Ultimovacs

Enabling the immune system to fight cancer

Ultimovacs Company Presentation

25 January 2023

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Ultimovacs is a clinical-stage biotech developing a universal, off-the-shelf cancer vaccine in a broad clinical program

Universal, off-the-shelf cancer vaccine, targeting telomerase

- Telomerase is expressed in 85-90% of cancer types throughout all disease stages
- Target essential for cancer cell survival, difficult for the tumor to escape immune response
- The vaccine is easy to use and has the potential to be used in multiple cancer types

Excellent clinical trial execution

- Currently one Phase I and five Phase II trials ongoing. Multiple phase I in long term follow-up
- Strong safety profile, efficacy signals, and immune response durability
- 5 key value inflection points in the next 6-24 months

Strong external validation

- Fast Track designation and Orphan Drug designation in metastatic melanoma provides FDA validation
- Validation through joint projects with large pharma companies and oncology specialist groups





Ultimovacs has a strong financial position, experienced management team, supported by long-term shareholders, with a cash runway into 2024

Company profile

- Clinical-stage biotech, ٠ developing universal cancer vaccines
- Founded in 2011 .
- Listed at Euronext Oslo Stock . Exchange in 2019
- 26 employees in Oslo, Norway . and Uppsala, Sweden
- Market cap¹: NOK 3.75bn . (\$380m)
- Estimated cash runway to the . first part of 2024

Management



Ton Berkien

Officer

Chief Business



Jens Bjørheim MD. PhD Chief Medical Officer



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Investor	Holding
Gjelsten Holding	18.89%
Canica	7.87%
Sundt Group ³	7.71%
Watrium	5.18%
Inven2 - University of Oslo's TTO	4.52%
Radforsk (biotech fund)	4.40%
Government Pension Fund Norway ⁴	4.39%
Langøya Invest	4.04%
Тор 20	68.89%

Shareholders²

Other

Capital markets transactions

Date	Transaction	Deal value
Oct '21	Private placement ⁵	NOK 270m (\$28m)
May '20	Private placement ⁵	NOK 160m (\$17m)
May '19	IPO	NOK 370 (\$38m)



Inventors

Inventor. **Professor Emeritus** Chief Scientific Officer



PhD, Ass. Professor

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1. As of January 24, 2023 2. As of December 6, 2022 3. Comprises Helene Sundt, CGS Holding, Sundt 4. Folketrygdfondet 5. Oversubscribed

