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Dr. Magnus Jäderberg - CMO 6 June 2018



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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's 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.

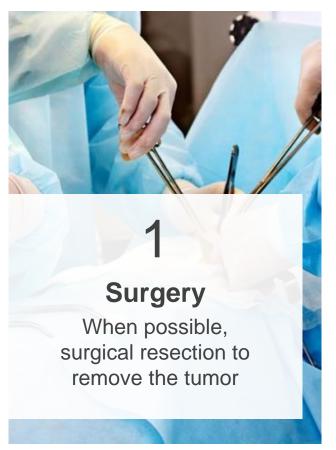




- 2. ONCOS oncolytic virus program
- 3. TG mutRAS neoantigen vaccine program
- 4. Targovax pipeline
- 5. Corporate overview



From a sequential treatment strategy directly targeting the cancer...







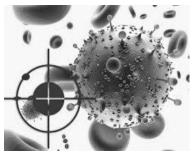


...to an integrated combination approach

HARNESSING THE POWER OF THE PATIENT'S OWN IMMUNE SYSTEM

Targovax focus Immune Immune activators modulators Vaccines, oncolytic viruses inhibitors Surgery - Radio - Chemo **Targeted** Immune therapy boosters



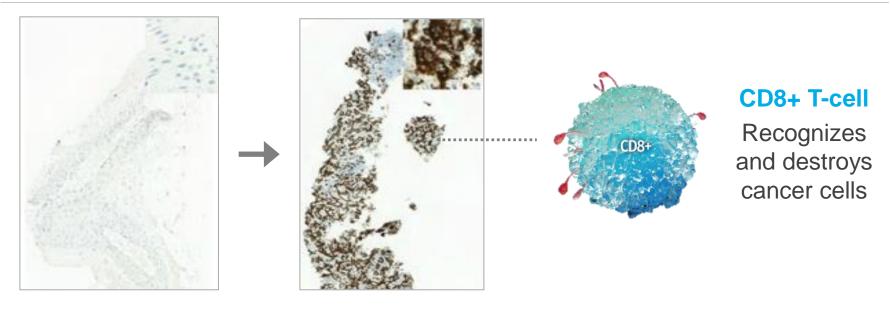




Mode of action

IMMUNE ACTIVATORS TURN COLD TUMORS HOT

Example from Targovax Phase I trial – Ovarian cancer patient



Before injection of oncolytic virus

"Cold tumor"
No T-cell infiltration

After injection of oncolytic virus

"Hot tumor"
Full T-cell infiltration



Targovax has two complementary programs in clinical development, PROVEN TO ACTIVATE THE IMMUNE SYSTEM



ONCOS Oncolytic virus

- Genetically armed adenovirus
- Alerts the immune system to the presence of cancer antigens
- Induces T-cells specific to patients' tumor



TG
RAS neoantigen vaccine

- Shared neoantigen, therapeutic cancer vaccine
- Triggers the immune system to recognize oncogenic, mutated RAS neoepitopes
- Induces mutant RAS-specificT-cells

Activates the immune system

Triggers patientspecific responses

No need for individualization





ONCOS oncolytic virus program

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ONCOS-102 Phase I proof of concept

IMMUNE ACTIVATION DEMONSTRATED

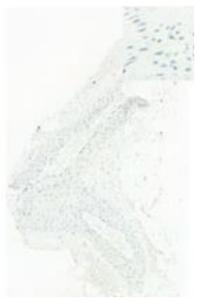
ONCOS-102 Phase I trial design:

- 12 patients, 7 different solid tumors
 - Ovarian, Mesothelioma, Colorectal, Sarcoma, Liver, Lung
- No other treatment options left
 - All chemotherapy refractory
- **ONCOS-102 monotherapy**
 - 9 injections over 5 months

Top-line results:

- 100% innate immune activation
- 11/12 patients increase in CD8+ T-cells
- 40% stable disease
- 2 long-term survivors
- Abscopal effect and lasting systemic immune responses observed

Cold tumor turned hot, CD8+ T-cell staining



Pre-treatment
Baseline

Post-treatment Week 8

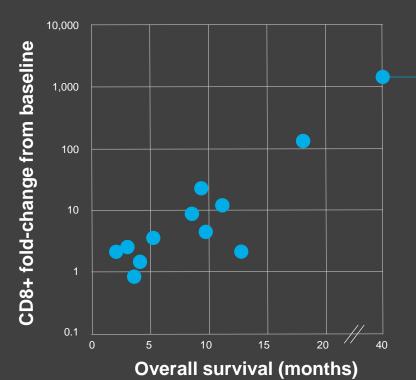


ONCOS-102 Phase I proof of concept

CD8+ T-CELL INFILTRATION CORRELATES WITH SURVIVAL

Fold-change CD8+ T-cell count vs. survival

r = 0.75 p = 0.005



Case example

- o **Ovarian cancer**, 38yr old woman
- Failed on 5 types of chemotherapy
- >1,000-fold increase in CD8+ T-cell infiltration
- Tumor specific T-cells detected up to 2 years after treatment
- Stable disease for 3 years, survived for 3.5 years

