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 25, 2021

ALKERMES PUBLIC LIMITED COMPANY

(Exact name of registrant as specified in its charter)

Ireland
(State or other jurisdiction of incorporation)

001-35299 (Commission File Number)

98-1007018 (IRS Employer Identification No.)

Connaught House, 1 Burlington Road
Dublin 4, Ireland D04 C5Y6

(Address of principal executive offices)

	Registran	t's telephone number, including area cod	le: + 353-1-772-8000		
	ck the appropriate box below if the Form 8-K filing is integral Instruction A.2. below):	nded to simultaneously satisfy the filing ob	ligation of the registrant under any of the following provisions (see		
	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)				
	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))				
Secu	rities registered pursuant to Section 12(b) of the Act:				
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered		
	Ordinary shares, \$0.01 par value	ALKS	Nasdaq Global Select Market		
	cate by check mark whether the registrant is an emerging g securities Exchange Act of 1934 (§240.12b-2 of this chapt		the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of		
			Emerging growth company $\ \Box$		
	emerging growth company, indicate by check mark if the unting standards provided pursuant to Section 13(a) of the		ed transition period for complying with any new or revised financial		

Item 7.01 Regulation FD Disclosure.

On March 25, 2021, Alkermes plc hosted a virtual Investor Day. A copy of the presentation displayed during the Investor Day webcast is furnished as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated in this Item 7.01 by reference.

The information in this Item 7.01, and in Exhibit 99.1 furnished herewith, shall not be deemed to be "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 such information be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit	
No.	Description
99.1	Alkermes plc investor presentation displayed on March 25, 2021.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURE

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.

ALKERMES PLC

Date: March 25, 2021

By: /s/ David J. Gaffin

David J. Gaffin Senior Vice President, Chief Legal Officer, Chief Compliance

Officer and Secretary

Alkermes Investor Day

March 25, 2021



Forward-Looking Statements and Non-GAAP Financial Information

ts set forth in this presentation constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, but not limited to, statements concerning: the company's expectations with respect to its current and future financial and operating performance, business plans or prospects, including revenue growth from its current commercial product portfolio and the addition of potential new revenue streams, and the company's plans and ability to manage for growth and profitability, including achievement of its stated profitability targets, through revenue growth, expense management and optimization of its cost structure and exploration of strategic opportunities; the potential therapeutic and commercial value of the company's marketed products and development candidates; expectations regarding patient life for the company's products; expectations regarding the effectiveness and cost-efficiency of the company's research and development ("R&D") strategy and the potential of the company's R&D capabilities, including its molecule design and engineering capabilities; timelines, plans and expectations for development activities relating to the company's products and development candidates, including (i) for nemvaleukin alfa ("nemvaleukin"), plans to initiate studies in mucosal melanoma and platinum-resistant ovarian cancer to support potential registration, further explore the potential synergistic benefits of nemvaleukin to existing cancer treatments, and pursue strategic collaborations, (ii) for ALKS 1140, plans to initiate phase 1 first-inhuman trials, (iii) and for the company's other early-stage programs, including its orexin program, its engineered cytokine platform, including IL-12 and IL-18, and its HDAC inhibitor platform, plans to conduct proof of concept studies and/or other enabling activities, advance towards characterization and nomination of lead candidates, and identify and prioritize initial potential indications; the company's expectations relating to regulatory activities and interactions, including the U.S. Food and Drug Administration's ("FDA") PDUFA target action date for the company's new drug application ("NDA") for LYBALVI and plans to advance discussions on registration plans for nemvaleukin; expectations concerning commercial activities relating to the company's products and product candidates, including preparations for the potential commercial launch of LYBALVI. The company cautions that forward-looking statements are inherently uncertain. These risks, assumptions and uncertainties include, among others: the impacts of the origing COVID-19 pandemic and continued efforts to mitigate its spread on the company's business, results of operations or financial condition; the unfavorable outcome of Itigation, including so-called "Paragraph IV" litigation and other patent litigation, related to any of the company's products, which may lead to competition from generic drug manufacturers; the FDA may not agree with the company's regulatory approval strategies or components of the company's NDAs, including clinical trial designs, conduct and methodologies, manufacturing processes and facilities, or the adequacy of the data or other information included in the company's regulatory submissions to support the FDA's requirements for approval, and may make adverse decisions regarding the company's products, including with respect to the NDA for LYBALVI, the company's development activities may not be completed on time or at all; the results of the company's development activities may not be positive or predictive of real-world results, and preliminary data from ongoing studies may not be predictive of future or final data from such studies, results of future studies or real-world results; the company and its licensees may not be able to successfully commercialize their products or support growth of revenue from such products; there may be a reduction in payment rate or reimbursement for the company's products or an increase in the company's financial obligations to governmental payers; the company's products may prove difficult to manufacture. be precluded from commercialization by the proprietary rights of third parties, or have unintended side effects, adverse reactions or incidents of misuse; and those risks, assumptions and uncertainties described under the heading 'Risk ctors" in the company's Annual Report on Form 10-K for the year ended Dec. 31, 2020 and in subsequent filings made by the company with the U.S. Securities and Exchange Commission ("SEC"), which are available on the SEC's website at www.sec.gov and on the company's website at www.alkermes.com in the "Investors—SEC filings" section. Existing and prospective investors are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. Except as required by law, the company disclaims any intention or responsibility for updating or revising any forward-looking statements contained in this presentation.

Non-GAAP Financial Measures: This presentation includes information about certain financial measures that are not prepared in accordance with generally accepted accounting principles in the U.S. (GAAP), including non-GAAP net income and EBiTDA. These non-GAAP measures are not based on any standardized methodology prescribed by GAAP and are not necessarily comparable to similar measures presented by other companies. Reconciliations of non-GAAP financial measures to the most directly comparable GAAP financial measures, to the extent reasonably determinable, can be found in the Appendix of this presentation.

Note. Regarding. Trademarks: The company and its affiliates are the owners of various U.S. federal trademark registrations (*) and other trademarks (**), including ARISTADA*, ARISTADA*, INITIO*, VIVITROL*.

VIMERITY* is a registered trademark of Biogen MA Inc., used by Alkammes under license, any other trademarks referred to in this presentation are the property of their respective owners. Appearances of such other trademarks herein should not be construed as any indicator that their respective owners will not assert their rights thereto.



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Scientific and Business Excellence: Focused on New Approaches to Creating Value

Richard Pops Chief Executive Officer



Diversified Biopharmaceutical Company With Proven Drug Development and Commercialization Capabilities

Significant, diverse revenues driving >\$1B topline and positioned for growth









Proprietary commercial products that target large markets in addiction and psychiatry

Additional potential revenue streams as new products launch* and grow

Pipeline of novel development candidates designed to target

significant unmet needs

Oncology

Nemvaleukin alfa

- · Phase 2
- · Advanced solid tumors

IL-12

- · Preclinical
- · Advanced solid tumors

Neuroscience

ALKS 1140

- · IND-enabling
- Neurodegenerative and neurodevelopmental disorders

Orexin 2R Agonist

- Preclinical
- Narcolepsy

Focus on Profitability

Focus on driving cost efficiencies and operating leverage while investing in the long-term growth of high-potential commercial and development-stage products

*LYBALVI NDA under FDA review; PDUFA June 1, 2021

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Evolution of Alkermes R&D Strategy

Legacy R&D Strategy

Target evaluation driven by potential to add new medical value to established medications

Enabled rapid advancement to late-stage development

Yielded VIVITROL®, ARISTADA®, VUMERITY®, LYBALVI™*

Advanced formulation science, prodrug chemistry and drug delivery technologies applied to improve established pharmacology

*LYBALVI NDA under FDA review; PDUFA June 1, 2021

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Evolution of Alkermes R&D Strategy: Focus & Management New Molecules Leveraging Scientific Capabilities

New R&D Strategy

Focus:

Two areas of scientific expertise: Neuroscience and Oncology Programs with validated biology rationale Leverage established small molecule and protein design capabilities

Management:

Utilize an integrated approach to target evaluation Design development programs to provide key data early Prioritize and allocate resources based on data

Scientific Excellence

Molecular design,
medicinal chemistry and
protein engineering
expertise applied to
develop novel molecules
to address unmet
needs in neuroscience
and oncology

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Value Enhancement Plan: Growth, Efficiency and Profitability

Value Enhancement Plan

Establishes clear profitability targets

Provides framework for capital allocation decisions and prioritization of investments

Focuses investment on highest-ROI opportunities emerging from new R&D platform

Incorporates feedback from shareholders, external advisors and peer-group benchmarking data

Management and governance focused on growth, efficiency, and profitability

Business Excellence

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Scientific & Business Excellence Drive Enterprise Value



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Consistent With Alkermes' Purpose and Values

Our purpose



Our values

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Today's Agenda

VALUE CREATION

Innovation, Growth and Profitability — Blair Jackson, Executive Vice President and Chief Operating Officer

ALKERMES' NEW R&D MODEL

Optimizing for Success — Craig Hopkinson, M.D., Executive Vice President and Chief Medical Officer Focus on Innovative Molecular Design — Markus Haeberlein, Ph.D., Senior Vice President, Research

ONCOLOGY

Nemvaleukin alfa: Clinical Data Updates — Jessicca Rege, Ph.D., Vice President, Clinical Research, Oncology

Nemvaleukin alfa: Preclinical Research — Heather Losey, Ph.D., Senior Director, Research, Oncology

Tumor-Targeted Split IL-12 Fusion Protein — Josh Heiber, Ph.D., Principal Scientist, Research, Oncology

NEUROSCIENCE

Selective HDAC Inhibitors — Markus Haeberlein, Ph.D., Senior Vice President, Research

Orexin 2 Receptor Agonists — Brian Raymer, Ph.D., Senior Director, Research Project Leadership and Strategy

Q&A

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Value Creation at Alkermes: Innovation, Growth and Profitability

Blair Jackson Chief Operating Officer



Strong Operational Foundation to Drive Value Creation

Revenues:

Diverse and positioned for growth



Commitment to Profitability:

Focused on organizational efficiency and cost management



Capital Allocation:

Focused on highest-ROI opportunities



Strong Corporate Governance:

Board refreshment, independence and oversight







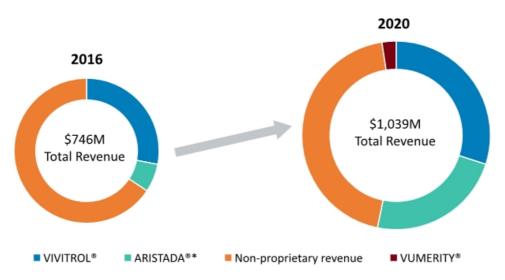
^{*2021} reflects the midpoint of our NGNI expectations. These expectation disclaims any obligation to update or reaffirm these expectations. **Reconciliations of non-GAAP financial measures to the most directly NGNI: Non-GAAP net income

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Revenues:

Growing Commercial Products Serving Large Markets

Topline Growth and Diversification Reflect Evolving Business



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^{*} Inclusive of ARISTADA INITIO*.
**VUMERITY* developed by Alkermes and licensed to Biogen.

Expected Growth Drivers

		Indications	2020 Net sales CAGR	Patent Life
Current proprietary	Vivitro1° (naltrexone for extended-release injectable suspension)	Alcohol dependence (AD) Prevention of relapse to opioid dependence (OD) following opioid detoxification	\$311M 23% ₂₀₁₅₋₂₀₁₉	2029*†
commercial products	ARISTADA aripiprazole laurusii superion suurisi saparion suurisi sa	Schizophrenia	\$241M 50% 2016-2020	2035
Proprietary candidate under FDA review; PDUFA June 1	LYBALVI* classifier and certal/pilot technique to the device and certal/pilot technique to the device and certain	Schizophrenia Bipolar I disorder	Potential launch in 2021	2031
Licensed Product (royalty & manufacturing revenue)	VUMERITY* (diroximel furnarate) Manuscripts (Commercialized by Biogen)	Relapsing forms of multiple sclerosis (MS)	\$23M Launched in Q4'19	2033 [†]

^{*}Under the terms of a settlement and license agreement entered into in July 2019 with Amneal Pharmaceuticals LLC ("Amneal"), Alkermes granted Amneal a non-exclusive license under certain patents covering VIVITROL, including the remaining patent covering VIVITROL in the U.S., to market and sell a generic formulation of VIVITROL in the U.S. beginning sometime in 2028 or earlier under certain circumstances.

† Subject to Paragraph IV certification related to an ANDA seeking FDA approval of a generic version. A patent infringement lawsuit has been filled against the Paragraph IV filer in response.

Full prescribing information for ARISTADA may be found at www.aristada.co

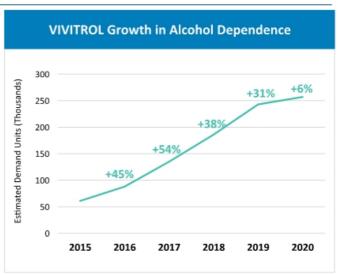
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Full indication and prescribing information for VIVITROL may be found at www.vivitrol.com

VIVITROL®: Growth in Opioid Dependence and Alcohol Dependence



COVID-19 interrupted 5 consecutive years of strong brand growth

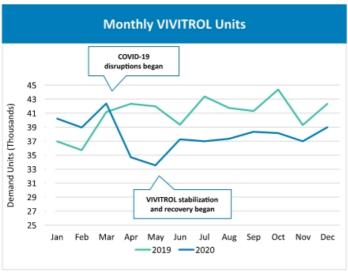


Alcohol dependence indication – strong source of recent growth

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VIVITROL®: Anticipated Recovery Following COVID-19 Disruption



*Full indication and prescribing information for VIVITROL may be found at www.vivitrol.com

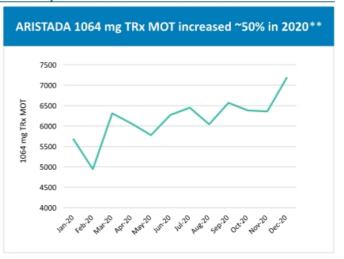
- Alcohol dependence*: Resumed growth as new patient starts rebounded from pandemic lows in Q2'20
- Opioid dependence*: Volumes have stabilized but continue to be impacted by COVID-19-related disruptions to the treatment landscape
 - Reduced patient capacity and treatment services at settings of care where people commonly undergo opioid detoxification (e.g. residential treatment centers, correctional facilities)
 - VIVITROL volume expected to regain growth as access to care improves

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ARISTADA®: Strong Growth Driven by Two-Month Dose





Strong performance reflects favorable product characteristics

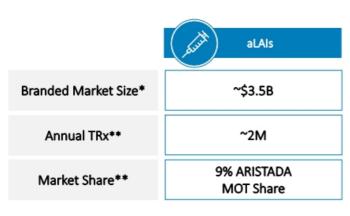
Growth of 2-month 1064 mg dose reflects differentiated value proposition

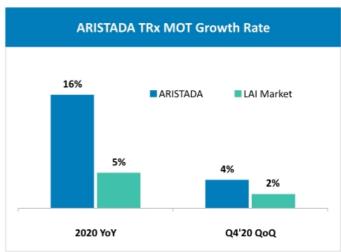
* Inclusive of ARISTADA INITIO*; **TRx Data: IQVIA NPA data Dec R3; MOT: Months of therapy

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ARISTADA®: Growth Outpaced Atypical Long-Acting Injectable (aLAI) Antipsychotic Market





[&]quot;Includes ARISTADA", Abilify Maintena" (estimated sales), Invega Sustenna/Trinza", Risperdal Consta" and Perseris"
"1 IQVIA NPA Audit.
MOT: Months of therapy

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LYBALVI™*: Potential New Revenue Driver in Oral Atypical Antipsychotic Market

- Daily oral investigational antipsychotic designed to offer efficacy of olanzapine for adults with schizophrenia and adults with bipolar I disorder
 - Addition of samidorphan intended to mitigate olanzapine-associated weight gain
- PDUFA date June 1, 2021**
- · Anticipated launch H2 2021



Alkermes Value Proposition

- Drive operating leverage from established psychiatry commercial infrastructure
- · Expected to be accretive in year 2 of launch

*The brand name LYBALVI** has been conditionally accepted by the FDA and will be confirmed upon approval.

