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Developing disruptive, physics-based treatment solutions to revolutionize treatment for millions of patients



Going small for big impact

What Sets Us Apart

01

Applying universal laws of physics to the complex biology of disease

02

Leveraging nanophysics expertise to develop potential first-in-class radioenhancer

03

Breaking through barriers of patient and tumor heterogeneity

A Scalable Therapeutic:

 By creating a mechanism of action that is physical, rather than biological or chemical, in theory the effect should be scalable across tumor types

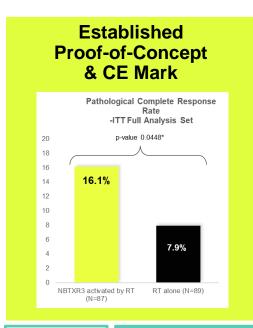
De-risked Approach:

- MoA validated in randomized PIII study
- Marketing authorization in Europe for STS
- 8/8 clinical studies with positive data

Creating Opportunities:

- Enhancing benefit for responders
- Expanding benefit to non-responders

Pipeline in a Product: proprietary nanotechnology platform creates opportunity to scale lead product into comprehensive oncology franchise





Feasible and Well-Tolerated Across Trials

AE profile has not differed in type or grade from what is expected with radiotherapy or anti-PD-1 agents

World-Class
Partners to
Advance &
Expand
Development





Extensive Experience & Significant Expansion Opportunities

- > 75 clinical sites worldwide
- ~300 patients treated

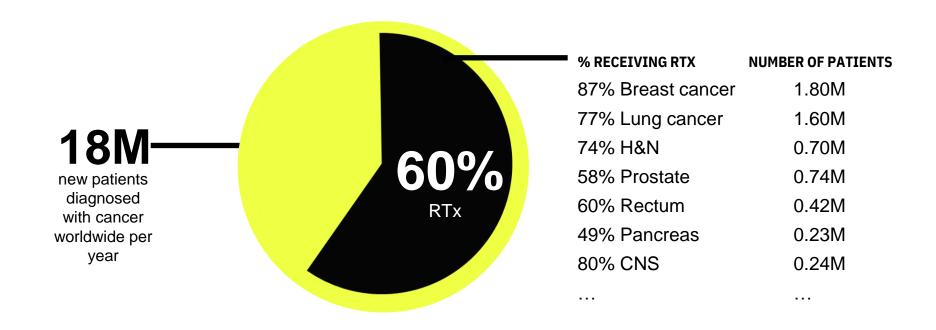
Numerous indications targeted

>13 trials completed or ongoing



Leveraging the most widely used cancer treatment to enhance multiple treatment modalities

Radiotherapy is well-established, fully-integrated part of cancer treatment both alone and in combination with surgery, chemotherapy and systemic treatments



Disrupting patient outcomes without disrupting clinical practice

Suspension of hafnium oxide nanoparticles

One-time intratumoral administration

Metabolically inert until activated by radiotherapy







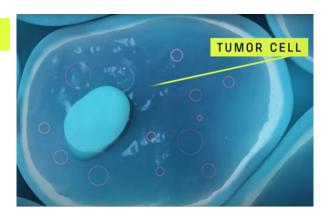


» Nanosized (~50nm) to enter the cell

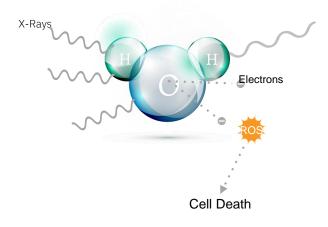
- » Add +1 visit to ~50 visits in typical patient flow
- » Standard equipment/ radiation therapy

NBTXR3: Hyper-Focused Dose Delivery in the Heart of the Cell

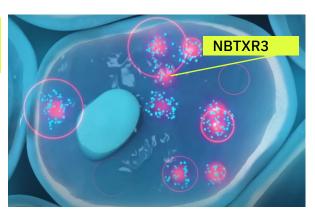
RT Alone



Interaction of X-rays with water molecules generates electrons and secondary photons, generating reactive oxygen species (ROS; oxidative stress), DNA damage, leading to subsequent cell death.



