4/6 inhibitor-resistant population

2

**ANALYZE:** Fulvestrant

- Fulvestrant limitations:
  - 2 painful monthly intramuscular injections (insoluble)
  - Capped efficacy at approved dose
  - Low convenience and high resource utilization



**CREATE:** ZN-c5

- Designed to have:
  - High potency and selectivity
  - Improved solubility
  - Compelling PK (long half life)
  - Favorable safety and tolerability
  - No agonist activity
- Goal: safely establish increased drug exposure to enhance efficacy



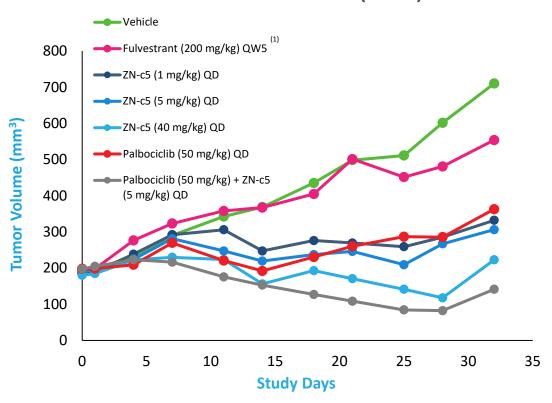
**GENERATE:** Preclinical Evidence

- Dose proportional responses and meaningful tumor shrinkage in combination with CDK4/6 inhibitor
- Anti-tumor activity in ESR1 mutant models as monotherapy and in combination with CDK4/6 inhibitors
- No agonist activity in uterus
- Bone protective activity in mouse model of osteoporosis

### **ZN-c5: Demonstrated Strong Preclinical Anti-Tumor Activity**

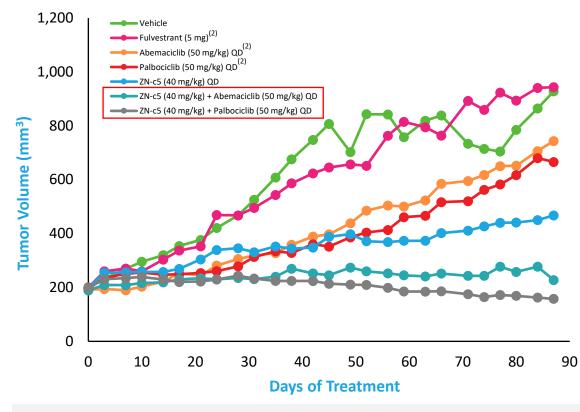
### **Exhibited Dose Proportional Response and Meaningful Tumor Shrinkage**

#### **Breast Cancer Model (MCF7)**



### Robust Anti-Tumor Activity in ESR1 Models as Monotherapy and in Combination

#### **ESR1 Mutant Breast Cancer Model (WHIM20)**



ESR1 mutations commonly drive resistance – prevalence ranges from <u>11% to 39%</u>

<sup>(1)</sup> Fulvestrant based on evaluation of comparable proxy chemical compounds purchased from commercial sources rather than the pharmaceutical companies commercializing the compound.

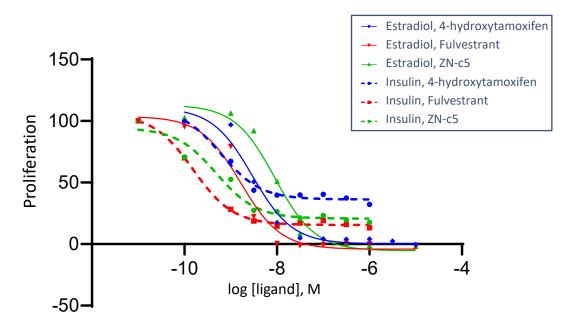
<sup>(2)</sup> Data based on evaluation of comparable proxy chemical compounds purchased from commercial sources rather than the pharmaceutical companies commercializing the compound.

### ZN-c5: An ER Antagonist with No Agonist Activity

- Two Activation Function domains (AF-1 and AF-2) are involved in ER transcriptional activity
- ZN-c5 is an estrogen receptor antagonist, blocking both AF-1 and AF-2 activity

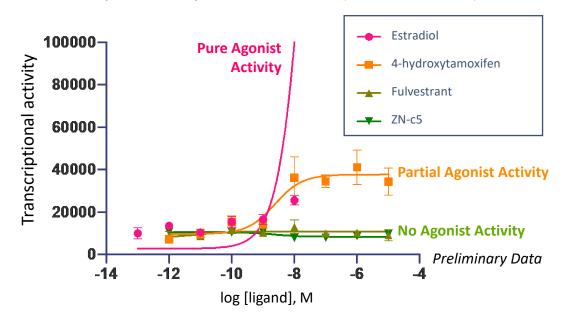
#### ZN-c5 Inhibits AF-1- and AF-2-Mediated Proliferation

MCF-7 cells treated with Insulin (AF-1 activation) or Estradiol (AF-2 activation) (1)



#### **ZN-c5** has No ER Agonist Activity

Transcriptional activity of ERa AF1 construct (Nonfunctional AF-2) (1)