ENLIGHTEN-2 Phase 3 Results

57%

higher mean percent weight change at six months for patients who received olanzapine vs. LYBALVI

the risk of clinically meaningful weight gain

2.0x

(≥10%) from baseline (29.8% for olanzapine vs. 17.8% for LYBALVI)

ENLIGHTEN-2: Multicenter, double-blind, randomized, phase 3 study that evaluated the weight gain profile of LYBALVI (ALKS 3831) compared to olanzapine over six months in 561 patients with stable schizophrenia.

Most common adverse events for LYBALVI: weight gain, somnolence & dry mouth. Most common adverse events for olanzapine: weight gain, somnolence & increased appetite.



Launch Planning

- Target well-defined healthcare provider call universe at launch
- Implement patient access programs designed to mitigate payer restrictions early in launch

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^{**} NDA resubmission under review following FDA Complete Response Letter and records requests relating to manufacturing of LYBALVI

Oral Atypical Antipsychotic (AAP) Markets Represent Large Opportunities

	ORAL AAPS SCHIZOPHRENIA*	ORAL AAPS BIPOLAR I DISORDER
Branded Market Size ¹	\$1.5B	\$1.7B
Annual TRx ²	~15M	~15M [†]
Commercial Payer % ³	20%	39%
Market Share ⁴	21% olanzapine	12% olanzapine

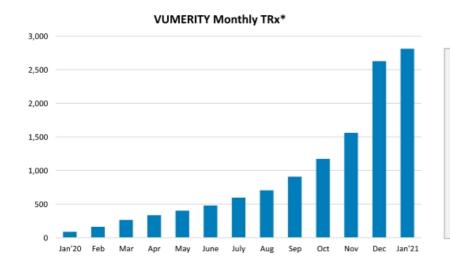
~70K treatment switches occur

15% olanzapine NBRx growth year-over-year6

¹IQVIA reported sales (NSP Audit Dec 2020) factored by indication using IQVIA reported indication mix (SOB Dec 2020); IQVIA reported sales are higher than manufacturer reported net sales because ICVIA does not incorporate all gross-to-net expenses ² IQVIA reported TRss (NPA Audit Dec 2020) factored by indication using IQVIA reported TRss (NPA Audit Dec 2020) factored by indication using IQVIA reported TRss (NPA Audit Dec 2020) ³ IQVIA SOB Dec 2020, ³ IQVIA SOB Dec 2020, ³ Indications, switches includes add-on ³ IQVIA SOB data Dec 2020, ³ IQVIA SOB Dec 2020, ³ Indications, switches includes add-on ³ IQVIA SOB data Dec 2020, ³ IQVIA SOB Dec 2020, ³ Indications, switches includes add-on ³ IQVIA SOB data Dec 2020, ³ IQVIA SOB Dec 2020, ³ IQ



VUMERITY® Growth Presents Additional Long-Term Revenue Opportunity



- Novel oral fumarate for the treatment of relapsing forms of multiple sclerosis (MS)
- Biogen holds exclusive, worldwide license to commercialize
- 15% royalty to Alkermes on worldwide net sales
- ~\$8B oral MS market*

*IQVIA NPA TRx data.

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Near-Term Expected Revenue Drivers

(Commercialized by Biogen)

			Expected 2021 Net Sales
		Alcohol dependence (AD)	
Current Proprietary Commercial Products	Vivitrol* (nailrezone for extended-release injectable suspension)	Prevention of relapse to opioid dependence (OD) following opioid detoxification	\$315-345M*
	ARISTADA aripiración laurcol cumbirmente de la como constituir de	Schizophrenia	\$260-290M*
Under FDA Review – PDUFA June 1	LYBALVI dataspire and samidurph an testine destine de	Schizophrenia Bipolar I disorder	<\$10M* Potential launch H2'21
Royalty Stream	™ VUMERITY	Relapsing forms of multiple sclerosis (MS)	Launched in Q4'19

*These expectations, and the underlying assumptions and risks, are set forth in the Company's 8-K filed with the SEC on February 11, 2021. The Company expressly disclaims any obligation to update or reaffirm these expectations. Full indication and prescribing information for VIVITROL may be found at www.aristada.com Full prescribing information for ARISTADA may be found at www.aristada.com

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Capital Allocation: Focused on Organizational Efficiency and Cost Management

Conducted Comprehensive Analysis of Operations and Cost Structure and Implemented Significant Changes

Comprehensive Cost Structure Review

- Conducted extensive review of operations and cost structure both internally and with external advisors to identify potential areas for efficiencies and savings
 - Completed peer benchmarking to identify areas of focus for potential saving initiatives
 - Assessed resource requirements across multiple functions to determine optimal in-house/outsourcing strategy
 - Evaluated enterprise system/processes that could drive long-term efficiencies

Optimization Initiatives Undertaken

Commercial infrastructure reorganization

- ✓ Addiction salesforce refocused to increase emphasis on alcohol dependence
- ✓ Psychiatry infrastructure realigned to drive efficiencies and reallocate resources to support potential launch of LYBALVI™

R&D prioritization

- ✓ Prioritized highest-ROI development programs
- ✓ Determined optimal balance of internal/external resources

G&A leverage

 Identified efficiency opportunities; implementation ongoing

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Support profitable commercial portfolio



Prepare for anticipated launch of LYBALVI™

Drive operating margins of commercial business and focus on profitability



Advance nemvaleukin alfa



Develop next generation of pipeline candidates

Create value through innovation and position ALKS for future growth

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Support profitable commercial portfolio

VIVITROL®

- · Awareness and marketing campaign for alcohol dependence indication
- · Addiction sales infrastructure

ARISTADA®

- · Drive growth through continued focus two-month dose plus ARISTADA INITIO®
- · Psychiatry sales infrastructure



- Shared commercial services support
 - Market Access and key account management infrastructure
 - o Patient access services
 - Digital marketing capabilities
- Policy initiatives in addiction and serious mental illness

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Prepare for anticipated launch of LYBALVI™*

Commercial Launch

- · Complete sales force hiring
- Support patient access programs
- · Commence planned marketing campaign
- · Initiate physician outreach & payer interactions

Life Cycle Management

- · Complete early-in-illness phase 3 study
- · Initiate planned pediatric program

*LYBALVI NDA under FDA review; PDUFA June 1, 2021

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Advance nemvaleukin alfa

- Initiate studies to support potential registration pathways in mucosal melanoma and platinum-resistant ovarian cancer (PROC)
- Continued enrollment in ARTISTRY-2 dose expansion evaluating nemvaleukin subcutaneous anti-tumor activity
- Continue to build objective response data in multiple tumor types in ARTISTRY-1 and ARTISTRY-2

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Develop next generation of pipeline candidates

Neuroscience

ALKS 1140

- · Complete phase 1 enabling activities
- · Initiate phase 1 first-in-human study
- · Initiate phase 0 biomarker study

Orexin

· Nominate orexin candidate to the clinic

Oncology

IL-12

· Lead candidate generation

IL-18

 Advance lead candidate identification

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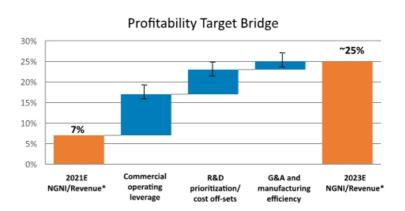
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Pairing Revenue Strength With Active Expense Management to Achieve Profitability Targets

Plan to achieve profitability targets through active management of cost structure, adapted to revenue growth profile

Profitability Targets

	FY '23	FY '24
NGNI/Revenue*	25%	30%
EBITDA/Revenue*	20%	25%



For illustrative purposes. Estimated ranges.

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^{*} Reconciliations of non-GAAP financial measures to the most directly comparable GAAP financial measures, to the extent reasonably determinable, can be found in the Appendix of this presentation NGNI: Non-GAAP net income; EBITDA: Earnings before interest, tax, depreciation, amortiz

Value Enhancement Plan Includes Evaluation of Strategic Opportunities



Evaluation of Strategic Opportunities

- · Monetization of non-core assets
- Strategic collaboration for nemvaleukin and other oncology assets



Operational



Financial

- Elements of legacy drug delivery/drug manufacturing business
 - o Platforms
 - o Intellectual property
- Preclinical and clinical assets outside of strategic portfolio
- Monetization of royalty revenue streams from thirdparty products
- Risk-sharing product development structures

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Strong Corporate Governance: Board Refreshment, Independence and Oversight

Maintaining Strong Board of Directors and Corporate Governance

Board Composition and Refreshment

- · Board skills and expertise support strategy and long-term value creation
- · Appointed 4 new, independent directors since September 2019
 - o New directors bring financial, operational and oncology expertise
 - o Three longer-serving directors have recently retired or announced their retirement from the Board
- · Average director tenure: 3.4 years*
- · Continued board refreshment efforts announced for 2021
- · Proposal to shareholders to declassify the Board to be included in 2021 proxy statement

Board Oversight of Value Enhancement Plan

- · Formed Financial Operating Committee to oversee implementation of Value Enhancement Plan
- Compensation Committee incorporated objective, performance-based elements related to Value Enhancement Plan into company's 2021 long-term incentive plan for executives

*Does not include two directors retiring at close of the Company's 2021 Annual General Meeting



INDEPENDENCE

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Announced retirement as of the close of the Alkermes 2021 annual general meeting of shareholders

Board Refreshment



David W. Anstice AO

Lead Independent Director

- More than 30 years of experience in pharmaceutical drug development and commercialization More than 50 years of drug development and
 Former EVP of Merck



Robert A. Breyer

- Significant management and operations experience
- * Former COO of Alkermes



Shane M. Cooke

- Global experience in the biopharmaceutical industry, including in business development
- Former CFO of Elan Corporation, plc; former President of Alkermes



David A. Daglio, Jr.

- Experience in institutional investment management, value creation and transactional matters
- Former EVP, CIO and Executive Director of Mellon Investments



Wendy L. Dixon, Ph.D.

- Experience in product development, regulatory affairs and commercialization of pharmaceuticals
- Former Chief Marketing Officer at Bristol-Myers Squibb; former executive at Merck



Richard B. Gaynor, M.D.

- Experience in scientific research and academia
- Current President, Chief of Research and Development at BioNTech; formerly at Eli Lilly



Brian P. McKeon

- Experience in finance, strategic planning, corporate development and investor relations
- Current CFO and Treasurer of IDEXX Labs
- Former CFO of Iron Mountain



Paul J. Mitchell

- Significant experience in financial reporting and compliance
- . Former CFO and Treasurer of Kenet; former CFO of



Richard F. Pops

- Leadership experience and deep industry knowledge gained through >25 years in the industry
- Current CEO of Alkermes
- Board member of BIO and PhRMA



Nancy L. Snyderman, M.D.

- Experience as a practicing physician, veteran healthcare journalist, advisor to policy organizations
- · Former Chief Medical Editor at NBC News
- Former SVP Corporate Communications at Johnson & Johnson



Andy Wilson

- Experience in finance and accounting, strategic planning, investor relations and business development
- Former CFO of PerkinElmer; former executive at Danaher



Nancy J. Wysenski

- Experience building and leading life sciences companies and in overseeing key operational and commercial functions
- Former EVO and CCO of Vertex; former COO of Endo

Diversified Biopharmaceutical Company With Proven Drug Development and Commercialization Capabilities

Significant, diverse revenues driving >\$1B topline and positioned for growth









Proprietary commercial products that target large markets in addiction and psychiatry

Additional potential revenue streams as new products launch* and grow

a of mount

Pipeline of novel development candidates designed to target significant unmet needs

Oncology

Nemvaleukin alfa

- · Phase 2
- · Advanced solid tumors

IL-12

- · Preclinical
- · Advanced solid tumors

Neuroscience

ALKS 1140

- · IND-enabling
- Neurodegenerative and neurodevelopmental disorders

Orexin 2R Agonist

- Preclinical
- Narcolepsy

Focus on Profitability

Focus on driving cost efficiencies and operating leverage while investing in the long-term growth of high-potential commercial and development-stage products

*LYBALVI NDA under FDA review; PDUFA June 1, 2021

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Developing New Treatments to Address Unmet Patient Need in Neuroscience and Oncology: Optimizing for Success

Craig Hopkinson Executive Vice President, R&D and Chief Medical Officer



Alkermes R&D Objective

- Develop innovative medicines with clear value propositions relative to current and anticipated future standards of care in neuroscience and oncology
 - Based on strong biological rationale
 - Embodied in new molecular entities that leverage Alkermes' advanced small molecule drug development and protein engineering capabilities
 - · Developed efficiently and cost effectively with rigorous governance
- · Rooted in Alkermes' patient-centric approach to developing medicines

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Evolution to Novel Drug Development with Differentiated and Contemporary Approach



Employ integrated approach to target selection, development and lifecycle management with continuous evaluation of medical and economic value



Leverage advanced medicinal chemistry and protein engineering capabilities to develop novel molecular entities with strong intellectual property protection



