UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of report (Date of earliest event reported): March 1, 2023

ZENTALIS PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 001-39263 (Commission File Number) 82-3607803 (I.R.S. Employer Identification No.)

1359 Broadway, Suite 1710 New York, New York 10018 (Address of principal executive offices) (Zip Code)

(212) 433-3791 (Registrant's telephone number, inclu

hone number, include area code)

N/A

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001 par value per share	ZNTL	The Nasdaq Global Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 2.02 Results of Operations and Financial Condition.

On March 1, 2023, Zentalis Pharmaceuticals, Inc. (the "Company") announced its financial results for the year ended December 31, 2022. The full text of the press release issued in connection with the announcement is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

Item 7.01 Regulation FD Disclosure.

Beginning on March 1, 2023, spokespersons of the Company plan to present the information in the Corporate Presentation attached hereto as Exhibit 99.2 at conferences and in meetings with investors and analysts.

The information contained in Items 2.02 and 7.01 of this Current Report on Form 8-K (including Exhibits 99.1 and 99.2 attached hereto) shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, except as expressly provided by specific reference in such a filing.

By providing the information in Item 7.01 of this Current Report on Form 8-K, including Exhibit 99.2 hereto, the Company is not making an admission as to the materiality of any information herein. The information contained in this Current Report on Form 8-K is intended to be considered in the context of more complete information included in the Company's filings with the U.S. Securities and Exchange Commission (the "SEC") and other public announcements that the Company has made and may make from time to time by press release or otherwise. The Company undertakes no duty or obligation to update or revise the information entities in this Current Report on Form 8-K, although it may do so from time to time as its management believes is appropriate. Any such updating may be made through the filing of other reports or documents with the SEC, through press releases or through other public disclosures.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

The following exhibits relating to Items 2.02 and 7.01 shall be deemed to be furnished, and not filed:

Exhibit No.	Description
<u>99.1</u>	Press Release issued on March 1, 2023
<u>99.2</u>	Corporate Presentation, dated March 1, 2023
104	Cover Page Interactive Data File (embedded within the inline XBRL document)

SIGNATURES

By:

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ZENTALIS PHARMACEUTICALS, INC.

Date: March 1, 2023

/s/ Kimberly Blackwell, M.D. Kimberly Blackwell, M.D. Chief Executive Officer



Zentalis Pharmaceuticals Reports Full Year 2022 Financial Results and Operational Updates

On track to declare monotherapy RP2D for potentially first-in-class/best-in-class Wee1 inhibitor, azenosertib (ZN-c3), and provide program updates and potential paths to registration in 1H 2023

Pursuing Cyclin E1 as a patient enrichment strategy for azenosertib monotherapy in ovarian cancer; Cyclin E1 preclinical data with azenosertib to be presented at scientific conference in 1H 2023

Phase 1 ovarian chemotherapy + azenosertib combination trial readout, including Cyclin E1 translational clinical data, planned for 2H 2023

Initiated enrollment in Phase 1/2 azenosertib + BEACON regimen combination study in collaboration with Pfizer in BRAF V600E mutated metastatic colorectal cancer (mCRC)

Enrollment ongoing in clinical trials investigating ZN-d5, our BCL-2 inhibitor, including in (AL) amyloidosis

\$437 million cash balance as of December 31, 2022, with projected cash runway into Q2 2025

NEW YORK and SAN DIEGO — March 1, 2023 — ZentalisTM Pharmaceuticals, Inc. (Nasdaq: ZNTL), a clinical-stage biopharmaceutical company focused on discovering and developing clinically differentiated small molecule therapeutics targeting fundamental biological pathways of cancers, today announced financial results for the year ended December 31, 2022 and highlighted recent corporate accomplishments.

"2022 was a year of considerable progress for Zentalis. We prioritized our portfolio, accelerated our clinical development strategy for our potentially first-in-class Wee1 inhibitor, azenosertib, and further strengthened our management team to drive execution," said Kimberly Blackwell, MD, Chief Executive Officer. "We are building on the momentum generated in 2022 with many clinical milestones and new programs planned for 2023. Our dose optimization activities for azenosertib remain a top priority, and we are on track to declare a monotherapy recommended Phase 2 dose in the first half of the year. We are also advancing our Cyclin E1 enrichment strategy in ovarian cancer, and we look forward to sharing Cyclin E1 preclinical data in the first half of the year and Cyclin E1 clinical data as part of the chemotherapy combination readout in the second half of the year. In addition, we plan to share progress on ZN-d5, our BCL-2 inhibitor, later this year. I am incredibly proud of the entire organization and our patient-driven mission, which guides our strategy and motivates us to continually accelerate our efforts."

Azenosertib (ZN-c3) Wee1 Inhibitor Program Highlights

- Dose optimization. The Company continues to optimize monotherapy dosing across the azenosertib program with the aim of maximizing exposure and tolerability, as well as enabling the potential clinical benefits of the agent to reach the broadest range of patients in need. The Company remains on track to provide an update on azenosertib monotherapy dose optimization activities in the first half of 2023, including declaring a monotherapy recommended Phase 2 dose (RP2D), as well as providing updates on program timelines and potential paths to registration.
- Cyclin E1 enrichment strategy. Zentalis identified high Cyclin E1 protein expression and/or CCNE1 gene amplification in high-grade serous ovarian cancer as a patient enrichment strategy



for azenosertib, which has become the focus of its ongoing Phase 1/2 clinical study examining enrichment strategies for azenosertib. The Company plans to present preclinical data supporting the rationale for the Cyclin E1 enrichment strategy at a scientific conference in the first half of 2023. In addition, Zentalis plans to report results from the Phase 1b chemotherapy combination clinical trial in ovarian cancer, which will include Cyclin E1 translational data, in the second half of 2023.

• BRAF V600E study. In October 2022, Zentalis and Pfizer announced a clinical development collaboration on a Phase 1/2 dose escalation study of azenosertib in combination with encorafenib and cetuximab (BEACON regimen) in BRAF V600E-mutated metastatic colorectal cancer (mCRC) patients. We initiated enrollment in this clinical trial in the first quarter of 2023.

