

A New Era of Small Molecules for Cancer

Corporate Overview February 2025

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Company Overview

Jabez Biosciences is a **clinical-stage biotechnology company** that is developing small molecule inhibitors for the treatment of both solid and liquid cancers



JBZ-001: Our Next-Gen DHODH Inhibitor

Novel, potent, and potentially bestin-class inhibitor of DHODH that displays wide range of therapeutic activity **Clinical Development**: Phase I Clinical Trial in NHL + Solid tumors

We are actively pursuing clinical investigations in various solid and liquid cancer indications.



The Future:

Strategic Combination Therapies

The future of cancer therapy is strategic combinations. Our lead program synergizes with many FDA approved therapies.



Lead Program JBZ-001

DHODH INHIBITORS

- First and second-line treatment
- Multitude of indications
- Fast track and orphan designations
- Stable oral dosage form
- Developed by DDI at OSU Cancer Center
- Large patent portfolio

		inhibition	
Developer	Platform	IC ₅₀ (nM)	Potency
JABEZ BIOSCIENCES	JBZ-001	0.95	high
Bayer	BAY	0.97	
Servier	A-636	3.38	
ASLAN Pharmaceuticals	ASLAN003	3.91	
Sanofi	Teriflunomide	26.45	
Sanofi	Leflunomide	208.5	low
PTC Therapeutics	PTC299	686.5	

*Enzvme

Lead Program JBZ-001

Designed Mechanism OF ACTION

Exploiting cancer's deregulated metabolism

The drug candidate JBZ-001 binds to and inhibits the rate-limiting enzyme involved in the synthesis of pyrimidine nucleotides, <u>DHODH</u>. Since cancer cells rely on vast quantities of nucleotides for fast growth, they are exquisitely sensitive to DHODH inhibition.



Lead Program JBZ-001







Exhibits a stronger ability to inhibit DHODH compared to other prominent compounds.

Optimized Pharmacokinetics

Orally-bioavailable and has a very long half-life of 29 hours in circulation, enabling convenient dosing.

Enhanced Safety Profile

Has a wider therapeutic window, allowing for potentially greater efficacy without compromising safety. Efficient Manufacturing

Utilizes the wellestablished Suzuki Reaction for synthesis, enabling scalable and cost-effective production.



Variety of Powerful Therapeutic Effects

Strong preclinical data suggests JBZ-001 harbors a range of therapeutically relevant mechanisms of action.



JBZ-001 vs. Leading Competitors

	JABEZ BIOSCIENCES	BAYER	PHARMACEUTICALS		ZENSHINE	Senase THERAFEUTICS BY
Drug Candidate	JBZ-001	BAY-2402234	ASLAN-003	BREQUINAR	ZX-9021	GTX-0196
Indication(s)	Solid Tumors, NHL, MM, AML	AML	Alopecia	AML, COVID-19	Solid Tumors	Hematologic Malignancies
Development Stage	Phase I	Inactive (Phase I)	Phase II	Inactive (Phase II)	Preclinical	Preclinical
Combination Strategy	Std of Care; Targeted Tx	_	_	_	_	Undisclosed
Biochemical potency (preferred IC50 <20 nM)						Published Data
Low Cellular Shift (preferred ≤15x)						Published Data
AML MOLM-13 xenograft efficacy (QD, PO)	+38 days (10 mg/kg)	+35 days (4mg/kg)	+24 days (50 mg/kg)	+48 days (10 mg/kg)		
IP Strength						
ovided by: The Ohio State novation Strategies	e University Center for	Good	Intermediate	Poor Not Detern	nined	
			IABEZ			5

BIOSCIENCES



On top of the expected nucleotide depletion-induced cell stress, our DHODH inhibitor, JBZ-001, displays multiple mechanisms of action, opening up the possibilities to be used in **combination** with currently approved therapies.

JBZ-001's Therapeutic Potential









Biological Effect

Widescale Metabolic Disruption

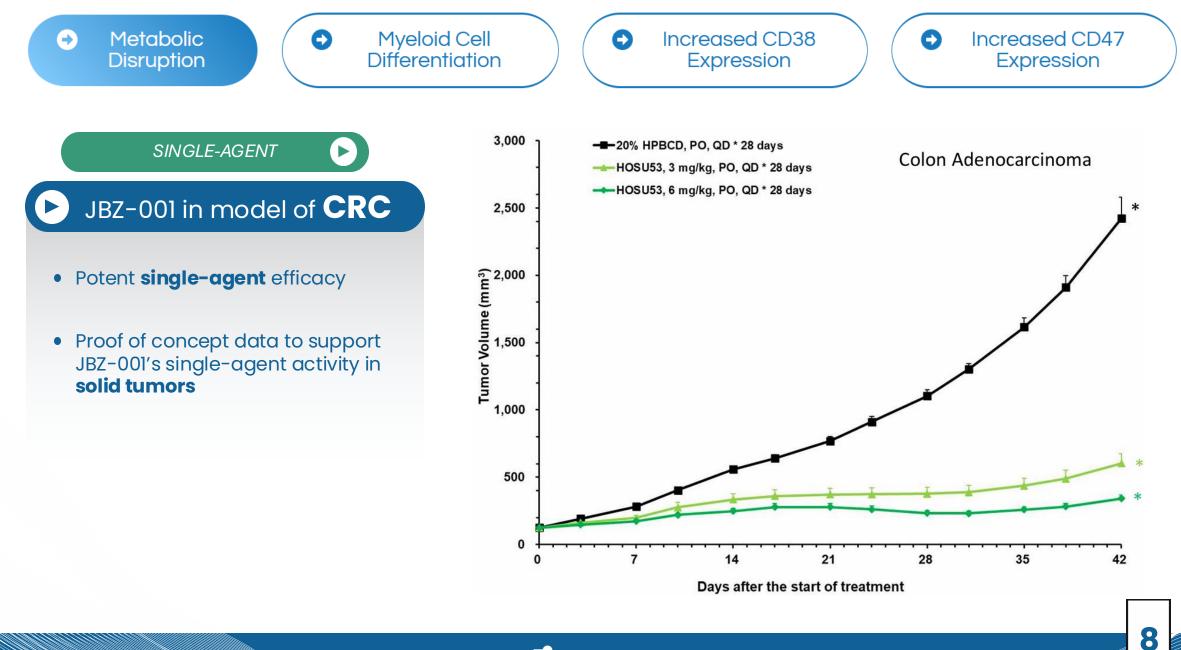
JBZ-001 inhibits the *de novo* synthesis of pyrimidine nucleotides shutting down the cell's ability to produce these essential building blocks. This induces significant metabolic stress leading to widespread cellular dysfunction and ultimately, cell death.

