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This report contains certain forward-looking statements based on uncertainty, since they relate to events and depend on circumstances that will occur in future and which, by their nature, will have an impact on the results of operations and the financial condition of Targovax. Such forward-looking statements reflect the current views of Targovax and are based on the information currently available to the company. Targovax cannot give any assurance as to the correctness of such statements.

There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in these forward-looking statements. These factors include, among other things, risks or uncertainties associated with the success of future clinical trials; risks relating to personal injury or death in connection with clinical trials or following commercialization of the company's products, and liability in connection therewith; risks relating to the company's freedom to operate (competitors patents) in respect of the products it develops; risks of non-approval of patents not yet granted and the company's ability to adequately protect its intellectual property and know-how; risks relating to obtaining regulatory approval and other regulatory risks relating to the development and future commercialization of the company's products; risks that research and development will not yield new products that achieve commercial success; risks relating to the company's ability to successfully commercialize and gain market acceptance for Targovax' products; risks relating to the future development of the pricing environment and/or regulations for pharmaceutical products; risks relating to the company's ability to secure additional financing in the future, which may not be available on favorable terms or at all; risks relating to currency fluctuations; risks associated with technological development, growth management, general economic and business conditions; risks relating to the company's ability to retain key personnel; and risks relating to the impact of competition.





Intro & Highlights

- 2. Dr Victor Levitsky, Chief Scientific Officer
- 3. Pipeline initatives
- 4. Financials
- 5. Newsflow



GROWING NEED FOR IMMUNE ACTIVATORS

CPIs are revolutionizing cancer treatment...

...but not all patients respond to CPIs...

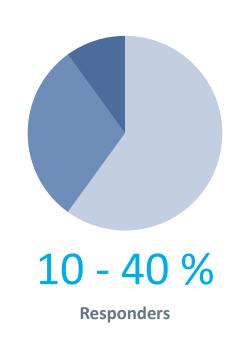
...leading to high medical need for immune activators

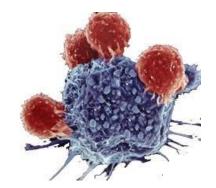
22 bn USD

Global CPI market¹

44 %

Patients eligible for CPI²:







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

² Estimation of the Percentage of US 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.

ACTIVATING THE IMMUNE SYSTEM

TO FIGHT CANCER



ONCOS-102 lead clinical asset

- ONCOS oncolytic adenovirus platform targets hard-to-treat solid tumors
- One of the **furthest developed** OVs with >180 patients treated to date
- Four ongoing combination trials ensuring **rich news flow** in 2020



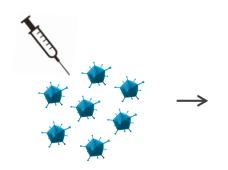
Encouraging clinical efficacy demonstrated

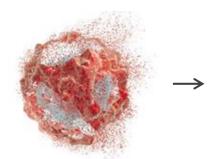
- Strong single agent immune activation and clinical data
- O 33% ORR in anti PD-1 refractory melanoma in combination with Keytruda
- Encouraging first set of clinical and immune data in mesothelioma

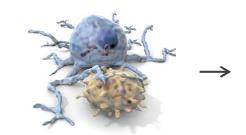
ONCOS-102 MODE OF ACTION MAKES AN IDEAL COMBINATION PARTNER FOR CHECKPOINT INHIBITORS

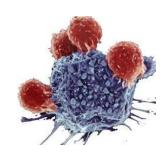
1 Virus injection Local delivery

- 2 Oncolysis
 Immune activation
- Antigen processing
 T-cell activation
- 4 T-cell response
 Anti-tumor immunity









- Intratumoral or intraperitoneal injection
- Tumor cell infection
- Lysis of tumor cells
- Inflammatory response
- Tumor antigen release
- Antigen processing
- T-cell activation in lymph nodes
- T-cell tumor infiltration
- Tumor antigen recognition
- CPIs "releasing brakes"