### **ZN-c5: Clinical Development Plan**

### **Ongoing and Planned Clinical Programs**

#### Phase 1/2

#### **Monotherapy**

Dose Escalation/Expansion Ph 1/2 Study Initiated Ph 2

### Combination Pfizer

Ph 1/2 Study (2) (+ palbociclib) **Enrolling** 

#### Phase 1b

### Combination Lilly

Dose Escalation Ph 1b Study (+ abemaciclib) Initiated

#### **Combination**

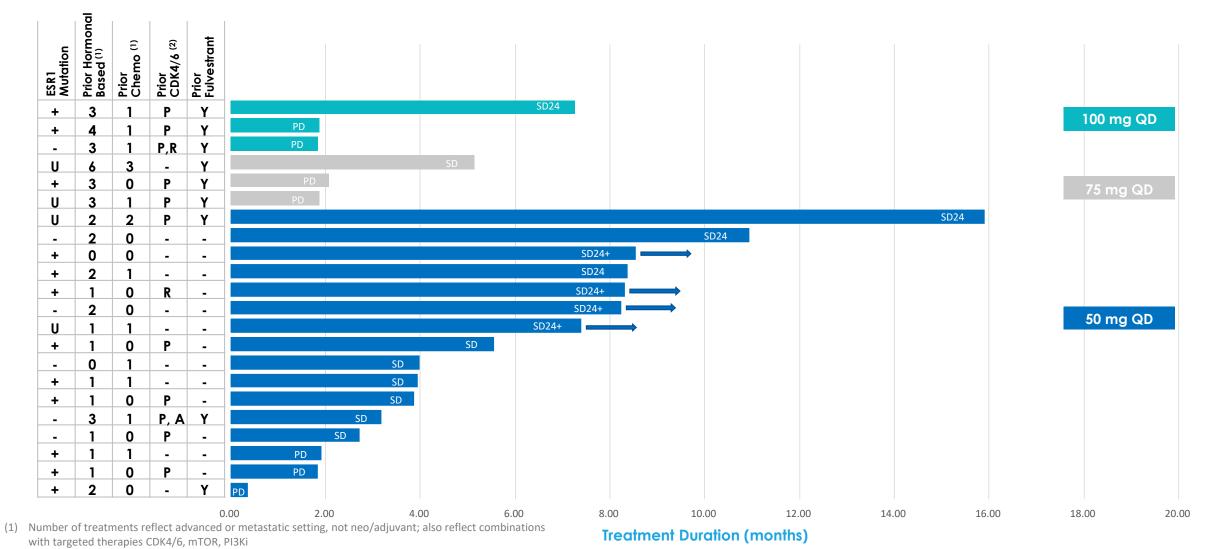
Ph 1b Study (ZN-c5 + ZN-c3) in CDK4/6i resistant breast cancer *Initiation Expected in 2H 2022* 

#### Overview

- Updated interim Phase 1/2 monotherapy data (1,2)
  - Patients at 50 mg: CBR 44% (PR + SD ≥ 24 weeks), PFS 3.9 months
  - Patients at 50 mg without prior CDK4/6i: CBR 56%, PFS 8.3 months
  - Phase 2 ongoing, with ZN-c5 dosed at 50 mg QD and possibly at 25 mg QD
  - No dose-limiting toxicities at any dose level
- Window of Opportunity study has completed enrollment (n=35)
- ZN-c5 can be administered with or without food

### Updated Interim Clinical Data: ZN-c5-001 Monotherapy 50-100 mg

#### Treatment Duration (months) and Response by Dose as of 15 September 2021



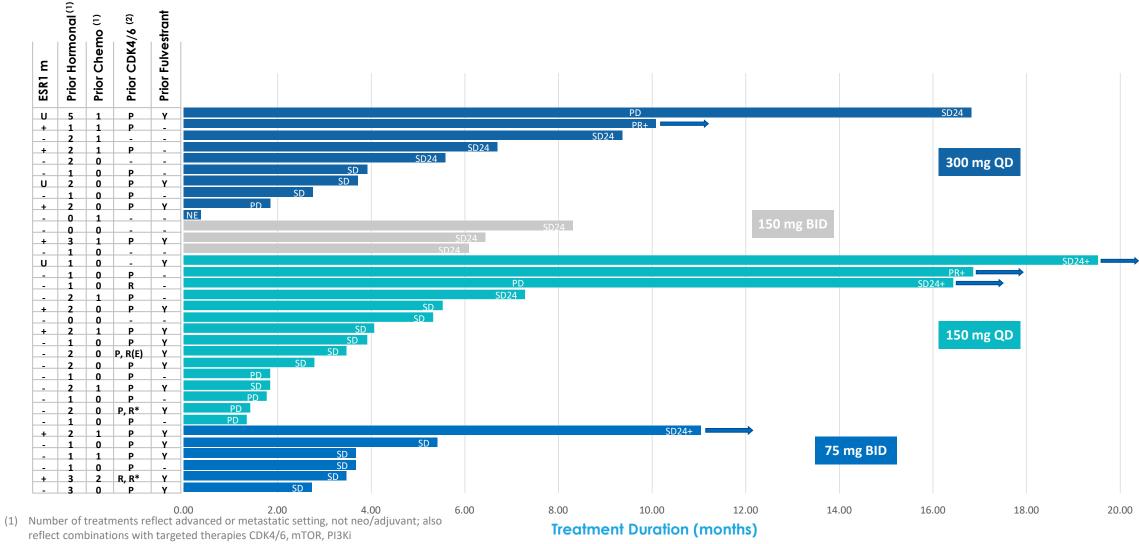
<sup>(2)</sup> P-palbociclib, A-abemaciclib, R-ribociclib, E-experimental treatment (could be placebo)