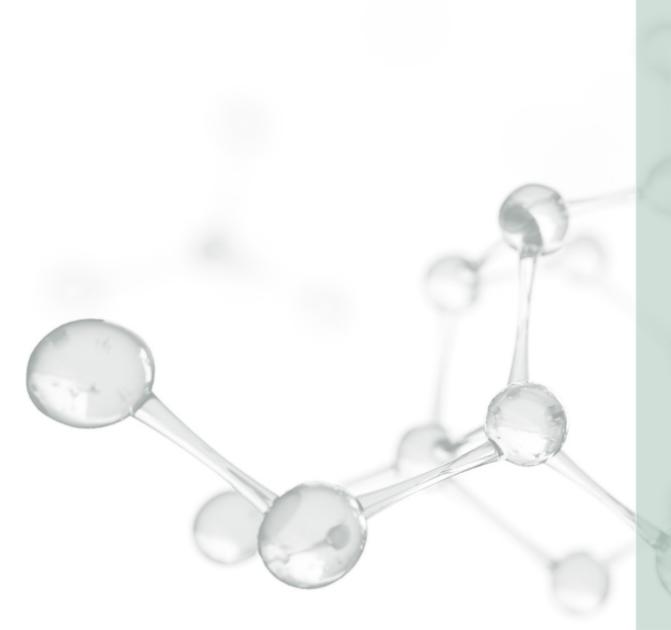
31.11%

Broad Phase II program ongoing for UV1: strong recruitment of >650 patients

	Indication	Checkpoint inhibitor(s)	Patients (#)	Recruited	Expected topline readout	Phase I	Phase II	Phase III	Contributors
	Malignant melanoma	Ipilimumab	12	Completed	Completed	UV1-ipi			
	Malignant melanoma	Pembrolizumab	30	Completed	Completed	UV1-103			
	Malignant melanoma	Ipilimumab & nivolumab	156	Completed	H1 2023				
UV1	Pleural mesothelioma	Ipilimumab & nivolumab	118	Completed	H1 2023				HI Bristol Myers Squibb ^{* 3}
	Head and neck cancer	Pembrolizumab	75	> 50% ¹	End of 2023 ²		FOCUS		NSGO-CTU here here of generational design of the second se
	Ovarian cancer	Durvalumab & olaparib	184	< 10% ¹	End of 2023 ²		DOVACC	C.	MARTIN-LUTHER-UNIVERSITÄT HALLE-WITTENBERG
	Non-small cell lung cancer (NSCLC)	Cemiplumab ⁴	138	<10% ¹	End of 2024 ²				• VESTRE VIKEN DRAMMEN HOSPITAL
TET	Prostate cancer	Dose finding trial, monotherapy	12	Completed	H2 2023	TENDU			



Note: UV1 Phase II development is further supported by good safety profile and signals of clinical efficacy observed in two other Phase I trials where 40 patients with prostate cancer and lung cancer were included. Patients in these studies have been followed for at least five years. 1: As of Q3 2022 reporting. 2: FOCUS, DOVACC and LUNGVAC: Readout estimates will be updated with the Q4 2022 report 3: Supply agreements. 4: As per 1 January 2023



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UV1 enhances antitumor response by activating telomerase-specific T cells

Current CPI challenges

- Checkpoint Inhibitors (CPI) have transformed cancer therapies, but rely on a pre-existing T cell responses towards the tumor for efficacy
- Only 10-58% patients have a long-term response to CPI treatment, depending on indication¹
- A universal cancer vaccine could address these challenges and improve the immune response

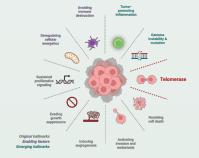
Approach Ultimovacs

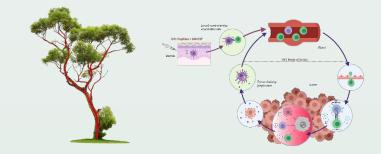
1 Telomerase

- Lead candidate UV1 targets telomerase (TERT), which plays an essential role in tumor proliferation and immortality
- Telomerase is universally expressed by cancer cells (85-90%) and present throughout all tumor stages

2 Mechanism of action

- Telomerase peptides are picked up by antigen-presenting cells and prime T cells
- Telomerase-specific T cells migrate to the tumor site and initiate tumor killing
- Through cytokine secretion, the T cells activate other immune cells, enhancing the immune response against the tumor

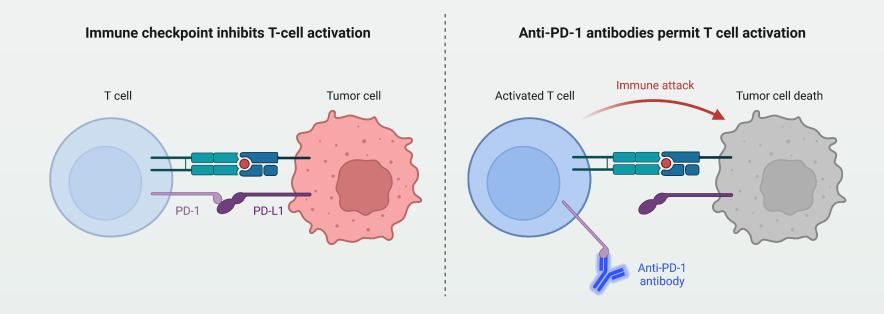






1. 10% - 58% response for indications in development. Compugen Corporate Overview 2021/FDA Label (PD-1 monotherapy/combination activity across indication) *Netw Open.* 2019;2(5):e192535. doi:10.1001/jamanetworkopen.2019.2535