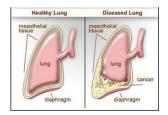


ONCOS CLINICAL DEVELOPMENT STRATEGY

1

Mesothelioma

Orphan disease



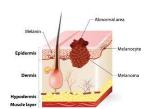
Target launch indication

- Orphan drug status
- Aim to become addition to SoC
- o Ongoing Phase I/II
- o 15,000 patients per year

2

CPI synergy

Intra-tumoral



Indications with no/ limited effect of CPIs

- Ongoing melanoma
 Phase I
- o Combo w/PD-1
- >100,000 patients per year

3

CPI synergy

Intra-peritoneal



Peritoneal malignancies

- Ongoing Phase I/II in ovarian and colorectal
- Combo w/PD-L1
- >100,000 patients per year

4

Next generation

ONCOS viruses

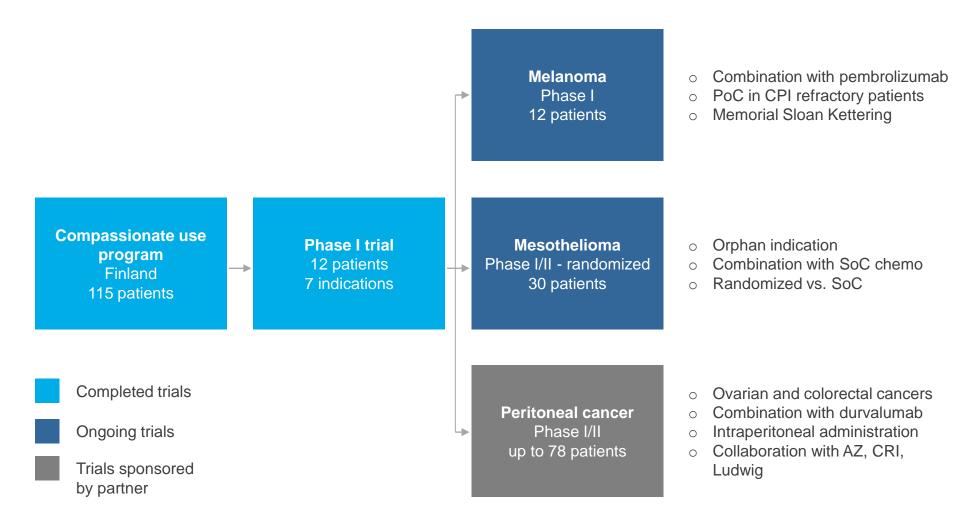


Double transgene adenoviruses

- Novel targets
- o Ongoing in vivo testing
- Broad spectrum of solid tumors

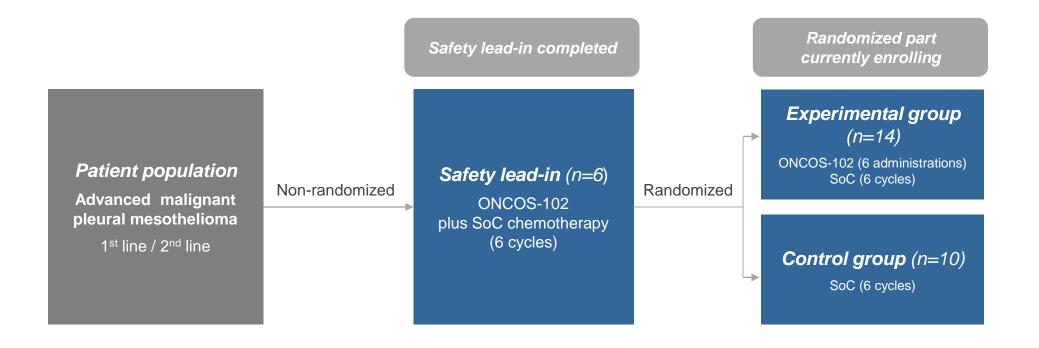


ONCOS CLINICAL PROGRAM OVERVIEW





ONCOS-102 in malignant pleural mesothelioma PHASE I/II STUDY DESIGN IN COMBINATION WITH SoC