De-risk programs with front-end loaded development plans utilizing forward- and reverse-translational medicine strategies

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Integrated Approach to Target Evaluation and Portfolio Assessment



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Efficient Development Designed to Expedite Answers to Critical Go/No-Go Questions

Preclinical Research & Development

- Early demonstration of preclinical proof-of-concept in disease-relevant models
- Thorough molecular design feasibility assessment
- In-depth drug metabolism, pharmacokinetics and human dose prediction
- Embedded reverse translational mindset, tailoring the medication to the patient
- · Establishment of scale-up path
- · Strong foundational intellectual property

Clinical Development

- Accelerate generation of decision-driving data
 - Innovative clinical trial designs including adaptive and/or basket approaches
 - Comprehensive biomarker strategy
 - Expeditious and cost-efficient execution
- Early engagement with regulators to establish clear and expeditious regulatory pathways
- Proactive and pragmatic approach to indication expansion

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Portfolio Management and Investment Prioritization: Data-Driven Decision Making

- · Pre-established success criteria and stage-gates throughout development process
 - Enables 'quicker kills' and de-risks overall R&D investment
- · Cross functional, integrated governance to enable strategic decision making
 - Extends beyond R&D (legal, commercial and manufacturing)
 - Incorporates broader perspectives into decision making

Recently Discontinued Programs

Program	Reason for discontinuation	Phase of development
RDN-929 (neuroscience)	Suboptimal pharmaceutical properties	Phase 1
IL-10 (oncology)	Failure in third-party competitive program	IND-enabling
Epigenetic target (oncology)	Strategic portfolio fit	Preclinical
Stress-signaling target (neuroscience)	Research proof-of-concept not achieved	Preclinical

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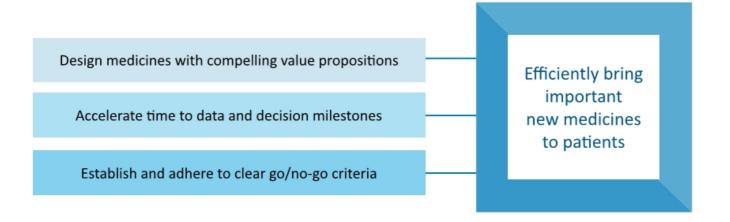
R&D Strategic Planning and Execution Integrates Ongoing Feedback from External Advisory Boards

- Dedicated neuroscience and oncology Scientific Advisory Boards comprised of leading experts in medicinal chemistry, translational medicine and academic science
 - · Offer insight into current scientific state-of-the-art approaches
 - · Provide independent program assessments
 - Identify opportunities to de-risk and/or accelerate programs
 - · Engage routinely with internal teams to address emerging challenges
- · Clinical Advisory Boards comprised of global thought leaders in areas of therapeutic focus
 - · Validate clinical trial designs
 - Support endpoint selections
 - · Advise on regulatory strategy and expedited pathways
 - · Provide insights on disease landscape

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Alkermes New R&D Approach is Designed to Increase the Probability of Technical, Regulatory and Commercial Success



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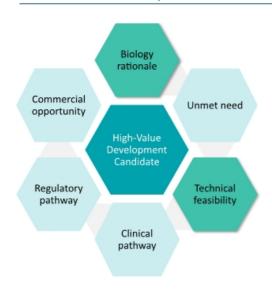
Focus on Innovative Molecular Design: Harnessing Alkermes' Scientific & Technical Capabilities

Markus Haeberlein, Ph.D.

Senior Vice President, Research



Alkermes' Expertise: Molecular Design



- Strong biology rationale:
 - Capabilities focused within defined scientific platforms
 - · Targets externally validated and vetted with scientific advisors
 - Potential opportunity for first-in-class or best-in class therapies
 - Structure/activity insight guides molecular design
- Technical feasibility:
 - Integrated capabilities in Medicinal Chemistry, Protein Engineering and Molecular Modeling utilized to address technical challenges

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Customized Medicinal Chemistry or Protein Engineering Approach for Each Target

Medicinal Chemistry

- Computationally-guided internal medicinal chemistry design
- Internal synthesis expertise enables work in "difficult-to-make space"
- Access to specialized chemistry capabilities
 - e.g., Protein degrader technology, DNA-encoded libraries

Protein Engineering

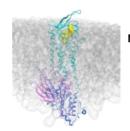
- Close integration with modeling team to guide protein design
- Advanced protein engineering capabilities
 - o Cytokine re-engineering
 - o Tumor-targeting platform
 - o Bispecific fusion proteins



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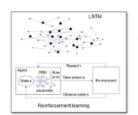
Sophisticated, Purpose-Built, State-of-the-Art Toolbox for Advanced Molecular Design



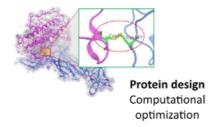
Molecular dynamics Binding energy calculations

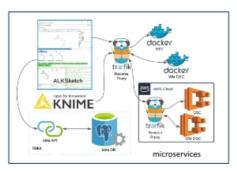
ALKSketch

Proprietary molecular design platform with on-the-fly in silico predictions



Artificial Intelligence for generative design Machine-designed molecular structures







Machine Learning models In silico assay panel with pharmacology, DMPK and safety predictions

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Scientific Platforms Serve as the Foundation to R&D Strategy and Focus in Neuroscience and Oncology



Synaptic Dysfunction: A Versatile Platform Across Neurology and Psychiatry

- Synaptic loss is the best current pathologic correlate of cognitive decline 1
- · Improving synaptic function is critical to slow progression and preserve cognitive and functional abilities in neurological disorders ²
- · Targeting synaptic integrity and function at different levels
 - Synapse structure: Restore integrity and number of synapses
 - · Synapse function: Increase efficiency of synapses and restore function in deficient circuitry
 - Synapse environment: Improve efficiency of supporting cells, such as microglia and astrocytes



¹ Morrison, J., Baxter, M. *Nat Rev Neurosci.* 2012 ² Verstraelen, P et al. *Front. Neurosci.* 2018



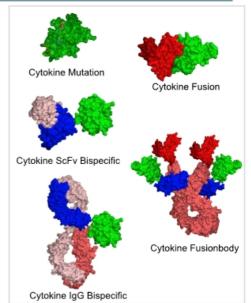
Development Candidates Emerging From Neuroscience Platform

Mechanism		Programs and Potential Indications	
CoREST-selective HDAC inhibitors	Pro-synaptic	ALKS 1140: Orphan indications in neurodevelopmental and neurodegenerative disorders Follow-on Candidate: Non-orphan indications in neurodegenerative and neuropsychiatric spaces	
	Increase of progranulin and pro-synaptic	Frontotemporal Dementia with Granulin Precursor Mutations (FTD-GRN): FTD-GRN and other FTD variants	
Orexin	Restoration of abnormal neurotransmission	Orexin 2 Receptor Agonist: Narcolepsy and indications with excessive daytime sleepiness, fatigue or attention/cognition issues	

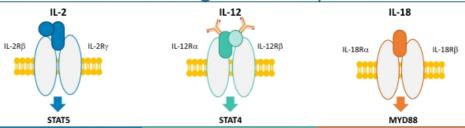
Immune Modulation in Oncology Based on **Engineered Cytokines**

- Proinflammatory cytokines have pleiotropic effects and can act on every phase of the cancer immunity cycle¹
- Alkermes is focusing on cytokine-based therapies designed to:
 - · Increase visibility of tumor cells to immune system
 - Increase tumor-killing potential of CD8+ T and NK cells
 - ° Remove suppressive signals in the tumor microenvironment
- Modern cytokine-based drugs need a high degree of engineering to:
 - Reduce side effects
 - · Improve pharmacokinetics
 - · Enhance efficacy

NK: natural killer ¹ Berraondo, et al. *British Journal of Cancer*. 2019



Immune Modulation Portfolio of Engineered Cytokines



	SIAIS	SIAI4	IVITU88
	Nemvaleukin alfa	Tumor-Targeted Split IL-12	Enhanced Efficacy IL-18
Technical challenge	 Efficacy of rhIL-2 limited by expansion of immunosuppressive T_{reg} cells and other undesirable effects 	 rhIL-12 has low tolerability when given systemically 	 Efficacy of rhIL-18 limited by a checkpoint protein that binds to IL-18 (IL-18BP)
Alkermes' protein engineering solution	 Fusion of circularly permuted IL-2 with the IL-2Rα subunit resulting in only activating intermediate-affinity IL-2R 	Separate inactive tumor-targeted IL-12 subunits assemble and activate in the tumor	Engineered IL-18, for which activity is not blocked by suppressive mechanisms
Key anti-tumor mechanisms	Expansion of CD8 ⁺ T cells and NK cells Minimal expansion of T _{reg} cells	Drive proinflammatory responses at the tumor site through potent activation of CD8+T and NK cells	Enhance IL-18 mediated anti-cancer immune responses Reduce T cell exhaustion
Potential cancer types	 Solid tumors, including melanoma, platinum-resistant ovarian cancer 	Solid tumors, including pancreatic, breast, colon and ovarian cancer	Immunosuppressive tumor microenvironment Checkpoint inhibitor-resistant tumors

Focus and Discipline Integral to R&D Portfolio Advancement



Nemvaleukin alfa: A Novel, Engineered Interleukin-2 (IL-2) Variant Immunotherapy

Clinical Data Updates from ARTISTRY-1 and ARTISTRY-2 Trials

Jessicca Rege, Ph.D. Vice President, Clinical Research, Oncology



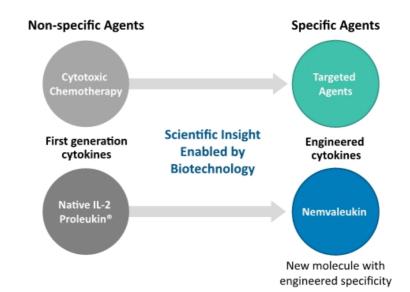
Today's Agenda

- 1. Harnessing the potential of the IL-2 pathway
- 2. Advancing a differentiated IL-2
 - Nemvaleukin alfa (nemvaleukin) molecular design
 - Nemvaleukin clinical development strategy
- 3. Clinical data overview
 - ARTISTRY-1 (intravenous dosing): Focus on melanoma and platinum-resistant ovarian cancer
 - ARTISTRY-2 (subcutaneous dosing): Subcutaneous recommended phase 2 dose and preliminary objective response
- 4. Upcoming data and next steps



IL-2 Therapy Has Proven Anti-Tumor Efficacy

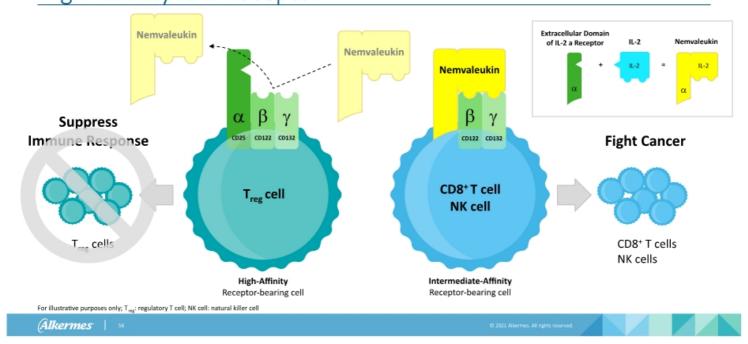
- IL-2 is a natural regulator of the activity of lymphocytes involved in the immune response
- Recombinant human IL-2 as monotherapy can drive complete and durable responses in certain tumor types, but its toxicity profile significantly limits its potential broader application
- A molecule with differentiated tolerability that targets the IL-2 pathway could be complementary to a wide range of other therapeutic approaches



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Nemvaleukin is Sterically Occluded From Binding to the High-Affinity IL-2 Receptor



Nemvaleukin Key Differentiation Parameters Support Broad Potential Utility

\checkmark Validate **Molecular Design**

Demonstrated selective expansion of CD8+ T and NK cells

Demonstrated minimal changes in peripheral regulatory T cells

In both intravenous (IV) and subcutaneous (SC) administrations

Demonstrate **Anti-tumor Activity**

Monotherapy:

Single-agent activity observed with IV nemvaleukin

Combination:

Activity observed in combination with anti-PD-1 (both IV and SC nemvaleukin), in hard-to-treat tumors

Create **Dosing Flexibility**

IV: Plans to progress into registrationenabling studies

SC: Only SC IL-2 variant in development

Identified RP2D based on PK/PD, safety and anti-tumor activity

Achieved first objective SC response

Support Broad Potential Utility

Monotherapy activity observed with IV nemvaleukin in CPIexperienced patients

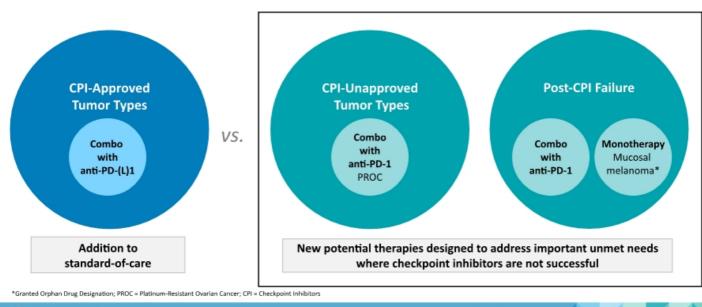
Combination activity observed with pembrolizumab

Combination activity observed with multiple agents in preclinical studies

May offer dosing flexibility

RCC = renal cell carcinoma, RP2D = Recommended Phase 2 Dose, PK/PD= Pharmacokinetic/Pharmacodynamic, CPI = Checkpoint Inhibitors

Clinical Development Strategy Focused on Difficult to Treat Cancers With Clear Unmet Need





IV Nemvaleukin: Demonstrated Monotherapy Anti-Tumor Activity in Melanoma and Renal cell Carcinoma

Dose: Nemvaleukin (IV RP2D 6 μg/kg) Monotherapy

Tumor Type	Prior Therapy (Lines)	Best Overall Response	Max Decrease in Target Lesions	Time on Therapy (weeks)	Continuing therapy?
Mucosal melanoma	Nivolumab (1)	PR	41%	72	Yes
Mucosal melanoma	Nivolumab (1)	Unconfirmed PR	39%	15	No
Cutaneous melanoma	Atezo/cobimetinib, nivolumab, melanoma vaccine AGI-101H, carboplatin/paclitaxel (3)	PR, awaiting confirmation*	44%	10	Yes
Renal cell carcinoma	Sunitinib, nivolumab (2)	PR, awaiting confirmation	31%	21	Yes
Renal cell carcinoma	Ipilimumab, nivolumab, cabozantinib/placebo (1)	PR, awaiting confirmation	43%	16	Yes

Data cutoff March 1, 2021. *Reported after data extraction PR=partial response, RP2D = Recommended Phase 2 Dose.