SEVERAL SIGNIFICANT BD TRANSACTIONS IN THE ONCOLYTIC VIRUS SPACE IN 2018-2019

e

	Target	Type of deal	Deal value	
Takeda	TURNSTONE BIOLOGICS	Strategic collaboration Co-development of multiple vaccinia viruses, Pre-clinical	USD 120m near-term USD >900m total value	
MERCK	Viralytics Developers of Oncolytic Immunotherapies	M&A RNA virus, Phase II	USD 400m cash acquisition	
Janssen PHARMACEUTICAL COMPANIES OF Johnson-Johnson	BeneVir	M&A Herpes virus, Pre-clinical	USD 140m up-front USD 1b total value	
Boehringer Ingelheim	ViraT herapeutics	M&A VSV virus, Pre-clinical	USD 250m cash acquisition	
AstraZeneca	transgene	R&D partnership Co-development of novel vaccinia viruses. Pre-clinical	USD 10m up-front Unknown total value	

vaccinia viruses, Pre-clinical

ONCOS DEVELOPMENT STRATEGY

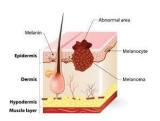
1 Establish path-to-market



Mesothelioma

- o ~15.000 patients
- o Potential for first line, limited competition

7 Activate refractory tumors



Anti-PD1 refractory melanoma

- Few alternatives for ~50.000 patients
- Benchmarking arena for immune activators

3 Expand CPI indications



Peritoneal malignancies

- Metastases from ovarian and colorectal cancers
- >100.000 patients not responding to CPIs

4 Expand platform

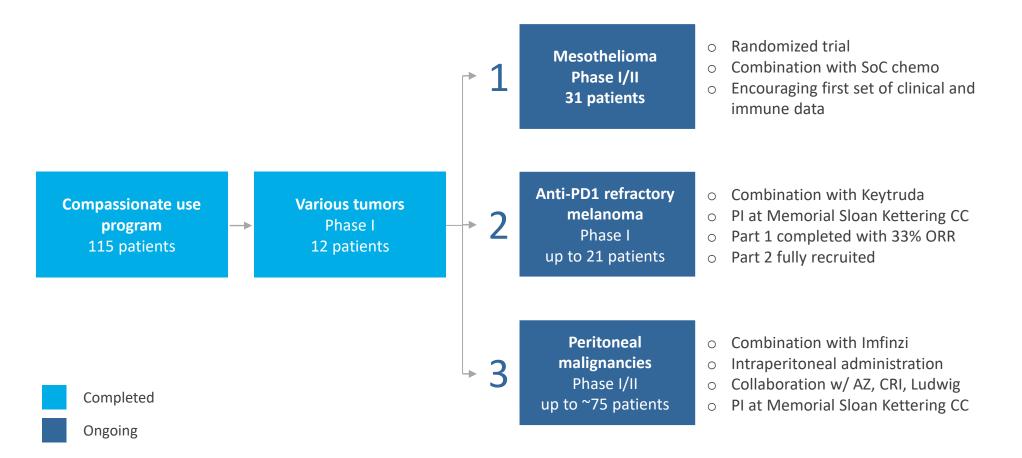


Next generation oncolytic viruses

- Double transgenes
- Novel targets and modes of action



ONCOS-102 CLINICAL DEVELOPMENT PROGRAM

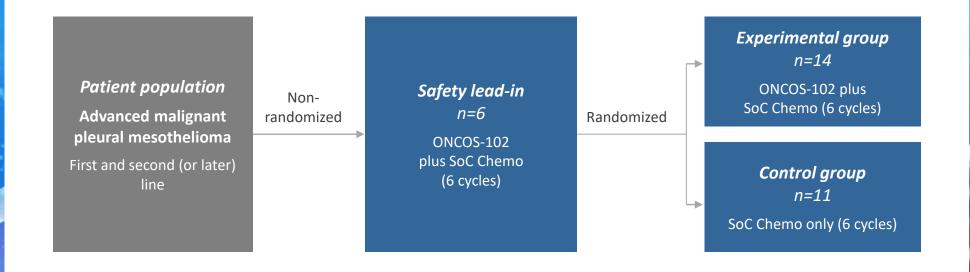




RECENT HIGHLIGHTS

Announced encouraging data in **mesothelioma** trial combining ONCOS-102 and chemotherapy Completed enrollment of melanoma trial ONCOS Entered into a collaboration to develop mutant RAS neoantigen coating of ONCOS viruses using Valo Therapeutic's PeptiCRAd technology Announced that an abstract on interim Phase 1 data from peritoneal trial is accepted at ASCO Entered into an **option agreement** with IOVaxis Therapeutics for a TG TG mutant RAS vaccine license and clinical development agreement in China Completed a private placement, raising gross proceeds of approx. NOK 101 million (USD 11.2 million) Corporate Announced election of Damian Marron as Chairman of the Board Appointed Dr Victor Levitsky, MD, PhD as CSO