Therapeutic Implication(s)

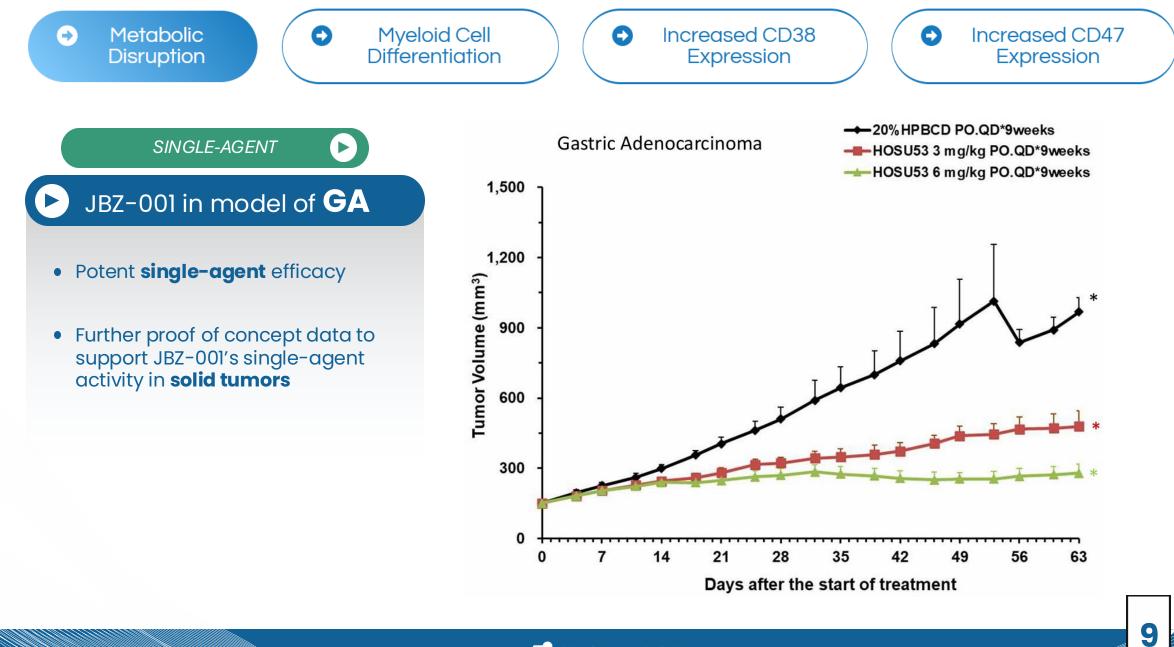
Excellent Single-Agent and Combination Therapy Potential

Not only does JBZ-001 display potent singleagent activity against **various preclinical cancer models**, but our preclinical data also suggests it synergizes effectively with other approved treatments, offering a powerful combination strategy.