<sup>+</sup> ESR1 mutation detected

U Unknown

### Updated Interim Clinical Data: ZN-c5-001 Monotherapy 150-300 mg

#### Treatment Duration (months) and Response by Dose as of 15 September 2021



(2) P-palbociclib, A-abemaciclib, R-ribociclib, E-experimental treatment (could be placebo)

+ ESR1 mutation detected

U Unknown

# **ZN-c5-001** Monotherapy Efficacy Summary by Dose

### **Interim Monotherapy Efficacy Results**

Data cut-off 15 September 2021

	50	)					7,7	
Dose (mg)	No prior CDK	Prior CDK	75	100	150	300	Overall	
N (enrolled)	9	7	3	3	21	13	56	
CBR	5/9 (56%)	2/7 (29%)	0/3 (0%)	1/3 (33%)	5/21 (24%)	8/13 (62%)	21/56 (38%)	
ORR	0/7	0/7	0/2	0/3	1/14	1/8	2/41	

# ZN-c5-001: ZN-c5 is Differentiated from Competition on Safety

	AZD-9833 (AstraZeneca)	GDC-9545 (Roche)	Amcenestrant (Sanofi)	LSZ102 (Novartis)	G1T48 (G1 Therap.)	OP-1250 <sup>(4)</sup> (Olema)	ARV-471 (Arvinas)	ZN-c5 <sup>(1)</sup> (Zentalis)
Dose	75 mg QD (Initial Reported Data)	30 mg QD (10, 30 and 100 mg Taken Forward)	400 mg QD	600 mg QD	1,000 mg QD (600 and 1,000 mg Taken Forward)	60 mg QD (60, 90 and 120 mg as potential RP2D)	360 mg QD (Initial Reported Data)	50 mg QD (Likely R2PD)
AUC (ng*hr/mL)	683	5,070	~36,600 (2)	25,600	2,690	5,046	~34,000	63,700
		<u>Treatment-Ro</u>	elated AEs: % Patie	nts Treated with	Drug (All Doses Teste	ed)		
Diarrhea	0-10% (3)	17%	8%	62%	27%	N/A <sup>(5)</sup>	0-10% <sup>(3)</sup>	3.6%
Nausea	18%	21%	8%	56%	15%	51%	24%	10%
Bradycardia	45%	10%	N/A	N/A	N/A	11% <sup>(6)</sup>	0-10% <sup>(3)</sup>	0%
Visual Disturbances	53%	0-10% (3)	N/A	N/A	N/A	14% <sup>(6)</sup>	0-10% (3)	0%
		<u>c</u>	Other Notable Adve	erse Events: All D	oses Tested			
Other Notable Adverse Events	QTcF DLT; Dizziness	Hot Flush; Dizziness Reported; Fatigue; Arthralgia; QTc Reported	Hot Flush	N/A	Hot Flush; Fatigue	Neutropenia, Fatigue, Vomiting, Headache	Vomiting, Arthralgia, Fatigue, Decreased Appetite	Hot Flush (14%), Fatigue (13%)

Sources: AZD9833 ASCO 2020 Poster; GDC-9545 SABCS 2019 Poster; LSZ102 Poster SABCS 2017; amcenestrant ASCO 2020 Poster; G1T48 ESMO 2019 Poster; OP-1250 SABCS 2021 poster; ARV-471 2020 Presentation

<sup>(1)</sup> The data presents a non-head-to-head summary comparison. While we believe the comparison is useful in evaluating the observed results of ZN-c5 in the Phase 1/2 clinical trial, our Phase 1/2 clinical trial and the AZD9833, GDC-9545, amcenestrant, LSZ102, G1T48 and ARV-471 clinical trials were separate trials conducted at different sites with other differences, including, for example, that the subjects in the GDC-9545 clinical trials had 1 median line of prior treatment while the 'subjects in our Phase 1/2 clinical trial had 4 median lines of prior treatment. In this regard, we have not conducted a head-to-head comparison of ZN-c5 and any of the presented oral SERDs in a clinical trial. Results of a head-tohead comparison may differ significantly from those set forth in the table. In addition, because our Phase 1/2 clinical trial and the AZD9833, GDC-9545, amcenestrant, LSZ102, G1T48 and ARV-471 clinical trials were separate trials and because we have interim data for 29 patients in our Phase 1/2 clinical trial from the Phase 1, monotherapy dose escalation portion as of June 30, 2020, differences between the results of our clinical trial and the AZD9833, GDC-9545, amcenestrant, LSZ102, G1T48 and ARV-471 clinical trials may not be statistically or clinically meaningful. For these reasons, you should not place undue weight on the table.

Visual estimation based on graph

Ranges represent adverse events where posters or presentations do not disclose events <10%

<sup>(4)</sup> OP-1250 is an oral CERAN/SERD.

