

Research & Development Oncology Program Announcement

July 2023



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Krystal R&D Leadership



Suma Krishnan

President, Research & Development



David Chien, MD

SVP, Clinical Development – Oncology



Trevor Parry, PhD *VP, Research and Scientific Affairs*





Samuel Broder, MD

- Former Director of the National Cancer Institute where he oversaw the development of numerous anti-cancer therapeutic agents, such as TAXOL® and helped launch a number of large-scale clinical trials related to the prevention, diagnosis, and treatment of cancer, and he inaugurated the highly successful SPORE Program
- Authored over 340 scientific publications and is an inventor on many patents
- Elected to the National Academy of Medicine in 1991



Jason J. Luke, MD, FACP

- Associate Professor of Medicine in the Division of Hematology/Oncology at the University of Pittsburgh and UPMC Hillman Cancer Center
- Associate Director for Clinical Research and the Director of the Immunotherapy and Drug Development Center (Phase I) at UPMC
- Leading investigator in immunotherapeutics, having led trials of checkpoint inhibitors, bispecifics, metabolism modifiers, innate agonists, oncolytic viruses, and cellular therapies; over 150 publications
- Leadership roles for the Melanoma Committees of ASCO, Society for Melanoma Research, AACR and Board Member at SITC



Forward-Looking Statements and Disclosures

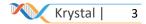
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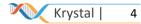
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Disclosures

Dr. Jason Luke is a paid consultant of Krystal Biotech, Inc. The views expressed by Dr. Jason Luke in this presentation are his own views and not those of the University of Pittsburgh or UPMC.



Introduction	Krish Krishnan; Chairman and CEO
Krystal Oncology Program	
Therapeutic Approach & Target Indications	Suma Krishnan, MS, MBA; President, Research & Development
	Samuel Broder, MD
Preclinical Overview	Trevor Parry, PhD; VP, Research and Scientific Affairs
Clinical Program	David Chien, MD; SVP, Clinical Development
Lead Investigator's Perspective	Jason J. Luke, MD, FACP
Q&A	All Speakers
Closing	Krish Krishnan, Chairman and CEO



Krystal Oncology Program Therapeutic Approach & Target Indications

Oncology Program is Building on Our Foundation in Gene Delivery

Success and clinical experience in skin and lung gene delivery provides opportunity to target solid tumors of these tissues

Skin

- Krystal's lead product, VYJUVEKTM, is the first approved topically applied gene therapy for DEB, a debilitating skin disease¹⁻³
- Topical and intradermal product candidates for ARCI and aesthetic indications currently in clinical trials^{4,5}
- Clear molecular evidence of gene delivery in humans via either route of delivery³⁻⁵
- Well tolerated in all studies to date¹⁻⁵
- Safety, efficacy, redosability and payload delivery demonstrated in clinical trials¹⁻⁵

Lung

- First Patient Dosed in cystic fibrosis clinical trial⁶
- Multiple inhaled delivery programs in or entering clinic in 2023
- Demonstrated in multiple animal models, including NHPs, that local delivery results in broad payload distribution in cells lining conducting airways of the lung⁷
- Clean toxicology profile in GLP studies⁷

Krystal Biotech, Data on File.

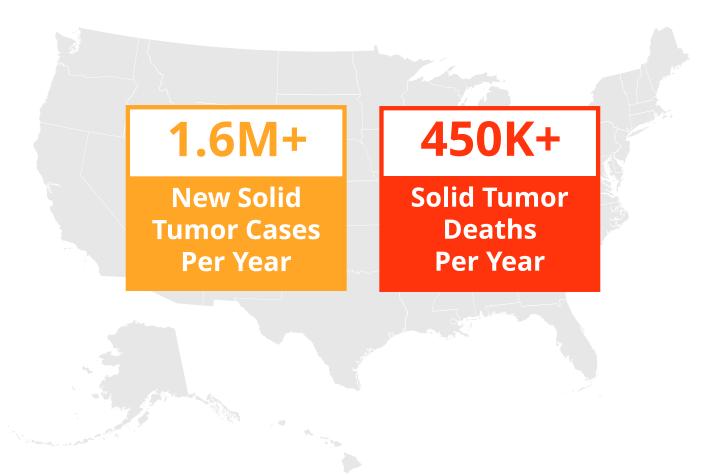
ARCI, autosomal recessive congenital ichthyosis; DEB, dystrophic epidermolysis bullosa; GLP, good laboratory practices; NHP, non human primates



^{1.} Krystal Biotech. 2023; VyjuvekTM (beremagene geperpavec-svdt) FDA Label; 2. Guide SV, et al. *N Engl J Med.* 2022; 387(24):2211 9; 3. Gurevich I et al. *Nat Med* 2022; 28:780 788; 4. Krishnan S, et al. Poster #169 at 2021 SID Annual Meeting (Virtual); 5. Paller A. Presentation at 2020 SID Annual Meeting (Virtual); 6. Krystal Biotech. Press Release July 3, 2023; 7. Parry T, et al. Poster #541 at 2021 NACFC (Virtual)

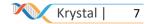
Major Unmet Needs in Checkpoint Inhibitor (CPI) Refractory Solid Tumors

Solid Tumor Incidence and Mortality in US 2023 SEER Estimates¹



1. NCI SEER. 2023; https://seer.cancer.gov/statfacts/html/common.html [accessed July 20, 2023], combined estimates for incident cases and deaths from cancers of the anus, bladder, bone and joint, brain and nervous system, breast, cervix uteri, colon and rectum, eosophagus, kidney and renal pelvis, larynx, liver and intrahepatic bile duct, lung and bronchus, melanoma, oral cavity and pharynx, ovary, pancreas, prostate, small intestine, stomach, testis, thyroid, uterus, and vulva

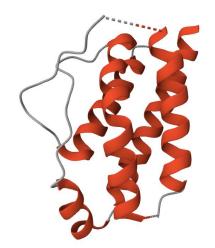
SEER; Surveillance, Epidemiology, and End Results Program; US, United States