CPIs have transformed cancer therapy, but efficacy can be improved

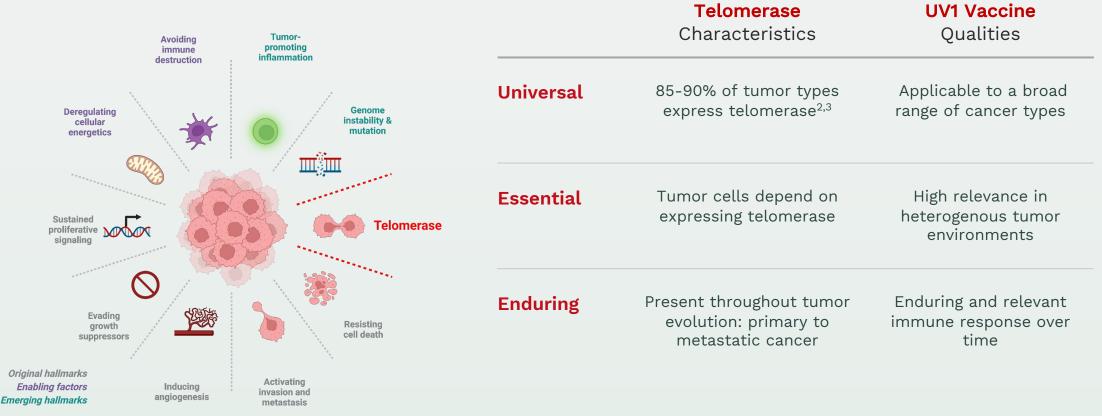


- CPIs rely on **spontaneous** T cell responses against tumors, which remains the biggest bottleneck for broader CPI efficacy¹
- Most patients do not experience clinical benefit from checkpoint inhibition due to large variability in spontaneous anti-tumor immune responses
- UV1 is ideally positioned to improve the T cell response required for broader efficacy



 Tumeh, P., Harview, C., Yearley, J. *et al.* PD-1 blockade induces responses by inhibiting adaptive immune resistance. *Nature* 515, 568–571 (2014).
 Figure: Jenkins, R., Barbie, D. & Flaherty, K. Mechanisms of resistance to immune checkpoint inhibitors. Br J Cancer (2018) Created with Biorender

UV1 induces T cell responses against telomerase: a hallmark of cancer



Hallmarks of Cancer¹



1.

2.

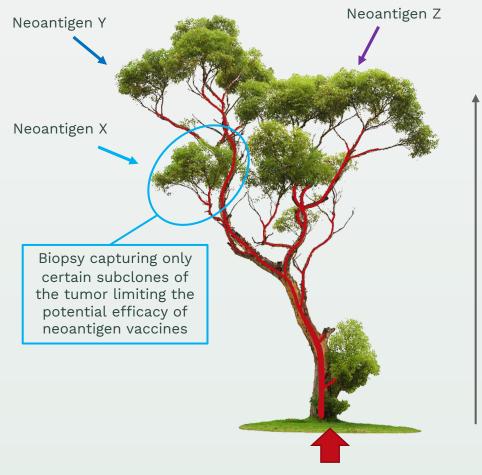
3.

4.

Hanahan D et al. Cell (2011) - Figure created with Biorender. Kim et al. Science (1994) Shay et al. European Journal of Cancer (1997) Hornsby PJ. (2007)

UV1 activates hTERT specific CD4-helper T lymphocytes

- **Mechanism of action:** Vaccination induces T cell responses, which have pro-inflammatory functions and roles in activation of CTLs and memory T cell formation
- **Vaccine design:** UV1 consists of three synthetic long peptides (one 30-mer, two 15-mers), covering the catalytic site of human telomerase reverse transcriptase hTERT
- Easy to use: Peptides are promiscuous with respect to HLA class I and II alleles – No need for pre-screening of HLA type or other biomarkers
- Administration: 8 UV1 intradermal vaccinations over a 14-week period off the shelf. Local administration of GM-CSF as vaccine adjuvant to attract DCs
- **Safe**: UV1 does not inhibit telomerase activity but generates T cell responses recognizing fragments of telomerase presented in the context of HLA molecules on cells in the tumor. No safety signals seen from healthy tissues expressing telomerase (e.g. stem cells).



hTERT expression is a truncal event for the tumor and a **relevant tumor antigen in space and time**