## **ZN-c5:** Well-Tolerated as a Monotherapy

#### **Treatment-Related AEs in ≥ 10% of Subject per Cohort and Total; Total Treatment-Emergent AEs**

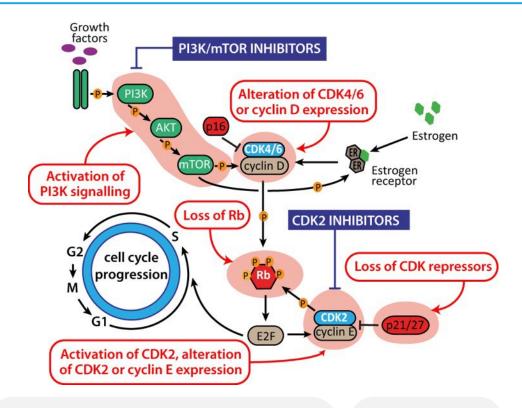
Data cut-off 15 September 2021

Preferred Term	`	mg D : 16)	Q	mg D = 3)	Q	mg (D = 3)		mg ID = 6)	Q	mg D : 15)		) mg    N = 3			0 mg   N = 10				TRAEs : 56)				TEAEs = 56)	
NCI CTCAE Grade	1	2	1	2	1	2	1	2	1	2	1	2	3	1	2	3	1	2	3	All	1	2	3	All
Any AE, n (%)	6	2	1	0	0	0	2	2	5	4	1	1	1	4	3	1	19 (34%)	12 (21%)	2 (4%)	33 (59%)	13 (23%)	27 (48%)	14 (25%)	54 (96%)
Hot flush, n (%)	0	0	0	0	0	0	2	0	3	0	0	0	0	1	2	0	6 (11%)	2 (4%)	0	8 (14%)	6 (11%)	2 (4%)	0	8 (14%)
Nausea, n (%)	1	0	0	0	0	0	1	0	1	1	0	1	0	1	2	0	4 (7%)	4 (7%)	0	8 (14%)	12 (21%)	5 (9%)	0	17 (30%)
Fatigue, n (%)	1	0	0	0	0	0	1	0	2	0	1	0	0	1	1	0	6 (11%)	1 (2%)	0	7 (13%)	12 (21%)	3 (5%)	0	15 (27%)

Diarrhea events: 2 out of 56 subjects (3.6%), only grade 1 or 2 events observed Grade 3 events: n=1 hypersensitivity (300 mg qd); n=1 yGT increase (150 mg bid)

No observed bradycardia, no visual disturbances, no QTC, no dizziness

### **Unmet Need for CDK4/6i-Resistant Patients**

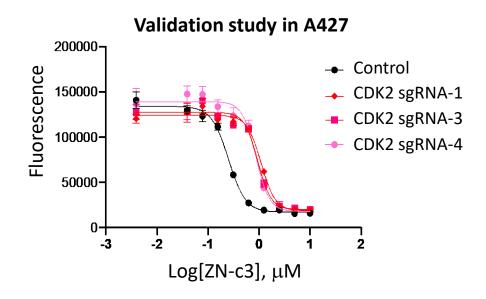


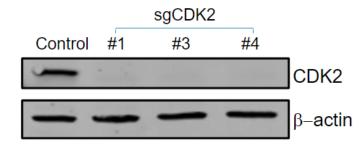
#### CDK4/6i resistance mechanisms<sup>(1,2)</sup>

- CCNE1 amplification / CDK2 activation
- Loss of Rb1
- CDK7 overexpression
- MDM2 overexpression
- Wee1 overexpression

Increased dependence on G2/M checkpoint

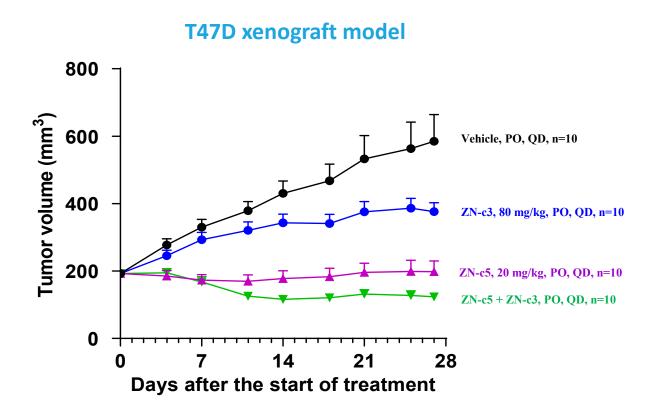
# Internal CRISPR screen shows CDK2 is associated with increased sensitivity to ZN-c3





<sup>(1)</sup> Portman N. et al., Endocrine-Related Cancer (2019) 26, R15–R30

# Combining ZN-c5 with ZN-c3 in ER<sup>+</sup>/HER2<sup>-</sup> Breast Cancers R/R to CDK4/6i



<sup>\*</sup> Currently assessing ZN-c3 + ZN-c5 in palbociclib-resistant ER+/HER2- Breast PDX models

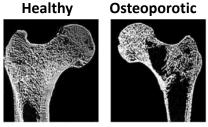
- ER+/HER2- is the largest breast cancer subtype with a prevalence >1,500,000<sup>(1)</sup>
- In the PALOMA-2 trial (palbociclib + letrozole), 30% of patients developed CDK4/6 inhibitor resistance within 2 years<sup>(2)</sup>, leaving limited treatment options for such a large patient population
- Addressable patient population ~450,000

**Study Initiation 2022** 

<sup>(1)</sup> Informa Pharma Intelligence. ER+/HER2- BC December 2020; All stages. North America, Western Europe, and Japan.