ARTISTRY-1 Safety Summary

- · Safety profile of nemvaleukin in combination with pembrolizumab generally consistent with monotherapy profile
- · In combination, no emerging evidence of additive toxicities to those already established for pembrolizumab alone

Monotherapy (Part B only; n=42)

- Chills, pyrexia, nausea & hypotension are most frequently (>30%) reported treatment-related adverse events (TRAEs); anticipated effects of cytokine administration
 - Transient, majority Grade ≤2 in severity
- · Most frequent (>10%) Grade 3-4 TRAE was neutropenia
- · No discontinuations due to treatment-related AEs
- · No deaths due to treatment-related AEs

Combination with Pembrolizumab (Part C only; n=111)

- Chills, pyrexia & fatigue are most frequently (>30%) reported treatment-related AEs; anticipated effects of cytokine administration
 - Transient, all Grade ≤2 in severity
- Most frequent (>10%) Grade 3-4 TRAE was neutrophil count decrease
- Discontinuation due to treatment-related AEs included: fatigue, pneumonitis, infusion-related reaction, inanition
- · Two deaths in pancreatic cancer patients (reported at ESMO 2020)
 - One death due to inanition and assessed by the investigator as related to nemvaleukin
 - One death due to underlying cancer and assessed as unrelated to treatment

Data as of December 2020

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High Unmet Needs Remain for Treatment of Refractory Melanoma

Melanoma Burden

Fifth most common type of cancer in the U.S.1

- U.S. prevalence: ~100K new cases in 2020
- ~7K estimated deaths in the U.S. in 2020 due to melanoma

Melanoma patients with distant metastases have a 5-year survival rate of $27\%^2$

Incidence has risen faster than almost any common cancer type in the last 50 years³

Mucosal Melanoma

Rare and aggressive type of melanoma occurring in mucosal membranes that is often diagnosed late due to non-specific symptoms and anatomic location⁴

Poor prognosis when compared with cutaneous melanoma

5-year survival rates as low as 14% for mucosal melanoma⁵

Mucosal melanoma is largely resistant to traditional therapies 5,6

- Response rates with chemotherapy are poor and targeted therapies such as BRAF inhibitors are usually not an option for mucosal melanoma
- Immune checkpoint inhibitors (nivolumab, ipilimumab) have lower response rates for mucosal melanoma than for cutaneous melanoma

Nemvaleukin was recently granted Orphan Drug Designation for mucosal melanoma

1. https://www.cancer.org/cancer/melanoma-sin-cancer/detection-diagnosis-stating/uvrvvul-rates-for-melanoma-sin-cancer-by-stage.html, 3. Matthews NH, U WQ, Qureshi AA, et al. Epidemiology of Melanoma. In: Ward WH, Farma JM, editors. Cutaneous Melanoma: Etiology and Therapy [internet]. Brisbane (AU): Codoe Publications; 2017 Dec 21. Chapter 1. Available from: https://www.ncbi.nlm.nih.gov/pooks/NBK881862/ doi: 10.155586/codon.cutaneousmelanoma.2017.chl. 4. Mihajlovic M, Valjatovic S, Jovanovic P, Stefanovic V. Primary mucosal melanomas: a comprehensive review. Int J Clin Exp Pathol. 2012;5(8):739-753. S. Tyrrel H, Payne M. Combatting mucosal melanoma: recent advances and future perspectives. Melanoma Manag. 2018;5(3):MMT01. Published 2018 Ot 8. doi:10.2217/mmt-2018-0003. 6. O'Angelo SP, Larkin J, Sozman JA, et al. Efficacy and Safety of Nivolumab Melanom With Ipilimumab in Potients With Mucosal Melanoma: A Pooled Analysis. J Clin Oncol. 2017;5(2):2256-2358.

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ARTISTRY-1 Nemvaleukin Melanoma Monotherapy Cohort Focused on Unmet Need

Key Inclusion Criteria

Progressed on:

- Immune checkpoint inhibitor (e.g., anti-PD-(L)1 with or without anti-CTLA-4)
- Targeted agent as appropriate (e.g., BRAF inhibitor if BRAF-mut)

ARTISTRY-1 Monotherapy Study Melanoma Cohort

Protocol-defined efficacy response criteria achieved, triggered Simon Two-Stage expansion cohort

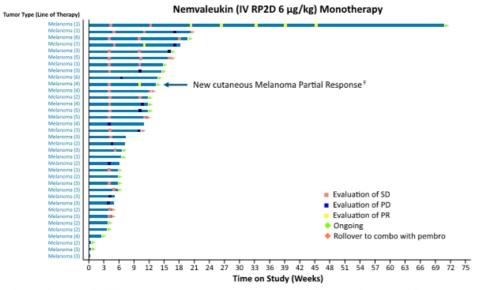
Second stage of enrollment underway

ARTISTRY-1 Simon Two Stage	Stage 1 N	Enroll more if	Stage 2 N	Total
Refractory melanoma expansion	21	>2 PR/CR	20	41

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ARTISTRY-1: Nemvaleukin Monotherapy Responses in CPI-Experienced Melanoma Patients



Preliminary data (ongoing study):

- Out of 28 evaluable patients (with ≥ 1 scans):
- Total 3 responses observed, with tumor shrinkage
 - 2 mucosal melanoma and 1 cutaneous melanoma
- Majority of patients are ongoing as of March 15, 2021 data cut

CPI = Checkpoint Inhibitors, IV,=Intravenous, PD=Progressive Disease, PR=Partial Response, RP2D=Recommended Phase 2 Dose, SD=Stable Disease Reported after the data cut off and awaiting confirmation.

Data cut off March 15, 2021



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ARTISTRY-1 Monotherapy Dose Expansion Cohort Case Study: 67-Year-old Male Cutaneous Melanoma Patient

Diagnosis

Melanoma

· Diagnosed December 13, 2016

Prior Treatment

Line	Therapy	Duration (mos)	Best Response
Adj	Cobimetnib/ atezolizumab	9	PD
1	Nivolumab	4	PD
2	Vaccine AGI-101H	1	PD
3	Paclitaxel/carboplatin	2	SD

Last dose of prior treatment November 3, 2020

On-Study Activity

Started Tx: December 2020 (Remains On treatment*): Nemvaleukin monotherapy (6 μg/kg IV)

Change in Target Lesion from Baseline

	Target Lesion Size
Cycle 2	Stable Disease (SD)+: 27% reduction
Cycle 4	Partial Response (PR)+T: 44% reduction

Treatment-related AEs:

- · Manageable with no dose modifications
- · Anemia and fever, grade 2
- · Intermittent neutropenia grade 3 and grade 4

Data cut off March 15, 2021

^{*}Patient continues on therapy as of March 15, 2021; +per RECIST criteria; T Reported after the data cut off and awaiting confirmation. PD=progressive disease, SD=stable disease.

Nemvaleukin Monotherapy for Melanoma Advancing Toward Registration Stage

Demonstrate monotherapy activity: • Mucosal monotherapy • Cutaneous monotherapy	✓
Identify unmet need: • CPI-experienced patients • Mucosal melanoma FDA orphan designation	✓
Advance clinical studies to support potential registration path in mucosal melanoma monotherapy • Engage with regulatory authorities on registration plans	

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Responses in Heavily Pre-treated Platinum-Resistant Ovarian Cancer Patients in Combination with Pembrolizumab

High Unmet Needs Remain for Treatment of Ovarian Cancer

Ovarian Cancer Burden

Second most common gynecological cancer¹

• U.S. prevalence: ~233K cases in 20172

Leading cause of gynecologic cancer-related deaths in the $\rm U.S.^1$

- 5-year survival rate for stage IV ovarian cancer of 29%³
- Median overall survival (mOS) for platinumresistant ovarian cancer is less than 12 months⁴
- Standard of care median progression-free survival (mPFS) ~3.5 months¹⁰

Limited Treatment Options

1L (Standard of Care)

- Surgery + platinum-based chemotherapy +/- bevacizumab followed by bevacizumab and/or PARP inhibitor as maintenance 5
- Many become platinum resistant (refractory) and progress < 6 months after completion of platinum-based chemotherapy⁶

Few treatment options post-platinum chemotherapy

 In one study of non-platinum chemotherapy, objective response rate was 12% and median progression-free survival was 3.4 months⁷

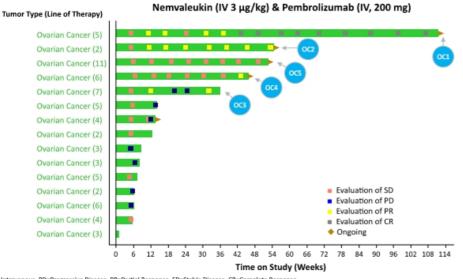
Anti-PD-1 (e.g., pembrolizumab, atezolizumab) have been shown to be ineffective for treatment of ovarian cancer ^{8,9}

Pembrolizumab efficacy in ovarian cancer is ~10% for high PD-1 expression 8

1. https://www.cdc.gov/cance/varian/statistics/index/htm 2. https://www.cance.org/cancer/statistics/index/htm 2. https://www.cance.org/canter/statistics/index/htm 2. https://www.cance.org/cancer/statistics/index/htm 2. https://www.cancer-statistics/index/htm 2. https://www.cancer-statistics/index/h

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ARTISTRY-1: Nemvaleukin in Combination With Pembrolizumab Responses in Heavily Pre-treated Ovarian Cancer



Out of 14 patients with ≥1 scans:

- · 4 patients experienced an objective response
 - o 1CR, 3PRs confirmed and unconfirmed
- · 5 patients remain on study as of March 15, 2021 data cut

Data cut off March 15, 2021

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ARTISTRY-1: Nemvaleukin in Combination With Pembrolizumab Responses in Platinum-Resistant Ovarian Cancer

Table: Patient Experience in Reduction of Tumor Burden

	Age	Prior Therapies (Lines)	Max. Reduction of Target Lesions (%)	Overall Response (Investigator assessment)	CA125 (U/ml) Response From Baseline	Time on Therapy (Weeks)
OC1	48	CBP/PAC/BEV, CDDP/GEM, CBP/ PLD, PCA, CBP/DOC (5)	-70	CR ⁺	Normalized from 282 to 24.5 at Cycle 4	112 ►
OC2	83	CBP/PAC/DOC, CBP/DOC/NIR/TAM (2)	-95	PR	Normalized from 125 to 16 at Cycle 4	56 ▶
ОСЗ	60	CBP/PAC, CBP/PLD, CBP/BEV, PAC/BEV, BEV, PLD (7)	-45	uPR	Reduced from 1400 to 766 at Cycle 11	38
OC4	75	CBP/PAC, PLD/BEV, CBP/GEM, TOP, NIR (6)	-34	PR, awaiting confirmation*	Reduced from 493 to 191 at Cycle 14	46 ▶
ocs	83	CBP/PAC, CBP, CBP/PAC/CAP, CBP/PLD, CBP/PLD (11)	-28	SD	Normal at baseline at 10.6	52 ▶

BEV=bevacizumab, CAP=capecitabine, CBP=carboplatin, CDDP=cisplatin, DOC=docetaxel, GEM=gemcitabine, NIR=niraparib, PAC=paclitaxel, PCA=paclitaxel albumin, PLD=pegylated liposomal doxorubicin hydrochloride, TAM=tamoxifen, TOP=topotecan, CR=complete response, PR=partial response, uPR=unconfirmed PR, SD=stable disease

continuing on therapy

*CR due to node shrinkage to <10 mm short axis, *per RECIST criteria

Data cut off March 15, 2021



ARTISTRY-1: Nemvaleukin in Combination With Pembrolizumab Case Study: 75-Year-Old Ovarian Cancer Patient

Diagnosis

High-Grade Serous Ovarian Cancer

PD-L1 status: unknown
 BRCA status: wild-type
 Platinum-resistant

Prior Treatment

Line	Therapy	Duration (mos)	Best Response
1	CBP/paclitaxel	4	Not evaluable
1M	ZEJULA*	4	SD
2	DOXIL*/ AVASTIN*	3	PD
3	Carboplatin/gemcitabine	4	PR
4	Topotecan	2	SD
5	ZEJULA® last dose 3/6/20	5.5	SD

On-Study Tumor Shrinkage

Change in Target Lesions from Baseline				
Cycle 2	Stable Disease (SD): 22% reduction			
Cycle 4	Stable Disease (SD): 22% reduction			
Cycle 6-12	Stable Disease (SD): 28% reduction			
Cycle 14 Partial Response (PR)+**: 34% reduction				

Patient has remained on treatment for 11 months

Treatment-related AEs:

- · Manageable with no dose modifications
- · Majority AEs grade 1 and 2
- · Grade 3 elevated ALT and grade 3 anemia

Notes: *Continues on therapy as of March 15, 2021, *per RECIST criteria, *Reported after the data cut off and awaiting confirmation, PD = Progressive Disease, PR=Partial Response, SD=Stable Disease

Data cut off March 15, 2021

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Advancing Fast-to-Market Opportunity in Platinum-Resistant Ovarian Cancer (PROC)

Advance discussions on registration plans with regulatory agencies	Initiated
Initiate study with intravenous nemvaleukin in combination with pembrolizumab	H2 2021
Complete enrollment - subcutaneous nemvaleukin dose expansion PROC cohort	

Ongoing studies designed to accumulate additional data

ARTISTRY-1 Intravenous Phase 1/2 ARTISTRY-2 Subcutaneous Phase 1/2 ARTISTRY-3 Tumor Microenvironment Phase 2 ION Head and Neck Phase 2

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Clinical Update for ARTISTRY-2
Selection of Recommended Phase 2 Dose (RP2D)

ARTISTRY-2: RP2D Determined

- SC 3 mg q7d nemvaleukin selected as recommended phase 2 dose (RP2D) for ARTISTRY-2 efficacy expansion stage
- Selection of RP2D based on totality of data including PK/PD, safety and efficacy during dose escalation phase
 - Acceptable safety and tolerability profile consistent with the anticipated pharmacological effect and that observed with intravenous nemvaleukin
 - Dose-dependent increases in NK cell and CD8+ T cell activation and minimal increase in immunosuppressive T regs
 - · Clinical benefit (stable disease) observed
- · Additional ARTISTRY-2 data to be presented at future medical meeting
- · Phase 2 efficacy expansion initiated based on totality of dose escalation data

True = regulatory T cell, NK = Natural Killer, PK/PD = Pharmacokinetic/Pharmacodynamic