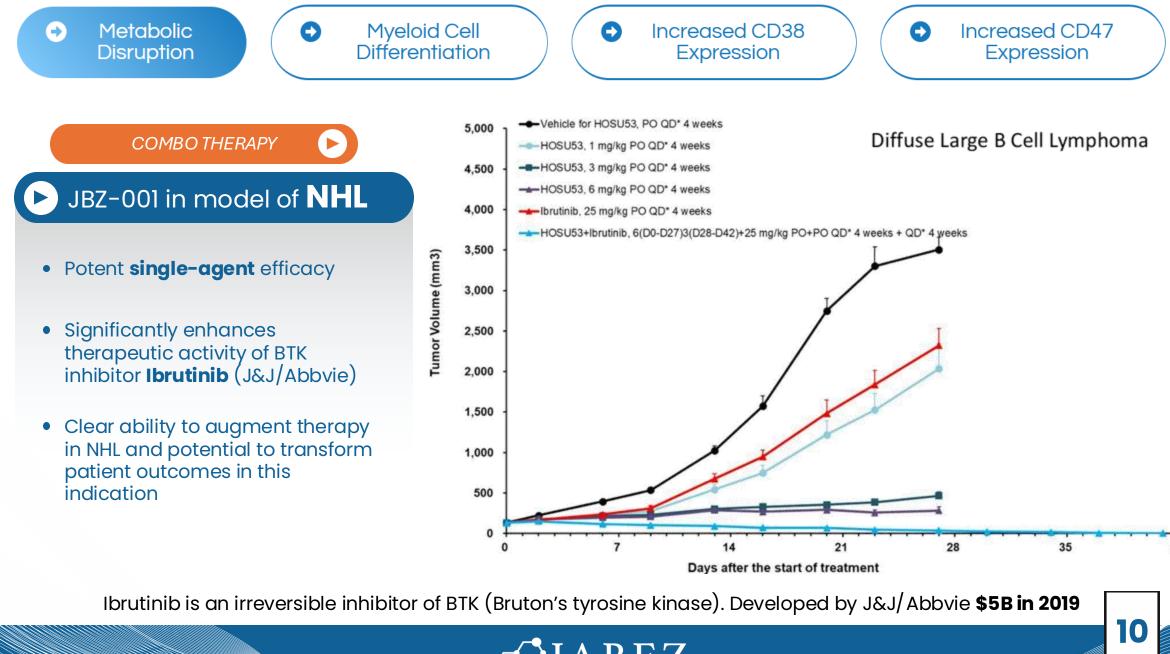


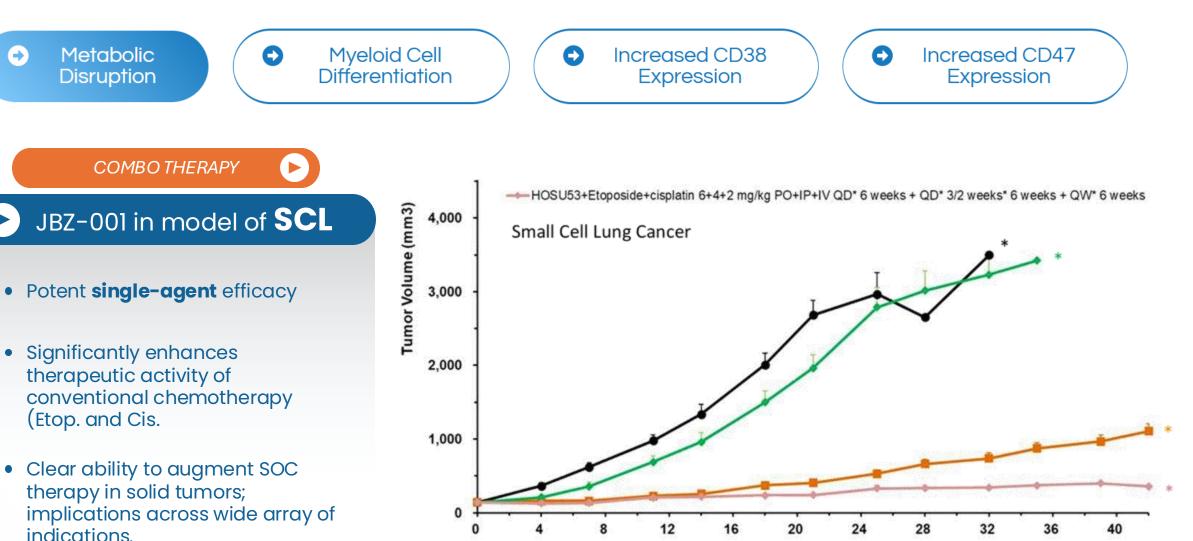












Days after the start of treatment

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*SOC = Standard of Care





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Biological Effect

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Myeloid Cell Differentiation

JBZ-001 induces the differentiation of immature myeloid cells, driving them toward a more mature, functional state. This is evidenced by morphological changes in AML cells (shown below) and enhanced phagocytic activity in the THP-1 myeloblast cell line, both hallmark indicators of cellular differentiation.

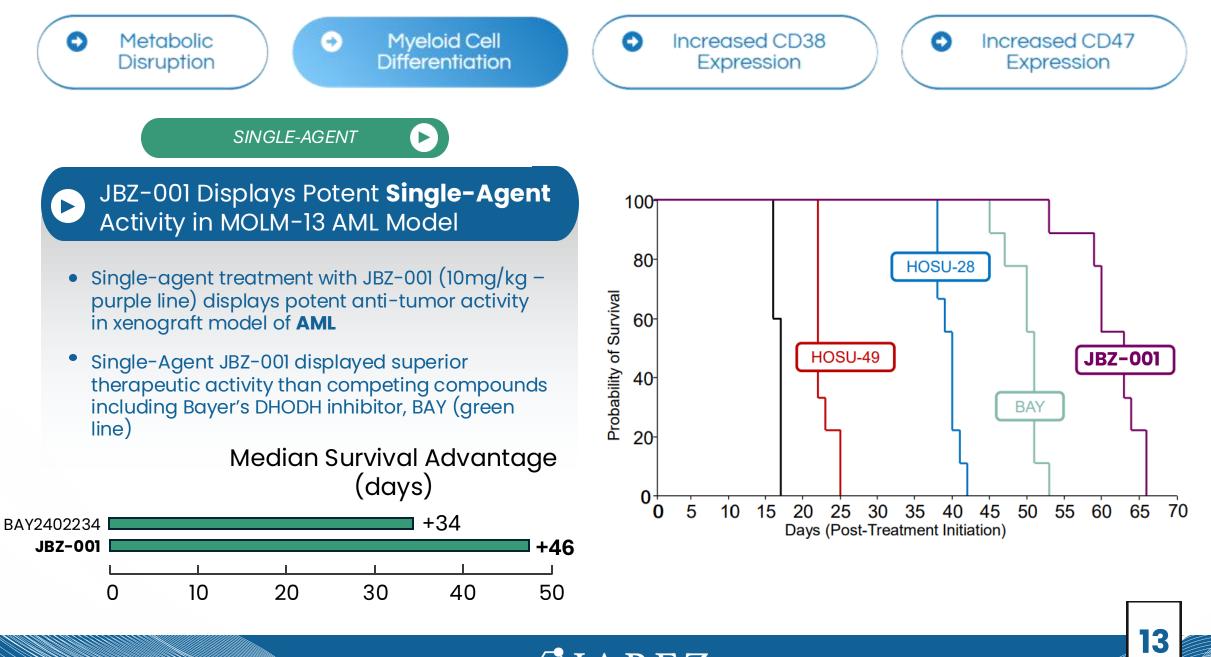
Therapeutic Implication(s)