1

2

3

UV1 mode of action and downstream mechanisms enhance tumor killing

Intradermal injection of UV1 and **activation of TERT-specific T cells**

- Improved priming of anti-tumor immune responses
 - T cells bind their antigen (TERT) expressed on local APCs and the T cells release cytokines (TNF-α, IFN-γ and IL-2) inducing a proinflammatory "hot" tumor microenvironment

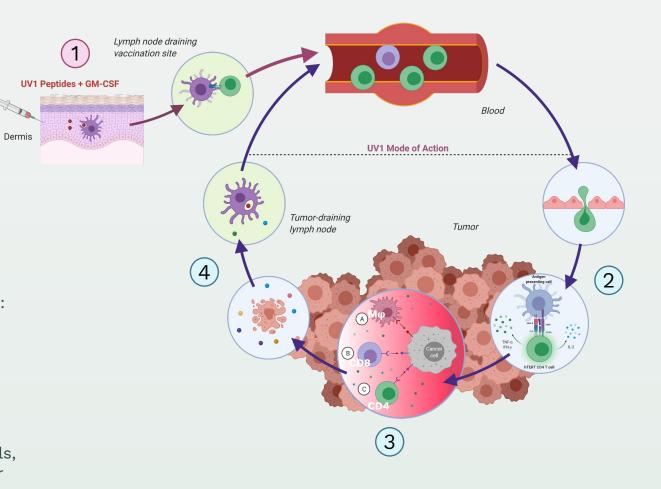
Enhanced intratumoral activation of T cells

- T cells activate other cells of the immune system through cytokine secretion, directing killing through:
 - i. Macrophages
 - ii. CD8 T cells
 - iii. CD4 T cells

(4)

Increased tumor cell killing

- Dying tumor cells release antigens
- These are taken up by APCs and presented to T cells, broadening the immune response against the tumor







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Strong Phase I efficacy and safety data of UV1 in two combination trials

Malignant melanoma

Trial design	1 UV1 + ipilimumab	2 UV1 + pembrolizumab	FDA designations
Nr. of patients	12	30 (cohort 1: 20, cohort 2: 10)	 In Oct 2021, granted Fast Track
UV1 dose	300 µg	300 µg	designation for UV1 as add-on therapy to
GM-CSF dose	75 µg	Cohort 1: 37.5 µg, cohort 2: 75 µg	ipilimumab or pembrolizumab in advanced non-
Primary endpoint	Safety (good)	Safety (good)	resectable and metastatic melanoma
Secondary endpoints	PFS, OS, ORR, exploratory biomarkers	PFS, OS, ORR, exploratory biomarkers	• In Dec 2021, granted
Clinical activity	Strong initial signals	Strong initial signals	Orphan Drug designation for UV1 as add-on therapy to
Publication	Poster presentation at <u>SITC Annual</u> <u>Meeting 2021</u> , publication in <u>Frontiers</u> <u>in Immunology</u> (May 2021)	Data reported at ASCO 2021 and updates presented at the 19th International Conference of the Society for Melanoma Research,17-20 October 2022 in Edinburgh	ipilimumab and nivolumab in stage IIB-IV malignant melanoma



1 2 UV1 + ipilimumab & pembrolizumab

Consistently favorable efficacy and safety signals vs. historical controls Malignant melanoma