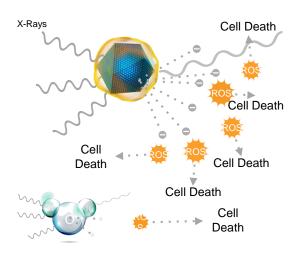
RT Activated NBTXR3



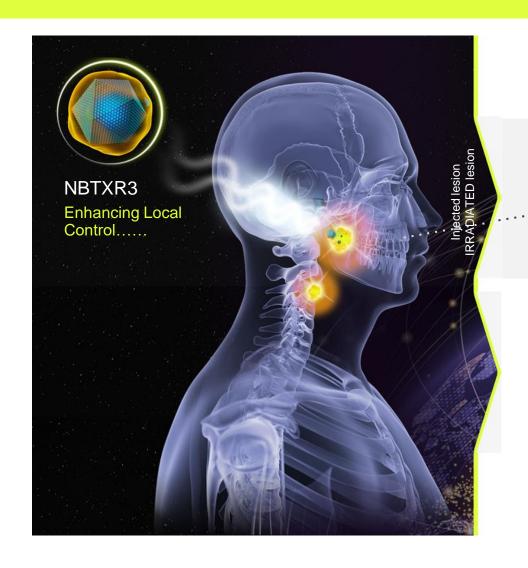
9_X dose* around nanoparticles

Interaction of X-rays with high electron density nanoparticles is higher and generates many more electrons and oxidative stress, and *in vitro* data suggests cells are killed more efficiently.

*Note: Dose enhancement determined by monte carlo simulation (CEA Saclay, France)



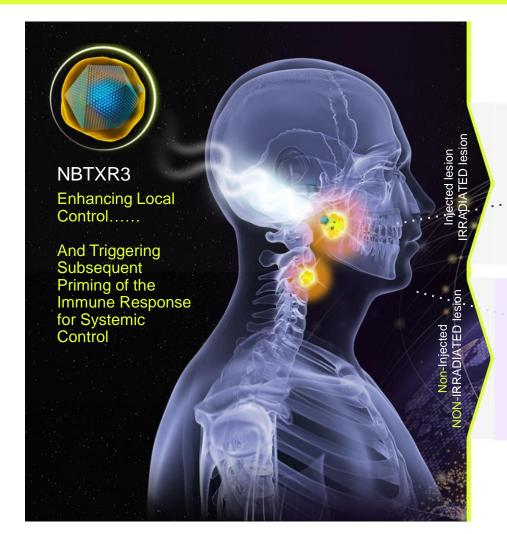
Primary physical MOA creates novel local treatment effect



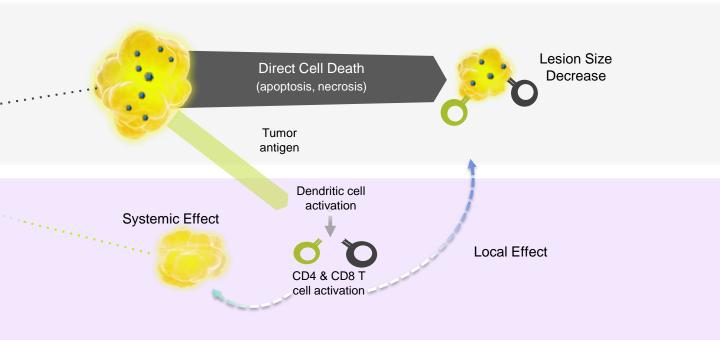
1- physical destruction of cancer cell for local control