HSV-1 Based Vector Coded for the Local Delivery of Both IL-2 and IL-12

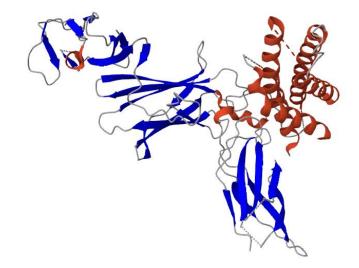
Cytokines with synergistic functions and therapeutic potential

IL-2



Expand and Activate Lymphocyte Population¹⁻³

Well-characterized NK and T cell activator with known roles inducing T cell proliferation and promoting NK and T cell cytotoxic functions IL-12



Reinforce Cytotoxic Effector Functions^{4,5}

Complementary cytokine known to promote lymphocyte effector functions and IFN-gamma secretion

1. IL-2 image from the RCSB PDB (RCSB.org) of PDB ID 1M47 [image generated July 20 2023]; 2. Jiang T, et al. Oncolmmnuology. 2016; 5(6):e1163462; 3. Morgan DA, et al. Science. 1976; 193(4257):1007-1008; 4. IL-12 image from the RCSB PDB (RCSB.org) of PDB ID 1F45 [image generated July 20 2023]; 5. Lasek W, et al. Cancer Immunol Immunother. 2014; 63:419-35

IL-12, interleukin-12; IL-2, interleukin-2; NK, natural killer



Advantages of Replication-Defective HSV-1 Based Cytokine Delivery

Platform well suited to accomplish dual goals of targeted but sustained delivery of IL-2 and IL-12 to the tumor

Optimal vector platform to maximize cytokine expression and immune activation

- Efficiently transduces a wide variety of cell types maximizing reach within tumor
- ✓ DNA payload persists in transduced cells extending the window of cytokine expression
- Lack of replication avoids premature lytic cell death or host cell shutdown
- Redosability to further boost local cytokine expression

✓ Safety profile suitable for both **inhaled** or **intratumoral** administration

Krystal Biotech, Data on File.



Potential KB707 Target Indications for the Skin



8K Estimated 2023 US Melanoma Deaths¹

CPI Refractory Melanoma

- Over 97K new US melanoma cases expected in 2023; 14K classified as regional or distant at diagnosis¹
- CPI combos often used first-line, overall response rates (ORR) roughly 40-60%²
- Most patients either non-responsive or eventually progress to chemotherapy^{2,3}
- Prognosis on chemotherapy is poor; ORR 10% or less, median survival < 1 year⁴

10K+ Estimated Gorlin Pts in US⁵

Basal Cell Carcinoma (BCC) and Gorlin

- Often addressed with surgery but Gorlin patients predisposed to recurrent BCC^{5,6}
- Can have hundreds of BCCs over their lifetime with frequent surgeries⁶
- Systemic therapies either too toxic for regular use or have modest efficacy^{7,8}
- No specific therapy FDA approved for patients with Gorlin

2.4 Years Median Survival RDEB-SCC^{9*}

Squamous Cell Carcinoma (SCC) and RDEB-SCC

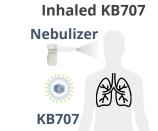
- Over 1M new cases in US each year, metastasis rates estimated at 2-6%¹⁰⁻¹³
- Treatment options limited to CPI with ORR of 30-50% or chemotherapy^{8,14}
- Acute unmet need in RDEB patients with SCC, aggressive and lethal⁹

1. NCI SEER. 2023; https://seer.cancer.gov/statfacts/html/common.html [accessed July 20, 2023], advanced = regional or distant; 2. Larkin J, et al. *N Engl J Med*. 2019; 17;381(16):1535-1546; 3. Atkins MB, et al. *J Clin Oncol*. 2023; 41(2): 186-197; 4. Goldfinger SM, et al. *Eur J Cancer*. 2022; 162: 22-33; 5. Based on 1:31K prevalence estimate from Evans DG, et al. *GeneReviews* 201, https://www.ncbi.nlm.nih.gov/books/NBK1151/ [accessed July 20, 2023]; 6. Solis DC, et al. *JAMA Dermatol*. 2017; 153: 189-192; 7. Tang JY, et al. *N Engl J Med*. 2012; 366: 2180-2188; 8. Sanofi. 2021; Libtayo® (cemiplimab-rwlc) FDA Label; 9. Median survival for patients classified as having severe RDEB from Robertson SJ, et al. *Acta Derm Venereol*. 2021; 101(8): 100; 10. Skin Cancer Foundation. 2021. Our New Approach to a Challenging Skin Cancer Statistic - The Skin Cancer Foundation [accessed July 20, 2023]; 11. Rogers JW, et al. *JAMA Dermatol*. 2015; 151(10): 1081-1086; 12. Patel VA, et al. *Cancer Med*. 2022; 11: 94-103; 13. Tokez S, et al. *J Am Acad Dermatol*. 2022; 86: 331-338; 14. Merck, 2023; Keytruda® (pembrolizumab) FDA Label

CPI, checkpoint inhibitor; RDEB, recessive dystrophic epidermolysis bullosa; US, United States;



Potential KB707 Target Indications for the Lung



Two Year Survival Rates on PD-1 Targeting CPI + Chemotherapy Nonsquamous NSCLC, Split by PD-L1 TPS^{1*}

39.3%	44.3%	52.2%
PD-L1 Low	PD-L1 Mid	PD-L1 High

- Over 238K new lung cancer cases and over 127K deaths estimated in US in 2023²
- CPI are increasingly used first-line but benefits from CPI transient and vary by PD-L1 expression level²⁻⁴
- In patients with low to mid PD-L1 expression, combination regimens with chemotherapy often used²⁻⁴
- New agents needed to improve patient outcomes in front-line and CPI refractory setting as well as reduce reliance on chemotherapy



^{1.} Garassinio MC, et al. J Clin Oncol. 2023; 41(11): 1992-1998; 2. NCI SEER. 2023; https://seer.cancer.gov/statfacts/html/common.html [accessed July 20, 2023]; 3. Bodor JN, et al. J Oncol Pract. 2018; 14(9): 529-535; 4. Singh N, et al. J Clin Oncol. 2022; 40(28): 3323-3343

^{*}PD-L1 Low = TPS < 1%,PD-L1 Mid = TPS 1%-49%, PD-L1 High = TPS $\geq 50\%$

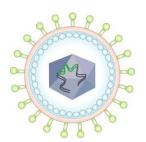
CPI, checkpoint inhibitor; NSCLC, non small cell lung cancer; PD-L1, programmed death-ligand 1; TPS, tumor proportion score; US, United States