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Safety Profile of SC Nemvaleukin Consistent With Mechanism of Action and IV Nemvaleukin

RP2D Regimens Selected

SC 3 mg q7d declared as RP2D based on totality of data

- 6 mg q21d dose may offer additional flexibility in treating certain tumor types and/or in combination settings in the future
- Maximum tolerated doses (MTD) for SC nemvaleukin were determined to be
 6 mg q7d and 10 mg q21d

No additional toxicities were reported in combination with pembrolizumab

Most Commonly Reported TEAEs at RP2D Monotherapy

3 mg q7d (n=7):

- Chills, pyrexia, fatigue, nausea, lymphopenia, injection site reactions, AST/ALT increase are most frequently (>30%) reported treatment-related adverse events (AEs); majority anticipated effects of cytokine administration
 - Transient, majority Grade ≤2 in severity
- · Most frequent (>10%) Grade 3-4 TRAE was neutropenia
- · No treatment-related SAE, discontinuations or deaths

6 mg q21d (n=8):

- · Safety profile was consistent with 3mg q7
- Most frequent (>10%) Grade 3-4 TRAE was AST/ALT increase (1 patient)
- · No treatment-related SAE, discontinuations or deaths

DLTs at MTD

Three DLTs reported at MTDs of 6 mg q7d and 10 mg q21d

- DLTs were manageable with either dose interruption, discontinuation and/or standard of care treatment
 - Atypical Capillary Leak Syndrome, without hypotension (Grade 3)
 - · Injection site reaction (Grade 3)
 - Transient fatigue, nausea, vomiting (Grade 3)

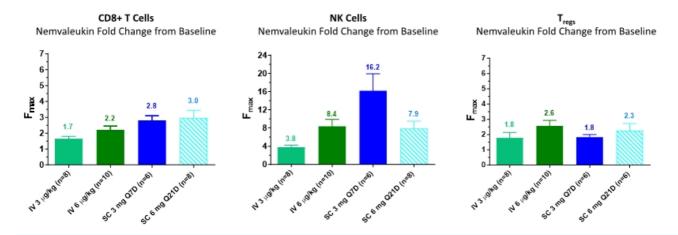
TRAEs = Treatment-related adverse events; DLTs = Dose-limiting-toxicities; MTD = Maximum tolerated dose, RP2D = Recommended phase 2 dose, SAE = Serious Adverse Event, SC = Subcutaneous, IV = Intravenous

Data as of 02 Mar 2020

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SC Nemvaleukin Induced Dose-Dependent, Selective Expansion of Circulating NK and CD8+ T Cells



3 mg q7d SC nemvaleukin provided greater expansion of CD8+ T cells and NK cells relative to IV nemvaleukin

SC = Subcutaneous, IV = Intravenous, Q7D = Once Every 7 Days, Q21D = Once Every 21 Days, NK = Natural Killer, Tress = Regulatory T cells

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ARTISTRY-2: Phase 2 Efficacy Expansion Initiated Following SC RP2D Determination

Phase 1: Dose Escalation, 6-Week Monotherapy Lead-in

Followed by combination of 200 mg pembrolizumab q21d and either SC nemvaleukin q7d or q21d

Cohorts A2 to A5 (0.6 mg - TBD)

q7d SC nemvaleukin

Cohorts B2 to B5 (1.0 mg - TBD) q21d SC nemvaleukin

RP2D SELECTED 3.0 mg q7d

Phase 2: Efficacy Expansion in Solid Tumors **INITIATED** at RP2D

Combination nemvaleukin + pembrolizumab

Efficacy expansion in select solid tumors where previous responses were observed

Primary Objectives*

- Safety and Efficacy
- 3.0 mg q7d in combination with pembrolizumab q21d

SC = Subcutaneous; RP2D = Recommended phase 2 dose; q7d = Administered once weekly; q21d = Administered once every three weeks
"Secondary objectives include clinical pharmacokinetic profile and immunogenicity, clinical pharmacodynamic effects (all parts), anti-tumor activity (phase 1) and ORR (objective response rate), and DOR (duration of response) (phase 2)

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ARTISTRY-2: Nemvaleukin in Combination With Pembrolizumab Case Study: 69-Year-Old Female With High-Grade, Serous PROC

Diagnosis

High-Grade Serous PROC

· Diagnosed December 29, 2019

· PD-L1 status: positive · BRCA status: negative · TMB Status: Low

Prior Treatment

Line	Therapy	Duration (mos)	Best Response
1	CBP/PAC	6	PR
2	OLP/BEV	2	PD
3	BEV/DOX	<1	PD

Last dose of prior treatment December 30, 2020

On-Study Activity

Started Tx: January 2021 (remains on treatment): Nemvaleukin (3 mg q7d) subcutaneous + pembrolizumab IV

Change in Target Lesion and CA-125 Levels from Baseline

	Total Target Lesions Size	CA-125 Level (Unit/mL)
Baseline	207 mm	1920
Cycle 2	~100 mm (50% reduction) Partial Response (PR)**	300 (84% reduction)

Treatment-related AEs:

- · Manageable with no known dose modifications
- · Hypotension and dehydration, Grade 1 and 2 multiple events
- · Multiple injection site reactions, Grade 1

Data as of March 1, 2021

*Patient continued on therapy as of March 1, 2021; ** per RECIST Criteria, awaiting confirmation, PD = Progressive Disease, PR = Partial Response
PROC = Platinum-Resistant Ovarian Cancer; TMB = tumor mutational burden; BEV = bevacizumab; CBP = carboplatin; DOX = Doxorubcin; HRD=homologous recombination deficiency; OLP = olaparib; PAC = paclitaxel

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Advancing Nemvaleukin Across Key Domains

- Submission of data for presentation at upcoming congresses
 - · ARTISTRY-1: Updated safety and efficacy data
 - ARTISTRY-2: Dose escalation and initial efficacy and safety data
- · Advance ongoing studies
- · Advance interactions with regulatory authorities
- Initiate studies in mucosal melanoma and platinum-resistant ovarian cancer to support potential registration
- · Pursue strategic collaborations to expand development program

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Nemvaleukin Alfa: Preclinical Research Paving the Clinical Development Path

Heather Losey, Ph.D.

Sr. Director, Research Program Lead, Oncology

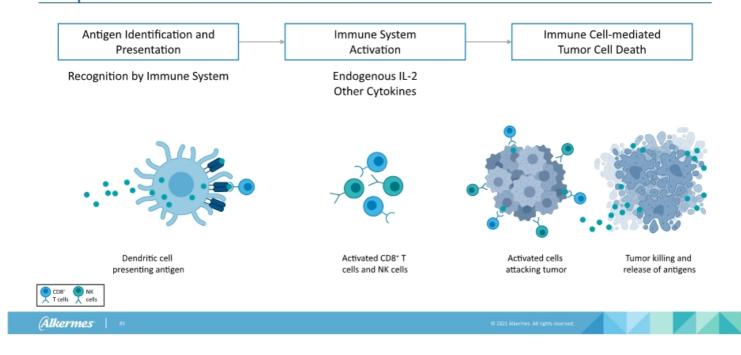


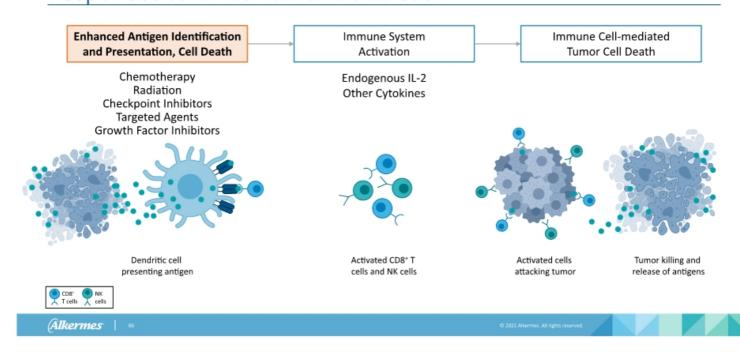
Immune Modulation Portfolio of Engineered Cytokines

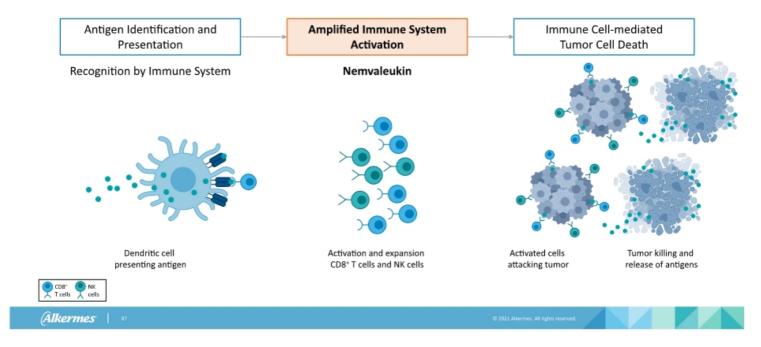


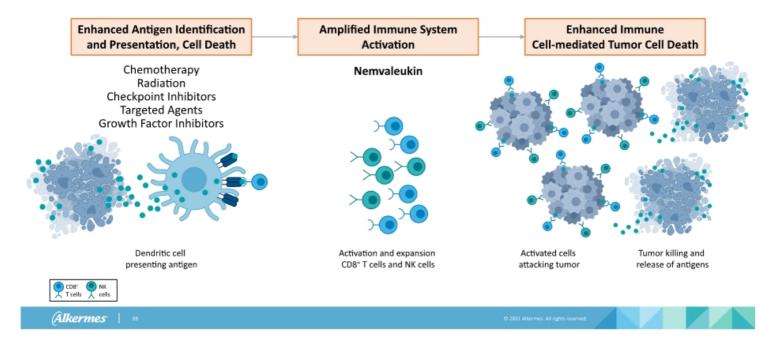
	Nemvaleukin alfa					
Technical challenge	 Efficacy of rhlL-2 limited by expansion of immunosuppressive T_{reg} cells and other undesirable effects 	٠	rhIL-12 has low tolerability when given systemically	٠	Efficacy of rhIL-18 limited by a checkpoint protein that binds to IL-18 (IL-18BP)	
Alkermes' protein engineering solution	 Fusion of circularly permuted IL-2 with the IL-2Ra subunit resulting in only activating intermediate-affinity IL-2R 	٠	Separate inactive tumor-targeted IL-12 subunits assemble and activate in the tumor	٠	Engineered IL-18, for which activity is not blocked by suppressive mechanisms	
Key anti-tumor mechanisms	 Expansion of CD8+T cells and NK cells Minimal expansion of T_{reg} cells 	٠	Drive proinflammatory responses at the tumor site through potent activation of CD8+T and NK cells		Enhance IL-18 mediated anti-cancer immune responses Reduce T cell exhaustion	
Potential cancer types	 Solid tumors, including melanoma, platinum-resistant ovarian cancer 		Solid tumors, including pancreatic, breast, colon and ovarian cancer		Immunosuppressive tumor microenvironment Checkpoint inhibitor-resistant tumors	

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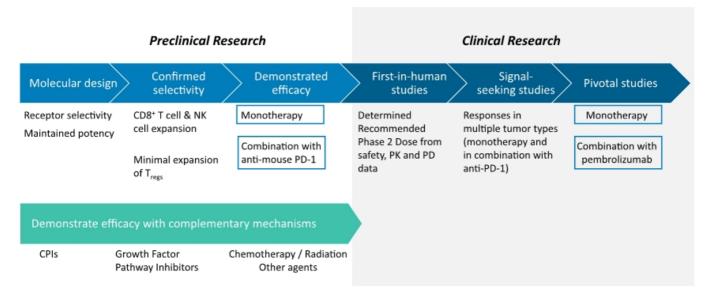






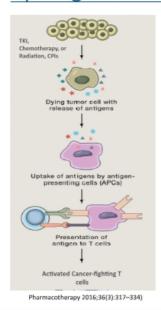


Nemvaleukin: Preclinical Efforts Inform the Clinical Development Strategy



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Agents That Induce Immunogenic Cell Death (ICD) May Offer Synergistic Advantages in Combination With Nemvaleukin

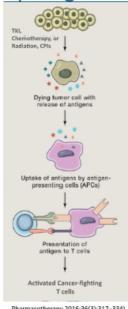


Agents that induce immunogenic cell death include:

- Immune Checkpoint Inhibitors
- Growth Factor Pathway Inhibitors
- Cytotoxic Chemotherapies / Radiation

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Agents That Induce Immunogenic Cell Death (ICD) May Offer Synergistic Advantages in Combination With Nemvaleukin



Immune Checkpoint Inhibitors

- Anti-PD-1/L1 (Ongoing clinical trials)
- Anti-CTLA-4

Growth Factor Pathway Inhibitors

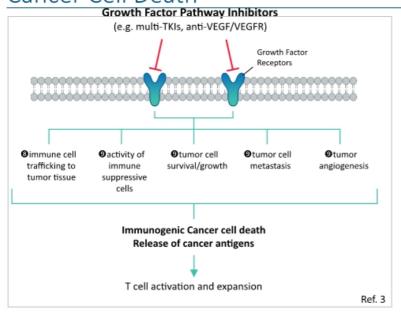
- · Multi-tyrosine kinase inhibitors
- Anti-VEGF/VEGFR antibodies

Cytotoxic Chemotherapies / Radiation

Pharmacotherapy 2016;36(3):317–334)

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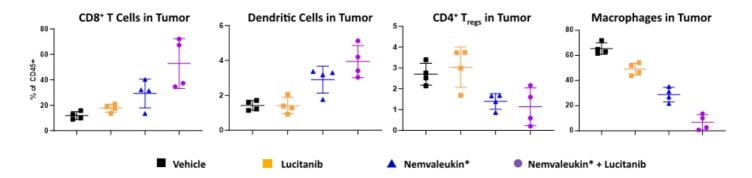
Inhibition of Growth Factor Pathways Induces Immunogenic Cancer Cell Death



- Growth factors support several mechanisms that promote cancer cell survival and metastasis¹
- Inhibition of tumor growth factor pathways is a validated therapeutic approach in oncology^{1,2}
- T cell mediated immune responses emerging from inhibition of tumor growth factors may be augmented by nemvaleukin's ability to activate cancer fighting immune cells
- Loery FI et. al. Cancer Metastasis Rev. 2012 Dec;31(3-4):479-91
- Witsch E, et.al. Physiology (Bethesda). 2010;25(2):85-101
- 3. ESMO Oncology. Mechanism of multikinase inhibitor action. Accessed March 2021

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Nemvaleukin in Combination With Growth Factor Pathway Inhibitors Enhanced Cancer Fighting Mechanisms in Mouse Tumors