BCL-2 Inhibitor (ZN-d5) Update

- Amyloidosis study. Zentalis plans to announce interim clinical data and declare the RP2D for the Phase 1/2 monotherapy clinical trial of ZN-d5 in relapsed or refractory light chain (AL) amyloidosis in the second half of 2023.
- AML study. The Company has initiated a Phase 1/2 combination study of ZN-d5 and azenosertib in relapsed or refractory acute myeloid leukemia (AML) and expects to provide preliminary data from the trial in the second half of 2023.

BCL-xL Degrader Update

In November 2022, the Company announced that it declared its BCL-xL degrader candidate and had initiated IND-enabling studies. The BCL-xL degrader candidate demonstrates potent anti-cancer activity in several preclinical models.

Corporate Highlights

In February 2023, the Company appointed Iris Roth, PhD, as Chief Operating Officer. Dr. Roth joins Zentalis with over two decades of biopharmaceutical experience building and executing clinical and operational strategies, successfully advancing the development of multiple investigational therapies in oncology.

Full Year 2022 Financial Results

- Cash and Marketable Securities Position: As of December 31, 2022, Zentalis had cash, cash equivalents and marketable securities of \$437.4 million. The Company believes that its existing cash, cash equivalents and marketable securities as of December 31, 2022 will be sufficient to fund its operating expenses and capital expenditure requirements into the second quarter of 2025.
- Research and Development Expenses: Research and development (R&D) expenses for the year ended December 31, 2022 were \$172.7 million, compared to \$175.6 million for the year ended December 31, 2021. Total R&D expenses for the year ended December 31, 2022 were in line with the comparable period; however, the year-over-year composition shifted from spend across multiple programs to spend primarily focused on azenosertib and ZN-d5. The decrease of \$2.9 million was primarily due to non-recurring charges incurred in 2021 of \$10.0 million for



milestone payments and an impairment charge of \$8.8 million for in-process research and development. Other reductions in R&D expenses in 2022 as compared to 2021 included \$14.0 million of decreased manufacturing costs, \$2.7 million of decreased collaborative and consulting costs and a \$5.7 million increase in R&D expense reimbursements from Zentera. These reductions were partially offset by increases in clinical trial related expenditures of \$19.8 million, increases in personnel costs of \$14.4 million and increases in facility, overhead allocations, and other costs of \$4.1 million.

General and Administrative Expenses: General and administrative (G&A) expenses for the year ended December 31, 2022 were \$54.5 million, compared to \$40.9 million during the year ended December 31, 2021. The increase of \$13.6 million was primarily attributable to an increase of \$8.5 million in employee-related costs, \$5.5 million of which represents non-cash stock-based compensation. Other increases in 2022 as compared to 2021 include \$7.2 million of higher facilities, software and supplies costs, \$6.0 million of which related to rent and common area maintenance expenses, \$1.5 million of higher consulting services and \$1.3 million of increased legal expenses. These amounts were partially offset by a reduction of \$1.4 million for permits, fees and other expenses and increased allocations to R&D from G&A of \$3.5 million.

Melissa Epperly, Chief Financial Officer, stated, "We are pleased to have extended our cash runway into the second quarter of 2025 through portfolio prioritization and disciplined spending, coupled with sales of common stock via our at-the-market facility."

About Zentalis Pharmaceuticals

ZentalisTM Pharmaceuticals, Inc. is a clinical-stage biopharmaceutical company focused on discovering and developing small molecule therapeutics targeting fundamental biological pathways of cancers. Utilizing its Integrated Discovery Engine, the Company is developing a focused pipeline of potentially best-in-class oncology candidates, which include azenosertib (ZN-c3), a Wee1 inhibitor for advanced solid tumors, ZN-d5, a BCL-2 inhibitor for hematologic malignancies and related disorders, and a heterobifunctional degrader of BCL-xL for solid and hematological malignancies. The Company is also leveraging its extensive experience and capabilities across cancer biology and medicinal chemistry to advance its research on protein degraders and other undisclosed targets. Zentalis has operations in New York and San Diego.

For more information, please visit www.zentalis.com. Follow Zentalis on Twitter at @ZentalisP and on LinkedIn at www.linkedin.com/company/zentalis-pharmaceuticals.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. All statements contained in this press release that do not relate to matters of historical fact should be considered forward-looking statements, including statements relating to the potential for a product candidate to be first-in-class or best-in-class; the potential benefits of our dose optimization work, including plans to declare a monotherapy RP2D for azenosertib and the timing thereof; accelerating our efforts; plans to provide program updates and potential benefits of our poduct candidates; plans to present preclinical data relating to Cyclin E1 and the timing thereof; plans to report results from the Phase 1b chemotherapy combination trial in ovarian cancer, including Cyclin E1 data, and the timing thereof; plans to present interim clinical data and declare the RP2D for the ZN-d5 Phase 1/2 monotherapy trial in AL amyloidosis and the timing thereof; and plans to provide



preliminary data from the Phase 1/2 combination study of ZN-d5 and azenosertib in AML and the timing thereof. The terms "aim," "believe," "continue," "look forward," "on track," "optimize," "plans," "potential," "projected," "to be," "will," and similar references are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These statements are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements expressed or implied by the forward-looking statements, including, but not limited to, the following: our limited operating history, which may make it difficult to evaluate our current business and predict our future success and viability; we have and expect to continue to incur significant losses; our need for additional funding, which may not be available; our substantial dependence on the success of our lead product candidates; the outcome of preclinical testing and early trials may not be predictive of the success of later clinical trials; relating to the regulatory approval process or ongoing regulatory obligations; failure to obtain U.S. or international marketing approval; our product candidates may cause serious adverse side effects; inability to maintain our collaborations, or the failure of these collaborations; our reliance on third parties; effects of significant competition; the possibility of system failures or security breaches; risks COVID-19 pandemic has adversely impacted and may continue to adversely impact our business, including our preclinical studies and clinical trials; and the other important factors discussed under the caption "Risk Factors" in our most recently filed periodic report on Form 10-K or 10-Q and subsequent filings with the U.S. Securities and Exchange Commission (SEC) and our other filings with the SEC. Any such forward-looking statements events cause our views to change.