Oncology Program KB707 Preclinical Update

Preclinical Research Objectives

Research program built on stringent preclinical models to support clinical development

KB707



Replication-defective HSV-1 vector containing functional human *IL2* and *IL12*

- Confirm expression, secretion, and bioactivity of vector-produced cytokines
 - Assess durability of expression following local delivery in healthy immunocompetent animals
- Demonstrate safety and efficacy of repeated dosing of cytokine-expressing vectors in checkpoint refractory 'cold' syngeneic murine models of solid tumors

IL-12/IL12, interleukin-12; IL-2/IL2, interleukin-2



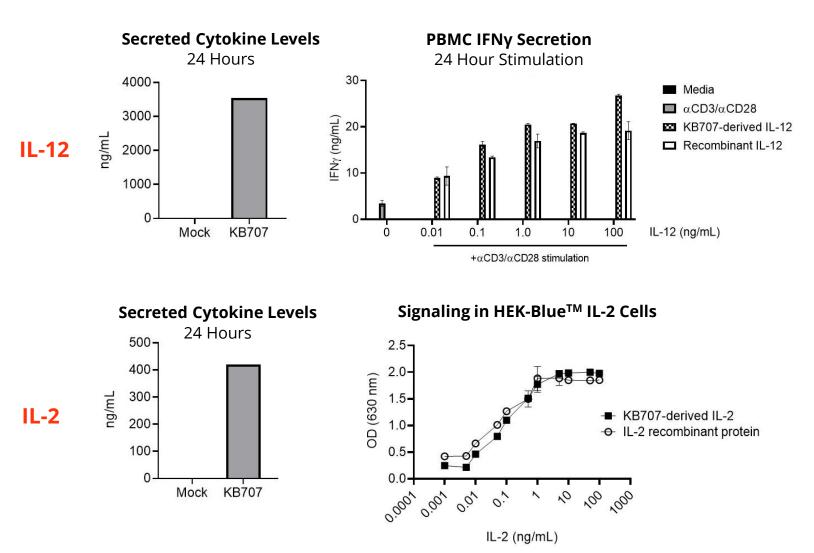
KB707 Transduction and Cytokine Secretion by Mammalian Cells In Vitro

Vector-derived, secreted IL-12 and IL-2 equivalently bioactive to commercial recombinant proteins

Initial studies conducted in HEK293FT cells demonstrated that KB707 efficiently transduced mammalian cells, resulting in production and secretion of bioactive IL-2 and IL-12

- IL-2 and IL-12 detected in cell culture supernatants 24 hours after transduction at MOI of 1
 - IL-12: Over 3,000 ng / mL
 - IL-2: Over 400 ng / mL
- KB707-derived IL-12 shown to elicit comparable IFNy response from PBMCs as commercially available recombinant IL-12 after 24-hour *in vitro* co-stimulation with anti-CD3 / anti-CD28
- KB707-derived IL-2 elicited equivalent SEAP activity as commercially available recombinant cytokine in HEK-Blue-IL-2 cells, a proxy for IL-2 signaling,

Cytokine production and secretion also confirmed in KB707-transduced primary human dermal fibroblasts and small airway epithelial cells, with evidence of cytokine accumulation in supernatants from 24 to 48 hours



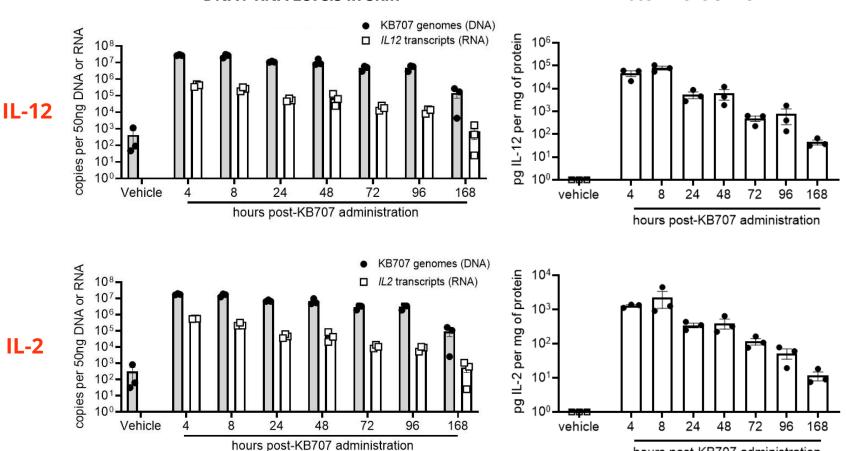
Krystal Biotech, Data on File.

CD3, cluster of differentiation 3; CD8, cluster of differentiation 8; HEK, human embryonic kidney; IFNy, interferon gamma; IL-12, interleukin-12; IL-2, interleukin-2; MOI, multiplicity of infection; PBMC, peripheral blood mononuclear cell; SEAP, secreted embryonic alkaline phosphatase

Sustained Cytokine Expression After Intradermal Delivery to Mice

Vector genomes, cytokine transcripts, and protein detected out to seven days after single administration

- Short half life of cytokines has limited clinical utility; FDA approved treatment regimen with recombinant IL-2 requires dosing three times daily¹
- BALB/c mice administered 8×10⁸ PFU of KB707 by intradermal injection
- Tissues collected for assessment of IL-2 and IL-12 expression at nucleic acid and protein levels, n = 3 samples per time point
- Peak cytokine protein levels observed at 8 hours post injection, remained detectable through Day 7
- Both DNA and RNA detectable through Day 7, potential for accumulation with repeat dosing
- Intradermal administration well tolerated with low systemic cytokine exposure



DNA / RNA Levels in Skin

Protein Levels in Skin

hours post-KB707 administration

1. Clinigen, 2019, Proleukin® (aldesleukin) FDA Label

Krystal Biotech, Data on File.