# ZN-c5 Safety Profile and Bone Protective Activity Supports Use in **Adjuvant Settings**

Loss of estrogen associated with osteoporosis in post-menopausal women

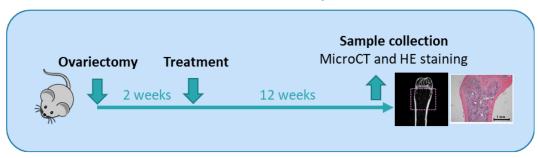


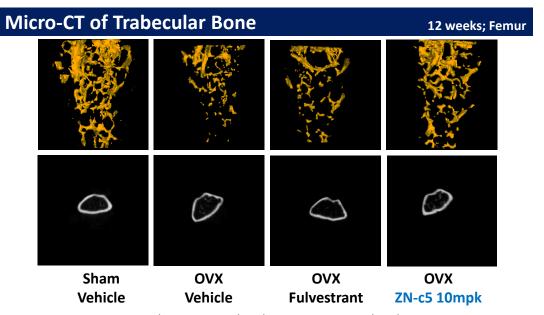
ResearchGate / Thesis / Ehsan Basafa (2013)

- Advanced breast cancer patients suffer from osteolytic bone metastasis
- Treatment with Fulvestrant is associated with osteolysis
- ZN-c5 opportunity:
  - ZN-c5 combines anti-tumor effect with bone-protective effect

## **Bone Mineral Density** 9 weeks; Femur \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001,analyzed by unpaired t-test. All data are presented as mean ± SEM. BMD(g/cm<sup>2</sup>) \* Compared with sham-vehicle group; # Compared with OVXvehicle group

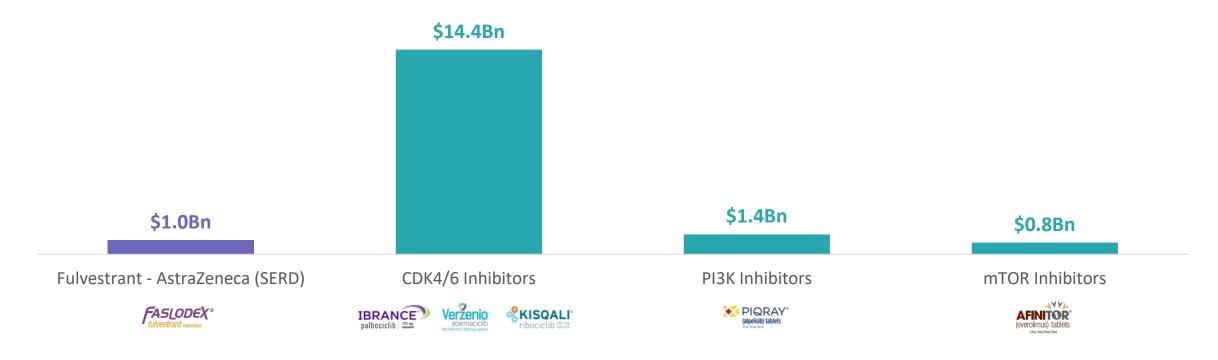
#### Assessment of ZN-c5 on bone density in ovariectomized mice





# **Vast Market Opportunity for Oral SERDs**





Faslodex Sales of ~\$1.0Bn Reflect Only Part of Significant Market Potential for an Oral SERD and does not include the much larger adjuvant opportunity



ZN-d5

# **BCL-2** Inhibitor



## ZN-d5: Oral BCL-2 Inhibitor for Hematologic Malignancies



- Broad applicability as antiapoptotic target
- Difficult target given intracellular location
- Potential for use in combination
- Venetoclax: only approved BCL-2 inhibitor
- Small number of agents in development



**ANALYZE:** Venetoclax

- Demonstrated clinical efficacy in hematologic malignancies
- Approvals in CLL/SLL and AML
- Addresses side effects of previous BCL-2 inhibitors
- Thrombocytopenia still observed in 29% of patients, attributed to BCL-xL inhibition



**CREATE:** ZN-d5

- Designed to optimize:
  - Potency
  - Selectivity
  - PK properties



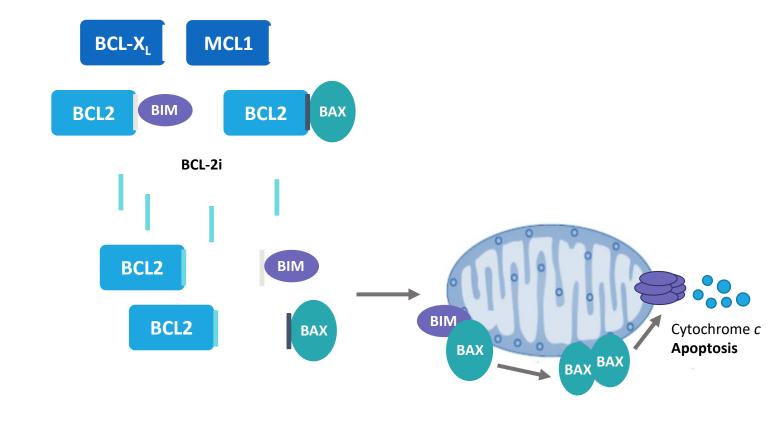
**GENERATE:** Preclinical Evidence

- Improved *in vitro* potency and has 10x improved selectivity for BCL-2 vs BCL-xL compared to venetoclax
- Observed to bind with higher affinity to BCL-2 mutants than venetoclax in in vitro assay
  - Mutations in BCL-2 may be driving sub-clonal pockets of resistance to venetoclax
- Strong anti-tumor activity consistent with venetoclax in leukemia model

# **BCL-2: A Clinically Validated Oncology Target**

- BCL-2 is an anti-apoptotic protein involved in tumor survival and chemo resistance (1)
- The intrinsic apoptotic pathway is controlled by the BCL-2 protein family on the mitochondrial outer membrane (2, 3)
- BCL-2 inhibitors may restore the normal apoptosis process, making it an important target for cancer treatments

