ACTIVATING THE PATIENT'S IMMUNE SYSTEM TO FIGHT CANCER

Company presentation

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o targovax OSE: TRVX

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TARGOVAX AT A GLANCE

Lead product ONCOS-102 directed to the \$20+ billion market for checkpoint inhibitors

Class-leading clinical data in monotherapy and combinations with chemo and CPI

Powerful immune activation supporting IO-combinations

Pipeline with multiple additional value-creating opportunities

Strong patent position & robust leadership team



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MEDICAL NEED FOR IMMUNE ACTIVATORS

CPIs are revolutionizing cancer therapy...

...but only a minority of patients respond...

...leading to a high medical need for immune activators



1 Immune Checkpoint Inhibitors Markets Report, 2020 January, ResearchAndMarkets.com

4 2 Estimation of the Percentage of U.S. Patients With Cancer Who Are Eligible for and Respond to Checkpoint Inhibitor Immunotherapy Drugs, JAMA Netw Open. 2019 May; 2(5), Haslam A., Prasad V.



SEVERAL SIGNIFICANT ONCOLYTIC VIRUS TRANSACTIONS



ONCOS-102 IS AN ONCOLYTIC ADENOVIRUS SEROTYPE 5 ARMED WITH AN IMMUNE ACTIVATING TRANSGENE



ONCOS-102 DRIVES A STRONG IMMUNE RESPONSE TRIGGERING ANTI-TUMOR IMMUNITY



- Tumor antigen release
- T-cell activation in lymph nodes
- Synergy with checkpoint inhibitors

SOLID CLINICAL AND PRECLINICAL PIPELINE

Product candidate	Preclinical	Phase 1	Phase 2	Collaborator	Next expected event
	Mesothelioma Combination w/ pemetrexed	/cisplatin			1H 2021 Survival updates Define next steps
ONCOS 102	Melanoma Combination w/Keytruda				1H 2021 Define next steps
UNCOS-102	Colorectal cancer Combination w/Imfinzi			AstraZeneca	Update by collaborator
Prostate cancer Combination w/DCvac				Sotio	Update by collaborator
ONCOS-200 series	Next Gen viruses			leidos	Updates at conferences
Novel mutRAS concepts				VALO THERAPEUTICS	

Product candidate	Preclinical	Phase I	Phase II	Collaborator	Next expected event
ONCOS-102	Melanoma Combination w/Keytruda				



ONCOS-102 ANTI-PD1 REFRACTORY MELANOMA 35% ORR AND SYSTEMIC EFFECT



PATIENT DEMOGRAPHICS – MORE ADVANCED DISEASE IN PART 2

Parameters	Part 1 (n=8)	Part 2 (n=12)	Total (N=20)
Median time from diagnosis to start ONCOS-102 (years)	6.9	2.9	4.5
Average number of checkpoint inhibitor treatments prior to study	1.8	2.3	2.2
Average number of lesions at baseline	4.5	9.1	7.3
Average tumor burden targeted lesions at baseline (mm)	50.3	74.4	64.7
Stage of patients - III - IV	6 2	5 7	11 9

BEST-IN-CLASS RESPONSE RATE WITH ORR OF 35%

Best change in tumor burden from baseline, percent



Response defined as tumor reduction of at least 30% in at least one CT scan, according to RECIST 1.1 Preliminary data



MULTIPLE EXAMPLES OF SYSTEMIC (ABSCOPAL) EFFECT TWO PATIENTS WHERE A NON-INJECTED LESION COMPLETELY DISAPPEARED



- Findings are based on **early data** assessment, systemic effects will be further assessed
- Used threshold of tumor reduction of 30%¹ or more in a lesion
- Observed in patients in both Part 1 and 2
- **Complete remission** of non-injected lesion seen in two patients



ONCOS-102 EFFICACY IS COMPETITIVE TO LEADING DRUG CANDIDATES IN ANTI-PD1 REFRACTORY MELANOMA



Targovax market analysis, December 2020.