ONCOS-102 MESOTHELIOMA PHASE I/II TRIAL IN COMBINATION WITH CHEMO STUDY DESIGN



ONCOS-102 MESOTHELIOMA PHASE I/II TRIAL

6-MONTHS DATA AND NEXT STEPS



Excellent safety profile confirmed

ONCOS-102 and SoC chemotherapy combination is well-tolerated



Clinical activity observed

- o mPFS of 8.9 months in first line suggest **benefit** for ONCOS-102 treated patients and **compares favorably** to historical control of 5.7-7.3 months
- Increased T-cell infiltration and PD-L1 expression
- Robust immune activation associated with clinical benefit



Next steps defined

- 12-months data expected during summer
- First line identified as target population for follow-up trial
- Strong rationale for combination with anti-PD1/L1 CPI. Discussions with pharma partner for trial collaboration

LIMITED IMPACT ON OPERATIONS OF COVID-19

Data collection

- Some hospital labs closed: samples from some patients not collected
- Delayed monitoring may impact read-out timelines. Guiding not affected

Patient recruitment

- Mesothelioma trial: fully recruited 2019
- Melanoma trial: fully recruited February
- Peritoneal trial: recruiting

Logistics

Uninterrupted

Patient treatment

Uninterrupted





Dr Victor Levitsky, Chief Scientific Officer

- 3. Pipeline initatives
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VICTOR LEVITSKY – CHIEF SCIENTIFIC OFFICER

- M.D. with Ph.D. in virology
- Associate professor and Principal Investigator at the Microbiology and Tumor biology center, Karolinska Institute, Stockholm, Sweden
- Associate professor at the Oncology Department, Johns Hopkins University School of Medicine
- Senior Principal Scientist and Tumor Immunology Leader at Roche, Zurich, Switzerland
- VP and Head of Oncology Research at Molecular Partners, AG, Zurich, Switzerland
- More than 60 papers including top tier peer-reviewed journals along with several reviews and editorials



VICTOR LEVITSKY — CHIEF SCIENTIFIC OFFICER

- Support optimal design, collection, analysis and scientific interpretation of data from the ongoing clinical trials
- Generate pre-clinical data sets to reveal full potential of available ONCOS200 series of vectors for selection of development lead candidates and novel partnering opportunities
- Initiate internal and external activities towards further portfolio expansion based on the ONCOS platform
- Explore novel approaches for synergistic combination of the ONCOS and TG platforms





Pipeline initatives

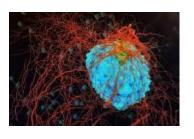
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NEXT GENERATION ONCOS VIRUSES HAVE DOUBLE TRANSGENES AND DISTINCT MODES OF ACTION

Mode of action

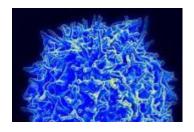
Target tumors



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

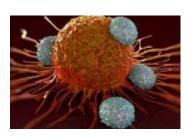


ONCOS-211

Counteract immunesuppressive tumor microenvironment

- Decrease inhibitory factors from tumor microenvironment
- Activate T-cells

 "Cold" uninflamed tumors



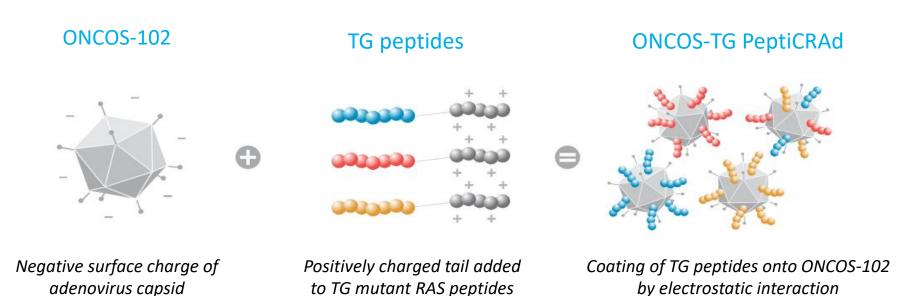
ONCOS-214

Enhanced cell killing properties

- Induce immunogenic cell death
- Extend cell killing ability to neighboring non-infected cells
- High-stroma tumors