ONCOS-102 in malignant pleural mesothelioma SIGNAL OF EFFICACY IN THE FIRST 6 PATIENTS

1 Safety

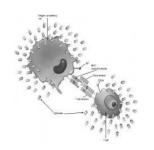
✓ ONCOS-102 welltolerated in combination with chemotherapy



2

Innate immune activation

Systemic increase of proinflammatory cytokines in 6/6 patients (IL-6, TNFα and IFNy)



3

Adaptive immune activation

✓ Increase in tumor infiltration of CD4+ and CD8+ T cells in 3/4 patients



4

Clinical activity

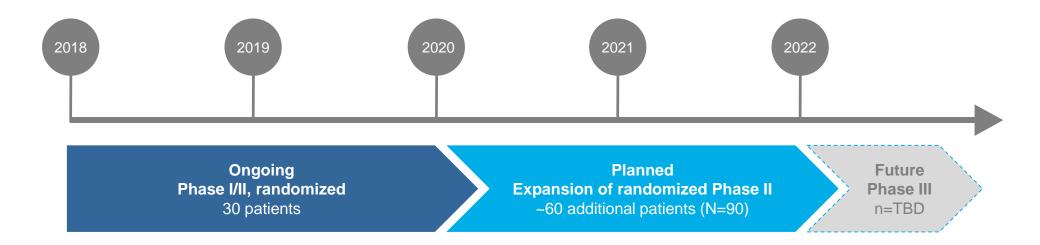
- Clinical activity
 seen in 3/6
 patients after 6
 months
- ✓ 50% disease control rate





ONCOS-102 in malignant pleural mesothelioma

DEVELOPMENT STRATEGY AND INDICATIVE TIMELINES



- Randomized ORR and OS data 30 patients
- Decide on possible CPI combination arm
- EMA & FDA advisory meetings

- Randomized ORR and OS data 90 patients
- Potentially use as basis for a submission for conditional approval
- Potentially start Phase III
 OS trial for full MAA

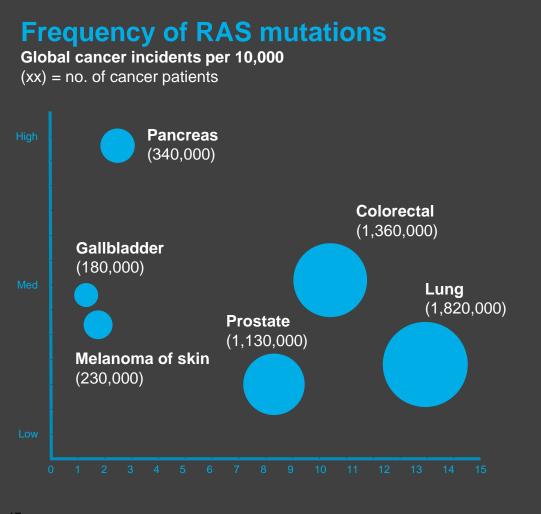




TG mutRAS neoantigen vaccine program

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The RAS gene is mutated in 90% OF PANCREATIC AND 50% OF COLORECTAL CANCERS



- RAS mutations are oncogenic and result in uncontrolled cell division
- There are no existing therapies targeting RAS mutations
- Targovax' TG program is a unique vaccine approach for mutant RAS cancer



WHY THE TG APPROACH MAY WORK

where other cancer vaccines have failed

Historical lessons learned

The TG approach

Target often poorly defined and not cancer specific, mainly TAAs

Mutated RAS is a well-defined, cancerspecific neo-antigen, driving the cancer

No or insufficient immune activation of the adaptive immune system

TG peptides are clinically proven to induce both CD4+ and CD8+ mutRAS T-cells

Most clinical trials have been done in advanced disease

Initial focus on resected patients, with stronger immune system



TG CLINICAL DEVELOPMENT STRATEGY

1
Pancreatic
cancer (resected)



TG01 lead indication

- Phase I/II completed
- Orphan drug status
- Up to 40,000 patients per year

Colorectal cancer



TG02 lead indication

- Phase I trial ongoing
- o 50% RAS mutated
- Up to 500,000 patients per year

Lung cancer (NSCLC)