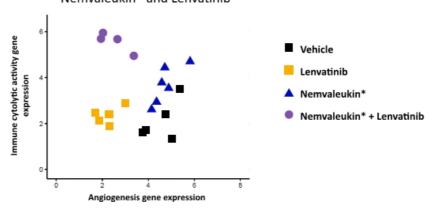
Nemvaleukin in combination with either **lucitanib** or lenvatinib (not shown) resulted in **increased immune activation** and **decreased immune suppression** in tumors

Alkermes internal data on file; *The mouse ortholog of nemvaleukin, RDB 1462, was used in mouse MC38 tumor model

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Nemvaleukin in Combination With Growth Factor Pathway Inhibitors Enhanced Cancer Fighting Mechanisms in Mouse Tumors

Tumor Gene Expression in Mice Treated with Nemvaleukin* and Lenvatinib

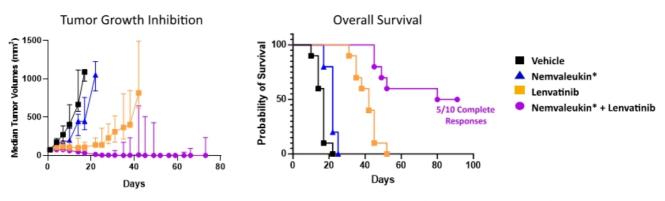


Nemvaleukin in combination with either **lenvatinib** or lucitanib (not shown) resulted in **enhanced angiogenesis blockade** and **activated multiple immune pathways**

Alkermes internal data on file; *The mouse ortholog of nemvaleukin, RDB 1462, was used in mouse MC38 tumor model

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Nemvaleukin Enhanced the Anti-Tumor Efficacy of Lenvatinib in Mouse Tumors

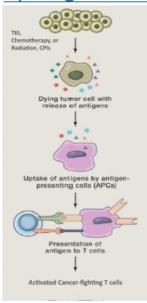


- Nemvaleukin* in combination with either **lenvatinib** or lucitanib (not shown) resulted in **enhanced tumor suppression and survival** relative to monotherapy groups
- Similar results observed with a mouse surrogate of bevacizumab, which is a selective inhibitor of the angiogenesis factor VEGF

Alkermes internal data on file; *The mouse ortholog of nemvaleukin, RDB 1462, was used in mouse MC38 tumor model

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Agents That Induce Immunogenic Cell Death (ICD) May Offer Synergistic Advantages in Combination With Nemvaleukin



Immune Checkpoint Inhibitors

- Anti-PD-1/L1 (Ongoing clinical trials)
- Anti-CTLA-4

Growth Factor Pathway Inhibitors

- Multi-tyrosine kinase inhibitors
- Anti-VEGF/VEGFR antibodies

Cytotoxic Chemotherapies / Radiation

Pharmacotherapy 2016;36(3):317–334)

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Exploring Nemvaleukin's Potential Synergistic Benefits to Chemotherapy or Radiation Mediated Mechanisms

- Chemotherapy and radiation can have positive effects on anti-cancer immunity
 - o Both can directly induce tumor cell lysis and lead to immunogenic cancer cell death 1
 - o Chemotherapy and radiation can enhance innate anti-tumor immune responses 2,3
- · However, chemotherapy and radiation can also have negative effects on the immune system
 - Decreased lymphocyte and leukocyte counts, which can negatively impact response to therapy
 - Immune suppression due to increased T_{regs} in the tumor microenvironment⁵
- Ongoing preclinical collaborations leverage specialized translational models to explore nemvaleukin's ability to augment chemotherapy/radiation driven anti-cancer mechanisms, while countering the negative impacts

¹Fucikova, et al. Cell Death Dis 11, 1013 (2020); ²Dar TB, et al. Front Immunol. 2019 Jan 14;9:3077; ³Zingoni A, Front Immunol. 2017;8:1194; ⁴Ménétrier-Caux, C. et al. J. Immunotherapy Cancer 7, 85 (2019); ⁵Muroyama Y, et. al. Cancer Immunol Res. 2017 Nov;5(11):992-1004.

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Research Collaborations With Leading Institutes Explore Further Potential Clinical Utility of Nemvaleukin

Principal Investigator and Institute	Research Collaborations
Dr. Brian Gastman Cleveland Clinic Lerner College of Medicine	Preclinical collaboration to study combinations of nemvaleukin with multiple immune checkpoint inhibitors in individualized, humanized melanoma xenograft models
Dr. Kwok-Kin Wong NYU Langone Health	Preclinical collaboration to study novel combinations of nemvaleukin with SOC chemotherapy , in mouse lung tumor models
Dr. James Welsh The University of Texas MD Anderson Cancer Center	Preclinical collaboration to study combinations of nemvaleukin with novel radiation approaches in mouse models of immune checkpoint inhibitor resistance
Dr. Tullia Bruno and Dr. Lan Coffman University of Pittsburgh Medical Center	Preclinical collaboration to study the effects of nemvaleukin on the human tumor microenvironment in multiple solid tumor types <i>in vitro</i>
SOC: Standard of Care	

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Nemvaleukin: Preclinical Efforts Inform the Clinical Development Strategy

Preclinical Research			Clinical Research			
Molecular design	Confirmed selectivity	Demonstrated efficacy	First-in-human studies	Signal- seeking studies	Pivotal studies	
Receptor selectivity Maintained potency	CD8 ⁺ T cell & NK cell expansion Minimal expansion of T _{regs}	Monotherapy Combination with anti-mouse PD-1	Determined Recommended Phase 2 Dose from safety, PK and PD data	Responses in multiple tumor types (monotherapy and in combination with anti-PD-1)	Monotherapy Combination with pembrolizumab	
Demonstrate effi	cacy with compleme	ntary mechanisms	Potentia			
CPIs Growth Factor Chemotherapy / Radiation Pathway Inhibitors Other agents			New combinations / New indications New collaborations			

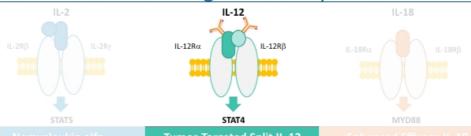
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Tumor-Targeted Split IL-12 Fusion Protein Program

Joshua Heiber, Ph.D.
Principal Scientist, Research, Oncology



Immune Modulation Portfolio of Engineered Cytokines



	SIAIS	SIAI4	IVIYU88
	Nemvaleukin alfa	Tumor-Targeted Split IL-12	Enhanced Efficacy IL-18
Technical challenge	 Efficacy of rhIL-2 limited by expansion of immunosuppressive T_{reg} cells and other undesirable effects 	 rhIL-12 has low tolerability when given systemically 	Efficacy of rhIL-18 limited by a checkpoint protein that binds to IL-18 (IL -18BP)
Alkermes' protein engineering solution	 Fusion of circularly permuted IL-2 with the IL-2Ra subunit resulting in only activating intermediate-affinity IL-2R 	Separate inactive tumor-targeted IL-12 subunits assemble and activate in the tumor	Engineered IL-18, for which activity is not blocked by suppressive mechanisms
Key anti-tumor mechanisms	 Expansion of CD8⁺ T cells and NK cells Minimal expansion of T_{reg} cells 	Drive proinflammatory responses at the tumor site through potent activation of CD8* T and NK cells	Enhance IL-18 mediated anti-cancer immune responses Reduce T cell exhaustion
Potential cancer types	 Solid tumors, including melanoma, platinum-resistant ovarian cancer 	Solid tumors, including pancreatic, breast, colon and ovarian cancer	Immunosuppressive tumor microenvironment Checkpoint inhibitor-resistant tumors

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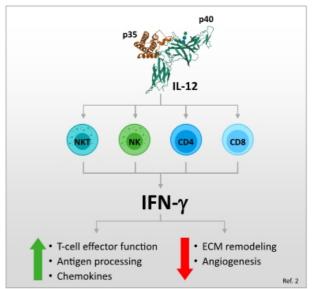
IL-12 is a Highly-Potent Proinflammatory Cytokine With Diverse Anti-Tumor Effects

IL-12 is a heterodimeric protein consisting of two covalently linked subunits p35 and p401

· Individual components are non-functional

Anti-tumor activity is driven through activation of both innate and adaptive immune compartments and production of IFN-γ1

· Robust anti-tumor efficacy observed in preclinical studies²



NKT= Natural killer T cell, NK= Natural Killer cell, CD4 = CD4+ T cell, CD8= CD8+ T cell

Nguyen KG et. al. Cancer Immunotherapy. Front. Immunol. October 15 2020 11:575597
 Vecchio MD et. al. Clin Cancer Res August 15 2007 (13) (16) 4677-4685

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IL-12 Potential Clinical Utility Limited by Severe Toxicities

Clinical evaluation limited due to severe toxicities associated with systemic exposure to IL-12 and its narrow therapeutic index1,2,3

· Systemic administration associated with the potential for rapid development of lethal inflammatory syndrome

Ongoing efforts in biopharma seeking to develop strategies for tumor-localized IL-12 delivery 1,2

- · Gene therapy, viral delivery, electroporation, nanoparticles
- Primarily based on intratumoral (IT) administration

Alkermes design intentions for engineered IL-12:

Harness the therapeutic potential of IL-12

Address delivery challenges associated with IT approaches

Avoid toxicity associated with systemic exposure to IL-12

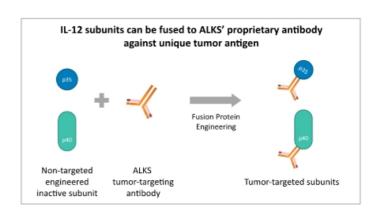
- Nguyen KG et. al. Cancer Immunotherapy. Front. Immunol. October 15 2020 11:575597 Vecchio MD et. al. Clin Cancer Res August 15 2007 (13) (16) 4677-4685 Strauss J et. al. Clin Cancer Res January 1 2019 (25) (1) 99-109

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Alkermes' Design Approach: Build Functional IL-12 in the Tumor Through Engineered Tumor-Targeted IL-12 Subunits

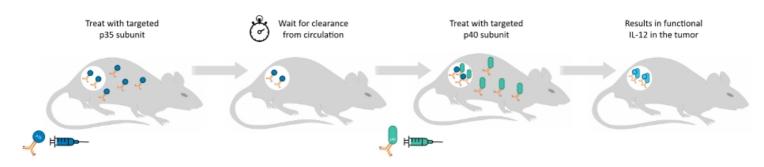
Key design considerations and challenges:

- Split IL-12 to create functionally inactive subunits to be directed to the tumor microenvironment
- Engineer IL-12 subunits to address inherent stability challenges in p35 production and enhance the affinity of non-covalently linked p35 and p40 subunits
- · Identify unique tumor-targeting antigen and generate proprietary antibodies
 - o Certain proteins exhibit increased expression in tumors relative to normal tissue and can be leveraged to target payloads to tumors with high specificity
- · Produce novel engineered tumor-targeted fusion proteins using proprietary antibodies



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Tumor Site-Specific Assembly of Functional IL-12 Designed to Avoid Systemic IL-12 Exposure

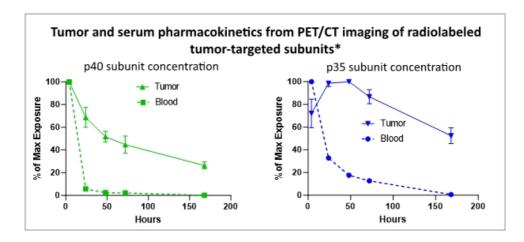


- Sequentially-timed injections of tumor-targeted subunits reduce systemic exposure to functional IL-12, thereby potentially reducing associated toxicities
- · Targeted accumulation of functional IL-12 in the tumor may improve anti-tumor activity



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Preclinical Data Demonstrated Differential Clearance of Targeted Subunits to Minimize Systemic IL-12 Exposure



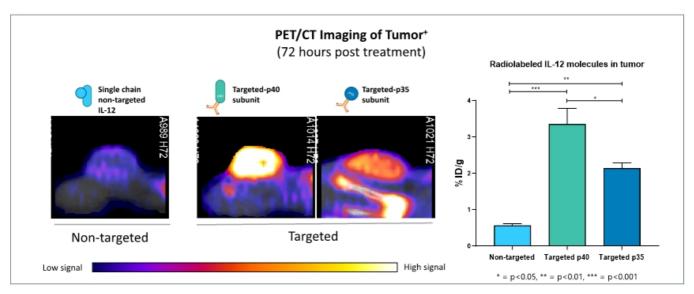
Tumor clearance of targeted IL-12 subunits was slower than serum clearance, facilitating tumor-specific assembly

*Alkermes internal data on file

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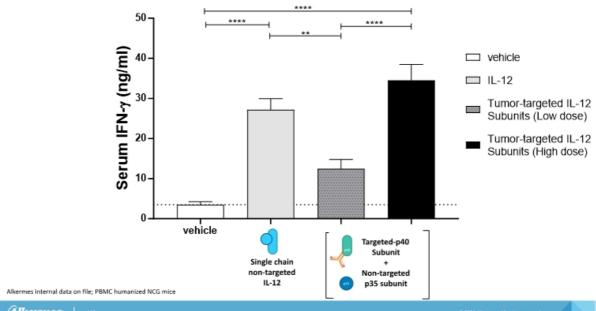
© 2021 Alkermes, All rights reserved.