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Alexandra Roy Solebury Strategic Communications aroy@soleburystrat.com

Media Contact: Julia Deutsch Solebury Strategic Communications jdeutsch@soleburystrat.com



Zentalis Pharmaceuticals, Inc. Consolidated Statements of Operations (In thousands, except per share amounts)

		Year ended December 31,	
	2022	2021	2020
Operating Expenses			
Research and development	\$172,734	\$175,601	\$84,901
General and administrative	54,553	40,941	33,886
Total operating expenses	227,287	216,542	118,787
Loss from operations	(227,287)	(216,542)	(118,787)
Other Income (Expense)			
Investment and other income, net	5,987	401	683
Gain on deconsolidation of Zentera	—	51,582	_
Net loss before income taxes	(221,300)	(164,559)	(118,104)
Income tax expense (benefit)	(469)	(297)	444
Loss on equity method investment	16,282	1,831	—
Net loss	(237,113)	(166,093)	(118,548)
Net loss attributable to noncontrolling interests	(307)	(7,368)	(707)
Net loss attributable to Zentalis	\$(236,806)	\$(158,725)	\$(117,841)
Net loss per common share outstanding, basic and diluted	\$(4.48)	\$(3.72)	\$(4.19)
Common shares used in computing net loss per share, basic and diluted	52,857	42,688	28,113



Zentalis Pharmaceuticals, Inc. Selected Condensed Consolidated Balance Sheet Data

(Unaudited)

(In thousands)

	December 31,				
		2022		2021	
Cash, cash equivalents and marketable securities	\$	437,371	\$	339,887	
Working capital ⁽¹⁾		395,286		306,826	
Total assets		539,310		454,507	
Total liabilities		105,286		90,025	
Total Zentalis equity	\$	434,024	\$	364,482	

⁽¹⁾ The Company defines working capital as current assets less current liabilities.





CORPORATE PRESENTATION March 2023

Forward-Looking Statements and Disclaimer

Portage of the US. Private Securities Litigation Reform Act of 1995. All statements contained in this presentation that do not relate to matters of historical fact should be considered forward-looking statements including with indumental transmosterial proval parts, potential for a product candidates to be first-in-class and/or best-in-class and/or best-in-class including with conclusing statements, including with any cacelerated approval parts, potential for our product candidates to be first-in-class and/or best-in-class and/or best-in-class and/or best-in-class and/or best-in-class including with any cacelerated approval parts, potential for our product candidates to be developed as monotherapy to anotherapy to anotherapy to a monotherapy to product candidates to be developed as monotherapy and/or in combination; potential for aur product candidates and be potential benefits of our product candidates and the potentia

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. These data involve 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.

ZENTALISTM and its associated logos are trademarks of Zentalis and/or its affiliates. All other trademarks, trade names and service marks appearing in this presentation are the property of their respective owners. All website addresses given in this presentation are for information only and are not intended to be an active link or to incorporate any website information into this document.

Zentalis' product candidates are investigational drugs and have not yet been approved by the U.S. Food and Drug Administration or any other regulatory authority.



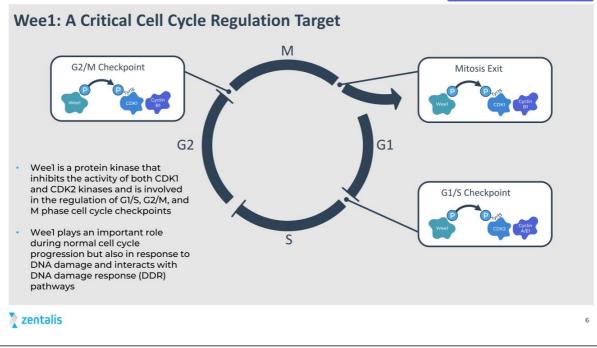
	 Lead Program: Wee1i azenosertib (ZN-c3), potentially first- and best-in-class Potential accelerated approval paths for monotherapy in multiple biomarker enriched populations Enriched patient populations including Uterine Serous Carcinoma (USC), Cyclin El driven and post-PARP progression Investigating highly synergistic concurrent combinations, including BRAF/MEK inhibitors in BRAF mutant mCRC and PARP inhibitors in high grade serous ovarian cancer Fast Track designation granted in USC
Company Overview	 BCL-2 inhibitor ZN-d5: broad applicability as anti-apoptotic target; potential as monotherapy and in combination, including with azenosertib BCL-xL heterobifunctional degrader for liquid and solid tumors (preclinical)
	Additional discovery programs against validated cancer targets
🖹 zentalis	Integrated Discovery Engine: 4 FDA-cleared INDs within 5 years

Advancing Focused Pipeline with Multiple Clinical Opportunities

COMPOUND	INDICATION	DEVELOPMENT APPROACH	PRECLINICAL	EARLY CLINICAL DEVELOPMENT	LATE CLINICAL DEVELOPMENT	STATUS / EXPECTED MILESTONES
	Uterine Serous Carcinoma	Monotherapy				FDA Fast Track Designation
	Solid Tumors	Monotherapy				Update on azenosertib dosing 1H 2023 including RP2D
	Cyclin El Driven Ovarian Cancer	Monotherapy				Enrolling; preclinical update to come in 1H 2023
Azenosertib (ZN-c3)	PARP Resistant Ovarian Cancer	Monotherapy alternating with niraparib or concurrent with niraparib		••••		Enrolling; opened alternating cohort in 4Q 2022
Wee1 Inhibitor	Ovarian Cancer	+ Multiple Chemotherapy Backbones				Enrolling; Phase 1 dose escalatio results in 2H 2023
	Osteosarcoma	+ gemcitabine				Presented data CTOS Conf Nov 2022
	BRAF Mutant Colorectal Cancer	+ encorafenib and cetuximab		Pfizer		Initiated enrollment in Q1 2023
	Pancreatic Cancer	+ gemcitabine				Dana Farber Cancer Institute, funded by SU2C/Lustgarten
	AL Amyloidosis	Monotherapy				Provide interim clinical data and declare RP2D for monotherapy
ZN-d5 BCL-2 Inhibitor	NHL	Monotherapy				Continues to enroll
	AML	+ azenosertib				Provide preliminary data from clinical trial
BCL-xL Degrader	Solid Tumors and Heme Malignancies					Declared development candidat IND enabling activities initiated

