



ACTIVATING THE PATIENT'S IMMUNE SYSTEM TO FIGHT CANCER

1Q 2021

6 May 2021



targovax

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Introduction and highlights

2. Mesothelioma
3. Melanoma
4. Finance
5. Summary

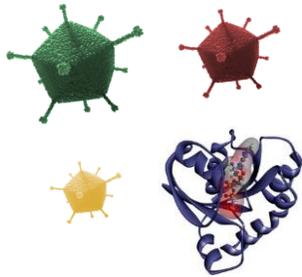
TARGOVAX AT A GLANCE



ONCOS-102

Lead product candidate

- Class-leading data in monotherapy and combinations with chemo and aPD-1
- Powerful immune activation
- Ideal combination partner to aPD-1
- Path to market



Pipeline

- Novel virus approaches
- Novel payloads and modes of action
- Mutant RAS cancer vaccine concepts

Vision:

Unlock greater clinical benefits in cancer patients by deploying multifunctional platforms to target key immune regulators and oncogenic drivers

EARLY-STAGE DEVELOPMENT SUCCESSFULLY COMPLETED – ENTERING LATE-STAGE DEVELOPMENT

Early-stage development

- ✓ Clinical efficacy
- ✓ Immune activation
- ✓ Well tolerated

Late-stage development

PD-1 refractory melanoma



Expansion opportunities

- Mesothelioma
- Colorectal cancer
- Other indications
- Other IO combinations
- Platform development

CLINICAL AND PRECLINICAL PIPELINE

Product candidate	Preclinical	Phase 1	Phase 2	Collaborator	Next expected event
ONCOS-102	Melanoma Combination w/anti PD1				1H 2022 First patient
	Colorectal cancer Combination w/Imfinzi			AstraZeneca CANCER RESEARCH INSTITUTE	Updates by collaborator expected 1H22
	Mesothelioma Combination w/pemetrexed/cisplatin			MERCK	1H 2021 Survival update
ONCOS-200 series	Next Gen viruses			leidos Papyrus	Updates at conferences
Novel mutRAS concepts				VALO THERAPEUTICS OBLIQUE THERAPEUTICS	

RECENT HIGHLIGHTS

Mesothelioma

- Received **Fast-Track** designation from the US FDA for ONCOS-102 in malignant pleural mesothelioma. This opens the potential for expedited development path and review
- Continued **survival benefit** in Targovax's ONCOS-102 trial in mesothelioma at the 21-month follow-up

Pipeline

- Entered a research collaboration with **Papyrus Therapeutics** to develop novel ONCOS viruses with receptor tyrosine kinase (RTK) inhibitor functionality

IP

- Obtained US **patent** for ONCOS-102 in combination with CPI
- **Maintained** TG + chemo **patent** as granted after opposition in EPO

Corporate

- Announced **Dr Sonia Quaratino** as a new member of the Board

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Mesothelioma

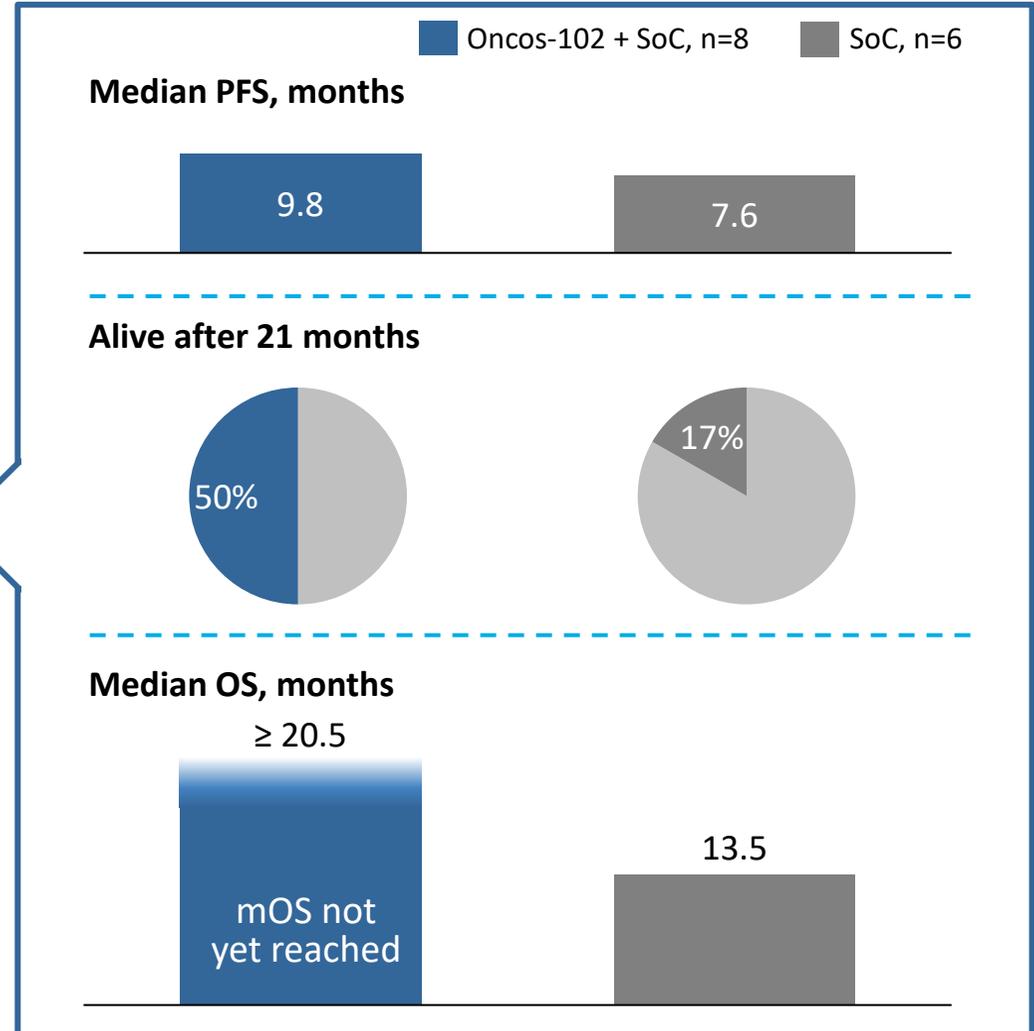
3. Melanoma
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ONCOS-102 MESOTHELIOMA PHASE 1/2 COMBINATION WITH SoC CHEMO ENCOURAGING CLINICAL OUTCOMES IN 1ST LINE