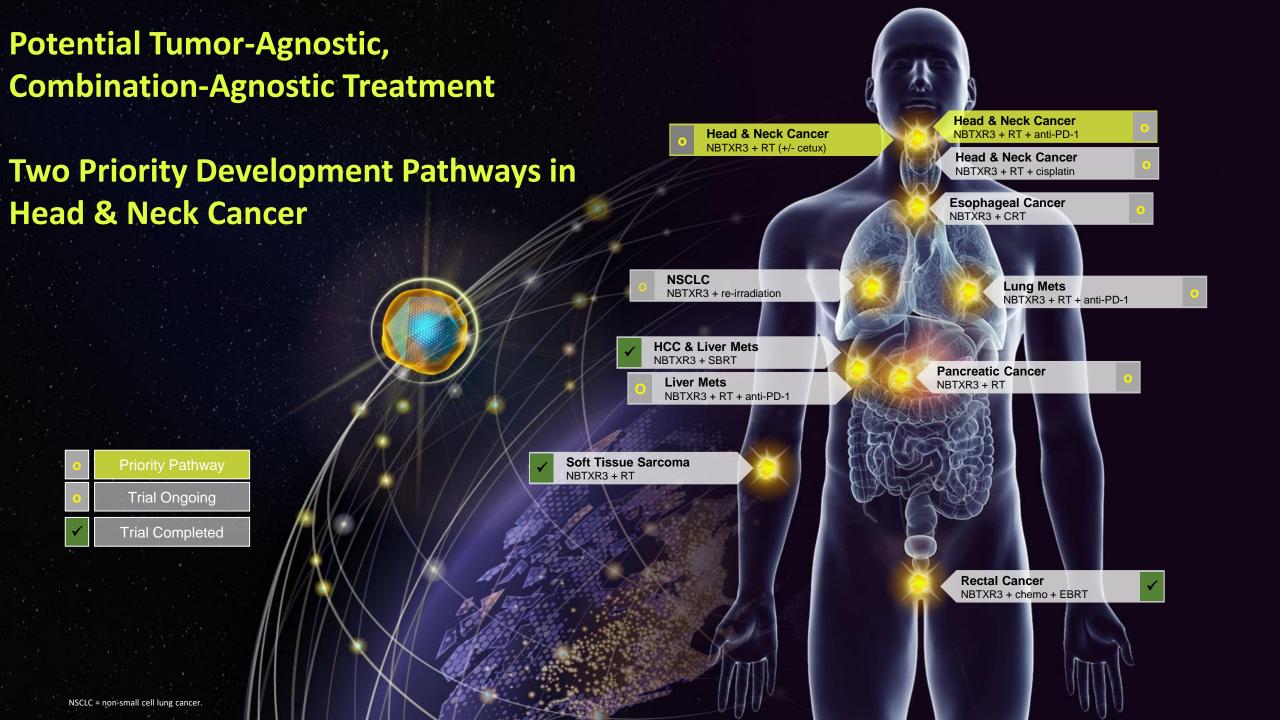
And triggers systemic effect



1- physical destruction of cancer cell for local control



2- subsequent effect intended to prime the immune response for systemic control



Focused Development Strategy

Leverage Proof of Concept in Soft Tissue Sarcoma

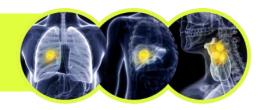
01

Secure Initial US Approval as a **Single Agent** in **Locally Advanced HNSCC**



02

Establish NBTXR3 as a **Foundation to Immunotherapy** in **Combination** with Anti-PD-1 Agents in **Advanced Cancers**

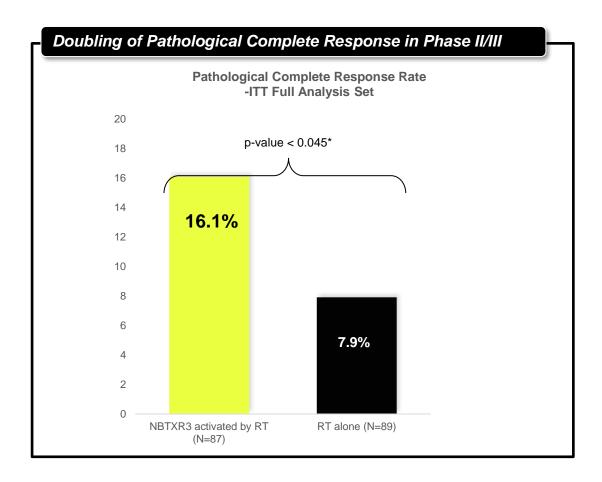


03

Advance and Expand Tumor-Agnostic and Combination-Agnostic Approaches Through Key Strategic Alliances

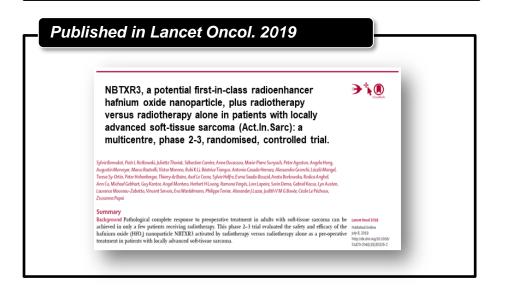


Proof-of-concept established in randomized PII/III, and European marketing authorization (CE mark) secured in tough to treat soft tissue sarcoma population



Results

- Achieved its primary endpoint of pathological CRR
- Achieved its secondary endpoint in quality of margins
- Demonstrated long-term persistent bioavailability
- No impact on patient ability to receive planned dose of RT





Secure Global Approval (US, EU, Asia) as a Single Agent in Locally Advanced HNSCC

Targeting high-risk, tough-to-treat elderly head & neck cancer population



Radiation therapy is the primary treatment modality for unresectable head and neck cancer, administered alone or concurrent with chemotherapy

Elderly patients who cannot tolerate standard-of-care cisplatin are especially vulnerable

- Limited treatment options
- Low response rate
- Short progression free survival
- Short overall survival