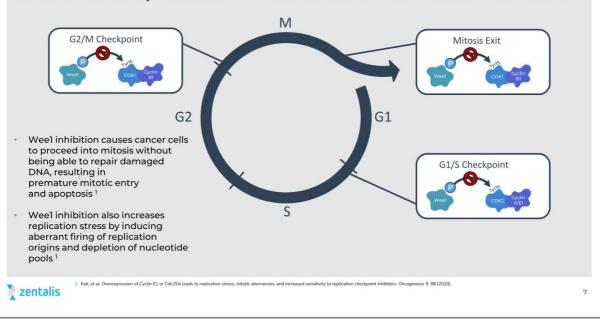




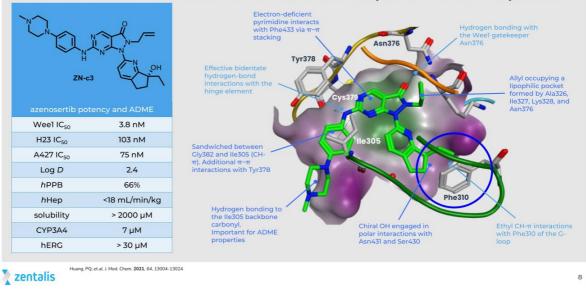




Wee1 Inhibition by Azenosertib Forces Cancer Cells to Proceed into Mitosis



Structure-Based Drug Design (SBDD) Led to the Discovery of a Highly Potent and Selective Wee1 Inhibitor Azenosertib with Improved ADME Properties



Azenosertib: Significant Market Opportunity Across a Broad Range of Solid and Liquid Tumors

	Incidence Estimates (US+EU)	Development Approach
Ovarian Cancer	46,700 ¹	Strategic commitment to patients with multiple ongoing studies in monotherapy and combination settings
High Grade Serous Ovarian Cancer (HGSOC) (75% of Ovarian Cancer)	35,000 ²	Ongoing study combining azenosertib with common chemotherapy backbones in platinum resistant populations. Additional ongoing study examining PARP inhibition in PARP resistant populations with CSK
Cyclin E1 Driven Ovarian Cancer (~25% of HGSOC)	8,800 ³	Ongoing biomarker study with monotherapy regimen exploring high cyclin EI protein expression and CCNEI gene amplification
Other Cyclin E1 Driven Solid Tumors	80,000+ 3	Potential follow-on opportunities including prostate, lung, breast, etc.
Uterine Serous Carcinoma	10,100 4	Fast track designation monotherapy program
Colorectal (BRAF mutant)	36,300 5	Initiated enrollment of azenosertib + BEACON regimen in Q1 2023 as part of Pfizer development partnership
Osteosarcoma	4,300 6	Azenosertib + gemcitabine combination. Initial data readout at 2022 CTOS Conference
Pancreatic Cancer	108,000 7	Azenosertib + gemcitabine combination. Potential to demonstrate POC via investigator sponsored trial at Dana Farber.
AML	25,600 ⁸	Combine azenosertib with ZN-d5, BCL-2 inhibitor

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Azenosertib (ZN-c3) Uterine Serous Carcinoma

Unmet Need in Uterine Serous Carcinoma is Significant

ZN-c3-001: Summary of Clinical Activity – Meaningful and Durable Responses Seen in USC

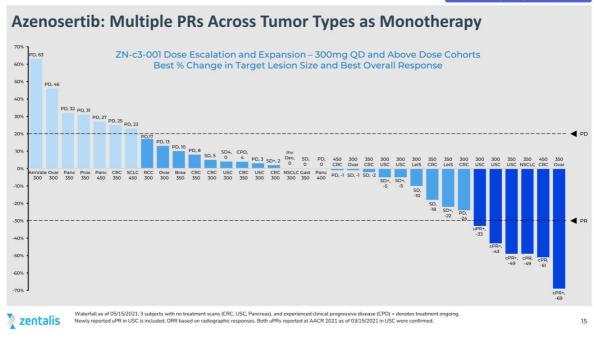
		100%		Dest	ove					Redu	actic			
Complete Response unconfirmed)*	1 (9.1)	80%				OT	Targe	et Les	sions	5				
Partial Response (confirmed)	2 (18.2)	60%												
itable Disease	7 (63.6)	40%												
12 weeks	4 (36.3)	20% -	4.3%			**	**	**	**		**		**	- PD
12 weeks	3 (27.3)	0%	4.3%	2.9%	SD	SD	SD -3.3%	SD	SD	SD	PR	PR	uCR	
Progressive Disease	1 (9.1)	-20%			-2.570	-3.170	-3.370	-4.7%	-6.7%	-14.4%				- PR
Overall Response Rate 95% CI = 6.0%, 61.0%)	3 (27.3)	-40%									-43.3%			- РК
DCR (CR + PR + SD) 95% CI = 58.7%, 99.8%)	10 (90.9)	-60%										-48.9%		
Nedian Duration of Response	5.6 months	-100%											-100.09	
nPFS	4.2 months				••	Prior per	mbrolizu	mab + le	envatini	b use			-100.07	,