DNA, deoxyribonucleic acid; IL-12, interleukin-12; IL-2, interleukin-2; PFU, plaque forming unit; RNA, ribonucleic acid



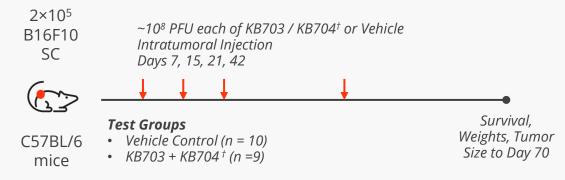
Intratumoral IL-12 and IL-2 Effective in Cold Syngeneic Mouse Tumor Model

Clear antitumor effect and survival benefit in checkpoint inhibitor refractory B16F10 tumor model

Single Flank B16F10 Melanoma Model

- B16F10 is a subclone of the B16 cancer cell line originally derived from the skin of a C57BL/6 mouse with melanoma
- B16F10 tumors are highly aggressive and minimally responsive to immunotherapy, including refractory to PD-1 targeting CPI
- Among the most stringent melanoma cell lines for the evaluation of candidate immunotherapeutics

Study Design

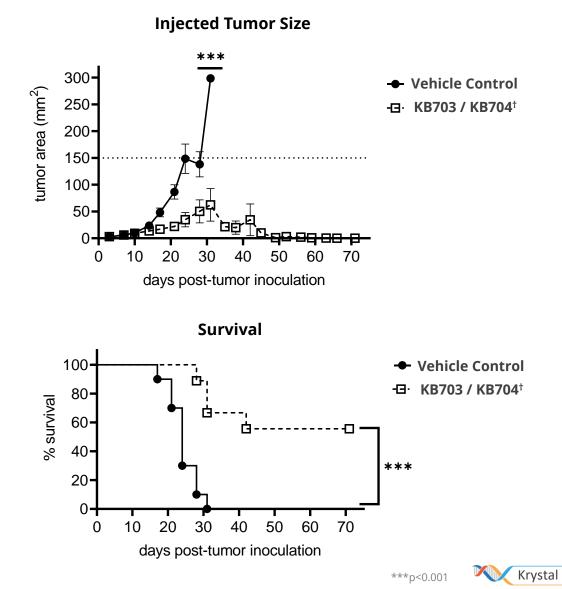


Krystal Biotech, Data on File.

[†] KB703 encodes murine IL-12, KB704 encodes murine IL-2, and KB703 + KB704 is murine equivalent to KB707

IL-12, interleukin-12; IL-2, interleukin-2; PFU, plaque forming unit; SC, subcutaneous

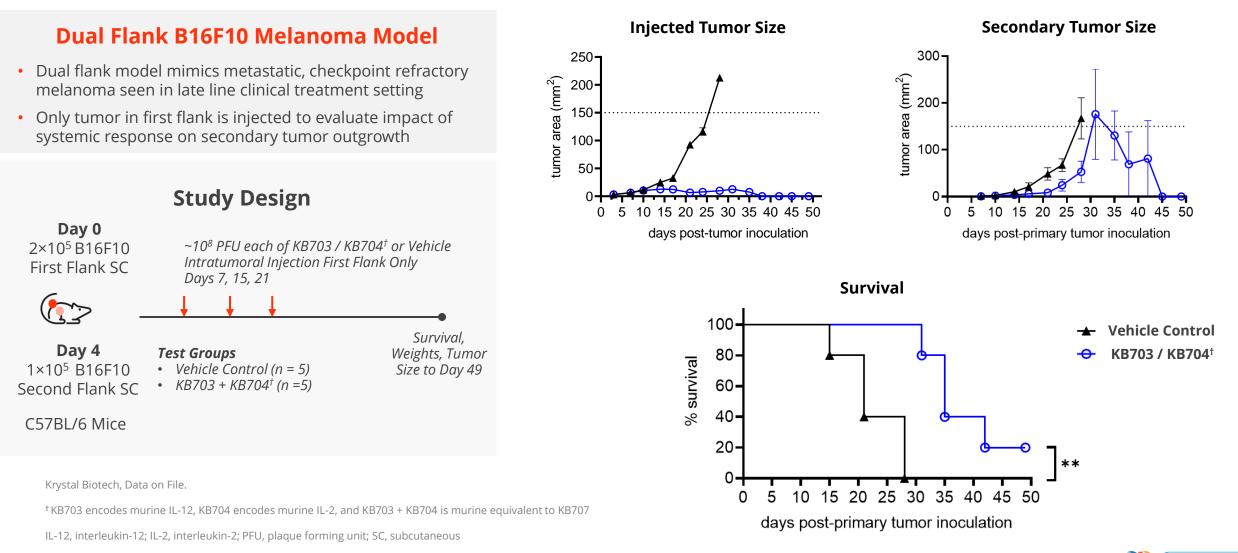
Other than VYJUVEK, all products described in this presentation are investigational therapies



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Evidence of Systemic Immune Response with Intratumoral IL-12 and IL-2

Antitumor effect and survival benefit in dual flank B16F10 tumor model



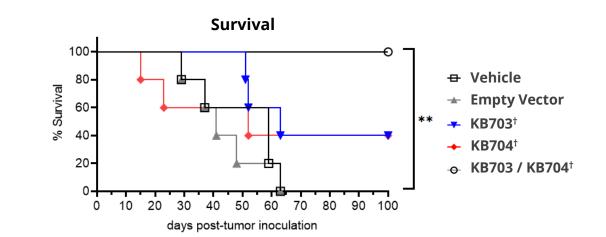


Lung Delivery Effective in Metastatic Osteosarcoma Model

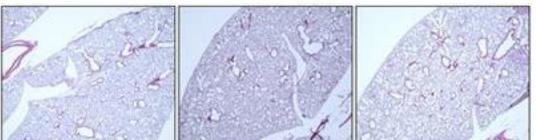
Local delivery of IL-12 and IL-2 confers clear survival benefit in otherwise lethal, metastatic osteosarcoma

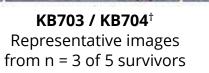
Metastatic K7M2 Osteosarcoma Model

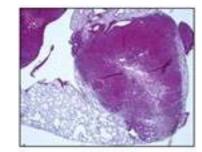
- K7M2 is an osteoblast cell line derived from bone of mouse with spontaneous osteosarcoma¹
- Considered highly aggressive with pulmonary metastatic rate of over 90% in mice¹
- Previously shown to be non-responsive to PD-1/PD-L1 targeting therapies, partial benefit from combo therapies²



Lung H&E, Day 100







KB703 Alone[†] Representative image from n = 1 of 2 survivors

1. Khanna C, et al., Clin Exp Metastasis. 2000;18(3):261-271; 2. Lussier DM et al. / Immunother Cancer 2015;3(21)

Krystal Biotech, Data on File.