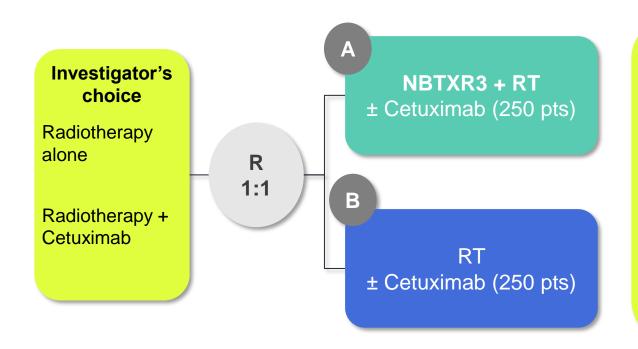
Opportunity to demonstrate high medical value in patients with significant need

Incidence of Oral Cavity, Oropharynx, Hypopharynx, and Larynx Cancer 212,305 ¹						
Locally Advanced ² 127,383	60%					
Squamous Cell Carcin 114,645	omas ³ 90%					
Unresectable ⁴ 71.045	63%					
Cisplatin ineligible ⁵ 25.655 – 29,128	Cisplatin ineligible and >65 years old ⁵ 18,351 – 25.655					

Globocan 2018 Lee et al. BMC Cancer 20, 813 (2020)

Datamonitor Healthcare Pharma intelligence (accessed March 2019)

NANORAY-312: Global Phase III Registration Trial in Elderly Locally Advanced Head and Neck Cancer Patients Ineligible for Cisplatin



Endpoints

Primary: PFS

Key Secondary: OS

Secondary: time to local-regional progression, time to distant progression, ORR, AEs, QOL

Statistics

Expected mPFS in control arm: 9 months / Expected HR on PFS: 0.692

Expected mOS in control arm: 12 months / Expected HR on OS: 0.75

Power for final PFS analysis: 89%

Power for final OS analysis: 80%

Stratification: mCCI, HPV status, cetuximab usage, country

Building on consistently high response in frail head and neck cancer patients

Moving from successful Phase I dose escalation and expansion study in very frail, elderly patients to global Phase III registration trial in larger population with better expected prognosis

Study 102: Cetuximab Ineligible

Phase I escalation and expansion (75 patients):

- Feasible
- Well tolerated
- ~63% CRR*
- 18 mOS in all patients / 23 mOS in evaluable patients in expansion cohort

NANORAY-312: Cetuximab Eligible

Global randomized phase III (~500 patients, incl. 100 patients from LianBio):

- Fast Track designation
- Potential for accelerated approval based on interim analysis
- First patient randomized in January 2022
- US site activation expected mid-2022

High Response Rate Correlates to Improved PFS and OS

Head & Neck Study 102

UPDATE @ ASTRO 2021

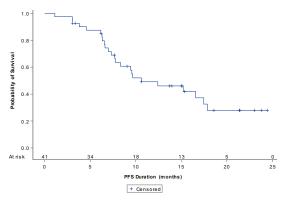
Overall Objective Response Rate of 85.4%**
Complete Response Rate of 63.4%**



Only 1 patient with CR died from disease progression 6 patients with CR died for non-oncologic reasons

2-3 times prevalence of comorbidity compared to overall LA-HNSCC population¹

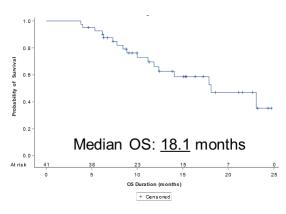
Median PFS: 10.6 months



All patients treated population (n=54):
PFS: 9.4 months

Real World Evidence Suggest overall LA-HNSCC: mPFS: 7.3 months⁵

Median OS: 18.1 months



All patients treated population (n=54) mOS: **14.1 months**

<u>Literature Suggests</u> overall LA-HNSCC: mos ~12 months^{2,3,4}

Dose expansion

N= 41 evaluable patients

Source: NBTXR3-102 - Cut-off date:03Sep2021

Median follow-up: 9.5 months

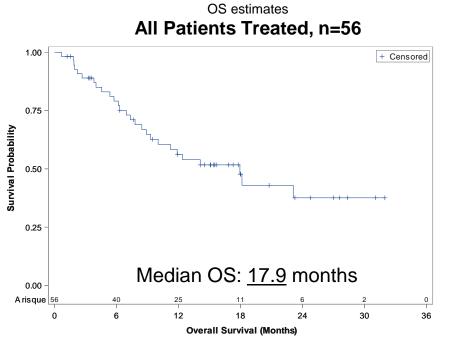


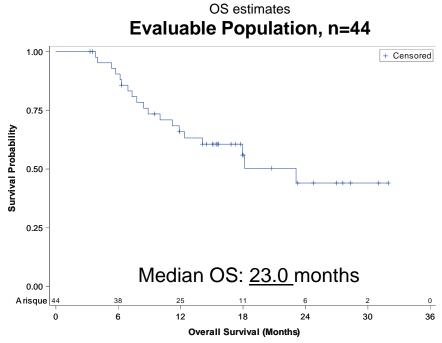




Continued Improvement in mOS

Head & Neck Study 102





- Enrollment Complete
- Final data expected mid-2023

Dose expansion

N= 44 evaluable patients

Source: NBTXR3-102 - Cut-off date:22Feb2022





Advancing toward registration in head & neck cancer: NANORAY-312

500 patient global Phase III registration study in patients with locally advanced head and neck squamous cell carcinoma ineligible for cisplatin