O

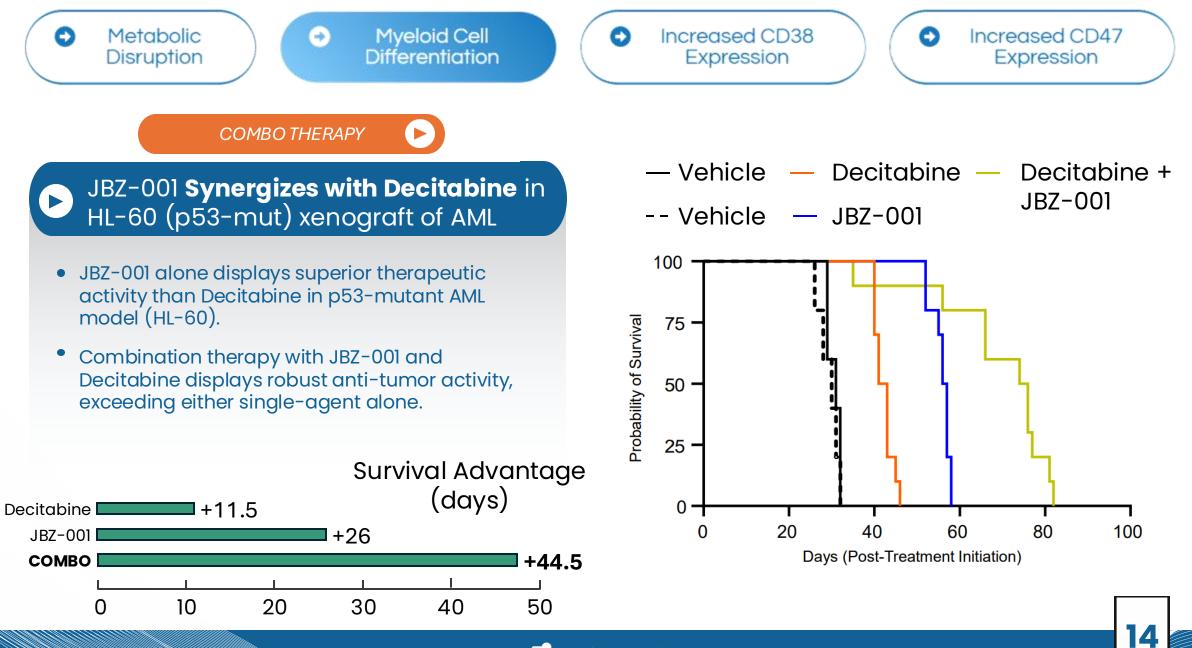
Targeted Therapy for AML & Combination w/ Immunotherapies

By promoting the differentiation of immature myeloid cells, JBZ-001 holds significant therapeutic potential for **treating myeloproliferative disorders such as AML**. Also, this can suppress MDSC activity, augmenting several forms of immunotherapy.