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
1st line	3	8	6
2nd line¹	3	6	5



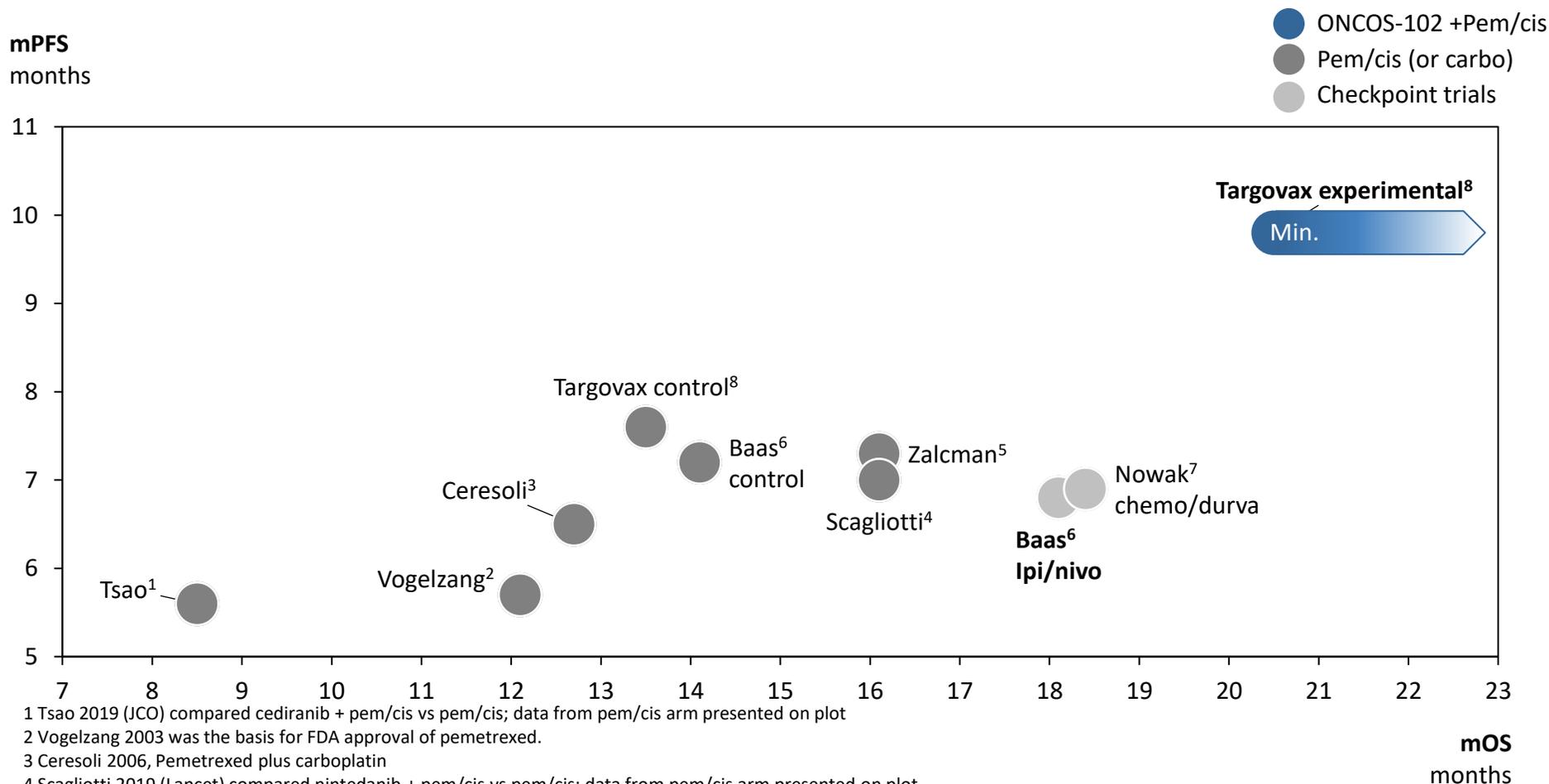
¹ Also including later lines

SoC – Standard of Care

mOS: median Overall Survival. mPFS: median Progression Free Survival

mPFS when combining safety lead-in and randomized part in first line is 8.9 months

FIRST LINE DATA ARE MATURING AND ALREADY COMPETITIVE - MOS WILL BE 20.5 MONTHS OR MORE



1 Tsao 2019 (JCO) compared cediranib + pem/cis vs pem/cis; data from pem/cis arm presented on plot

2 Vogelzang 2003 was the basis for FDA approval of pemetrexed.

3 Ceresoli 2006, Pemetrexed plus carboplatin

4 Scagliotti 2019 (Lancet) compared nintedanib + pem/cis vs pem/cis; data from pem/cis arm presented on plot

5 Zalcman 2016 (Lancet) compared bevacizumab + pem/cis vs pem/cis; data from pem/cis arm presented on plot.

6 Baas 2020 CheckMate 743. Nivolumab + ipilimumab for two years vs pem/cis (or carboplatin). Ipi/nivo was approved in first line by FDA on October 2, 2020.