- FDA granted Fast Track designation
- 100 patients, out of the planned 500, expected to be enrolled by LianBio in Asia

Anticipated Study Timelines:

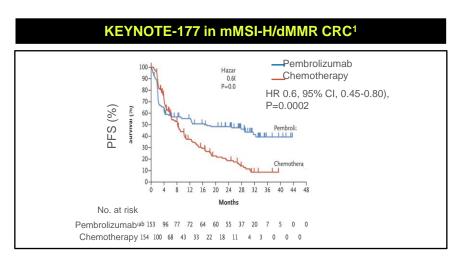
- ✓ European site activations initiated Q4 21
- ✓ First Patient Randomized, January 2022
- ✓ US site activations Q3 22
- Futility analysis: ~18 months after first randomization
- Interim analysis event-driven: ~30 months
 - potential to file for accelerated approval in the US
- Final analysis on OS, PFS and quality of life

Establish NBTXR3 as a Pillar in Immunotherapy in Combination with Anti-PD-1 Agents in Advanced Cancers

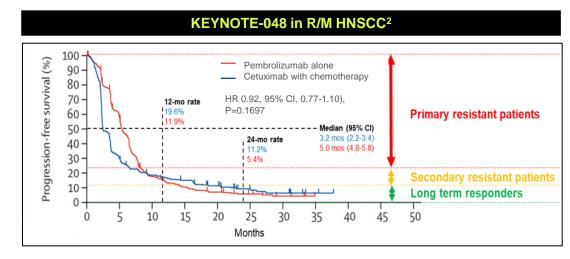
The promise and limitations of immuno-oncology agents



IO has been practice changing and life changing for many patients with cancer



.....but continues to leave many patients out in the "cold"



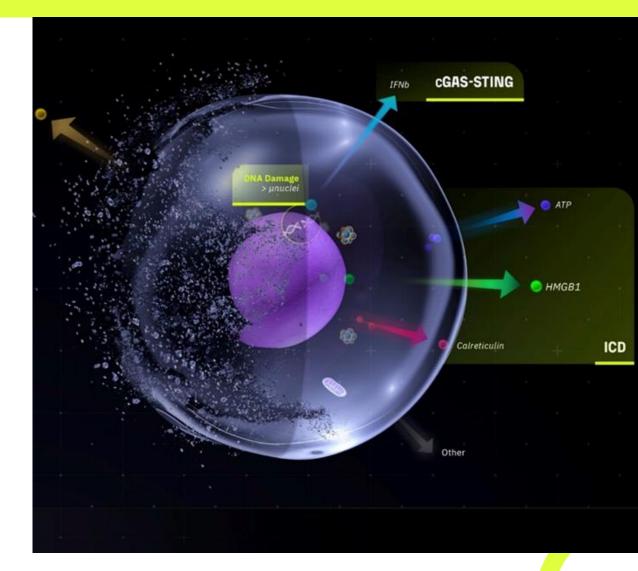
NBTXR3 offers a powerful orthogonal approach to modulate the tumor microenvironment & augment checkpoint inhibitors & other I/O agents

A primary physical MOA triggering multiple subsequent biological pathways for priming adaptative immune response

Physical priming: potential checkpoint inhibitor-agnostic agent

NBTXR3 may:

- Enhance the therapeutic index of radiotherapy, maximizing local effect
- Increase the local efficacy of immunotherapy and improve distant tumor control via a systemic effect
- Potential long-term effect with memory t-cells





Exploring Adaptive Immune Response Triggered by NBTXR3 to the Benefit of Anti-PD-1 Resistant And Naïve Patients



Head and neck cancers

- Inoperable LRR or R/M HNSCC
- Tumor in previously irradiated field
- Amenable to re-irradiation
- Anti-PD-1 naïve or non-responder



Lung mets

- Cancer metastasized to the lung
- · Tumor not previously irradiated
- Indicated to receive anti-PD-1
- Anti-PD-1 naïve or non-responder