Preclinical Data Demonstrated Accumulation of Tumor-Targeted Split IL-12 Subunits in the Tumor



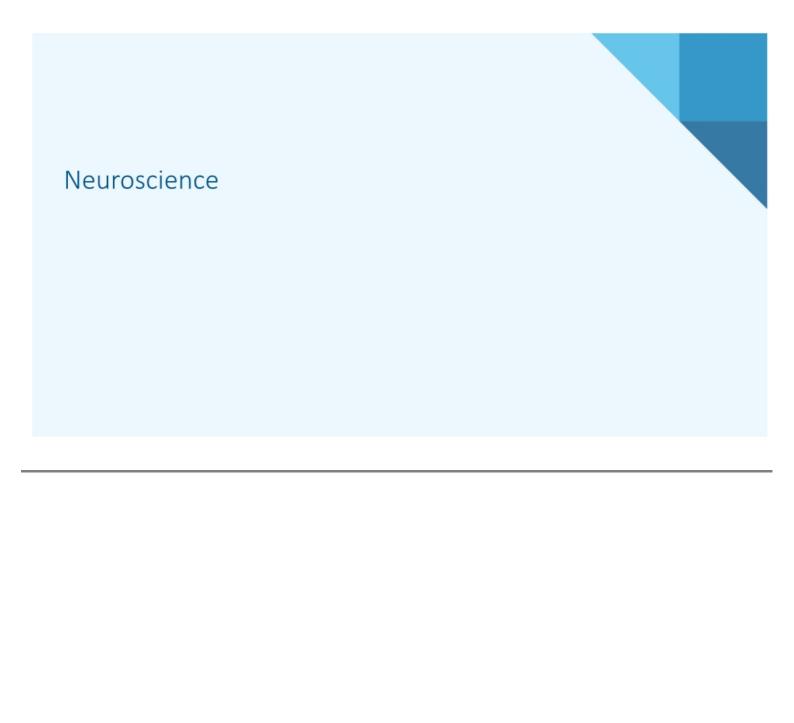
*Alkermes internal data on file; Murine CT-26 tumors in Balb/c mice; %ID/g = percent of injected dose per gram of tissue

Sequential Administration of Split IL-12 Subunits Resulted in Dose-Dependent Pharmacodynamic Response in Preclinical Study



Tumor-Targeted Split IL-12: Advancing Toward Preclinical Proof of-Concept and Cell Line Development

✓	Engineer tumor-targeted IL-12 subunits (fused to proprietary tumor-targeting antibody)
✓	Demonstrate that tumor-targeted IL-12 subunits are retained in tumors with expected kinetics
✓	Demonstrate that sequentially-administered IL-12 subunits combine to form functional IL-12 and drive dose-dependent IFN- γ production in humanized mice
✓	Complete humanization of tumor-targeting antibodies
Ongoing	Characterize lead candidates and preclinical proof-of-concept studies
Planned	Initiate cell line development



Selective HDAC Inhibitors in Synaptic Dysfunction

Markus Haeberlein, Ph.D. Senior Vice President, Research



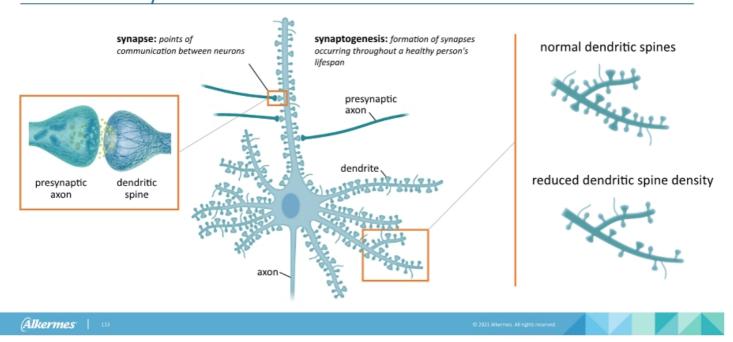
Alkermes' HDAC Inhibitor Portfolio

- · Introduction to synaptogenesis and synaptic dysfunction
- · Biological rationale for the program:
 - o Established epigenetic control of synapse formation and function modulated by HDAC inhibitors
 - o Limitations of first-generation HDAC agents as CNS therapeutics
- Alkermes' novel chemotypes: Rationally designed to selectively target the HDAC1/2 CoREST complex
- ALKS 1140: First nominated development candidate from HDAC inhibitor portfolio
- · Leveraging proprietary chemistry and insight to other potential compounds and indications, including Frontotemporal Dementia with Granulin Precursor Mutations (FTD-GRN)

HDAC: histone deacetylase

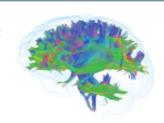
CoREST: co-repressor of repressor element-1 silencing transcription factor

Synapses Play a Vital Role in Brain Function, Learning and Memory



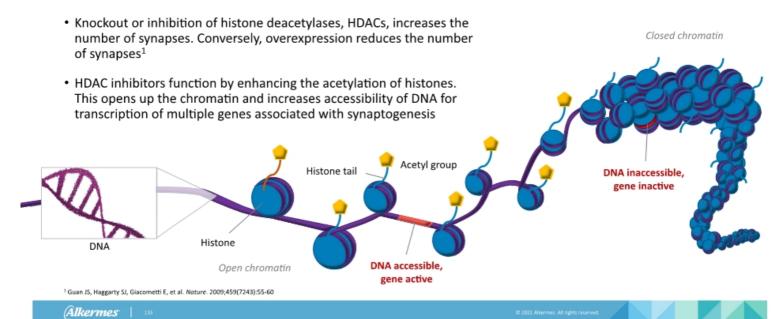
Synaptopathies Span Multiple Neurological Diseases Independent of Underlying Pathology

- Many neurological disorders are characterized by synaptic pathology, which includes:
 - o Synapse loss
 - o Abnormal density of dendritic spines
 - o Aberrant synaptic signaling and plasticity
- · Targeting the synapse may slow progression and preserve cognitive and functional abilities in a range of diseases

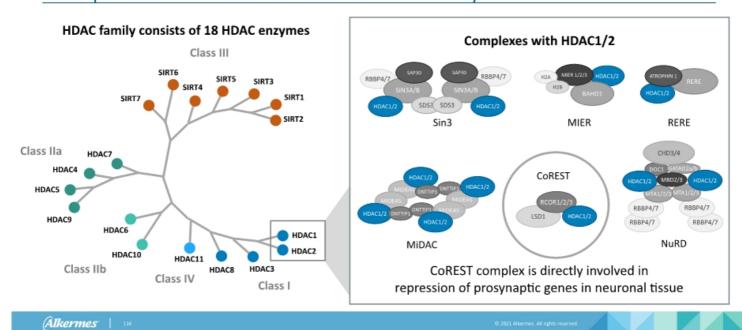


Neuropsychiatric	Neurodegenerative		Neurodevelopmental	
Bipolar Spectrum Disorder	Frontotemporal Dementia	Parkinson's Disease	Epilepsy	
Schizophrenia	Huntington's Disease	Cochlear	Autism spectrum disorders:	
Major Depressive Disorder	Alzheimer's Disease	Retinal	Phelan-McDermid Syndrome Fragile X Syndrom	ie
	Dementia in Down Syndrome		Tuberous Sclerosis Complex Rett Syndrome	

Epigenetic Control of Synaptogenesis



Class I HDACs Function in Association With Multi-Protein Complexes That Determine Their Activity



Alkermes' Novel Chemotypes Selectively Target HDAC1/2 Bound in the CoREST Complex

Alkermes has designed HDAC inhibitors binding Selectivity achieved by exploiting a key pocket to HDAC1/2 specifically in the CoREST complex present in HDAC1/2 RCOR1/2/3

Fuller et al. ACS Chem. Neurosci. 2019;10(3):1729-1743

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HDAC1/2 in the CoREST complex

Alkermes' Proprietary HDAC Inhibitors: Design Goals

Selectivity: Selectively inhibit HDAC-CoREST complex

Safety: Demonstrate favorable hematological safety

Brain penetration: Exhibit desired brain exposure

ALKS 1140: A Novel CoREST-Selective Inhibitor Candidate for the Treatment of Neurodegenerative and Neurodevelopmental Disorders

ALKS 1140 Achieved Alkermes' HDAC Compound Design Goals

Selectivity:

Selectively inhibited **HDAC-CoREST** complex

80-250-fold selectivity vs. other HDAC Class I complexes*

Safety:

Demonstrated favorable hematological safety

Minimal effects in vitro and in preclinical in vivo assessments*

Brain penetration:

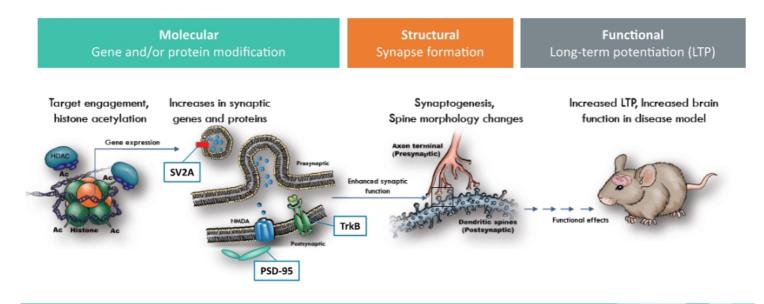
Exhibited desired brain exposure



 $CSF/C_{plasma, unbound}$ ratio in $rat/dog/NHP = 0.6-1.5^*$

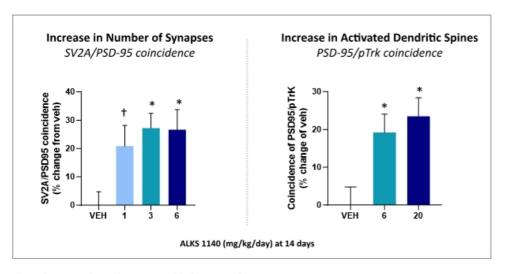
CSF: cerebrospinal fluid *Alkermes data on file

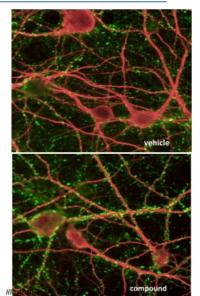
Rational Assessment of HDAC Inhibitors via Molecular, Structural and Functional Assays





ALKS 1140 Increased Proteins Related to Number of Synapses and Activated Dendritic Spines





overlaid on MAP2 (dendrites); Alkermes data on file

 $^\dagger p \! < \! 0.1; \, ^\ast p \! < \! 0.05;$ Data from wild type mouse model in hippocampus slices Alkermes data on file

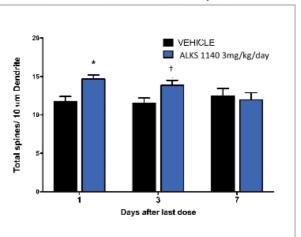


ALKS 1140 Increased Density and Persistence of Dendritic Spines

Increased Dendritic Spine Density

1401 ALKS 1140 Vehicle at Day 14 Vehicle Spine density (% of vehicle) 120 ALKS 1140 at Day 14 80 B Days of administration (3mg/kg/day)

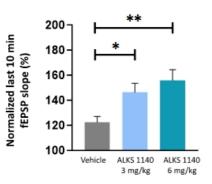
Persistence of Dendritic Spines



 $^{\dagger}p{<}0.1;\,^{\dagger}p{<}0.05;\,^{\star\star}p{<}0.01;$ Data from wild type mouse model Alkermes data on file

ALKS 1140 Improved Synaptic Efficacy in Wild Type Mice and Restored Synaptic Function in Disease Model

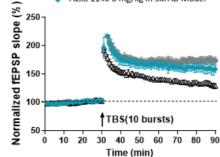
Long-term Potentiation in Wild Type Mice

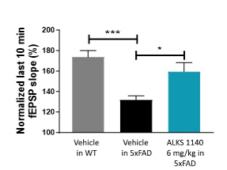


Ordinary one-way ANOVA, Holm Sidak post hoc

Long-term Potentiation in Transgenic Mice with Hippocampal Synaptic Deficit (5xFAD)

- Vehicle in Wild Type Model
- Vehicle in 5xFAD Model
- ALKS 1140 6 mg/kg in 5xFAD Model





*p<0.05; **p<0.01; ***p<0.001

fEPSP: field excitatory postsynaptic potential; WT: wild type mouse model 5xFAD: Five Alzheimer's Disease-linked mutations in 9-10-month-old mice

Potential Indications in Neurodegenerative and Neurodevelopmental Disorders With Cognitive Deficits

- Indications that share common pathophysiology of synaptic dysfunction in hippocampus with deficits in cognition
- o Includes certain autism spectrum disorders with reduced synaptic density
- Initial clinical focus on rare and orphan diseases with potential expedited development pathways
- Plan to select lead indications based on preclinical and human biomarker data

Potential Indications: Focused on Rare and Orphan Diseases



NEURODEGENERATIVE

- · Huntington's Disease
- · Dementia in Down Syndrome



NEURODEVELOPMENTAL

- · Angelman Syndrome
- Phelan-McDermid Syndrome
- Rett Syndrome
- · Tuberous Sclerosis Complex

ALKS 1140 Development Plan: Seek Early Clinical Evidence of Activity

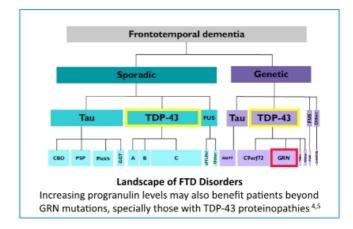
Synaptic biomarkers and neurocognitive assessments are core components of the early clinical development plan and program decision-making

Early Clinical Development Plan	Objectives			
Phase 0 Biomarker Study Planned initiation: 2021	 Identify differences in synaptic biomarkers between healthy volunteers and patients with neurodegenerative/ neurodevelopmental diseases and inform indication selection 			
Phase 1 SAD/MAD Planned initiation: 2021	 Determine PK/PD relationship and MTD in healthy volunteers Determine ALKS 1140's effects on select biomarkers 			
	•			
Phase 1b: Basket studies in neurodevelopmental and neurodegenerative disorders	 Confirm ALKS 1140's effect on biomarkers of synaptopathy and neurocognitive function Prioritize indications and biomarkers for proof-of-concept studies 			

Leveraging Alkermes' HDAC Chemistry Expertise in New Indications: Frontotemporal Dementia With Granulin Precursor Mutations (FTD-GRN)

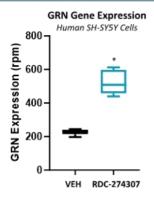
Treatment Options Needed for Frontotemporal Dementia With Granulin Precursor Mutations (FTD-GRN)

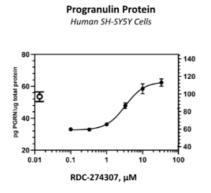
- Frontotemporal Dementia (FTD) is caused by degeneration of the frontal and/or temporal lobes
 - o FTD patients demonstrate severe synaptic deficits 1
 - o ~60,000 people in U.S. have FTD2
 - o No currently available therapies
- FTD-GRN is caused by mutation in granulin (GRN) gene
 - o Carriers exhibit low levels of the progranulin protein
 - o ~6,000 people in U.S. have FTD-GRN3,4
 - o Average age of onset is ~56 years with a ~6-year survival rate4
- Specific HDAC inhibitors have increased progranulin in vitro6

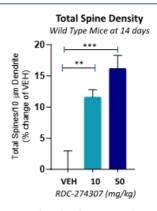


¹ Guan JS, Haggarty SJ, Giacometti E, et al. Nature. 2009;459(7243):55-60;² Knopman D, et al. J Mol Neurosci. 2011;45:330-335;³ Wauters E, et al. Trends in Molecular Medicine. 2017;23(10), 962-979;
⁴ Greaves, C. V., et al. J. Neurobiol. 2019;266:2075-2086;⁵ Elia et al., Neuropharmacology 2020;166; ⁶ Clare, R. et al. "Synapse loss in dementias," J. Neurosci. Res. 2010;88(10):2083-2090

Alkermes' HDAC Inhibitors Increased Both Progranulin Levels and Dendritic Spine Density







- Studies in human neuronal cultures and transgenic animal models suggest that increasing levels of progranulin protein in FTD-GRN model systems can help rescue pathology 1,2
- Alkermes' HDAC inhibitors increased GRN gene expression and progranulin protein in vitro
- Demonstrated ability to increase synaptic density presents opportunity for additional therapeutic benefits to FTD patients

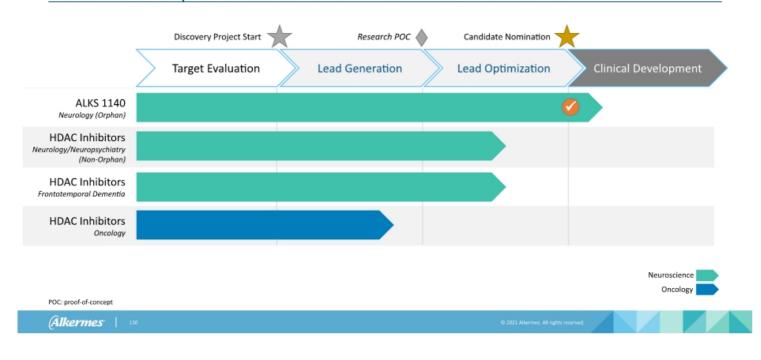
¹ Gass, J., et al. *Mol. Neurodeg.* 2012;7(33) ² Kleinberger, G., et al. *Mol. Neurobiol.* 2013;47:337-360

*p<0.05, adjusted for multiple testing by false discovery rate

p<0.01; *p<0.01; VEH: Vehicle
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Alkermes' Pipeline of Selective HDAC Inhibitors



Orexin 2 Receptor Agonists for the Treatment of Narcolepsy and Other Sleep Disorders

Brian Raymer, Ph.D.