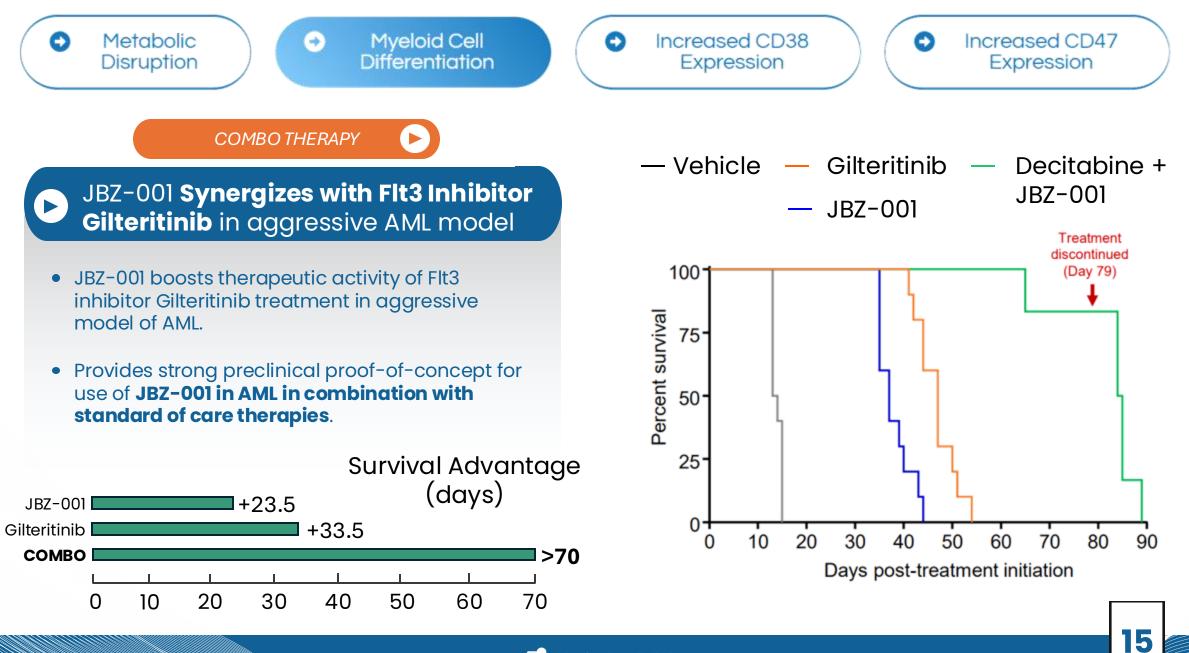




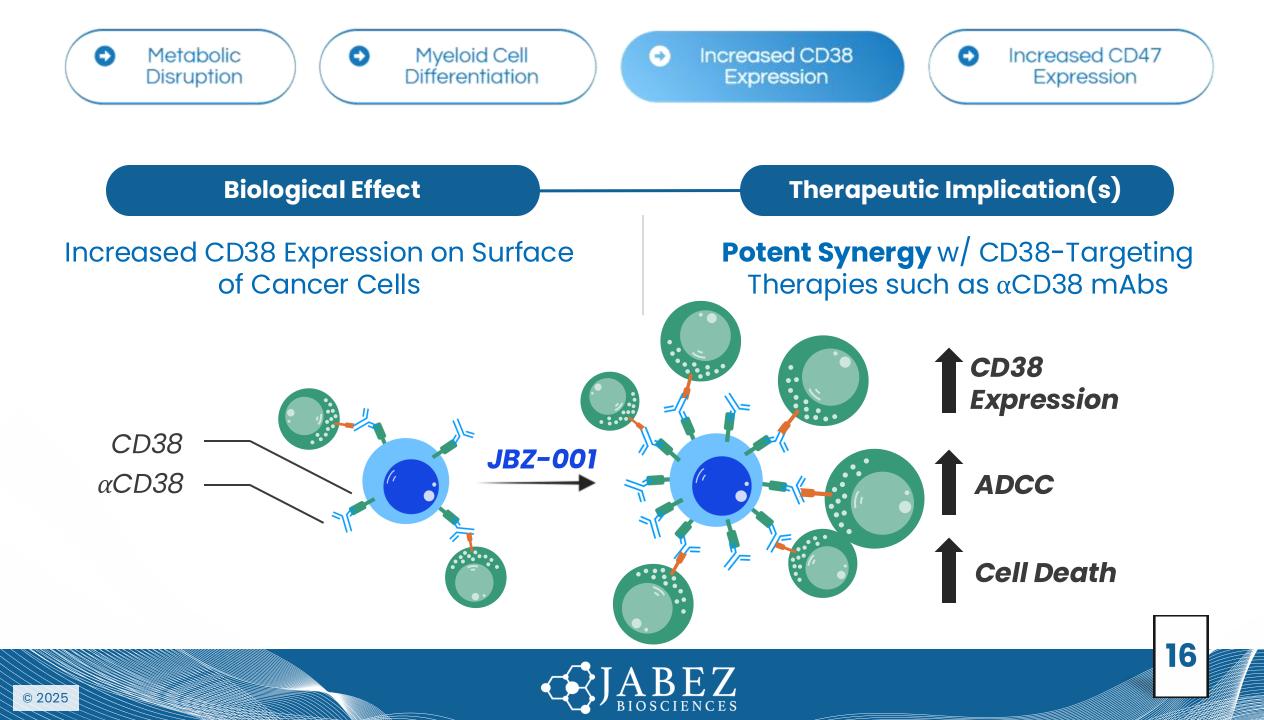
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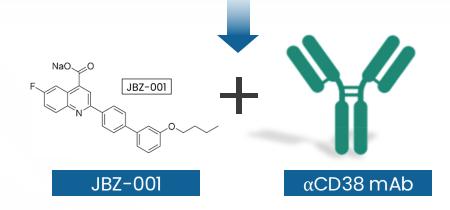
Increased CD38 \mathbf{e} Expression

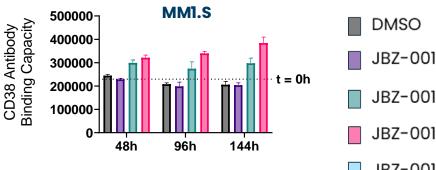
Increased CD47 Expression

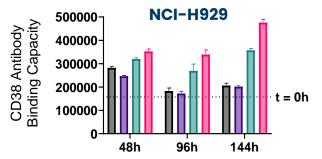
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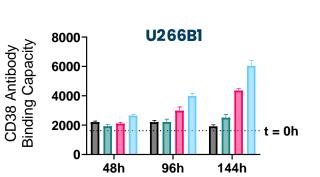
JBZ-001 Increases CD38 Expression

- Treatment with low dose (10-100nM) JBZ-001 significantly increases surface expression of CD38 on various human MM cell lines
- Suggests rational combination with aCD38 \bullet targeting therapies such as monoclonal antibodies (mAbs)