Liver mets

- Cancer metastasized to the liver
- Tumor not previously irradiated
- Indicated to receive anti-PD-1
- Anti-PD-1 naïve or non-responder





























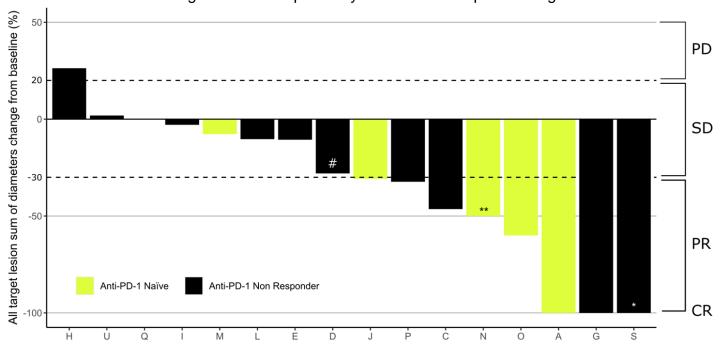
Rate of 56% Regardless of Prior Anti-PD-1 Exposure Best Observed Target Lesion Response by RECIST 1.1 as per Investigator Assessment RECIST 1.1 as per Investigator Assessment

NBTXR3 +
Checkpoint
Inhibitors

Preliminary Results

@

ASTRO 2021



Best Overall Objective Response

Patient D: pCR based on biopsy sample located in the target lesion

* Patient S: Patient with unconfirmed complete response

** Patient N: Lymph node size is 8mm; complete response as per RECIST 1.1

Source: NBTXR3-1100 - Cut-off date:3Sep2021







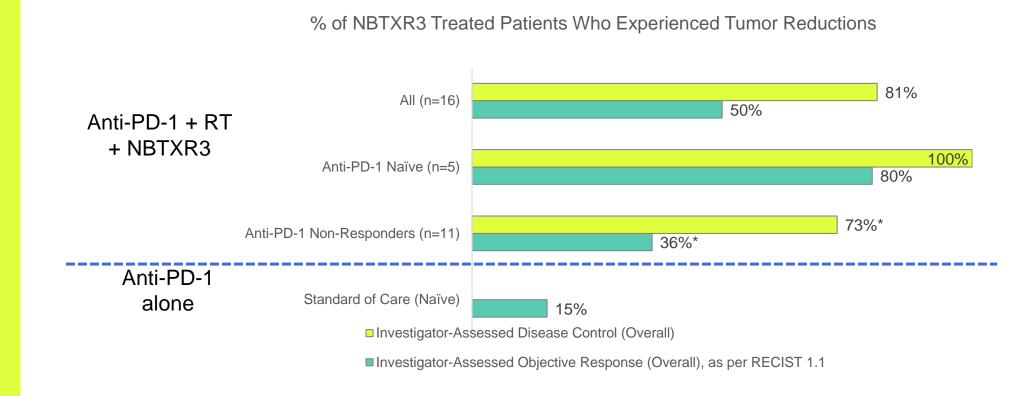
Correlation between local and systemic response regardless of prior anti-PD-1 Exposure

Study 1100: NBTXR3 + Checkpoint Inhibitors

Preliminary Results



ASTRO 2021



Source: NBTXR3-1100 - Cut-off date:3Sep2021





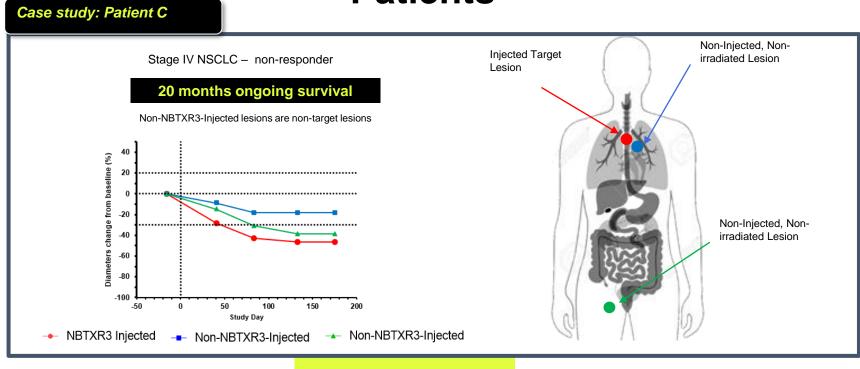


Study 1100: NBTXR3 + Checkpoint Inhibitors

Preliminary Results



ASTRO 2021 Evidence of Both Local and Systemic Control:
Possible Immune Response and Distant Tumor
Control in Multiple Anti-PD-1 Non-Responder
Patients*