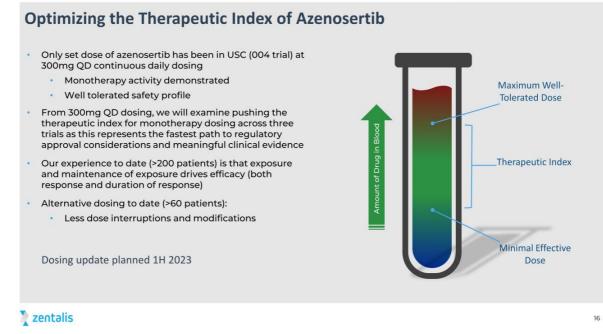




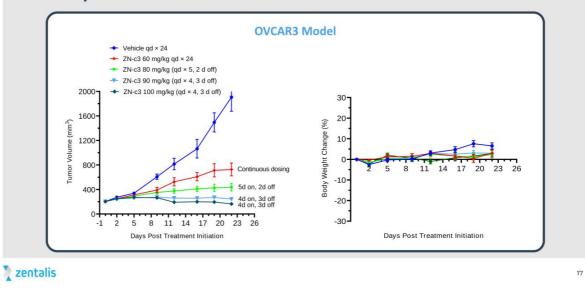
Azenosertib (ZN-c3) Dose Optimization

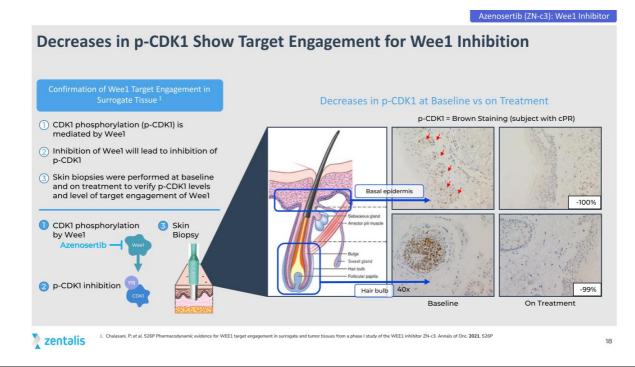


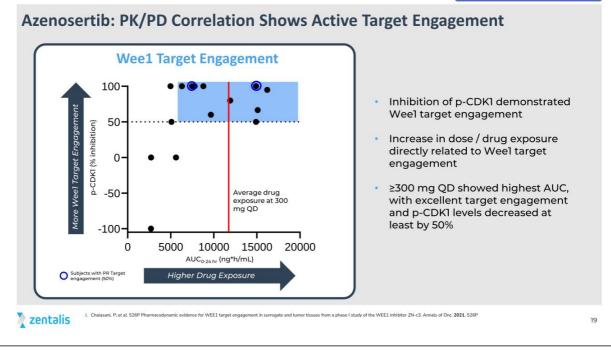




Azenosertib: Intermittent Dosing Increases Efficacy and Maintains Tolerability in Ovarian Cancer Models





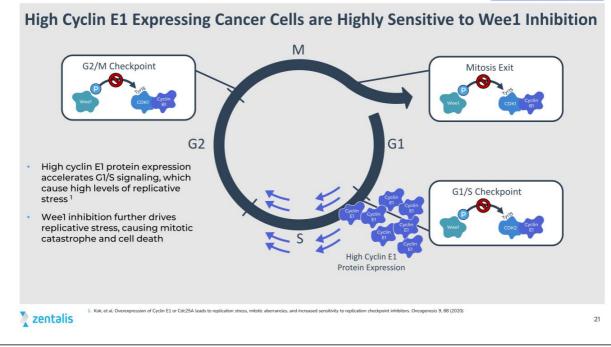




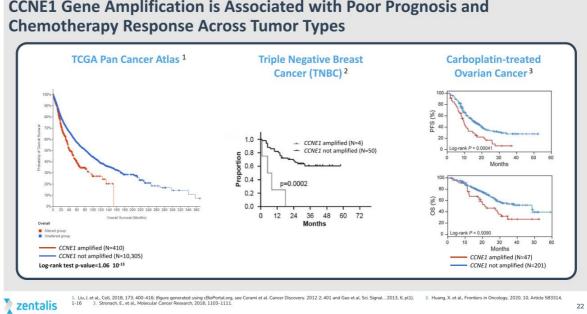
Azenosertib (ZN-c3)

Biomarker Approach: Cyclin E1 Driven Cancers



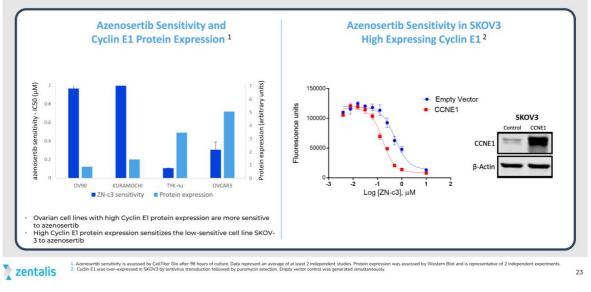


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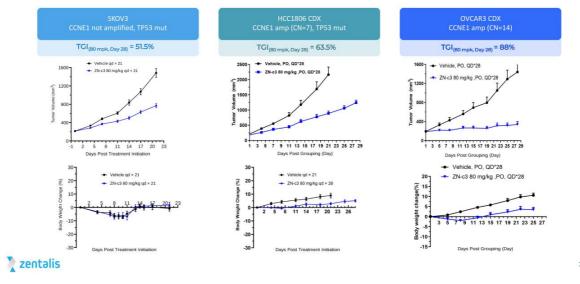


CCNE1 Gene Amplification is Associated with Poor Prognosis and

High Cyclin E1 Protein Expression is Associated with Increased Sensitivity to Azenosertib in Ovarian Cell Lines

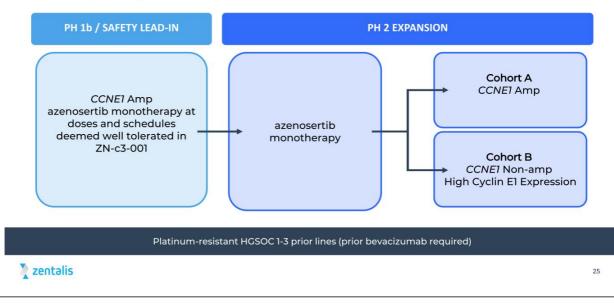


CCNE1 Gene Amplification is Associated with Poor Prognosis and Chemotherapy Response Across Tumor Types

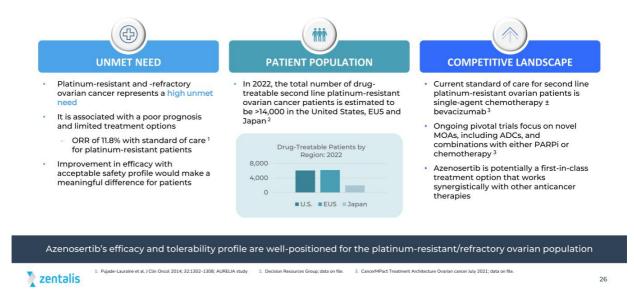


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Moving Forward with Cyclin E1 patient enrichment in HGSOC: Revised ZN-c3-005 Study Design