#### Mechanism of action of BCL-2 inhibitors (1)



<sup>(1)</sup> Konopleva M et al. Cancer Discov. 2016 Oct;6(10):1106-1117

<sup>(2)</sup> Konopleva M and Letai A. Blood. 2018 Sep 6;132(10):1007-1012

<sup>(3)</sup> Bhola PD and Letai A. Mol Cell. 2016;61(5):695-704

# ZN-d5: A Potent BCL-2 Inhibitor with Improved Selectivity for BCL-2

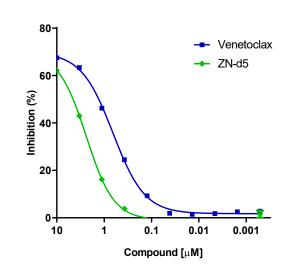
#### ZN-d5 has >14x Improved Selectivity for BCL-2 vs BCL-x, and Binds With Higher Affinity to BCL-2 Mutants than Venetoclax

Compound	Aff	inity (Kd,	nM)	IC <sub>50</sub> (nM) BCL-2 Type				
ID	BCL-2	BCL-x <sub>L</sub>	MCL-1	WT	G101V	F104L	D103Y	
Venetoclax	0.41	28	>30000	1.3	7.3	8.4	18.3	
ZN-d5	0.29	190	>30000	1.4	3.7	1.4	5.0	

#### ZN-d5 Exhibits Potent *In Vitro* Activity Across Multiple Tumor Cell Lines

	CTG IC <sub>50</sub> (nM)										
Compound	ALL	M	CL	DLB	CL	AML					
ID	RS4;11	Mino-1	Granta- 519	DOHH-2	Toledo	HL-60	Molm-13	MV4-11			
Venetoclax	2.9	1.1	161	43	191	26	18	3.8			
ZN-d5	5.1	0.1	89	50	92	21	39	5.1			

#### ZN-d5: Less Human Platelet Toxicity Compared to Venetoclax in an In Vitro Assay



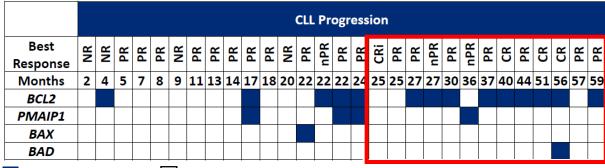
Compound ID	CTG (24 h) IC <sub>50</sub> (μM)
Venetoclax	0.6
ZN-d5	2.4

ZN-d5 shows activity in preclinical models of ALL, NHL and AML

# ZN-d5: May Bind with Higher Affinity to BCL-2 Mutants than Venetoclax

# Mutations in BCL-2 May be Driving Sub-Clonal Pockets of Resistance to Venetoclax in CLL

#### **CLL Progression on Venetoclax**



Acquired post-therapy

No mutation detected

#### 55% (16/29) patients acquired mutations in BCL2 family members

- 48% (14/29) with mutations in BCL2
- 21% (6/29) with mutations in PMAIP1 (NOXA), BAX or BAD

Majority (9/14) were detected with BCL2 mutations after 24 months on venetoclax

% (16/29) of patients with CLL progression

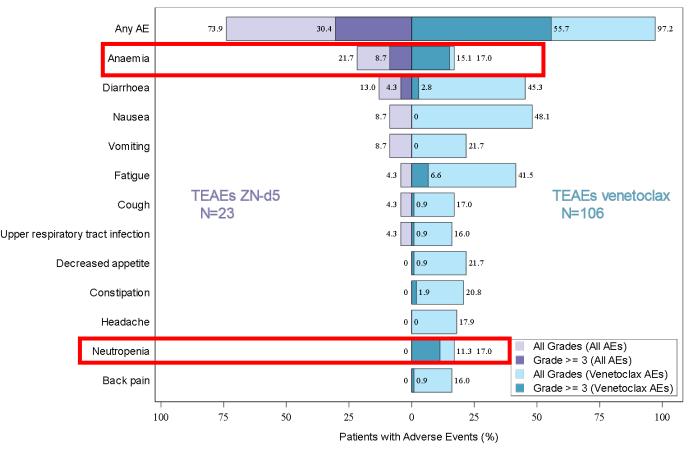
Compound	IC <sub>50</sub> (nM) BCL-2 Type							
Compound	WT	G101V	F104L	D103Y				
Venetoclax	1.3	7.3	8.4	18.3				
ZN-d5	1.4	3.7	1.4	5.0				

Note: Competition assay for displacing BAK peptide bound to BCL-2

# ZN-d5: Favorable Early Comparison to Venetoclax in NHL

- ZN-d5 100-1200 mg, empty stomach
- Venetoclax 200-1200 mg with food
- Early toxicity profile in NHL favorable vs. published venetoclax data<sup>(1)</sup>
  - Fewer AEs of any Grade, Grade ≥3
  - No TLS observed
  - Venetoclax AEs not dose-dependent

	9	Ar	ny Grade	
Adverse Event	All Doses (N = 106)	$\leq$ 400 mg (n = 22)	600 to 900 mg (n = 33)	1,200 mg (n = 51)
Emergent*				
Any event	103 (97)	21 (96)	33 (100)	49 (96)
Nausea	51 (48)	9 (41)	15 (45)	27 (53)
Diarrhea	48 (45)	7 (32)	14 (42)	27 (53)
Fatigue	44 (42)	10 (45)	9 (27)	25 (49)
Decreased appetite	23 (22)	4 (18)	4 (12)	15 (29)
Vomiting	23 (22)	5 (23)	6 (18)	12 (24)
Constipation	22 (21)	6 (27)	7 (21)	9 (18)
Headache	19 (18)	2 (9)	7 (21)	10 (20)
Anemia	18 (17)	7 (32)	6 (18)	5 (10)
Cough	18 (17)	7 (32)	6 (18)	5 (10)
Neutropenia	18 (17)	4 (18)	8 (24)	6 (12)
Back pain	17 (16)	3 (14)	6 (18)	8 (16)
Upper RTI	17 (16)	5 (23)	8 (24)	4 (8)