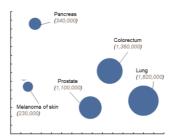


TG02 potential future indication

- o 30% RAS mutated
- Up to 500,000 patients per year

4 All mutRAS

cancers

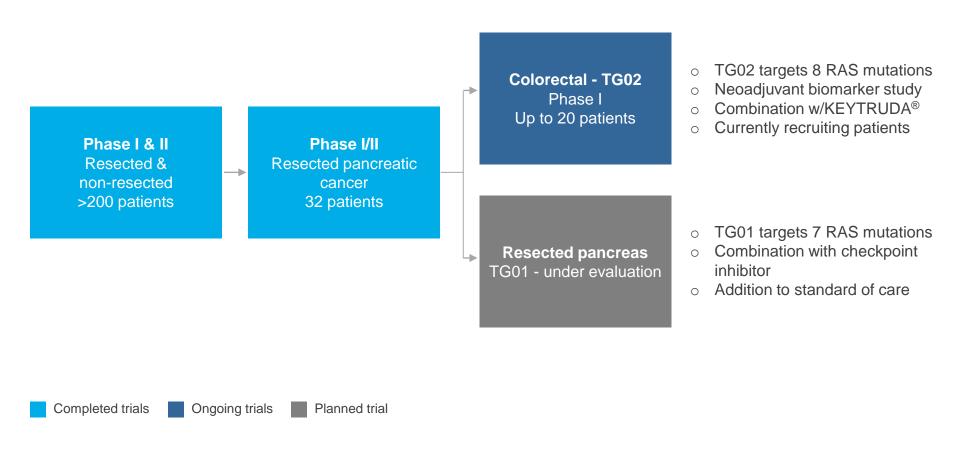


TG02 + TG03 ultimate long-term potential

- o 30% of all cancers
- Up to 30% of all cancer patients



TG CLINICAL PROGRAM OVERVIEW



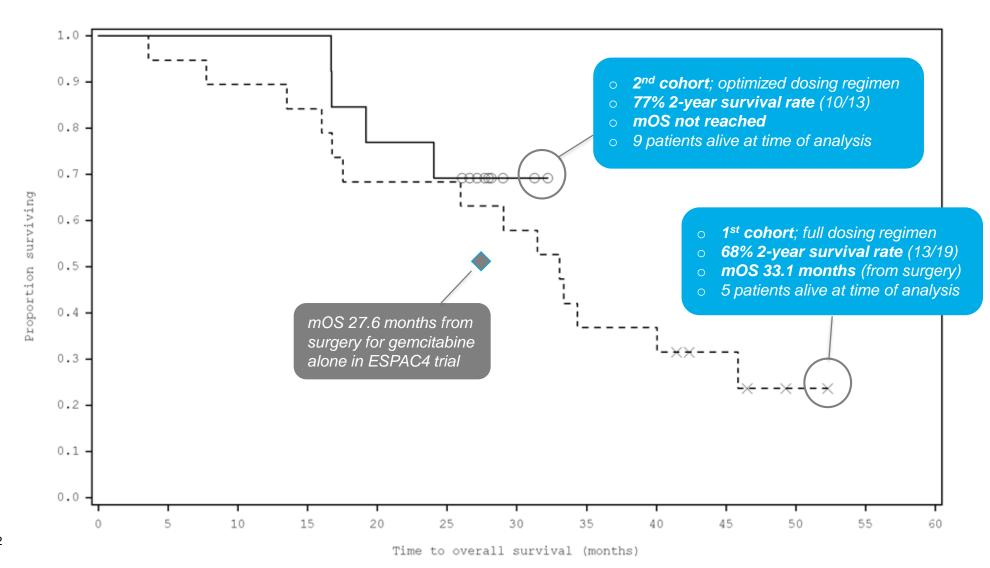


TG01 IN RESECTED PANCREATIC CANCER SIGNAL OF EFFICACY DEMONSTRATED IN PHASE I/II TRIAL WITH ADJUVANT CHEMOTHERAPY

| Median overall survival (N=32) | 33.4 vs. 27.6 months reported in the ESPAC4 trial for gemcitabine alone (counting from time of surgery) 23 out of 32 patients alive two years after surgery (72%), comparing to 30-53% two-year survival with gemcitabine alone | |
|--------------------------------|--|--|
| 2-year survival rate | | |
| 1-year survival rate | 30 out of 32 patients alive one year after surgery (94%) | |
| mutRAS immune activation | 29 out of 32 patients (90%) had RAS-specific immune activation by one-year | |
| Dosing and safety | Optimized dosing regimen defined for future development, and TG01 is well-tolerated in combination with chemotherapy | |