Platinum-Resistant/Refractory Ovarian Cancer Remains an Unmet Need

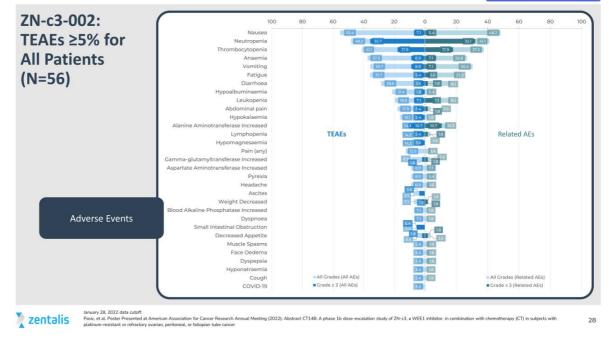


ZN-c3-002: Summary of Clinical Activity

		Juli	ind y or clinical	Activity (All Coh	0,129		
Group		Evaluable* (n)	PR/uPR (n)	SD (n)	PD (n)	DCR (%)	ORR (%)
Azenosertib + Paclitaxel	9	8	5	3	-	100	62.5
Azenosertib + Carboplatin	17	11	5	4	2	81.8	45.5
Azenosertib + PLD	30	24	3	17	4	83.3	12.5
Total	56	43	13	24	6	86.0	30.2

Of evaluable subjects, ORR is pe Data cutoff January 28, 2022 Pasic et al. Poster Presented at American Association for Cancer Research Annual Meeting (2022): Abstract CT148: A phase 1b dose-escalation study of ZN-c3, a WEE1 inhibitor, in combination with chemotherapy (CT) in subjects with platinum-resistant or refractory ovarian, peritoneal, or falloplan tube cancer.

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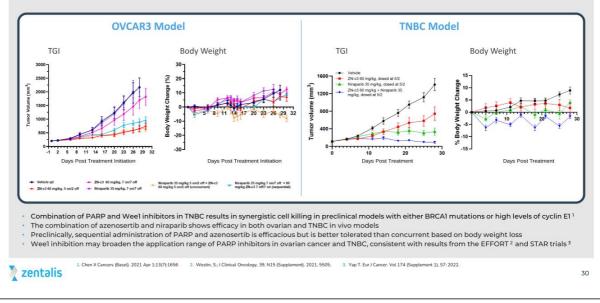




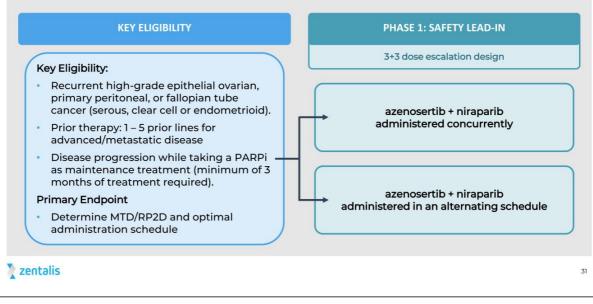
Azenosertib (ZN-c3) PARP-Refractory Ovarian Cancer



Azenosertib + PARP Inhibitor Combinations are Active in both Ovarian CDX and TNBC PDX Models



ZN-c3-006: Phase 1/2 Study of Azenosertib In Combination with Niraparib in Patients with PARP-Resistant Ovarian Cancer

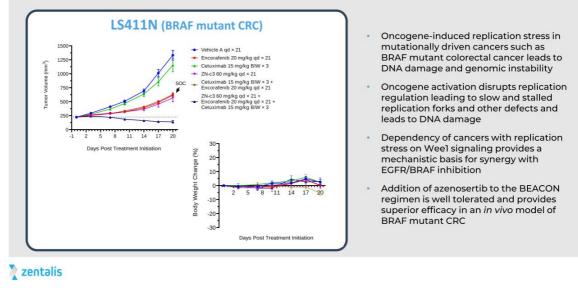




Azenosertib (ZN-c3) BRAF Metastatic Colorectal Cancer



Preclinical Data Supports the Combination of Azenosertib with Encorafenib and Cetuximab: BEACON REGIMEN



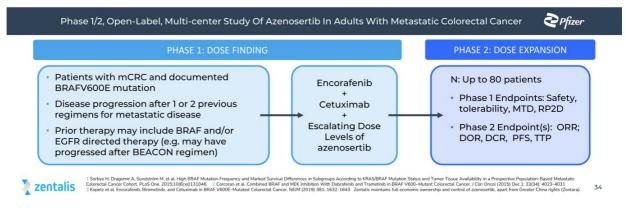
BRAF mCRC Study in Collaboration with Pfizer

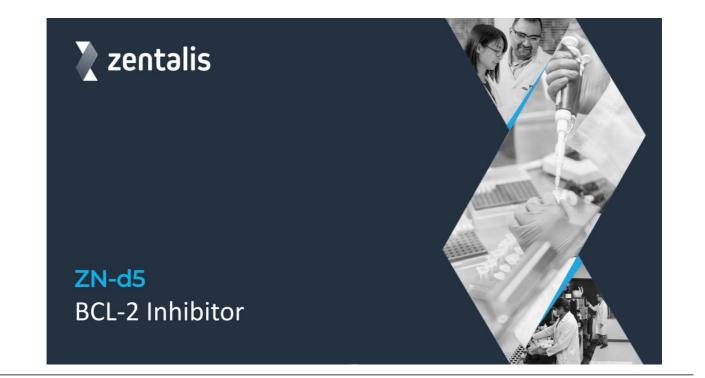
Large Patient Population...