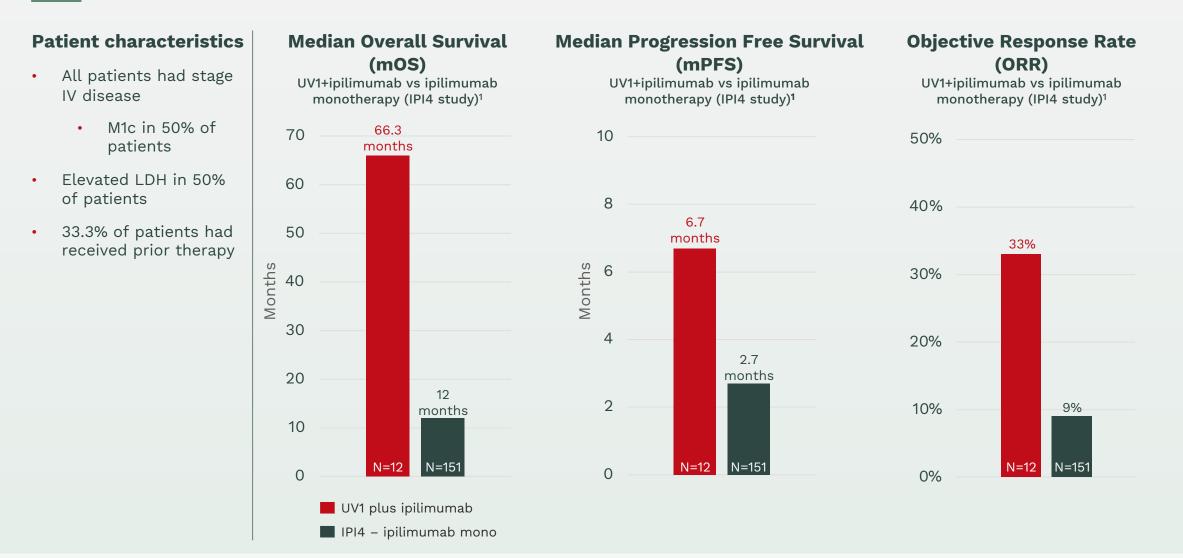
Regimen	n	ORR (%)	CR (%)	mPFS (months)	mOS (months)	Grade 3-5 TRAE (%)	Reference
Nivolumab + ipilimumab	314	58	22	11.5	72.1	59	CheckMate-067 Wolchok JD et al. 2022 Larkin et al. 2019
Nivolumab + relatlimab	355	43	16	10.2	Not reached (2-year OS 64%)	21	RELATIVITY-047 Long GV et al. 2022
Pembrolizumab	556	34-42	5-14	5.5-11.6	38.7	18	KEYNOTE-006 FDA Package Insert Robert C et al 2019*
UV1 + Pembrolizumab	30	57	33	18.9	Not reached (2-year OS 73%)	20	Zakharia et al. SMR oral pres. 2022
Ipilimumab	151	9	2	2.7	12.1	28	IPI4 Aamdal E et al. 2022
UV1 + Ipilimumab	12	33	8	6.7	66.3	42	Ellingsen EB et al. 2022



*mPFS and mOS in subgroup receiving pembrolizumab as first-line treatment (Robert C et al, 2019) TRAE: Treatment-related adverse event 1

UV1 + ipilimumab has shown positive efficacy vs. historical control

Malignant melanoma



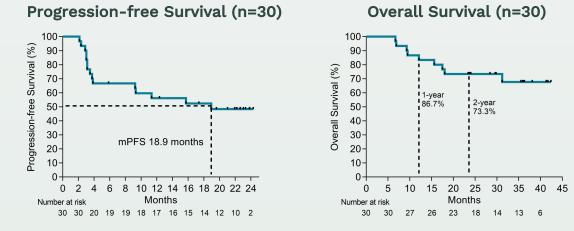


UV1 + pembrolizumab - promising efficacy in Phase I trial

Malignant melanoma

The survival rates for the 30 patients in cohort 1 and cohort 2 combined

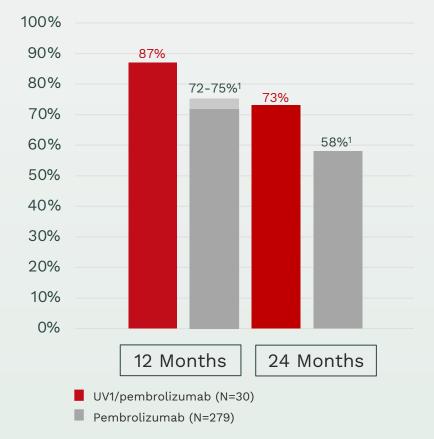
- Median progression free survival: Cohort 1+2 combined is 18.9 months
- Overall survival
 - Cohort 1+2 combined after 12 months: 87%
 - Cohort 1+2 combined after 24 months: 73%
 - Cohort 1 after 36 months: 71%



- Patients will continue to be followed for long-term survival
- UV1 has demonstrated a good safety profile; no unexpected safety issues have been observed in the trial

Overall survival at 12 and 24 months

Topline readout from Phase I trial in malignant melanoma compared to historical pembrolizumab data¹