⁺KB703 encodes murine IL-12, KB704 encodes murine IL-2, and KB703 + KB704 is murine equivalent to KB707

H&E, hematoxylin and eosin; IV, intravenous; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; PFU, plaque forming unit

Survival and

Weights to Day 100

Other than VYJUVEK, all products described in this presentation are investigational therapies



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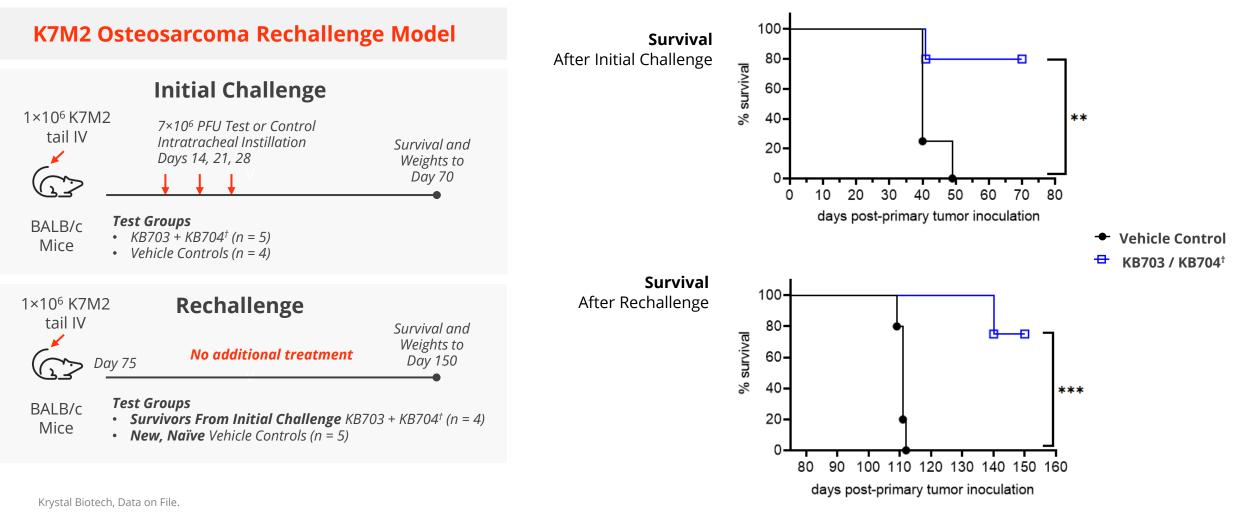


1×10⁶ K7M2 7×10⁶ PFU Test or Control tail IV Intratracheal Instillation Days 14, 21, 28 **Test Groups** BALB/c KB703 Alone[†] (n = 5) Mice KB704 Alone[†] (n = 5)

- $KB703 + KB704^{\dagger}$ (n = 5)
- Vehicle Control (n = 5)
- Naïve Control (n = 5)

Lung Delivery Also Confers Durable Protection from Tumor Rechallenge

Suggestive of memory adaptive immune response



[†] KB703 encodes murine IL-12, KB704 encodes murine IL-2, and KB703 + KB704 is murine equivalent to KB707

IV, intravenous; PFU, plaque forming unit



Preclinical Summary

Robust efficacy in stringent, CPI-refractory preclinical models supports clinical development

KB707

Replication-defective HSV-1 vector containing functional human *IL2* and *IL12* Transduces human cells *in vitro* leading to secretion of bioactive IL-2 and IL-12

Localized, durable cytokine expression in mouse skin after intradermal delivery

 Clear antitumor effects and survival benefits after intratumoral delivery in stringent, checkpoint refractory single and dual flank B16F10 melanoma models

Lung delivery led to tumor clearance and significant survival benefit in immunotherapy resistant, metastatic K7M2 osteosarcoma model

Evidence of protection from tumor rechallenge suggestive of adaptive memory

Krystal Biotech, Data on File.

IL-12/IL12, interleukin-12; IL-2/IL2, interleukin-2



Oncology Program KB707 Clinical Program

KB707 Clinical Program

Overall Phase 1/2 Approach

Deliver response to all solid tumor patients with immunotherapy

Phase 1 first-in-human study with intratumoral administration

- Evaluate the safety and tolerability of monotherapy in ascending dose
- Demonstrate single agent anti-tumor activity
- Patients with solid tumors that progressed on SOC
- Data will support further assessment in disease-specific indications

Inhaled administration

- Advantage in delivery to respiratory tract cancers (e.g., Lung, H&N), cancer metastasized to the lungs
- Staggered start to intratumoral administration leverages safety, tolerability, and pharmacodynamic data





KB707-01 Intratumoral Phase 1 Study

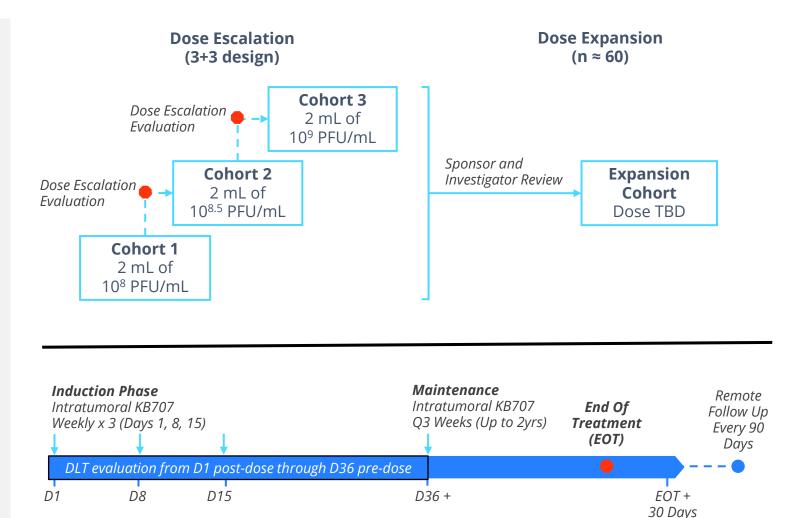
Open-label study to assess safety, tolerability, and preliminary efficacy