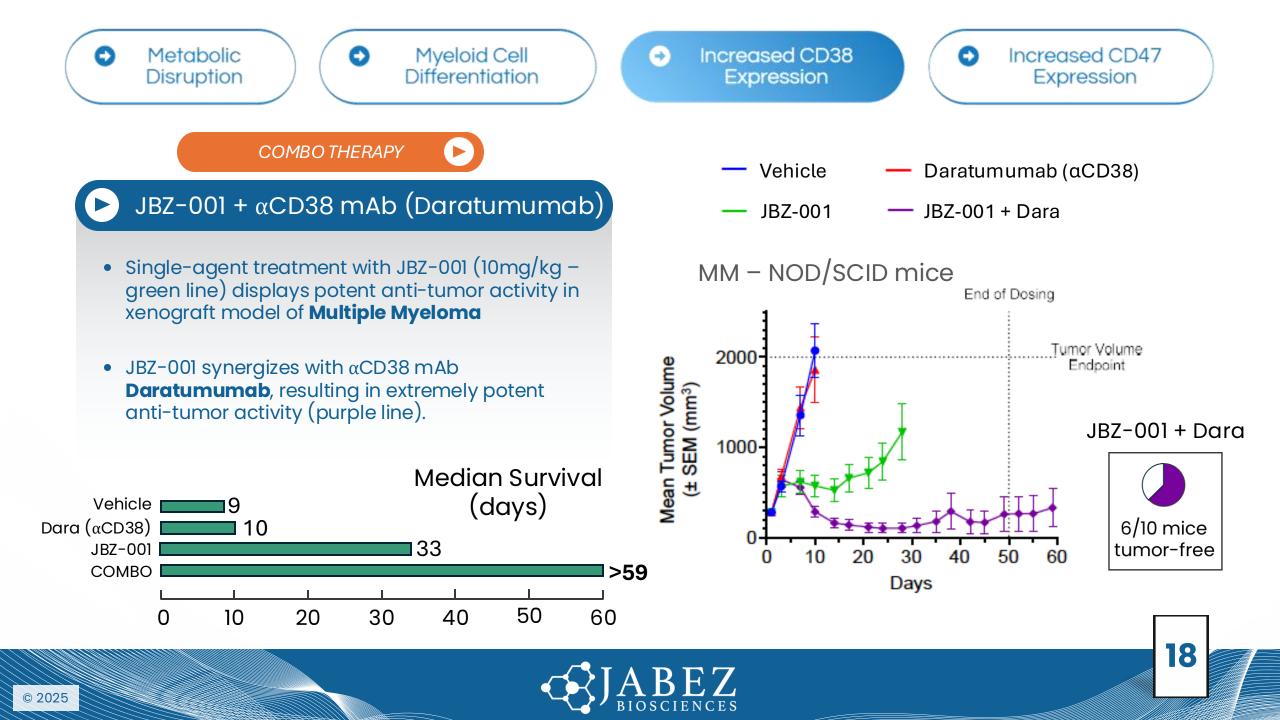


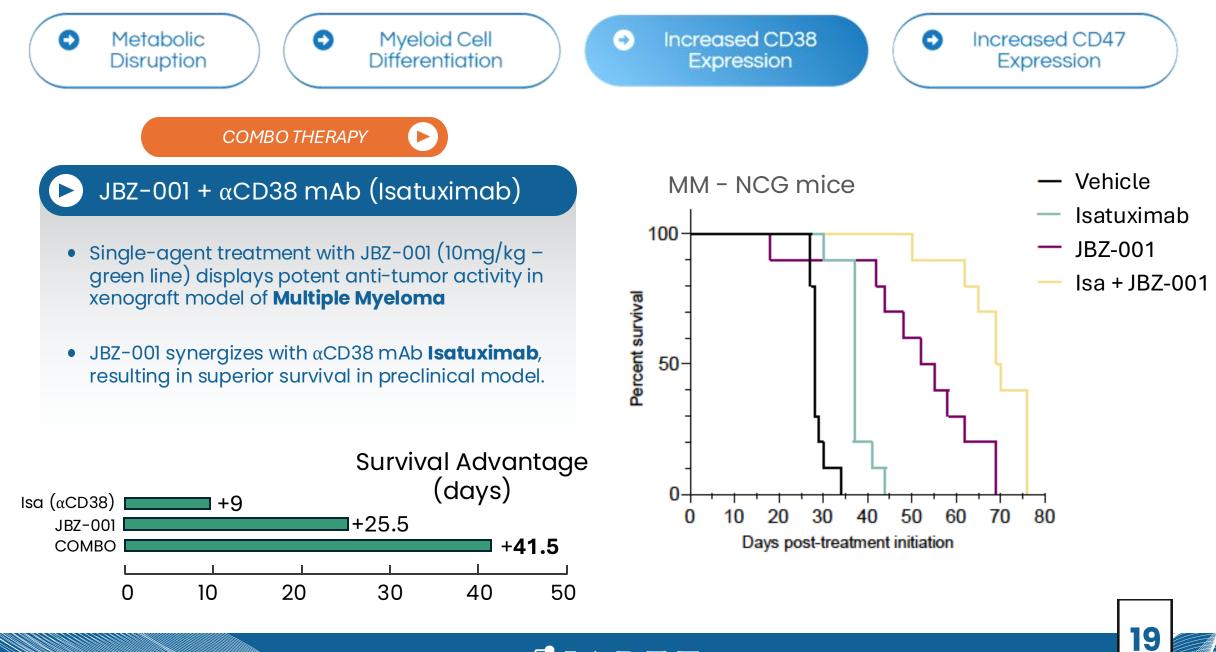












JABEZ BIOSCIENCE





Increased CD38 Expression Increased CD47 Expression

Combination Therapy Targets



\$9.7B USD in 2023^{+}

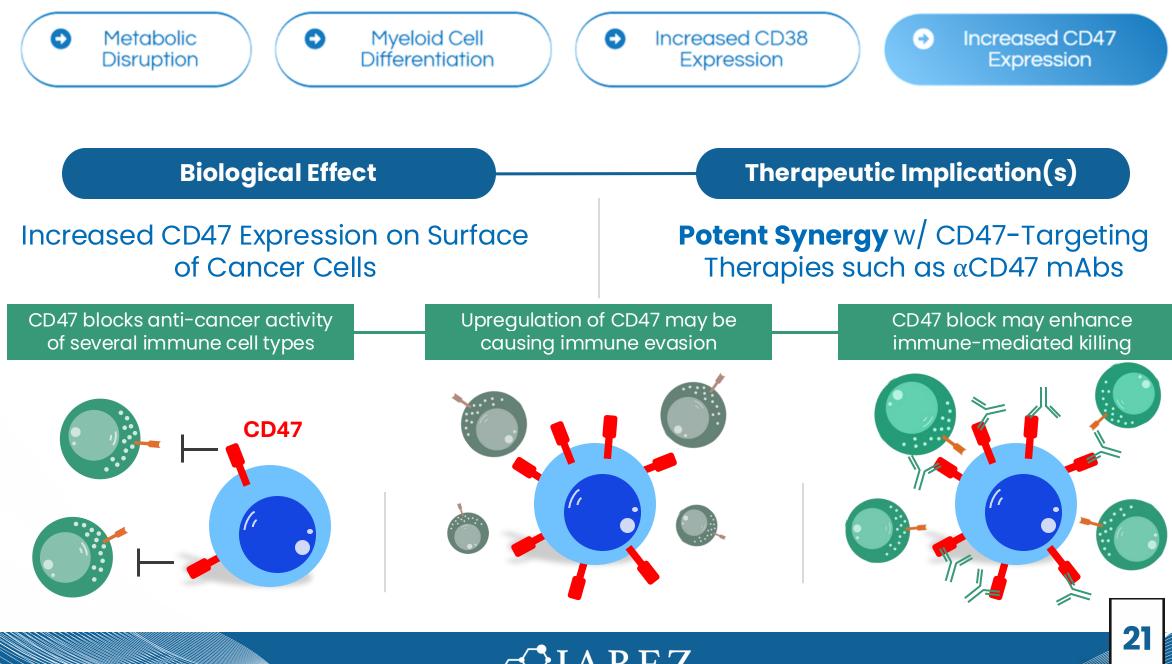