TG01 CURRENT KAPLAN-MAIER SURVIVAL CURVES

First (n=19) and second (n=13) patient cohort



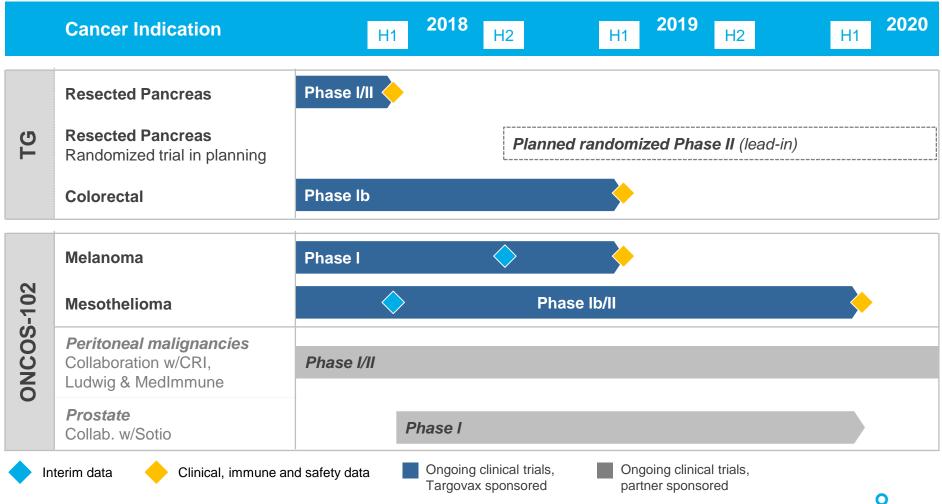


Targovax pipeline

5. Corporate overview



Targovax overall CLINICAL PROGRAM TIMELINES





ACTIVATING THE PATIENT'S IMMUNE SYSTEM

to fight cancer

Broad clinical program

Six shots on goal
Several upcoming data points

Defined path to market

Aim to become frontline treatment in high unmet need cancers

Orphan status in mesothelioma and pancreas

Innovative pipeline

Next gen double transgene viruses in testing

Systemic administration routes under evaluation

Corporate overview



TARGOVAX HAS A SOUND FINANCIAL POSITION

with cash to complete the planned clinical program well into 2019

Operations

Cash end of Q1 - Mar 31st 2018

229 / 29

NOK million USD million

Net cash flow - total Q1

-32 /-4

NOK million USD million

Annual run rate - last four quarters

113 / 15

NOK million USD million

The share

Market Cap - at share price NOK ~17

900 / 110

NOK million USD million

Daily turnover - rolling 6 month avg.

3 / 0.4

NOK million USD million

Analyst coverage

DNB, ABG Sundal Collier, Arctic, Redeye, Norske Aksjeanalyser, Edison



THE SHAREHOLDER BASE IS STRONG

with a mix of specialist, generalist and retail investors

| Shareholder | Estimate | Estimated ownership | |
|------------------------------|-------------|---------------------|--|
| | Shares n | n Relative | |
| HealthCap Sw | eden 12, | 4 23,6 % | |
| Nordea Nor | way 4, | 7 8,9 % | |
| RadForsk No. | way 4, | 4 8,4 % | |
| KLP Nor | way 2, | 1 4,0 % | |
| Statoil Noi | way 1, | 2 2,3 % | |
| Thorendahl Invest Nor | way 1,0 | 0 1,9 % | |
| Danske Bank (nom.) Nor | way 0, | 8 1,6 % | |
| Timmuno Noi | way 0, | 7 1,4 % | |
| Prieta Noi | way 0, | 7 1,4 % | |
| Sundt No. | way 0, | 5 1,0 % | |
| Yngve S. Lillesund Nor | way 0, | 3 0,7 % | |
| NHO - P665AK Noi | way 0, | 3 0,5 % | |
| DNB Noi | way 0,2 | 2 0,4 % | |
| Tobech Invest Nor | way 0,2 | 2 0,4 % | |
| Istvan Molnar Noi | way 0,2 | 2 0,4 % | |
| Danske Bank (nom.) | way 0,2 | 2 0,4 % | |
| Spar Kapital Investor Nor | way 0,2 | 2 0,3 % | |
| Peter Kenneth Zwilgmeyer Nor | way 0,2 | 2 0,3 % | |
| Rolf Arne Olsen Nor | way 0, | 1 0,3 % | |
| Scott Paul Tønnessen Nor | way 0, | 1 0,3 % | |
| Top 20 | 30, | 6 58,3 % | |
| Other shareholders (4138) | 22,0 | 9 41,7 % | |
| Total | 52 , | 6 100,0 % | |

Key international investors participating in PP 2017

- Nyenburgh (NL)
- Trium (UK)
- Millenium Capital Partners (UK)
- Interogo (SWE)
- AP3 (SWE)
- Aramea AM (DE)

Shares and options

57.4m shares fully diluted

- Average strike price on options ~NOK 20
- Total dilutive effect of options is 8.1%

52.6m ordinary shares

- o Management ownership: 0.3%
- >4,100 shareholders