Study Objectives

- Evaluate the safety and tolerability
- Evaluate for maximum tolerated dose (MTD)
- Evaluate preliminary efficacy as assessed by multiple measures including
 - Objective response rate (ORR)
 - Progression free survival (PFS)
 - Overall survival (OS)
- Assess immunological effect of KB707 in blood and tumor

Key Enrollment Criteria

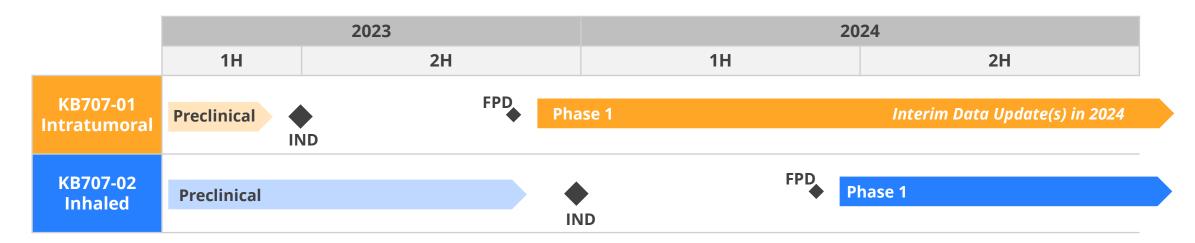
- Age ≥ 18 years with histologically confirmed locally advanced or metastatic solid tumor who has relapsed on or are refractory to standard of care.
- At least one measurable and injectable tumor accessible by transcutaneous route, including but not limited to
- Melanoma
- Cutaneous Squamous Cell Carcinoma
- Basal Cell Carcinoma



DLT, dose limiting toxicity; EOT, end of treatment; MTD, maximum tolerated dose; ORR, objective response rate; OS, overall survival; PFS, progression free survival; PFU, plaque forming unit; TBD, to be determined

KB707 Clinical Timeline

Both routes of administration under evaluation in Phase 1 by 1H 2024



Recent and Upcoming Milestones

KB707-01 Intratumoral	KB707-02 Inhaled	
☑ IND accepted by US FDA in 1H 2023	IND amendment in 2H 2023	
□ First patient dosed with KB707 in 2H 2023	First patient dosed with inhaled KB707 in 1H 2024	

First clinical update from KB707-01 expected in 2024

FDA, US Food and Drug Administration; FPD, first patient dosed; IND, investigational new drug; US, United States





Cutaneous oncology landscape for refractory disease

Jason J. Luke, MD, FACP Associate Professor

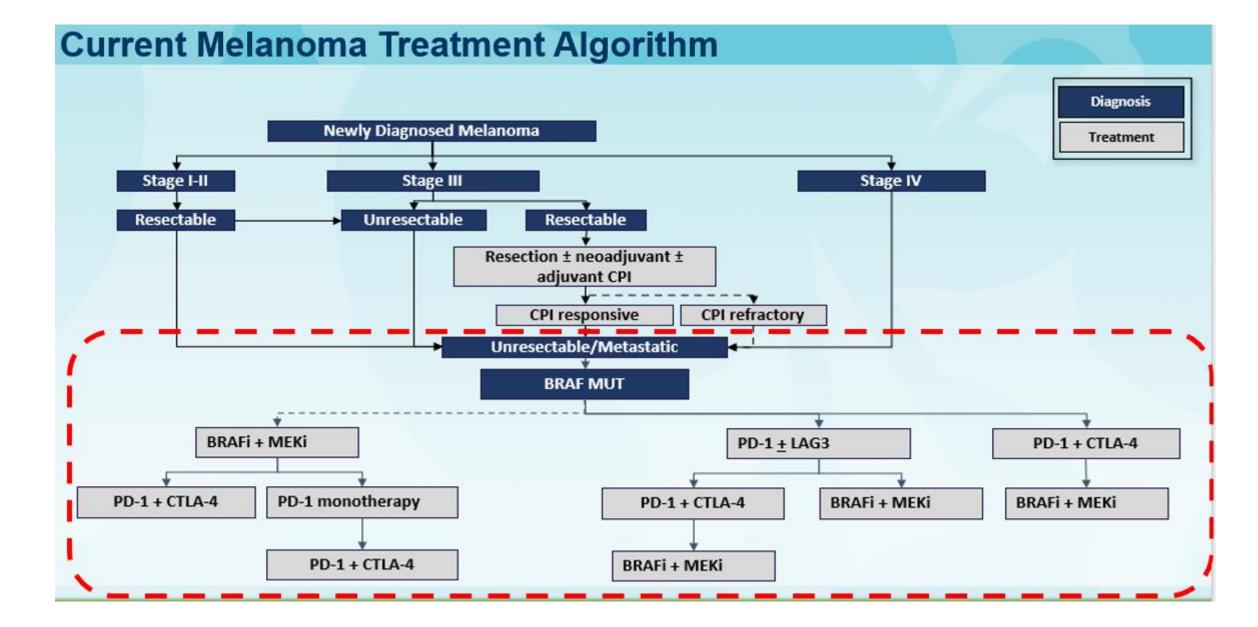
Director of the Immunotherapy and Drug Development Center