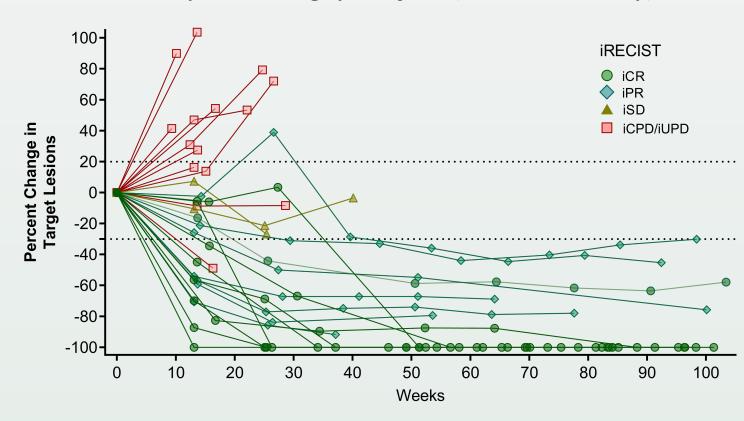


1. Not a head-to-head comparison, for reference only. Data from KEYNOTE-006 sub-set of patients is the reference trial for pembrolizumab in melanoma
 2. Data from KEYNOTE-006 (Robert C, 2019), the pivotal study referred to in the Keytruda (pembrolizumab) package inserts

2 UV1 + pembrolizumab

Deep and durable clinical responses to UV1 + pembrolizumab

Malignant melanoma



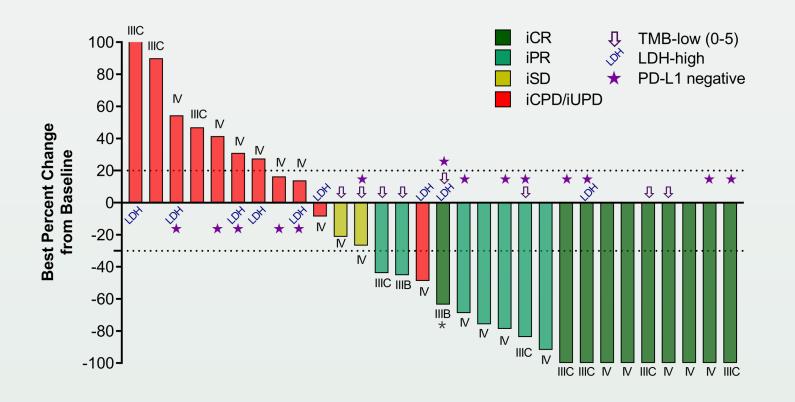
Responses lasting up to 2 years (maximum follow-up)

- Patients were followed with CT scans for up to two years
- 57% of patients achieved an objective response to the treatment (>30% reduction in tumor size)
- 33% of patients achieved complete response (complete disappearance of the tumor)
- 94% of the objective responses lasted more than 1 year



Robust clinical responses in patients typically obtaining reduced CPI efficacy

Sustained high ORR and CR rate to UV1 + pembrolizumab combo in PD-L1 negative tumors



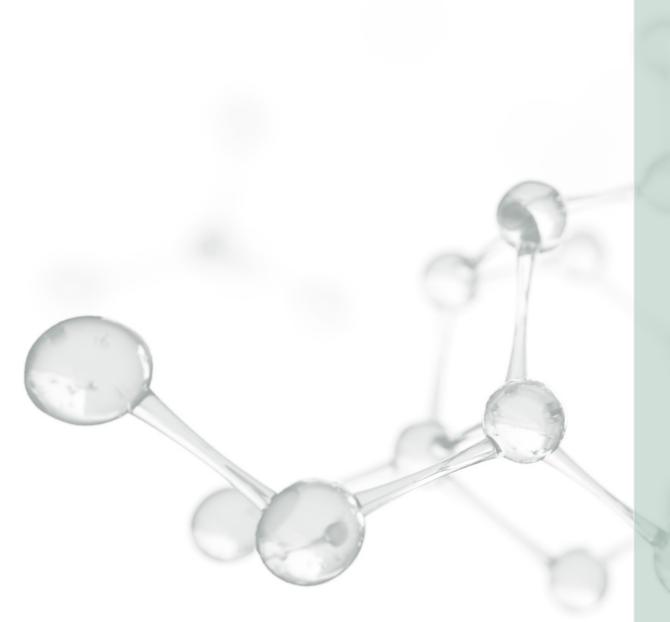
Best Overall Response (iRECIST)	n	%
ORR (n=30)	17	56.7
Complete Response	10	33.3
Partial Response	7	23.3
Stable Disease	2	6.7
Progressive Disease	11	36.7
ORR in PD-L1 negative patients (n=14)	8	57.1
Complete Response	5	35.7
Partial Response	3	21.4