SUMMARY: EXCELLENT OUTCOME SUPPORT CONTINUED DEVELOPMENT IN ANTI-PD1 REFRACTORY MELANOMA



Excellent safety profile confirmed

• ONCOS-102 and Keytruda combination is well-tolerated



Excellent clinical outcome

- 35% ORR: Tumor responses were observed in 7 out of 20 evaluable patients
- Systemic effect: Tumor regression in non-injected lesions observed in multiple patients, including two lesions that regressed completely
- Confirmed ONCOS-102 ability to reactivate CPI refractory tumors



Next steps

- Planning for a confirmatory melanoma trial in combination with anti-PD1 checkpoint inhibitor
- Analyze more **immunological data**

Product candidate	Preclinical	Phase I	Phase II	Collaborator	Next expected event
ONCOS-102	Mesothelioma Combination w/ pemetrexed	/cisplatin			
	Melanoma Combination w/Keytruda				



HIGH NEED FOR NEW TREATMENT APPROACHES

IN MALIGNANT PLEURAL MESOTHELIOMA



Surgery

Only 10% of patients suitable for resection

Often diagnosed too late for surgery Technically challenging

Radiotherapy

Rarely effective due to tumor shape Hard to focus radiation Mainly palliative care





Chemotherapy

Standard of care (SoC) with limited efficacy

Only approved option is pemetrexed/cisplatin

6 months mPFS and 12 months mOS in 1st line

Immunotherapy

Ipi/nivo approved in 1st line disease (US only)

CPIs included in NCCN guidelines as 2nd line option

CPI + SoC trials ongoing





ONCOS-102 MESOTHELIOMA PHASE 1/2 COMBINATION WITH SoC CHEMO ENCOURAGING CLINICAL OUTCOMES IN 1ST LINE

Trial design

- 1st and 2nd (or later) line
- ONCOS-102: 6 intra-tumoral injections
- SoC chemo: pemetrexed and cisplatin, 6 cycles

	Safety lead-in n=6	Experi- mental n=14	Control n=11
1 st line	3	8	6
2 nd (or later) line	3	6	5





FIRST LINE DATA ARE MATURING AND ALREADY COMPETITIVE -MOS WILL BE 18.2 MONTHS OR MORE



8 1L randomized patients mOS will change: Experimental group, 8 patients (5 censored). Control group, 6 patients (2 censored)

LEVEL OF IMMUNE ACTIVATION PREDICTIVE OF CLINICAL OUTCOME (1 OF 4)



LEVEL OF IMMUNE ACTIVATION PREDICTIVE OF CLINICAL OUTCOME (2 OF 4)



LEVEL OF IMMUNE ACTIVATION PREDICTIVE OF CLINICAL OUTCOME (3 OF 4)



LEVEL OF IMMUNE ACTIVATION PREDICTIVE OF CLINICAL OUTCOME (4 OF 4)





CLINICAL AND IMMUNE DATA SUPPORT TRIPLE COMBINATION WITH CHECKPOINT INHIBITOR



Excellent safety profile confirmed

• ONCOS-102 and SoC chemotherapy combination is well-tolerated



Clear clinical activity

- mOS not yet reached but at least 18.2 months
- mPFS of 9.8 months in first line randomized ONCOS-102 treated patients
- Broad and powerful **immune activation** associated with **clinical benefit**



Next steps

- First line identified as target population for further development
- Strong rationale for combination with anti-PD1/L1 checkpoint inhibitor and SoC chemotherapy - Collaboration established with Merck

Product candidate	Preclinical	Phase I	Phase II	Collaborator	Next expected event
ONCOS-102	Colorectal cancer Combination w/Imfinzi				



STRONG COLLABORATION IN COLORECTAL CANCER WITH PHASE 1/2 TRIAL COMBINING ONCOS-102 AND IMFINZI



Patient population

- Colorectal cancer with peritoneal metastases
- Refractory to standard-of-care platinum chemotherapy
- Intraperitoneal admin of ONCOS-102



ASCO 2020: Dose Escalation part presented showing clinical activity as well as immune activation, and acceptable safety profile with no DLTs observed