- 22% increase from 2022⁺
- Projected to hit \$14.7B by 2030



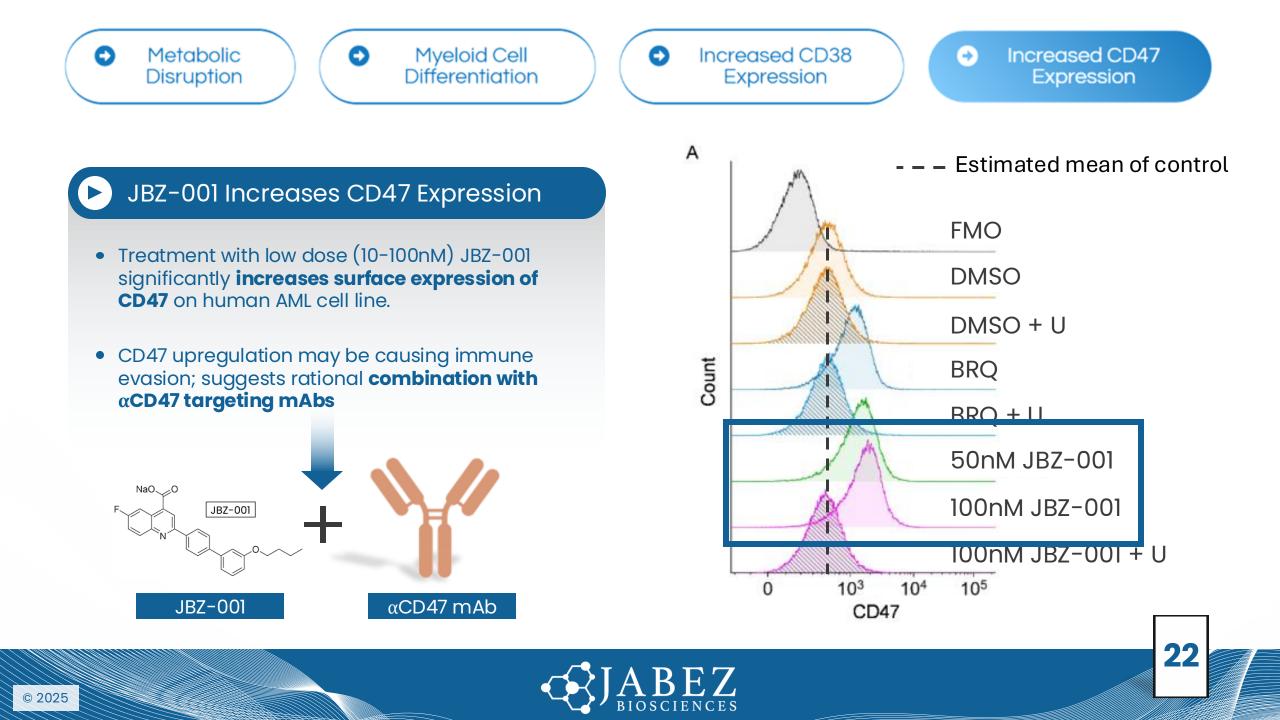
\$412M USD in 2023

•37% increase from 2022^{+}







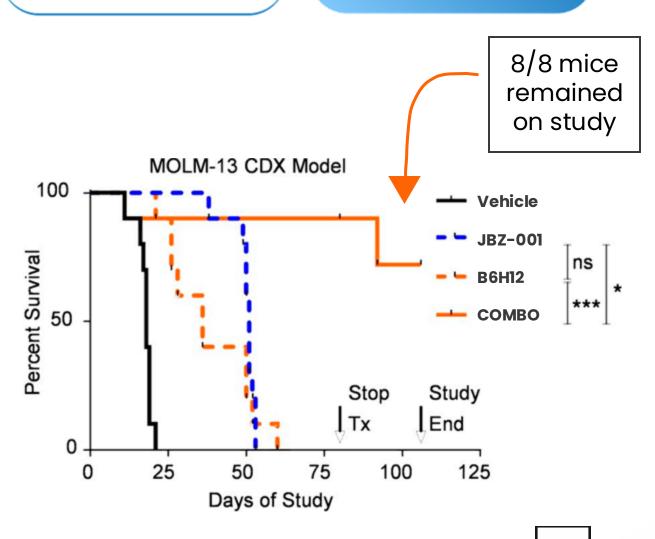




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JBZ-001 Increases CD47 Expression