Patient experienced tumor reduction in lesions that did not receive NBTXR3

Source: NBTXR3-1100 - Cut-off date:3Sep2021



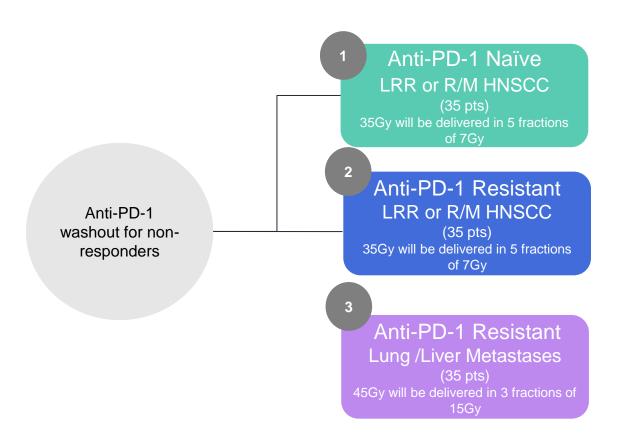




Study 1100 Expansion Phase: Phase I Basket Trial of NBTXR3 in Combination with Anti-PD-1 Checkpoint Inhibitors

Key Inclusion Criteria

- Anti-PD-1 Naïve; or
- Anti-PD-1 Resistant:
- meets criteria consistent with anti-PD-1 primary resistance, or
- meets criteria consistent with anti-PD-1 secondary resistance



Endpoints

- Primary: further assess the safety profile of RP2D(s)
- Secondary: Evaluate the safety, feasibility, and antitumor response of RTactivated NBTXR3 in combination with anti-PD-1
- Exploratory: Survival
 Outcomes, Duration of
 Response, Biomarkers of
 Response, and response in
 non-injected (target and
 non-target) lesion(s)

Study 1100: transforming non-responders into responders

Study 1100: NBTXR3 + Checkpoint Inhibitors

Preliminary Results



ASTRO 2021 Study suggests that the combination of **NBTXR3/RT and anti-PD-1 may** produce a sustained response in both anti-PD-1 naïve patients and patients having progressed on prior anti-PD-1 therapy

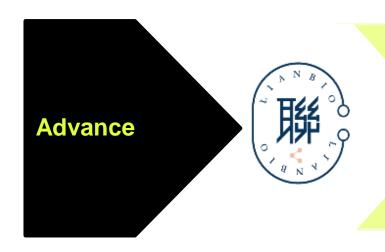
NBTXR3/RT has demonstrated potential to **stimulate an immune response and to turn anti-PD-1 non-responders into responders**

These data support continued development of NBTXR3/RT in combination with anti-PD-1 across tumor types regardless of prior anti-PD-1 exposure

Preliminary feedback from FDA suggests a single randomized, controlled trial including a pre-specified comparative analysis of overall response rate (ORR) may be suitable to support an accelerated approval, with verification of clinical benefit based on overall survival (OS) results from the same trial

Expanding NBTXR3 Opportunity With World-Class Partners

Leveraging Strategic Partners To Advance and Expand NBTXR3 Opportunity



Develop and commercialize NBTXR3 across tumor types and therapeutic combinations in China and other Asian markets

- Development commitment includes 5 registration studies
- •Enrolling 100 of 500 patients targeted for NANORAY-312
- •Solely responsible for all regulatory and commercial costs in territory
- •\$20M upfront, \$220M in milestones, tiered low double-digit royalties



Large-scale, comprehensive clinical research collaboration to expand the therapeutic breadth and flexibility of NBTXR3

- •5 PI/II trials ongoing
- •3 Phase I Studies: Pancreatic, Esophageal, NSCLC
- •2 Phase II Studies: H&N R/M reRT+IO, H&N reRT+IO