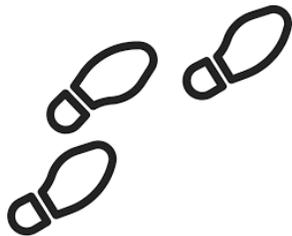
7 Nowak 2020 (Lancet Oncology) Pem / cis (6 cycles) + durvalumab (12 months)

8 1L randomized patients mOS will change: Experimental group, 8 patients (4 censored). Control group, 6 patients (1 censored)

FAST TRACK DESIGNATION AND EVOLVING SURVIVAL DATA PROVIDE OPPORTUNITIES



Well **tolerated** combination therapy
Clear clinical activity in **1st line** patients
Interim **survival** data promising even without CPI
FDA granted **Fast Track** designation in mesothelioma



Next steps

- Continue follow patients to determine mOS
- Decide development path
- Leverage collaboration partner Merck

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Melanoma

4. Finance
5. Summary

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

Patient population

- Advanced, unresectable **melanoma**
- Disease **progression** despite prior treatment with anti-PD1
- Poor prognosis, with **few treatment alternatives**
- 20 patients, 11 stage III and 9 stage IV

Treatment regime

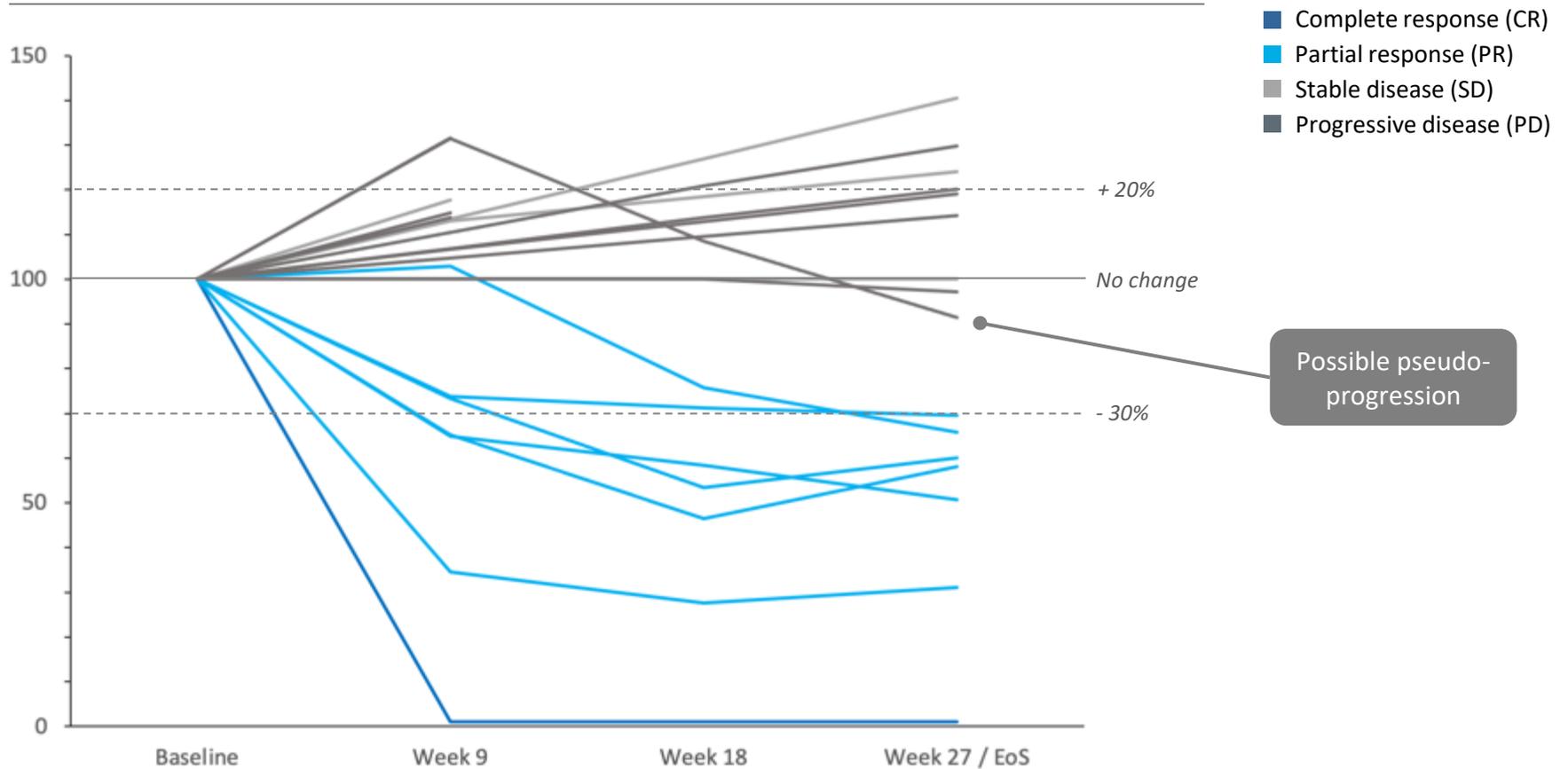
- **Part 1: 3 ONCOS-102 injections** followed by 5 months of Keytruda
- **Part 2: 12 ONCOS-102 injections** - priming and concomitant

Clinical data

- **35% ORR** by RECIST 1.1 and irRECIST
 - 1 Complete Response (CR) (Part 1)
 - 6 Partial Responses (PR) (2 in Part 1, 4 in Part 2)
- Multiple examples of **systemic effect**
- Robust systemic and local **immune activation**
- Well tolerated, no safety concerns

RESPONDERS TYPICALLY HAD REDUCTION IN TUMOR BURDEN ALREADY AT THE WEEK 9 MEASUREMENT

Change in tumor volume through study; normalized to baseline (BL=100)



CASE EXAMPLE 1: PATIENT WITH COMPLETE RESPONSE

Tumor response, 1 of 1 injected lesion

Baseline

Week 3

Week 9

Week 18

Week 27 (EoS)



Progression on pembrolizumab



3x ONCOS-102 only (no pembrolizumab)



3x ONCOS-102 & 2x pembrolizumab



3x ONCOS-102 & 5x pembrolizumab



3x ONCOS-102 & 8x pembrolizumab

Patient characteristics

Tumor stage at enrolment:

IIIb
T4a, N2b, M0

Prior therapies:

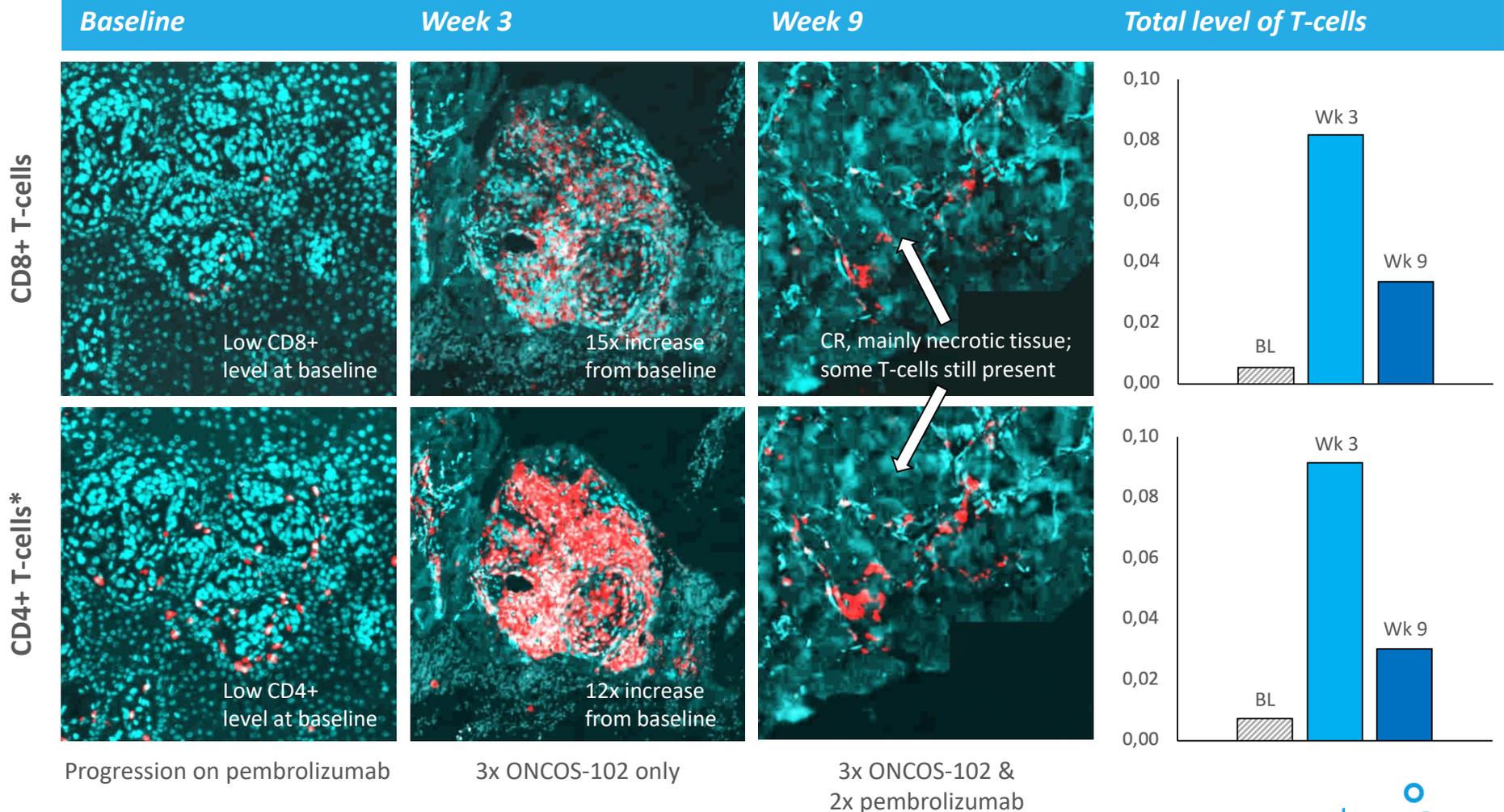
Surgery (x3)
Ipilimumab
Dabrafenib + Trametinib
Pembrolizumab

RECIST 1.1:

CR, week 9-27

CASE EXAMPLE 1: PATIENT WITH COMPLETE RESPONSE TUMOR T-CELL INFILTRATION

T-cell infiltrate, 1 of 1 injected lesion



* FOXP3+ cells (T_{reg}) only present at very low level

CASE EXAMPLE 2: PARTIAL RESPONSE IN PATIENT REFRACTORY TO BOTH T-VEC AND ANTI-PD1

Tumor response, 2 of 2 injected lesions

Baseline

Week 3

Week 9

Week 18

Week 27 (EoS)

Lesion 1 of 2



Lesion 2 of 2



Progression on pembrolizumab

3x ONCOS-102 (no pembrolizumab)

3x ONCOS-102 & 2x pembrolizumab

3x ONCOS-102 & 5x pembrolizumab

3x ONCOS-102 & 8x pembrolizumab

Patient characteristics

Tumor stage at enrolment:

IV
T4a, N1b, M1

Prior therapies:

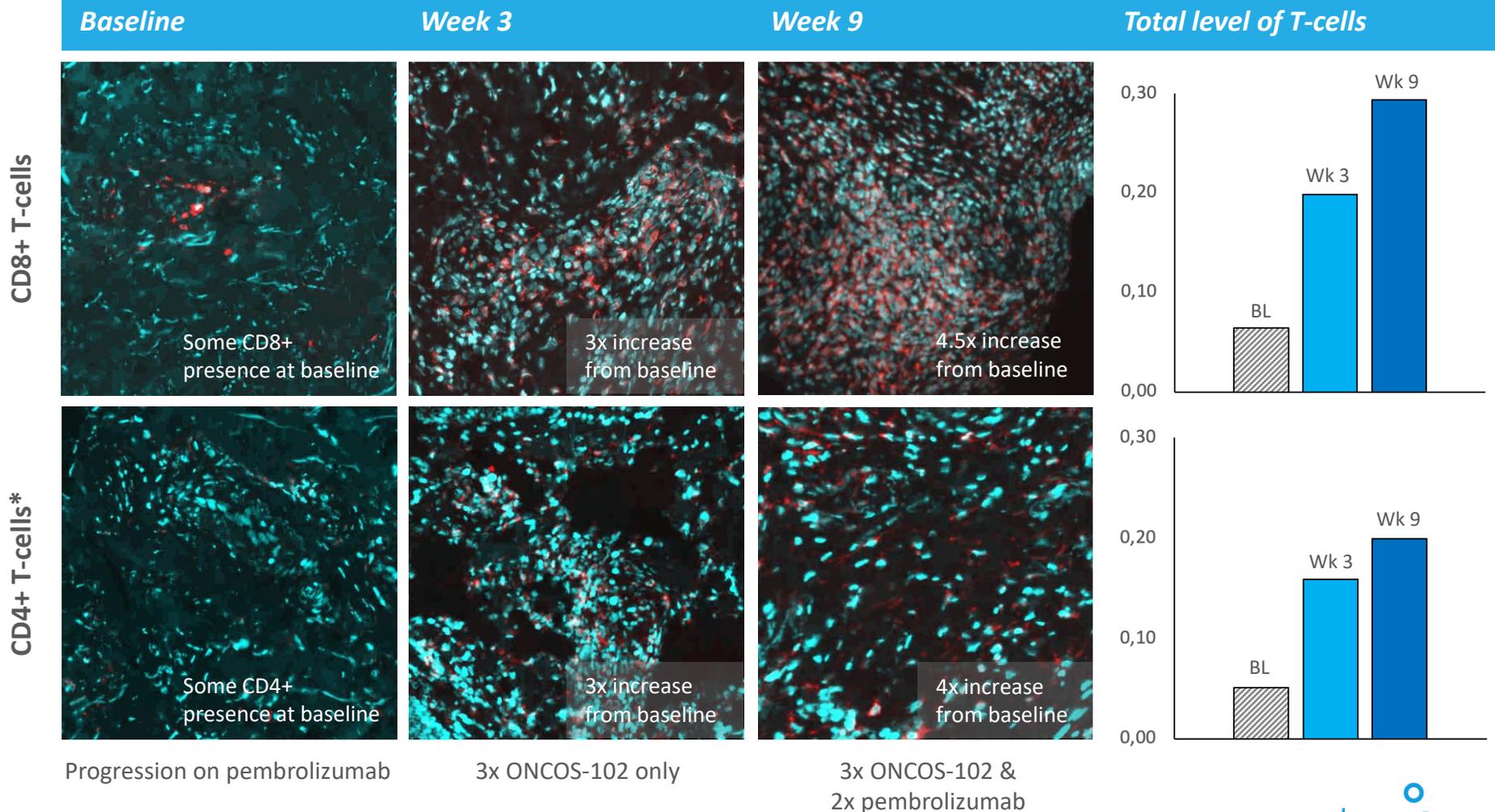
Surgery
Talimogene-laherparepvec (T-vec)
Ipilimumab
Pembrolizumab

RECIST 1.1:

PR, week 9-27

CASE EXAMPLE 2: PARTIAL RESPONSE PATIENT REFRACTORY TO T-VEC – T-CELL INFILTRATION

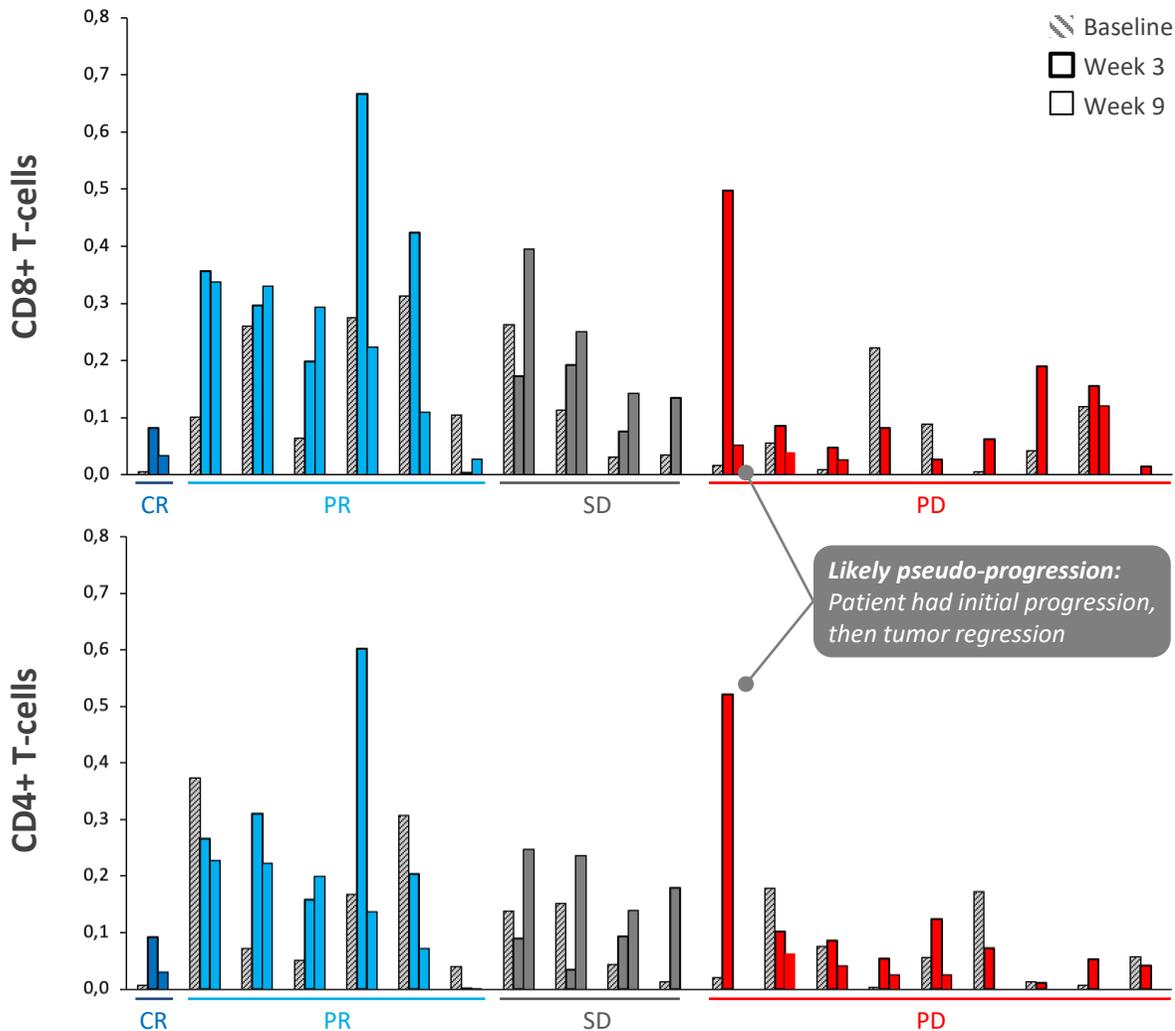
T-cell infiltrate, 1 of 2 injected lesions