- Up to 21% of mCRC patients have BRAF mutations (~15,000 patients per year, U.S.) with over 90% V600E¹
- Testing for BRAF mutations is routine, providing opportunity to identify patients

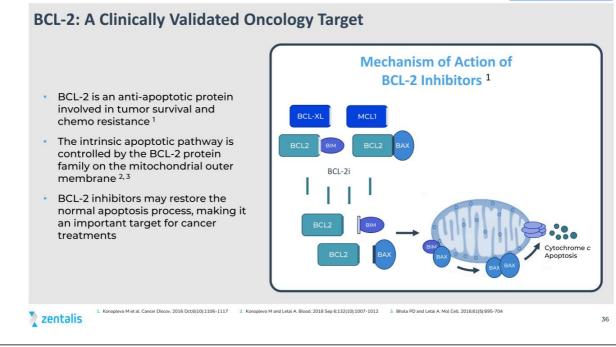
With Significant Unmet Need

- Median OS in BRAF mutant CRC patients <1 year, vs. BRAF WT >2 years²
- While targeted BRAF inhibition (e.g., vemurafenib) has been successful in melanoma with response rates >80%, this strategy has failed in CRC (OR ~5%) due to innate resistance³
- Encorafenib in combination with cetuximab (BEACON) was approved for BRAF V600E mCRC in April 2020 and is now the standard of care





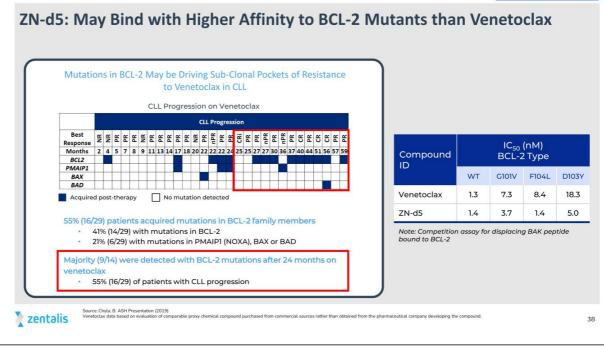




ZN-d5: A Potent BCL-2 Inhibitor Designed with Improved Selectivity for BCL-2

Compound	Affinity (Kd, nM)				IC _{so} (nM) BCL-2 Type			
ID	BCL-2	BCL-xL	MCL-	1 W1	G1	01V	F104L	D103Y
Venetoclax	0.41	28	>3000	00 1.3	7	.3	8.4	18.3
ZN-d5	0.29	190	>3000	1.4	3	5.7	1.4	5.0
								_
ZN-d5 Exhi	bits Pot	tent <i>In</i>	Vitro A	Activity	Acros	s Mult	iple Tu	mor
ZN-d5 Exhi Cell Lines	bits Pot	tent <i>In</i>	Vitro A	Activity	Acros	s Mult	iple Tu	mor
	bits Pot	tent <i>In</i>	Vitro A			s Mult	iple Tu	mor
Cell Lines				CTG IC:	₅₀ (nM)	s Mult		mor
Cell Lines	ALL	мс	CL.		50 (nM) BCL		AML	
Cell Lines		мс	CL.	CTG IC:	50 (nM) BCL			
Cell Lines	ALL	мс	CL Granta-		50 (nM) BCL		AML	





ZN-d5 Clinical Development Plan

- 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
- Preclinical combination data of ZN-d5 + azenosertib (ZN-c3) utilizing novel biology showed synergistic and additive
 activity across multiple indications in both solid and liquid tumors, often at subtherapeutic doses

Ongoing and Planned Clinical Programs					
Indication	Treatment	Trial Updates			
Non-Hodgkin's Lymphoma	ZN-d5	Continues to enroll			
AL Amyloidosis	ZN-d5	Continues to enroll			
AML	ZN-d5 & azenosertib	Trial initiated in 4Q 2022			

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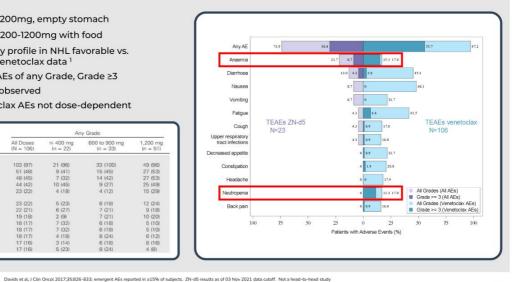


ZN-d5: Favorable Early Comparison to Venetoclax in NHL

- · ZN-d5 100-1200mg, empty stomach
- Venetoclax 200-1200mg with food
- Early toxicity profile in NHL favorable vs.
- published venetoclax data 1 Fewer AEs of any Grade, Grade ≥ 3
 - No TLS observed

 - Venetoclax AEs not dose-dependent

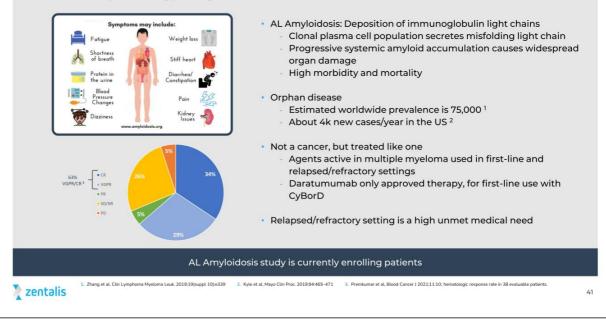
	Any Grade					
Adverse Event	All Doses (N = 106)	≤ 400 mg (n = 22)	600 to 900 mg (n = 33)	1,200 mg (n = 51)		
Emergent*						
Any event	103 (97)	21 (96)	33 (100)	49 (96)		
Nausea	51 (48)	9 (41)	15 (45)	27 (53)		
Diarrhea	48 (45)	7 (32)	14 (42)	27 (53)		
Fatigue	44 (42)	10 (45)	9 (27)	25 (49)		
Decreased 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)		



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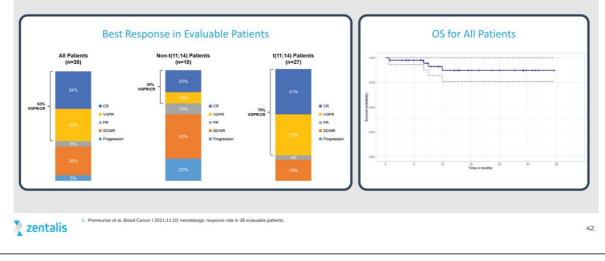
ZN-d5 in AL (Primary) Amyloidosis



BCL-2 Inhibition has Shown Robust Clinical Activity in AL Amyloidosis

• Patients with the t(11;14) translocation have a worse prognosis than the general AL amyloidosis population 1