Associate Director for Clinical Research

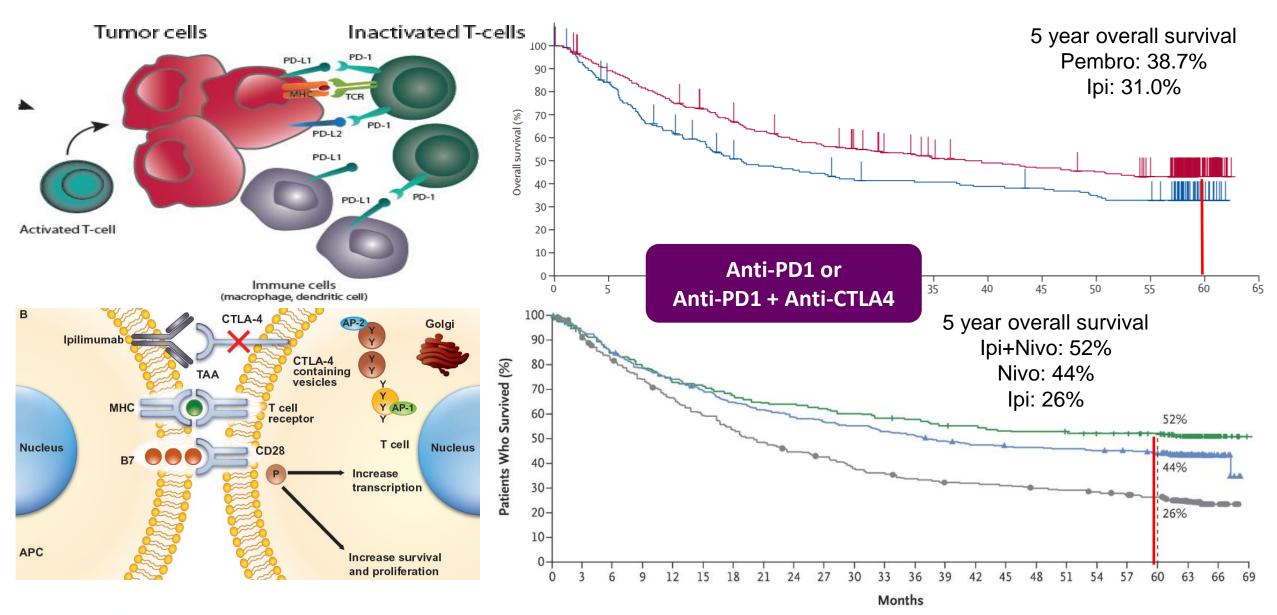






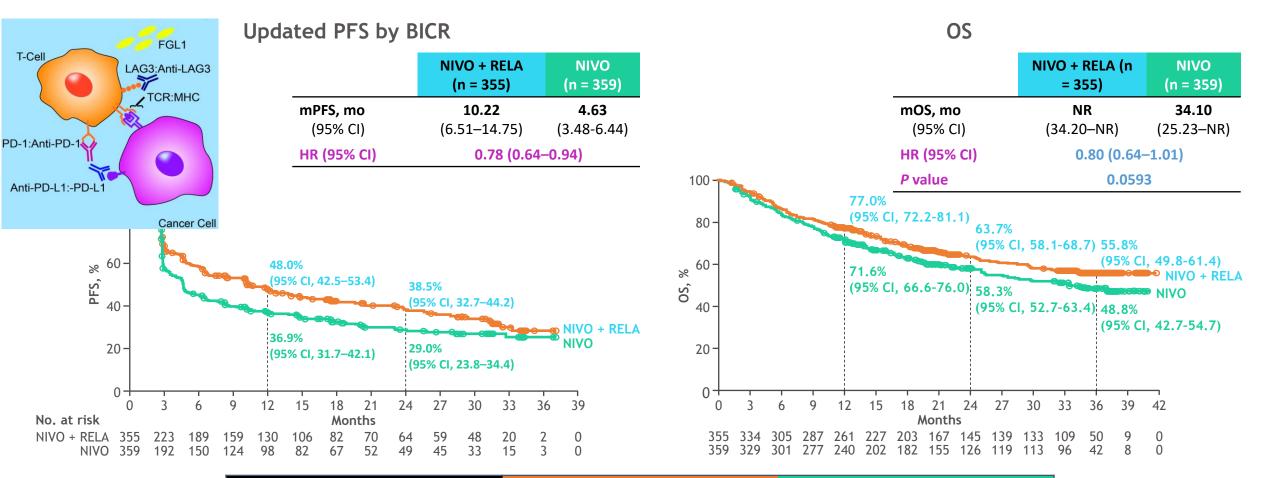


@jasonlukemd 💟



@jasonlukemd 💟

Robert et al. Lancet Onc. 2019; Larkin et al. N Engl J Med. 2019; Luke and Hodi. Oncologist. 2013; Luke and Ott. Oncotarget. 2015

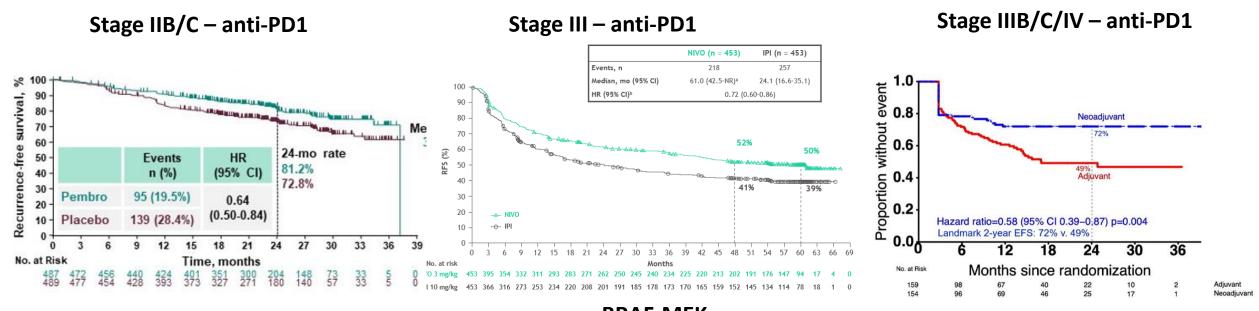


Confirmed ORR by BICR	NIVO + RELA (n = 355)	NIVO (n = 359)
ORR % (95% CI)	43.1 (37.9-48.4)	32.6 (27.8-37.7)

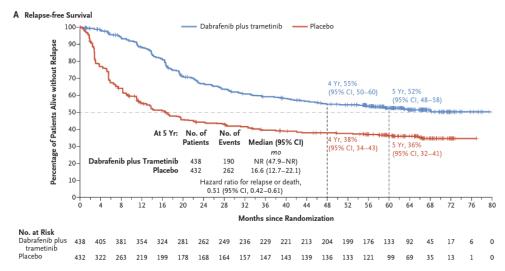
DBL date: October 28, 2021. Median follow-up: 19.3 mo