Senior Director, Research Project Leadership and Strategy



Abnormal Neurotransmission of Orexin in the Brain Seen in Patients With Sleep Disorders

- Orexin, also known as hypocretin, is a neuropeptide produced in the hypothalamus
- Orexin controls sleep and arousal by stimulating the release of neurotransmitters that promote alertness, such as histamine, serotonin and norepinephrine
- · Orexin acts on two receptors:
 - Orexin 2 receptor (OX2R): Wakefulness
 Orexin 1 receptor (OX1R): Reward
- In narcolepsy and other sleep disorders, low orexin levels lead to inconsistent neurotransmitter release, resulting in sleep lapses and poor regulation of REM sleep

Orexin neurons promote wakefulness and modulate reward pathways

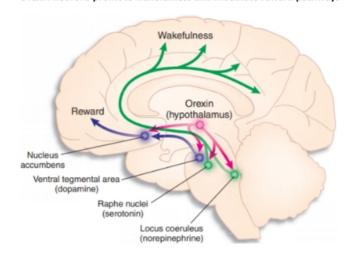


Figure from: Scammell, T E, and Saper, C B. Nature medicine. 2007;13:126-8

Alexandre, Chloe et al. Current opinion in neurobiology. 2013;23:752-9

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Narcolepsy: A Chronic Neurological Disorder

- · Chronic neurological disorder characterized by daytime sleepiness and sudden transitions into sleep1
- Affects ~200,000 people in U.S. and 3M people globally²
- 70% of narcolepsy patients have narcolepsy type 13, distinguished by:
 - o Cataplexy, a sudden muscle weakness triggered by strong emotions
 - o Low or no orexin in the brain
- · Current approved medicines treat symptoms but do not address underlying orexin deficiency
 - o Stimulant medications often associated with potential abuse and safety concerns, including effects on heart rate and blood pressure



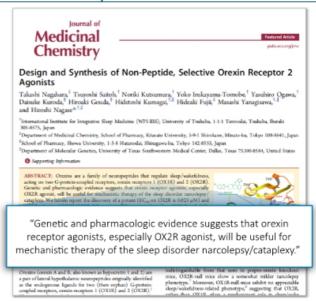
Global Narcolepsy Drugs Market, Forecast 2019-2025. Allied Market Research
 Swick TJ. Treatment paradigms for cataplexy in narcolepsy: past, present, and future. Nat Sci Sleep. 2015;7:159-169



Burgess CR, Scammell TE. Narcolepsy: neural mechanisms of sleepiness and cataplexy. Journal of Neuroscience. 2012;32:12305–12311

Recent Identification of Orexin 2 Receptor Agonists Presents Opportunity for New Sleep Disorder Therapies

- · OX2R agonists may have utility as replacement therapy for low or no levels of orexin by stimulating downstream release of wake-promoting neurotransmitters
- · Potential applicability in narcolepsy and other indications with excessive daytime sleepiness (EDS), fatigue and attention issues
- · Selective OX2R agonists may provide improved safety over currently available therapies

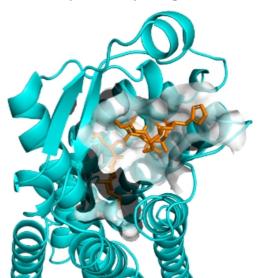


J. Med. Chem. 2015;58:7931-7937

Leveraging Alkermes' Molecular Design Capabilities to Target Orexin Dysfunction in Narcolepsy

- · Working to develop a best-in-class molecule designed to:
 - o Mimic potency and performance of endogenous peptide OX2R agonist with orallybioavailable therapy
 - o Possess favorable half-life
 - o Have PK/PD profile that mirrors natural wake cycle
 - o Avoid safety risks associated with stimulant medications

OX2R in Complex with Peptide-Agonist Orexin-B



PK; pharmacokinetic; PD: pharmacodynamic Figure adapted from: Hong, Chuan, et al. *Nature communications*. 2021:12; 3. PDB ID: 7L1U

Design Goals: Differentiated Orexin 2 Receptor Agonist to Address Unmet Patient Needs

Robust Efficacy

- · Increased wakefulness duration
- · Improved cataplexy control

Convenient Dosing

- · Once-daily, oral medication
- Dose to allow for 8-12 hours wakefulness with no later insomnia

Favorable Tolerability

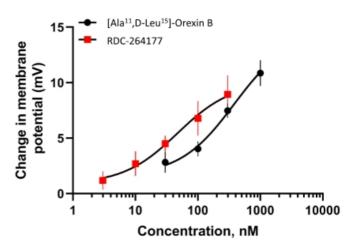
· Reduced risk of heart rate and blood pressure effects seen with stimulants

Alkermes' Lead Orexin Candidate, RDC-264177, Demonstrated Potency Superior to Orexin Peptide in Preclinical Studies

- Application of RDC-264177 ('177) induced robust concentration-dependent increases in neuronal excitability in rodent brain tissue
- RDC-264177 demonstrated greater potency compared to an orexin-B synthetic peptide

OX2R Activ	ity
[Ala ¹¹ ,D-Leu ¹⁵]-Orexin B	381.0 nM
RDC-264177	47.4 nM

Activation of OX2R-Expressing Histamine Neurons

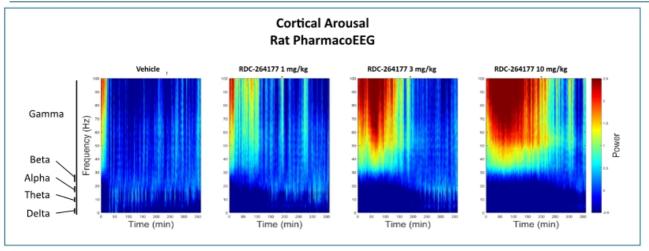


nM: nanomolar Alkermes data on file

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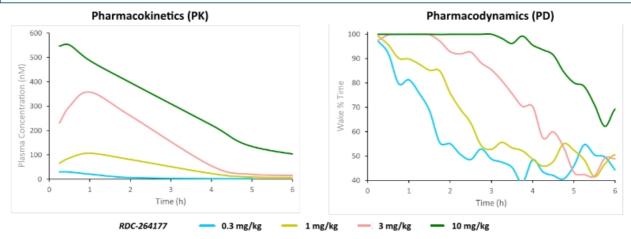
RDC-264177 Promoted Prolonged Wakefulness in Preclinical In Vivo Studies



RDC-264177 via oral dosing demonstrated dose-dependent wake duration (shown by red gamma bands and dark blue theta and delta bands)

PharmacoEEG: Pharmaco-electroencephalography Alkermes data on file

RDC-264177 Demonstrated Dose-Dependent Increases in Exposure and Wakefulness



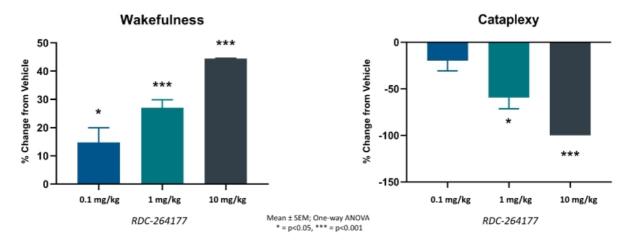
- Strong PK/PD relationship demonstrated in rat EEG model suggests potential for low human dose
- RDC-264177 did not adversely elevate heart rate and blood pressure in a rat hemodynamic model at pharmacologically-relevant plasma exposures

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RDC-264177 Demonstrated Dose-Dependent Increased Wakefulness and Reduced Cataplexy in Predictive Model



DTA mouse model of narcolepsy^{1,2} serves as a predictive disease model of narcolepsy in humans

Moving Forward in Development: Potential for Meaningfully Differentiated Orexin Agonist

Nomination of lead candidate, RDC-264177, planned for 2021 based on data that demonstrated potential for:

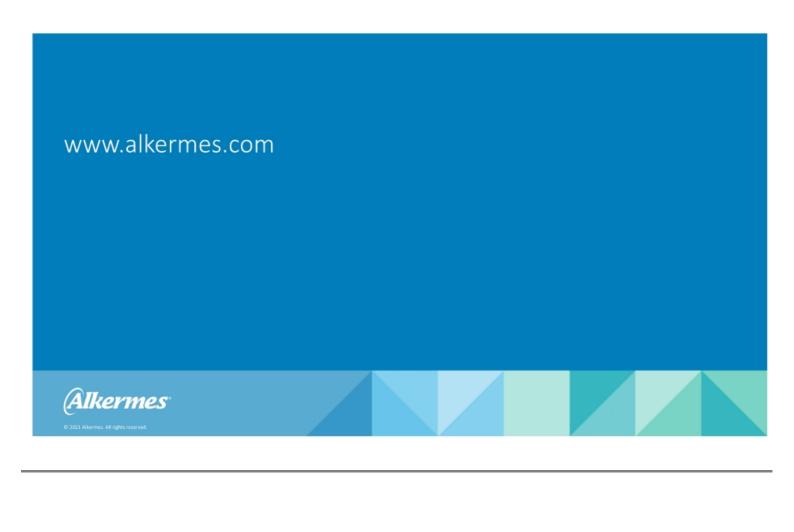
- · Robust efficacy
- · Convenient dosing
- · Favorable tolerability

Developing efficient clinical strategy with early stage-gates based on known biomarkers

· EEG biomarkers to determine sleep/wake states in animal models, with direct translation to humans

Prioritizing study of additional potential indications based on orexin biology, clinical feasibility, association with excessive daytime sleepiness and unmet need

- · Obstructive sleep apnea
- · Idiopathic hypersomnia
- · Parkinson's disease
- · Traumatic brain injury



Appendix



Alkermes plc and Subsidiaries GAAP to Non-GAAP Adjustments (Unaudited)

An itemized reconciliation between net loss according to generally accepted accounting principles in the U.S. (GAAP) and net income on a non-GAAP basis is as follows:

(in militions, except margin %)	Year ended December 31, 2019		Year ended December 31, 2020		Year ending December 31, 2021 Projected *	
Total Revenues	s	1,170.9	S	1,038.8	S	1,135.0
Net Loss — GAAP	S	(196.6)	S	(110.9)	S	(105.0)
Net Loss Margin — GAAP		-1796		-1196		-996
Adjustments:						
Share-based compensation expense		101.0		90.2		93.0
Depreciation expense		40.1		42.4		46.0
Amortization expense		40.4		39.5		40.0
Income tax effect related to reconciling items		5.8		10.1		5.0
Non-cash net interest expense		0.7		0.7		1.0
Change in the fair value of contingent consideration		22.8		(3.9)		-
Change in the fair value of warrants		(1.8)		-		-
Acquisition of IPR&D		86.6		0.7		-
Restructuring expense		13.4		-		-
Non-GAAP Net Income	S	112.2	S	68.6	S	80.0
Non-GAAP Net Income Margin		10%		796		796

^{*} Projected GAAP and non-GAAP measures for the year ending December 31, 2021 reflect the mid-point of the ranges of the financial expectations provided, along with the assumptions and risks underlying such expectations, in Alkermes ple's (the "Company" Current Report on Form 8-K filed with the SEC on February 11, 2021. The Company expressely disclaim, pobligations to update or affirm these

income/total revenues), are not based on any standardized methodology prescribed by GAAP and are not necessarily comparable to similar measures presented by other companies. Non-GAAP net income adjusts for one-time and non-cash charges by excluding from GAAP results: share-based compensation expense; amortization; depreciation; non-cash net interest expense; certain other one-time or non-cash items; and the income tax effect of these reconciling items. The Company's management and board of directors utilize these non-GAAP financial measures to evaluate the company's performance. The Company provides have non-GAAP measures of the Company's performance to investors because management believes that these non-GAAP financial measures, when viewed with the Company's results under GAAP and the accompanying reconciliations, are useful in identifying underlying trends in ongoing operations. However, non-GAAP net income and non-GAAAP net income margin are not measures of financial performance under GAAP and, accordingly, should not be considered as alternatives to GAAP measures as indicators of operating performance.

The Company has not provided financial expectations for time periods after the year ending December 31, 2021 and therefore is not providing reconciliations of, or companable GAAP financial measures for, non-GAAP financial measures, including non-GAAP net income margin or EBITIDA margin (EBITIDA) total revenues), for time periods after the year ending December 31, 2021 (BBITIDA) Earnings before interest, tax, depreciation, amortization, Reconciliations of such forward-looking non-GAAP financial measures to GAAP are not provided as they are not determinable without sureasonable efforts due to the inherent difficulty in forecasting and quantifying certain amounts that would be necessary for such reconciliations, which amounts could have a significant impact on the Company's future financial results, including such the non-GAAP financial measures and the comparable GAAP financial measures.