SIGNS OF EFFICACY AND DOSE RESPONSE IN SAFETY LEAD-IN

Dosing cohorts	Disease control (best response)
A: Low-dose ONCOS-102 then Imfinzi	0 of 2
B: Low-dose ONCOS-102 + Imfinzi	0 of 2
C: Standard dose ONCOS- 102 + Imfinzi	2 of 5

Cohort C did not raise safety concerns, and was the dosing selected for Part 1 and Part 2 expansion



1 Tumor change is based on the patient's best overall response or first indication of progression (if PD was the best response). % change = [(Sum of diameters at best response or first indication of PD - Sum of diameters at baseline) ÷ sum of diameters at baseline] X 100. One patient in Cohort C is not in waterfall plot, as RECIST data are not available; clinical PD was documented.



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Product candidate	Preclinical	Phase I	Phase II	Collaborator	Next expected event
	Prostate cancer Combination w/DCvac				
ONCOS-200 series	Next Gen viruses				
Novel mutRAS concepts					



NEXT GENERATION ONCOS VIRUSES HAVE DOUBLE TRANSGENES AND DISTINCT MODES OF ACTION

	Mode of action	Target tumors
ONCOS-210 & -212 Inhibition of tumor growth and vascularization	 Interfere with tumor's ability to break down surrounding tissue Induce cell cycle arrest Inhibit angiogenesis 	 Highly invasive or metabolic tumors
ONCOS-211 Counteract immune- suppressive tumor microenvironment	 Remove inhibitory molecules from tumor microenvironment Activate T-cells 	 "Cold" uninflamed tumors
ONCOS-214 Enhanced cell killing properties	 Induce immunogenic cell death Extend cell killing ability to neighboring non-infected cells 	 High-stroma tumors



EXPANDING MUTANT RAS PLATFORM THROUGH STRATEGIC PARTNERSHIPS

Targovax mutRAS immunotherapy strategy

	• Test new indications
Expand mutRAS	• Test new combinations
clinical use	 Test new adjuvant
Clinical stage	 Clinical out-licensing and collaborations

Next generation mutRAS concepts Pre-clinical discovery

- Innovative, first-inclass mutRAS IO concepts
- Leverage ONCOS platform
- Strategic R&D partnerships



Oncolytic virus w/ mutRAS vaccine coating - Coat ONCOS-102 with mutant RAS neoantigen PeptiCRAd peptides



Oncolytic virus w/ mutRAS antibody payload - Express AbiProt mutant RAS targeting antibodies from ONCOS backbone



Ongoing mutRAS initiatives



Option to license TG vaccines for Greater China and Singapore

Possible investigator sponsored trials - Novel therapeutic combination strategies

FUNDED WELL BEYOND IMPORTANT VALUE INFLECTION POINTS



Share liquidity

~200% of shares traded last 12 months

Share turnover per month¹ Million shares



Daily value traded Average last 12 months

3.6 / **0.42** NOK million USD million



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IN SUMMARY

Lead product ONCOS-102 directed to the \$20+ billion market for checkpoint inhibitors

Poised to lead and grow the global market for checkpoint inhibitors (CPIs) with lead product, ONCOS-102
 By activating the immune system, ONCOS-102 may enhance CPI sensitivity and expand the market

Class-leading clinical data in monotherapy & combinations w/ chemo & CPI

- > Clinical and immune data in >200 patients as monotherapy, plus in combo with chemo and CPIs
- 35% ORR in advanced anti-PD1 refractory melanoma
- Promising survival data in mesothelioma

Powerful immune activation supporting IO-combinations

- > Documented broad and deep activation of key immune cells and mechanisms
- > Potential to enter registrational program in anti-PD1 refractory melanoma
- > Potential registrational program in mesothelioma in collaboration with Merck

Pipeline with multiple additional value-creating opportunities

- Several collaborations established
- > Exploring novel assets with ONCOS as a payload vehicle for delivering other drugs
- Next-generation mutant RAS targeting compounds with both company- and investigatorsponsored trials

Strong patent position & robust leadership team

- Patent protection on ONCOS-102 through 2036; recently issued European CPI combo patent
- Talented, experienced management team committed to driving success

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