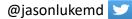
Statistical model for HR and P value: stratified Cox proportional hazard model and stratified log-rank test. Stratified by LAG-3, BRAF mutation status, and AJCC M stage. PD-L1 was removed from stratification because it led to subgroups with < 10 patients; OS boundary for statistical significance was P < 0.04302 (2-sided) analyzed at 69% power; target HR, 0.75; ORR could not be formally tested and was descriptively analyzed. Minimum potential follow-up (time from last patient randomized to last patient last visit) was 8.7 mo. last visit) was 8.7 mo. Long GV, et al. Oral presentation at the American Society of Clinical Oncology (ASCO) 2022 March Plenary Series; March 15, 2022; Virtual. Abstract 360385. Presented by Hussain Tawbi, MDACC - ASCO 2022





BRAF-MEK



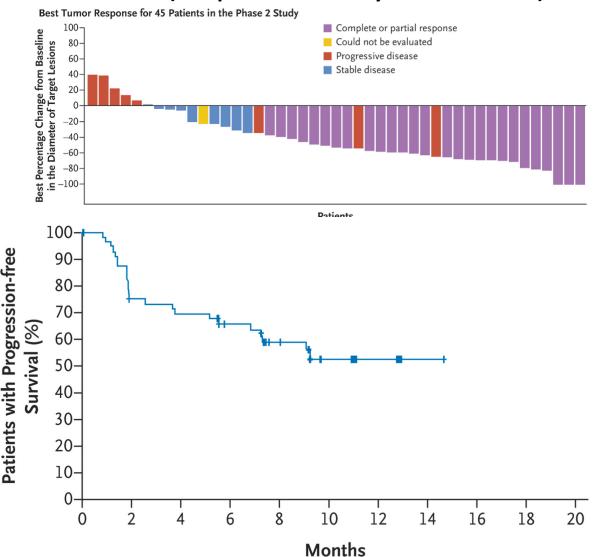


Luke et al. Lancet. 2022; Weber et al. NEJM 2021; Long et al. NEJM 2021; Patel et al. ESMO. 2022

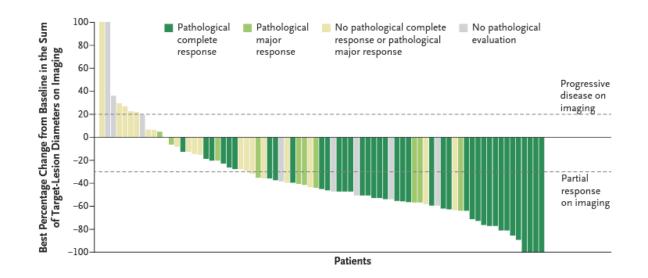
- Patient with a 3.2 mm melanoma on the right leg undergoes resection and nodal evaluation identifying 2 nodes involved. Tumor is BRAF WT
- Adjuvant treatment with nivolumab is given for eight months with progression in new nodes and lung.
- Nivo + ipi vs Nivo + rela are considered but ipi combo is chosen.
- Patient has obvious new lesions within 1.5 months and rising LDH.
- What treatment to choose then?



Anti-PD1 (cempilimab in locally advanced cSCC)

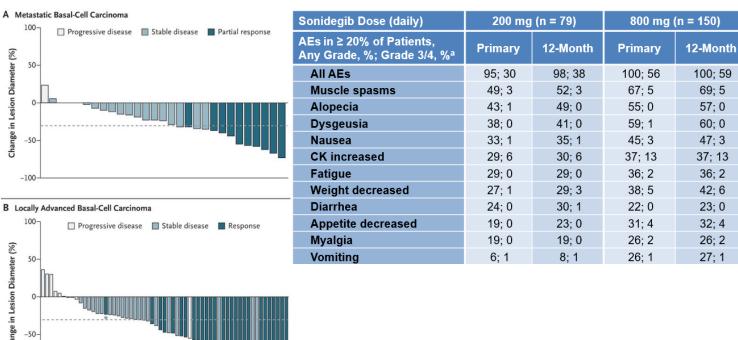


Neoadjuvant cempilimab in cSCC)



@jasonlukemd 💟

Midgen et al. NEJM. 2018; Gross et al. NJEM. 2023



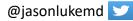
Hedgehog inhibitor efficacy and toxicity

Anti-PD1 efficacy

	Patients (n=84)
Objective response	26 (31%; 21-42)*
Best overall response	
Complete response	5 (6%)
Partial response	21 (25%)
Stable disease	41 (49%)
Progressive disease	9 (11%)
Not evaluable†	8 (10%)
Disease control	67 (80%; 70-88)
Durable disease control	50 (60%; 48-70)
Median time to response, months‡	4.3 (4.2-7.2)
Observed duration of response‡	
Range, months	2-21
≥6 months	19 (79%)
≥12 months	11 (46%)
Kaplan-Meier estimation of duration response‡	
Median	Not reached
Remained in response at 6 months	91% (68-98)
Remained in response at 12 months	85% (61-95)

"Chronic grade 1-2 toxicity is worse for the patient than an episode of grade 3-4" Len Saltz, MD - MSKCC

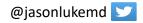
Sekulic et al. N Engl J Med. 2012; Midgen et al. Lancet Oncology. 2015



-50-Change

-100

- Patient with history of multiple early stage non-melanoma skin cancers develops a bleeding ulcer on the scalp.
- Moh's procedure removes the lesion but within 4 months the skin graft erodes and the ulcer returns
- A second resection attempt is considered but aborted when margins are positive
- Anti-PD1 with cemiplimab is initiated but the lesion continue to grow.
- What treatment to consider?



- In melanoma, unmet needs remains after progression on anti-PD1
 - KB707 has high upside potential for combinations with anti-PD1 in earlier lines of therapy given arming with IL2 and IL12
- Therapeutic landscape open in non-melanoma skin cancers
 - Anti-PD1 is SOC but 50% do not respond in cSCC
 - FDA has greenlighted development of therapeutics in BCC despite activity of HHi due to toxicity of those agents
- KB707 is well positioned to overcome previous cytokine therapy challenges by leveraging unique molecular biology and field leading cytokine combinations



Q&A Panelists



Jason J. Luke, MD, FACP



Krish Krishnan Chairman and CEO



Suma Krishnan

President, Research & Development





Samuel Broder, MD



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