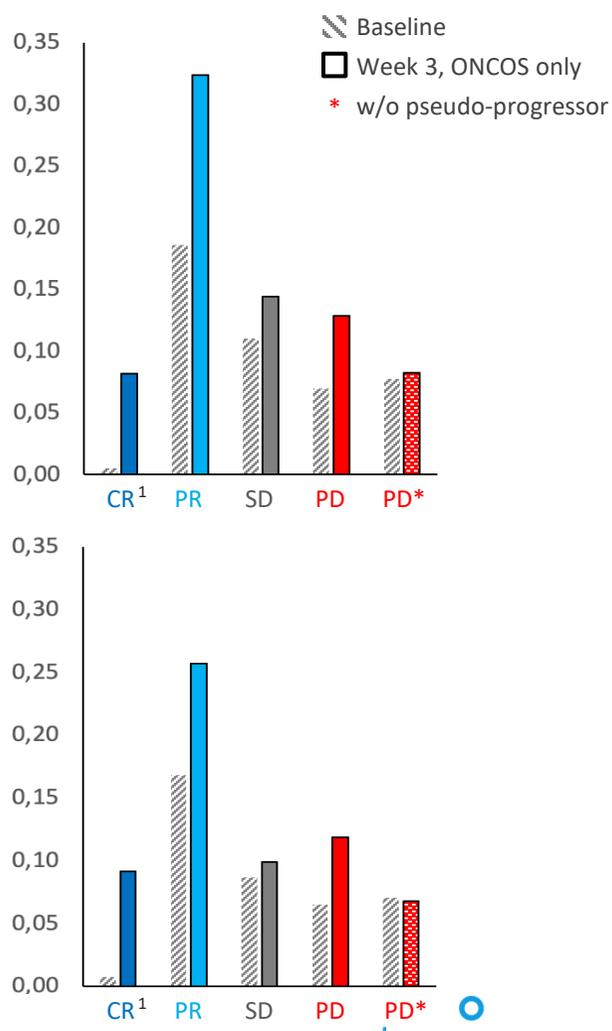
* FOXP3+ cells (T_{reg}) only present at very low level