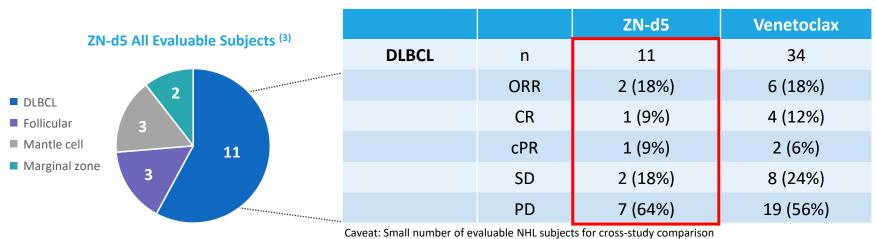
# **ZN-d5: Preliminary Cross-Trial Data Comparison to Venetoclax**

#### **Pharmacology Data Comparison**

	ZN-d5	Venetoclax
Dosing state	empty stomach	with food
Mean AUC (μg·hr/mL) @ 400 mg	8.7	32.8 <sup>(2)</sup>
Unbound drug fraction (%) <sup>(1)</sup>	0.12	0.06

 Higher AUCs expected for ZN-d5 when dosing commences with food in 2022

#### **Clinical Data Comparison**



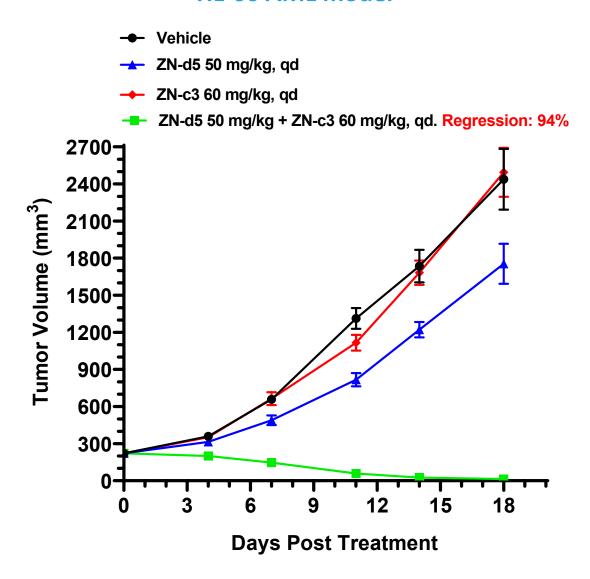
- Clinical activity (18% ORR, 36% DCR) in DLBCL is promising at this early stage and on par with venetoclax activity
- An additional unconfirmed PR in follicular lymphoma at 800 mg ZN-d5 (w/o food) observed after Nov 3, 2021 data cut

- 2) Salem et al. J Clin Pharmacol 2017;57:484-492
- (3) N=19 response-evaluable NHL subjects dosed with ZN-d5

<sup>1)</sup> Human plasma protein binding comparison was run multiple times in 10% plasma and calculated to 100% plasma.

# The Combination of BCL-2 and Wee1 Inhibitors Results in Synergism in Several Tumor Models Including AML

#### **HL-60 AML model**



- ZN-d5 and ZN-c3 combination represents a novel therapeutic approach
- Significant enhancement of activity than single agent in several indications, including AML
- Combination regimen was well-tolerated in mice
- Zentalis is the only company known to have both inhibitors in clinical development

# **ZN-d5: Clinical Development Plan**

#### **Ongoing and Planned Clinical Programs**

#### Phase 1

#### **Monotherapy**

AML and Non-Hodgkin's Lymphoma Dose Escalation (1) **Initiated** 

### Phase 1/2 (2)

#### **Monotherapy**

**Amyloidosis** Initiated

#### **Combination**

**AML** 

ZN-d5 + ZN-c3Expected Initiation of Phase 1 Portion

in 1H 2022

#### Overview (2)

- **Interim monotherapy dose**escalation study update
  - 27 treated (23 NHL including 13 DLBCL)
  - Escalated doses through 1200 mg daily in the fasting state currently and will transition to the fed state in 2022
  - No unexpected safety findings



ZN-e4

# **EGFR** Inhibitor



### ZN-e4: Third-Generation EGFR Inhibitor for NSCLC



- Regulator of proliferation and survival in lung cancer
- Third generation inhibitors targeting T790M mutation have produced clinically meaningful benefits
- Osimertinib: only approved third-generation EGFR inhibitor
- Broad combination potential



# **ANALYZE:** Osimertinib

- Addresses the T790Mmediated acquired resistance and improving efficacy
- ~60% of patients reported rashes
- AZ5104, a major metabolite of osimertinib, may be responsible for these toxicities



# **CREATE:** ZN-e4

- Designed to achieve similar potency with:
  - Improved selectivity for mutant EGFR
  - No production of potent metabolite for wild-type EGFR
  - Better solubility
- Actively evaluating potential combinations



# **GENERATE:** Preclinical Evidence

- Improved selectivity in comparison to osimertinib across single mutant, double mutant and wild-type cells
- Confirmed no potent metabolite for wild-type
   FGFR formed
- Favorable tolerability observed, similar weight loss to osimertinib at 5x efficacious dose