- Single-agent treatment with JBZ-001 (10mg/kg dotted blue line) displays potent anti-tumor activity in xenograft model of AML
- Combination of JBZ-001 and the αCD47 mAb B6H12 resulted in **impressive**, prolonged survival, with all mice surviving to study end (>80 days)





Our Clinical Development

Phase 1 Clinical Study

JBZ-001 (Advanced Solid and Heme Malignancies)

+ S.O.C. chemotherapy

We are soon to begin a phase 1, open-label, doseescalation and expansion, first-in-human trial to evaluate safety, tolerability, pharmacokinetics, pharmacodynamics, and preliminary efficacy of JBZ-001, in patients with advanced solid and hematological malignancies

Study Details

Ph1a to include all comers solid tumor + non-Hodgkins Lymphoma (NHL)

• Ph 1 pt 1: Safety and tolerability, prelim efficacy; MTD, 15-25 patients

• Phase 1 part 2: Dose Escalation; up to 4-indications, OBD, 40-80+ patients

• Advanced/metastatic solid tumors may include but are not limited to small cell lung cancer, colorectal cancer, pancreatic cancer, Gastric cancer

• Planned dose Expansion into relapsed/refractory heme malignancies multiple myeloma (MM), Acute myeloid leukemia (AML), Myelodysplastic syndrome (MDS)



Intellectual Property

Patent Title	Methods and compositions for inhibition of dihydroorotate dehydrogenase	Methods and compositions for inhibition of dihydroorotate dehydrogenase in combination with an anti-CD38 therapeutic agent	Compositions for use for the inhibition of dihydroorotate dehydrogenase	Compositions for use in the inhibition of dihydroorotate dehydrogenase	Methods and compositions for inhibition of dihydroorotate dehydrogenase	Methods and compositions for inhibition of dihydroorotate dehydrogenase in combination with an anti- CD47-SIRPαtherapeutic agent	Methods and compositions for inhibition of dihydroorotate dehydrogenase
Scope of composition and protected IP	compound, HOSU-3, as well as the clinical candidate, HOSU-53.		Discloses small molecule compositions inhibiting DHODH, including a series of molecules tested during lead optimization.	Discloses small molecule compositions inhibiting DHODH, including a series of molecules tested during lead optimization.	DHODH, including a series of molecules tested	therapy strategies using	Formulation Patent
Filing Date Appln No. Pub. No. Pending National Stage Applns	2019-06-22 PCT/US2019/038622 WO2019246603A1 (*PPH Accelerated Patent Prosecution) AU*, CA*, KR*, SG*, US*	2020-12-26 PCT/US2020/067074 WO2021134045A1 AU, CA, CN, EP, JP, KR, US	2020-12-22 PCT/US2020/066682 WO2021133831A1 EP, US	2020-12-22 PCT/US2020/066684 WO2021133833A1 EP, US	2020-12-26 PCT/US2020/067065 WO2021134042A1 AU, CA, CN, EP, JP, KR, US	2022-06-30 PCT/US2022/035834 WO2023278778A1 CN, EP, HK, JP, US	2024-04-26 Confidential TBD TBD
Allowed/ Issued Applns	AU, CN, EP (ES, UK, UP), HK, IL, IN, JP, MX, US1, US2, ZA	-	-	_	-	-	_



Technology Rights – OSIF Technologies

T2018-003-"Targeted molecules for the treatment of cancer"

T2020-047 - "Combination therapy strategies using DHODH inhibitors and antibodies"

T2021-101 - "DHODH inhibitor compositions using 6-membered heteroaryl ring replacements"

T2021-102- "DHODH inhibitor compositions using 5-membered heteroaryl ring replacements"

T2021-103 - "DHODH inhibitor compositions using substitutions of central phenyl ring"

T2021-272 - "Combination Strategies for DHODHi"

T2024-176- "Selection of lysine salt of HOSS-53 for clinical development."

T2022-043-"Combination strategies with dihydroorotate dehydrogenase inhibitors and SLAMF7 (CD319) therapeutic antibodies in leukemia"

T2023-185 - "Uridine supplementation increases tolerability of treating with DHODH inhibitors"

T2024-165-" A series of novel C-3 substituted quinoline derivatives as potent biochemical dihydroorotate dehydrogenase (DHODH) enzyme inhibitors."

T2024-166—" A series of C-3 substituted and C-4 carboxylic acid or its bioisosters quinoline derivatives as potent biochemical dihydroorotate dehydrogenase (DHODH) enzyme inhibitors."

T2024-167-" A series of novel hydantoin and thiohydantoin derivatives as potent biochemical dihydroorotate dehydrogenase (DHODH) enzyme inhibitors."

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T2024-168—" A series of novel amide derivatives as potent biochemical dihydroorotate dehydrogenase (DHODH) enzyme inhibitors."



Jabez Biosciences LEADERSHIP



Tamara Jovonovich, CEO; PhD—20 years in pharmaceutical development; 15 FDA drug approvals Robert Lewis, COO; 30 years in pharmaceutical development; 30 FDA drug approvals Brian Cogley, CFO; Over 15 years leading companies in various industries including life sciences and financial services





Thank You!