HIGHEST INCREASE IN TUMOR T-CELL INFILTRATES OBSERVED IN MELANOMA RESPONDERS

T-cell infiltrate (TIL) for individual patients; tumor mIHC, relative level

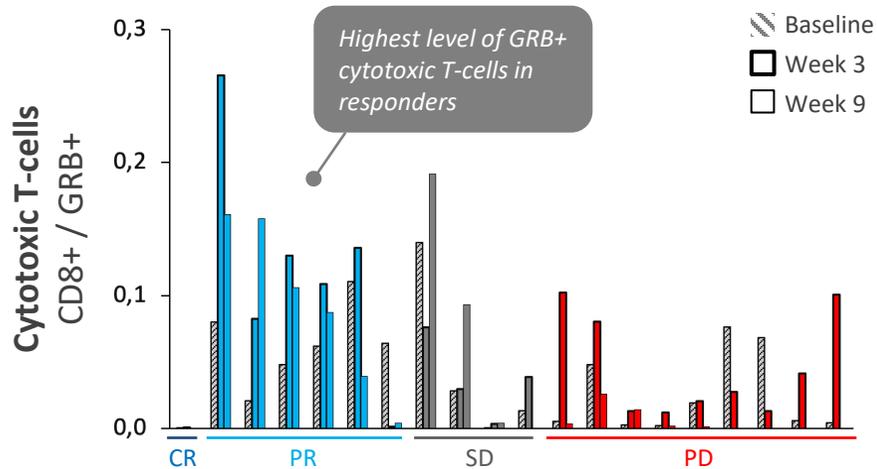


Average T-cell level per group

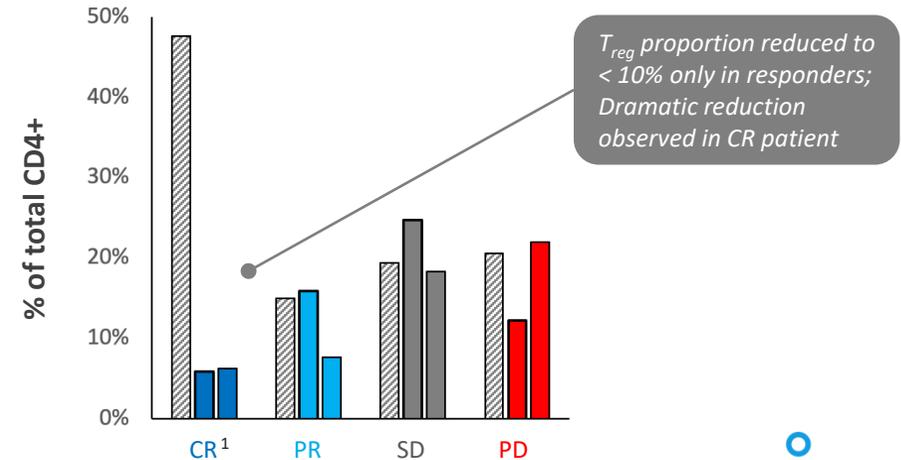
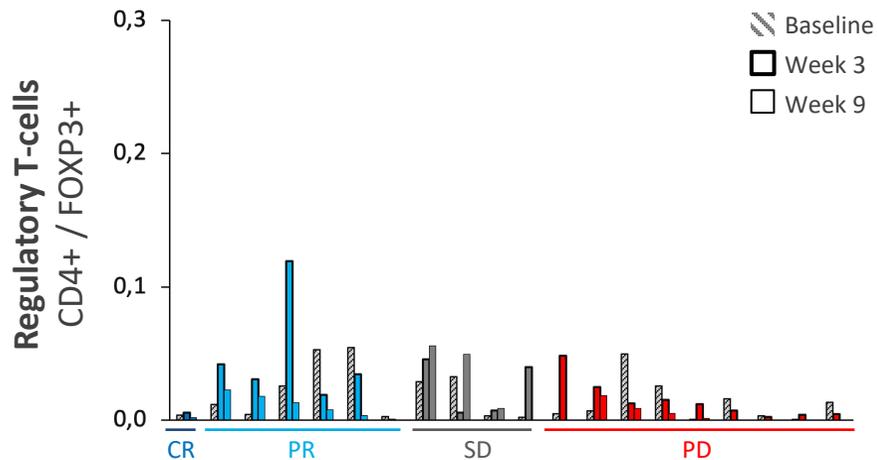
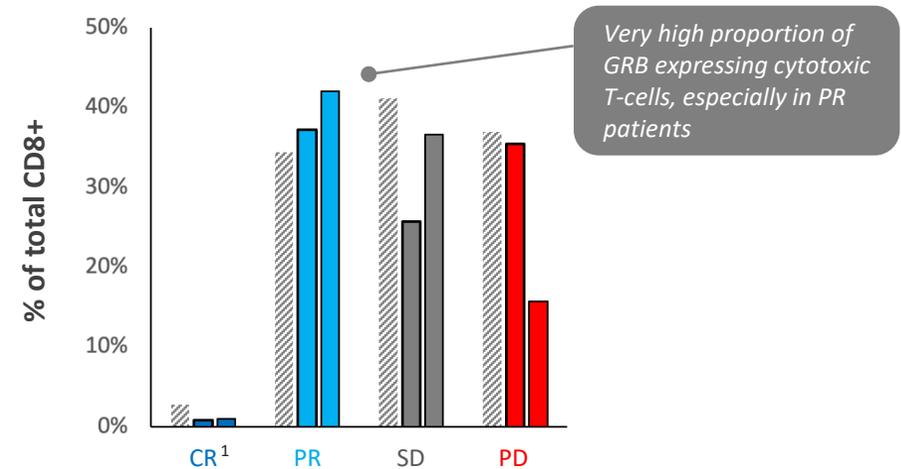


T-CELL SUB-POPULATIONS INDICATIVE OF PRO-INFLAMMATORY SHIFT IN MELANOMA RESPONDERS

T-cell sub-populations; tumor mIHC, relative level



Average % of total T-cell population per group



ONCOS-102 IS A WELL-VALIDATED PROGRAM IN ANTI-PD1 REFRACTORY MELANOMA

Company	Asset	Stage of Development	Type of molecule	ORR in PD-1 Refractory Melanoma	Clinical benefit				Biomarker data			
					Abscopal effect	Monotherapy data	Combination w/aPD1	Combination with chemo	TLR-9 signalling	Inflammatory response	T-cell infiltration	PD-L1 upregulation
	ONCOS-102	Phase 2	Ad5/3 chimeric virus w/GM-CSF	35%	✓	✓	✓	✓	✓	✓	✓	✓
	TAVO	Phase 2	DNA plasmid expressing IL12	30%	✓	✗	✓	✗	✗	✓	✓	✓
	BNT111	Phase 2	mRNA vaccine	35%	N/A*	✓	✓	✗	✗	✗	✗	✓
	RP1	Phase 2	Herpes virus expressing GM-CSF and GALV	31%	✓	✗	✓	✗	✗	✓	✓	✓
	CMP-001	Phase 2	TLR-9 agonist	23%	✓	✓	✓	✗	✓	✗	✓	✗
	PVSRIP0	Phase 1	Poliovirus	33%	✗	✓	✓	✗	✗	✓	✓	✓
	Lifileucel	Phase 2	Autologous TIL therapy (w/ IL-2)	36%	N/A*	✗	✗	✗	✗	✓	✓	✗

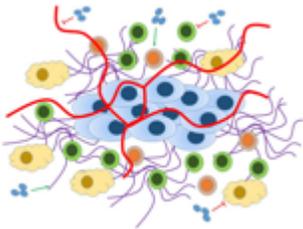
* Systemically administered agents

ONCOS-102 is validated in multiple clinical settings with a broad immune modulation data package

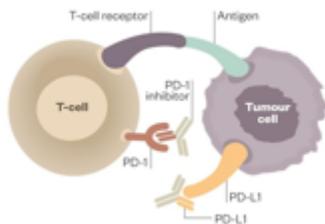
ONCOS-102 MELANOMA IMMUNE ACTIVATION CONCLUSIONS



ONCOS-102 activates the immune system and counteracts multiple mechanisms of immuno-suppression



Multifaceted modulation of the tumor micro-environment induced by ONCOS-102, with a robust shift towards favorable T-cell sub-populations