# **ZN-e4: Improved Selectivity and Tolerability in Preclinical Models**

#### ZN-e4 is More Selective than Osimertinib...

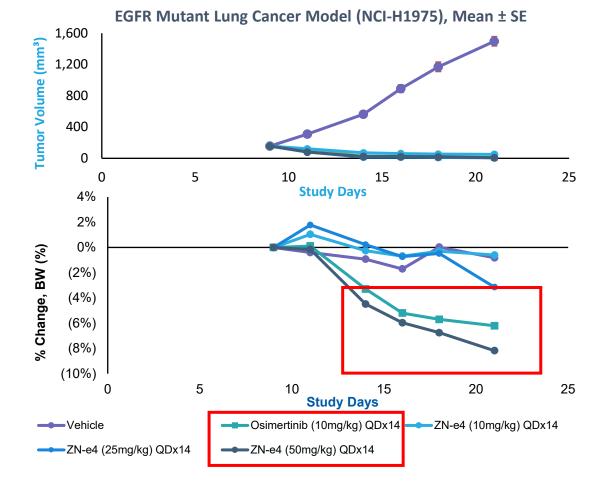
	Double Mutant Cell IC <sub>50</sub> (nM)	Single Mutant Cell IC <sub>50</sub> (nM)	Wild-Type Cell IC <sub>50</sub> (nM)
Osimertinib: Core Drug	15	29	294
ZN-e4: Core Drug	20	38	839

### ...And Does Not Form a Potent Metabolite for Wild-Type EGFR

	Double Mutant Cell IC <sub>50</sub> (nM)	Single Mutant Cell IC <sub>50</sub> (nM)	Wild-Type Cell IC <sub>50</sub> (nM)			
Osimertinib: AZ5104	2 <sup>(2)</sup>	2 (2)	33 <sup>(2)</sup>			
ZN-e4	No Potent Metabolite for Wild-Type EGFR Formed					

Osimertinib data based on evaluation of comparable proxy chemical compound purchased from commercial sources rather than obtained from the pharmaceutical company developing the compound.

### **Favorable Tolerability Observed: ZN-e4 Similar** Weight Loss to Osimertinib at 5x Efficacious Dose (1)

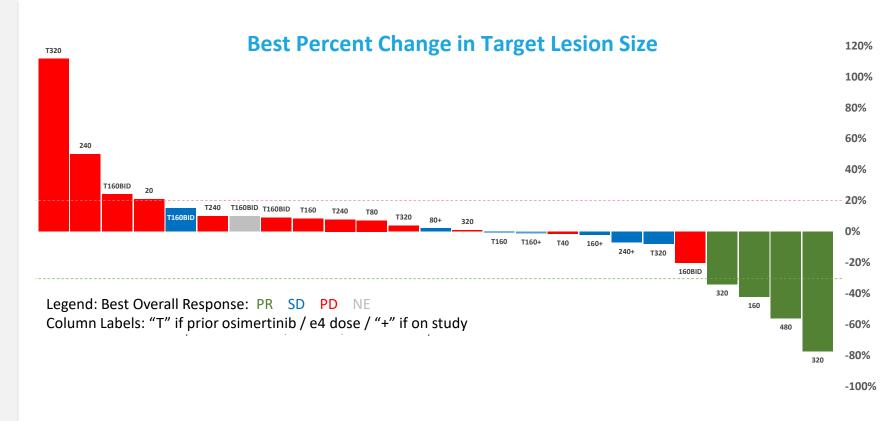


Finlay, M.J. of Med. Chem. (2014)

## **ZN-e4: Clinical Update**

# ZN-e4 shows clear efficacy and excellent safety in osimertinibnaïve NSCLC (1)

- Enrolled 32 subjects total
- Skin toxicity appears substantially better
- ORR 36% (4/11) in relapsed, osimertinib-naïve subjects
  - All failed prior EGFRi and 1-2 lines of chemo
  - Only one subject with T790M positive
- Phase 2 dose will be 240 mg







# Conclusions



# **Key Milestones**

#### ZN-c3: Wee1 Inhibitor

1H 2022	Initial readout on Phase 1 USC expansion cohort
1H 2022	Initial readout on Phase 1b ovarian chemotherapy combo
2H 2022	Initial enrollment/safety update on Phase 2 USC trial +
2H 2022	Initial readout on Phase 1/2 chemotherapy combo in osteosarcoma*

#### **ZN-c5: Oral SERD**

1H 2022	Phase 1b combination study topline results with Pfizer's palbociclib
1H 2022	Phase 1b combination study topline results with Lilly's abemaciclib
2H 2022	Initiate Phase 1b combination study of ZN-c5 + ZN-c3 in CDK4/6i resistant breast cancer

#### **ZN-d5: BCL-2 Inhibitor**

1Q 2022 ✓ Initiate Phase 1/2 monotherapy study in amyloidosis\*

1H 2022 Initiate Phase 1/2 combination study of ZN-d5 + ZN-c3 in AML

2H 2022 Updated results from Phase 1 dose escalation study in AML and NHL

#### **ZN-e4: EGFR Inhibitor**

2H 2022 Report results on Phase 1 NSCLC trial

#### **Integrated Discovery Engine**

2022 Initiate IND enabling studies for an internal program

#### Zentera

2022 Maximize value from investment in and partnership with Zentera

<sup>\*</sup> Registrational trial with FDA Fast Track designation

<sup>\*</sup> Potentially registrational trial



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