Corporate Summary





Evaluating Tumor Agnostic, Combination Agnostic NBTXR3 Capabilities

							. .		
	Indication		IND	Phase I	Phase II	Phase III	Post market	Strategic Partner	Status
Single Agent Activated by RT	Soft Tissue Sarcoma	Study 301: STS of Extremity & Trunk Wall							
	Head & Neck	Study 102: Locally Advanced H&N						k N B	Final Data mid-2023
	neau & Neck	Nanoray 312: Locally Advanced H&N						()	First patient randomized in Q1 2022
	Liver	Study 103: Hepatocellular & Liver Mets							
	Pancreas	Locally Adv. or Borderline Resectable						MDAnderson Cancer Center	Ongoing, RP2D expected in 2022
	NSCLC	Re-irradiation, Locoregional recurrence						MD Anderson Cancer Center	Ongoing
Combination +Chemo	Recurrent Head & Neck, Lung or Liver Metastasis	Study 1100: H&N, Lung or Liver Metastasis							Data presented at ASTRO21 Next Update 2022
	Head & Neck	Inoperable Locoregional Recurrent (Re-Irradiation)						MDAnderson Cancer Center	Ongoing
	ricad a Neck	R/M with Limited PD-L1 Expression or Refractory						MD Anderson Cancer Center	Ongoing
	Solid Tumors	Advanced Solid Tumors with Lung Or Liver Metastasis with anti-CTLA-4 And Anti-PD-1/L1 plus RadScopal [™]						THE UNIVERSITY OF TEXAS MDAnderson Gancer Center*	Under development
	Esophagus	Adenocarcinoma						MD Anderson Cancer Center	Ongoing
	Rectal	Locally Advanced or Unresectable*							Expected data readout ASCO 2022
	Head & Neck	Locally Advanced or Recurrent*							Expected data readout ASCO 2022
RAY-312, a global Phase III clinical trial	for elderly patients with locally-advanced head and neck cancer who are ineligible for platinum-based	sed (rocalatin) chemotheraxy. Will be initially activated in Europe and the United States at a Phase III Val. We exsect U.S. atta activation and errollment to begin in the control of the	in 2022. For its evaluation of NANORA'	-312. the FDA has accepted the available data from Study 102 Escalation	NBTXR3 for the treatment of locally advanced head and neck cancers received	Fast Track desimation from the FDA in February 2020. † LianBio controls the o	evelopment / commercialization stratesy for NBTXR3	in Nev countries in Asia. In addition, three NBTXR3 clinical trials conductors	to by our former collaborator. PlanmaEnline, are currently belief conducted in Asia and as in the occess of belief concluded or terminated.

Key Financial Highlights

- Cash* as of June 30, 2022: €63.0M
 - Equity financing line provides flexible access to capital
 - Accessible capital resources expected to support development plan into first quarter 2024
- Debt as of December 31, 2021:
 - €30M credit facility from EIB
 - Restructuring to align repayment with commercial timelines
 - €10M from State-Guaranteed Loan (PGE)
- Dual-listed: Euronext Paris (NANO) and Nasdaq Global Select Market (NBTX)

(Amounts in thousands of euros, except per share numbers)

For the six-month period ended June 30,

	2022	2021		
Revenue and other income		-		
Revenue	_	10		
Other income	1,329	1,309		
Total revenue and other income	1,329	1,319		
Research and development expenses	-16,608	-15,506		
Selling, general and administrative expenses	-9,635	-10,176		
Other operating expenses	-963	-5,414		
Total operating expenses	-27,206	-31,096		
Operating income (loss)	-25,877	-29,778		
Financial income	2,465	2,511		
Financial expenses	-2,940	-3,152		
Financial income (loss)	-474	-640		
Income tax	-6	-2		
Net loss for the period	-26,357	-30,420		
Basic loss per share (euros/share)	-0.76	-0.88		
Diluted loss per share (euros/share)	-0.76	-0.88		

34,825,872 shares outstanding as of December 31, 2021





Key takeaways and upcoming milestones

Summary

- Potential First-in-Class Tumor Agnostic, Combination Agnostic Oncology Product
- Established Proof-of-Concept as a single agent in Soft Tissue Sarcoma Randomized Phase II/III trial
- Global Phase III Registration Trial Initiated In Head & Neck Cancer
- Clinical immuno-oncology combination data in anti-PD-1 refractory patients showing the potential to transform nonresponders into responders
- World-Class Collaborative Partners

2022 Milestones

Advance Priority Pathways

Single Agent, Registration Program in Head & Neck Cancer

- ✓ NANORAY-312 pivotal PIII trial, first patient randomized in January 22
- US Site activation

Proof-of-Concept Combination: NBTXR3 + ICI

- ✓ Conclude dose escalation and report RP2D for each cohort
- □ Report updated Study 1100 Data
- Regulatory guidance on registration pathway

Leverage Strategic Partners to Advance Pipeline Development

Single Agent, Registration Program in Head & Neck Cancer

✓ LianBio to initiate NANORAY-312 pivotal PIII site in Asia

Report new collaboration data

- ☐ Conclude dose escalation and report RP2D for Phase I Pancreatic Cancer
- Report final data from Phase I Study in Combination with Concurrent Chemotherapy for Patients with Head and Neck Cancer
- Report final data from Phase I/II in Combination with Concurrent Chemotherapy for Patients with Locally Advanced or Unresectable Rectal Cancer

NANOBIOTI

NANO



EURONEXT

NBTX

Nasdaq Listed