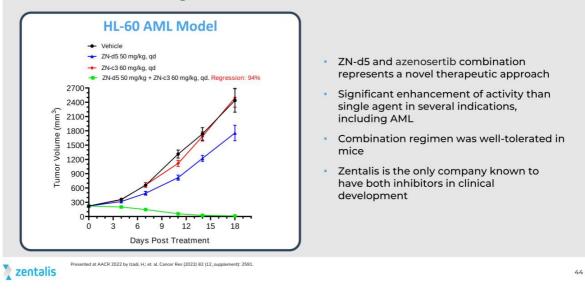




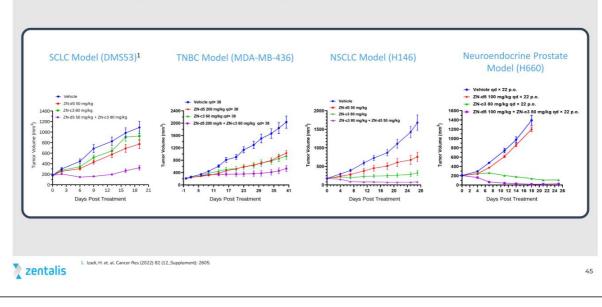




The Combination of BCL-2 and Wee1 Inhibitors Results in Synergy in Several Tumor Models Including AML



Antitumor Activity in Solid Tumor Models with the ZN-d5 + Azenosertib Combination Represents Market Expansion Opportunities

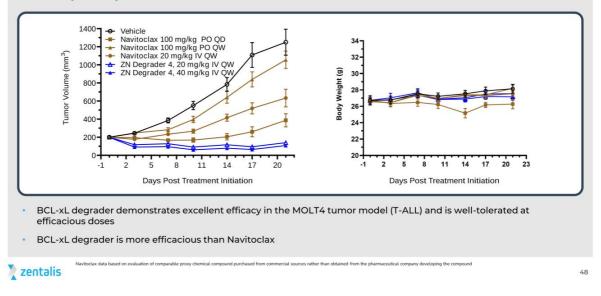




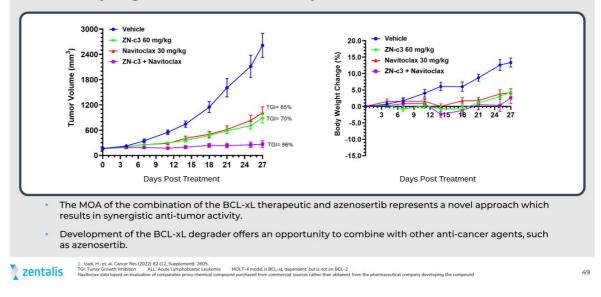
BCL-xL Degrader Background and Rationale

Therapeutic Hypothesis	 BCL-xL is a member of the anti-apoptotic BCL-2 proteins and is clinically validated. ^{1,2} Expression of BCL-xL contributes to therapeutic resistance mechanisms. ^{3,4,5} Degrading BCL-xL will induce cell death and overcome resistance mechanisms in multiple cancer types, while reducing the possibility of ontarget thrombocytopenia. 	Mitochondrion	withdrawal Developmental signals Anti-cancer
Patient Selection	 Heme malignancies. Solid tumors. 		
Internal Combination Opportunities	Azenosertib (ZN-c3; Weel inhibitor) and ZN-d5 (BCL-2 inhibitor)		
Therapeutic Window	 BCL-xL is required for platelet viability and BCL-xL inhibitors (e.g. navitoclax) are dose limited in the clinic due to on-target thrombocytopenia. ⁶ A degradation approach with a E3 ligase low expressed in platelets could help mitigate thrombocytopenia. ^{7,8} Efficacy may be achieved at lower doses and frequencies due to the catalytic MOA of degraders, further reducing the chance of thrombocytopenia and increasing TI. 		
Chemical Modality	 Heterobifunctional degrader linking BH3-binding moiety. 		Cell death
Competitive Landscape	 Multiple inhibitors and one degrader in the clinic (Ph1/2). 		our acourt
	Declared development candidate and initiated IND ena	bling activities	

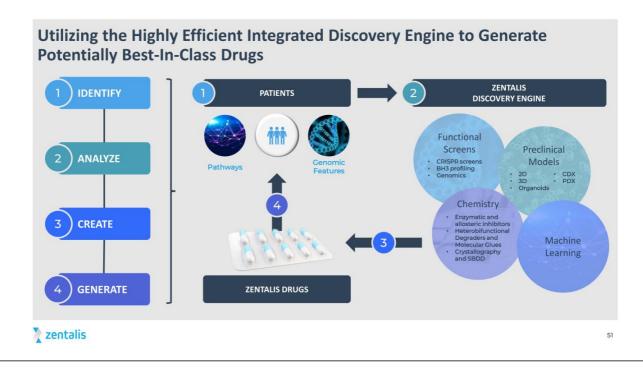
BCL-xL IV Degrader is More Efficacious than BCL-xL Inhibitor (Navitoclax) in MOLT4 (T-ALL) Models



Azenosertib Combined with a Low Dose of Navitoclax (BCL-xL Inhibitor) Results in Synergistic Anti-tumor Activity in the T-ALL model MOLT-4¹







2023 Key Milestones

LQ 2023	Initiate enrollment in the BRAF mutant colorectal cancer BEACON regimen combination clinical trial in collaboration with	2H 2023	Provide interim clinical data and declare RP2D for Phase 1/2 monotherapy trial in amyloidosis
	Pfizer	2H 2023	Provide preliminary data from clinical trial of azenosertib + ZN-d5 in relapsed / refractory
LH 2023	Provide preclinical rationale for Cyclin E1 enrichment strategy at a scientific conference		acute myeloid leukemia
LH 2023	Declare monotherapy RP2D and provide update on dose optimization activities, program timelines and potential paths to	Integrat	ed Discovery Engine
	registration	2023	Continue to advance the BCL-xL protein degrader program through IND enabling studie
H 2023	Results from Phase 1b ovarian chemotherapy combination trial, including clinical translational data on Cyclin E1 amplification / overexpression	2023	Advance ongoing research on protein degrader programs of undisclosed targets

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