MERGING TARGOVAX PLATFORMS TO GENERATE A FIRST-IN-CLASS MUTANT RAS TARGETING ONCOLYTIC VIRUS



Utilizing Valo Therapeutic's technology platform to coat ONCOS-102 with TG peptides





Financials

5. Newsflow



SUFFICIENTLY FUNDED TO ADVANCE CLINICAL PROGRAM BEYOND VALUE INFLECTION POINTS

The company

Cash end of 1Q

135 / **13**

NOK million

USD million

Net cash flow - total 1Q

65 / **6**

NOK million

USD million

Market cap

690 / 66

NOK million

USD million

Analyst coverage

DNB, H.C. Wainwright, Arctic, ABG Sundal Collier, Redeye, Edison

The shareholders

	Estimated ownership ¹		
Shareholder	Shares million	Ownership	
HealthCap	12.4	16.3 %	
RadForsk	4.4	5.8 %	
Nordea	4.3	5.7 %	
Fjarde AP-Fonden	3.0	3.9 %	
Thorendahl Invest	1.5	2.0 %	
Danske Bank (nom.)	1.2	1.6 %	
Morgan Stanley	1.1	1.5 %	
Bækkelaget Holding	1.1	1.4 %	
MP Pensjon	1.0	1.4 %	
Sundt AS	1.0	1.3 %	
10 largest shareholders	31.1	40.8 %	
Other shareholders (4 997)	45.0	59.2 %	
Total shareholders	76.1	100.0 %	



REDUCED OPEX IN 1Q20 IN LINE WITH 3Q19

NOK m	1Q19	2Q19	3Q19	4Q19	1Q20
Total revenue	0	0	0	2	0
External R&D expenses	-19	-22	-14	-25	-13
Payroll and related expenses	-14	-18	-8	-11	-11
Other operating expenses	-7	-5	-5	-5	-5
Total operating expenses	-40	-45	-27	-42	-30
Operating loss Financial income Financial expenses Net financial items Loss before income tax	-40 2 -0 -1	-45 0 -1 -1	-27 1 -0 0 -26	-39 1 -0 5 -35	-29 4 -0 3 -26
Net change in cash Net cash EOP	-46 105	30 135	-31 104	-34 70	65 135





Newsflow



PIPELINE WITH RICH NEAR-TERM NEWS FLOW

Product candidate	Preclinical	Phase I	Phase II	Phase III	Next expected event
	Mesothelioma Combination w/ pemetrexed	/cisplatin			1H 2020 Updated clinical and immune data
ONCOS-102	Melanoma Combination w/Keytruda				2H 2020 Clinical and immune activation data
ONCO5-102	Peritoneal malignancies Collaborators: Ludwig, CRI & AstraZeneca Combination w/Imfinzi				1H 2020 Update at ASCO
	Prostate Collaborator: Sotio Combination w/DCvac				Update by collaborator
ONCOS-200 series	Next Gen viruses				Updates at conferences
Novel mutRAS concepts					



Upcoming events

12-15 May	ASGCT, virtual conference	Next-gen virus poster
26 May	ABGSC Life Science Summit, virtual conference	Company presentation
29-31 May	ASCO, virtual conference	Abstract presentation
22-24 Jun	AACR, virtual conference	Next-gen virus poster
10-11 Aug	IO Summit, Boston, US	Oral presentation
15-16 Sep	RAS-targeted drug discovery summit, Boston, US	Oral presentation

Upcoming milestones

1H 2020	ONCOS-102 phase I/II trial in unresectable	 Updated clinical and immune
	malignant pleural mesothelioma	data
2H 2020	ONCOS-102 phase I trial in checkpoint inhibitor refractory advanced melanoma	– Part 2 data



ACTIVATING THE IMMUNE SYSTEM

TO FIGHT CANCER

CLINICALLY PROVEN

One of the furthest developed oncolytic viruses

Strong single agent data

Activation of anti-PD1 refractory tumors

INNOVATIVE PIPELINE

Next generation virus platform in pre-clinical testing

Exploring novel mutant RAS concepts

RICH NEWS FLOW

Clinical and immune activation from mesothelioma and melanoma trials

Readout from peritoneal trial