ONCOS-102 induced immune activation provides **broad and powerful priming to sensitize patients** to respond to subsequent treatment with **checkpoint inhibitors**

TOP INTERNATIONAL KOLs CONSULTED FOR ADVICE ON NEXT STEPS

KOLs consulted Q1 2021

Jedd Wolchok

MSK, New York, USA

Mario Sznol

Yale, New Haven, USA

Georgina Long

Melanoma Institute Australia, Sydney

Douglas Johnson

Vanderbilt, Nashville, USA

Luis de la Cruz

Hospital Virgen Macarena, Seville, Spain

Friedegund Meier

Technical University, Dresden, Germany

Jeff Evans

University of Glasgow, UK

KOL feedback and recommendations for next steps

- **ORR of >30% viewed as positive**, uniform recommendation to **continue development**
- **Systemic effect better than would be expected**, considered very important
- **ONCOS-102 + aPD1 combination has a shot at accelerated approval** if the response rate holds up in a single arm phase 2
- Suggestion that Targovax should also consider **ONCOS-102 + aPD1/aCTLA4** double combination
- All KOLs indicated **interest to participate in the next study**
- **Douglas Johnson** confirmed PI of phase 2 trial

TARGOVAX IS PLANNING FOR A STUDY TARGETING ACCELERATED APPROVAL IN PD1 REFRACTORY MELANOMA

Rationale

- Highly competitive clinical data
- No standard of care (yet)
- Fast route to market
- KOL endorsement

Study design – current thinking

- **ONCOS-102 + aPD1**
- **Single arm, ca. 100 patients**
- **aPD1 (+/- aCTLA4) refractory**
- **Primary endpoint: ORR**
- Additional focus: systemic effect and durability
- Dosing: “**Part 2**” regimen

Next steps

- Test concrete study design and enrolment criteria with **KOLs**
- **Consult with FDA** to agree accelerated approval path
- **Select anti-PD1 collaboration partner**
- First patient planned 1H 2022

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Finance

3. Summary

FIRST QUARTER OPEX IN LINE WITH PREVIOUS QUARTERS

NOK m	1Q20	2Q20	3Q20	4Q20	1Q21
Total revenue	0	0	0	0	0
External R&D expenses ¹	-13	-14	-9	-8	-9
Payroll and related expenses	-11	-11	-9	-12	-11
Other operating expenses ²	-5	-5	-4	-3	-2
Total operating expenses	-30	-30	-22	-23	-23
Operating loss	-29	-30	-22	-23	-23
Net financial items	3	-4	-1	-3	1
Loss before income tax	-26	-33	-23	-26	-22
Net change in cash	65	-34	-24	45	-27
Net cash EOP	135	101	78	122	95

¹ Including patent cost

² Including depreciation

KEY FIGURES

The company

Cash at end of 1Q

95 / 11

NOK million USD million

Net cash flow - total 1Q

-27 / -3.2

NOK million USD million

Market cap

700 / 84

NOK million USD million

Analyst coverage

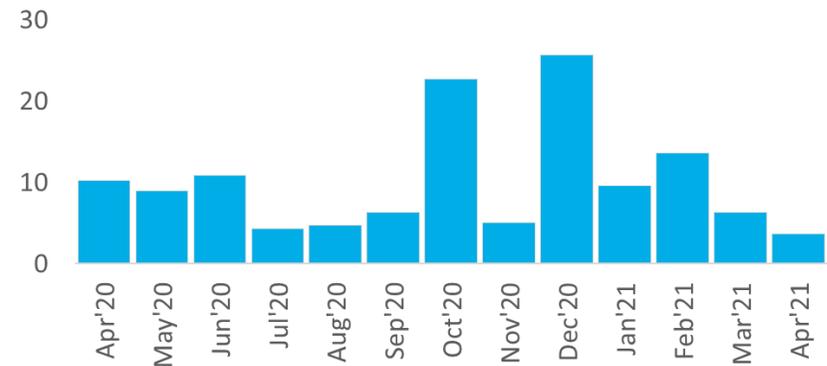
DNB, Carnegie, H.C. Wainwright

Share liquidity

150% of shares traded last 12 month

Share turnover per month¹

Million shares



Daily value traded

Average last 12 months

3.4 / 0.4

NOK million USD million

TG + CHEMO PATENT MAINTAINED AS GRANTED AFTER OPPOSITION IN EUROPEAN PATENT OFFICE

Background

- An undisclosed party opposed to the granted patent EP 3140320, claiming:
 - Lack of novelty (not new)
 - Lack of inventive step (obviousness)
 - The patent does not disclose the invention in a sufficiently clear and complete manner
 - The patent extends beyond the content of the application/earlier applications
- The Opponent requested the patent to be revoked in full

Outcome

- Oral proceedings with Opposition Division was held on April 29
- All objections from the opponent were rejected by the Opposition Board
- The patent is maintained as granted

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Summary

IN SUMMARY



Lead product ONCOS-102 directed to the \$25 billion market for checkpoint inhibitors

Entering late-stage development in refractory melanoma with class-leading data

Powerful and comprehensive immune activation supporting IO-combinations

Pipeline with multiple additional value-creating opportunities

Strong patent position & robust leadership team

Upcoming conferences / events

- 12 May 2021:** Radium podcast (*Norwegian*)
- 25 May 2021:** ABGSC Life Science Summit – investor presentation
- 25 May 2021:** Oncolytic Viruses Symposium – scientific presentation

Upcoming data milestones

- 1H 2021:** ONCOS-102 Phase 1/2 trial in unresectable malignant pleural mesothelioma
– *Survival data*
- 1H 2022:** ONCOS-102 Phase 2 trial in colorectal cancer with peritoneal carcinomatosis
– *Clinical and immune data (pending collaboration partner)*

Financial Calendar 2021

- 18 Aug 2021:** Second Quarter presentation
- 4 Nov 2021:** Third Quarter presentation
- 17 Feb 2022:** Fourth Quarter presenttion