Historical reference study: KEYNOTE-006 (FDA Package insert; Robert C, 2019; Carlino MS, 2018)							
ORR : 34-42%	ORR PD-L1 neg: 24.3% (95% Cl, 16.4%-33.7%)						
CR : 5-14%	CR PD-L1 neg: 5.8%						

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* Lymph node target lesion was reduced from 17.2 mm to 6.3 mm (-63% change). A lymph node size of <10 mm is considered normal, and a PET/CT-scan later confirmed no malignant activity. The patient is therefore considered an iCR according to iRECIST

PD-L1 staining with 22C3 pharmDx for Autostainer Link 48. PD-L1 positive defined as ≥1% of tumor cells



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Ultimovacs' UV1 pipeline consists of five comparative, randomized Phase II <u>tria</u>ls in more than 650 patients

		A	Contraction of the second seco		
Trial design		2 NIPU	3 FOCUS	4 DOVACC	5 LUNGVAC
CPI combination	Ipilimumab + nivolumab	Ipilimumab + nivolumab	Pembrolizumab	Durvalumab + olaparib	Cemiplimab
Indication	First line malignant melanoma	Second line mesothelioma	First line head and neck cancer	Second line ovarian cancer	First line non-small cell lung cancer
Timeline	2020 - 2023	2020 - 2023	2021 – 2023	2021 – 2023	2022 - 2024
Expected topline results	H1 2023	H1 2023	2023 ¹	2023 ¹	H2 2024 ¹
No. of patients Enrollment status Sites & countries	N=156 100% recruited 40 sites in US, NO, BE, UK	N=118 100% recruited 6 sites in NO, SE, DK, ES, AU,	N=75 > 50% recruited 10 sites in DE	N=184 < 10% recruited >40 sites in NO, SE, DK, FI, BE, NL, DE, AT, LT, EE, GR	N=138 < 10% recruited 8-10 sites in NO

Primary endpoint: Progression Free Survival (PFS)

Secondary endpoints: Overall Survival (OS) + Objective Response Rate (ORR) + Duration of Response (DOR) + safety

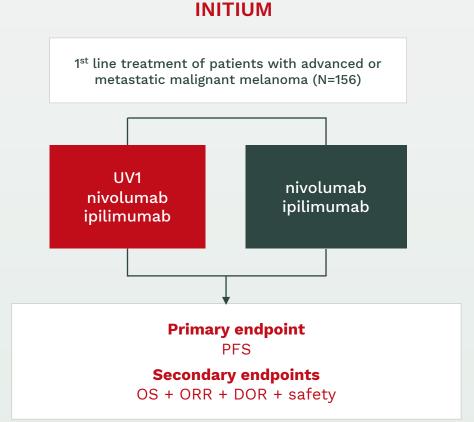


INITIUM UV1 Phase II trial

INITIUM: First line advanced or metastatic malignant melanoma



- **Combination**: nivolumab, ipilimumab
- **Patients**: 156 patients* from 39 sites in 4 countries: US, UK, Belgium and Norway
- Recruitment: 100%
- First patient enrolled June 2020
- Randomized and statistically powered trial
- Patient enrollment completed June 2022
- Milestones: Top line results expected H1 2023





* A supplementary study will be initiated after enrollment of the 154 patients is completed. The objective is to further support that an immune response specific to the UV1 vaccine transfers into anti-tumor activity and clinical benefit for the patients. 20 additional patients will receive experimental treatment, i.e. the triple combination of UV1, ipilimumab and nivolumab.

NIPU & FOCUS UV1 Phase II Trials

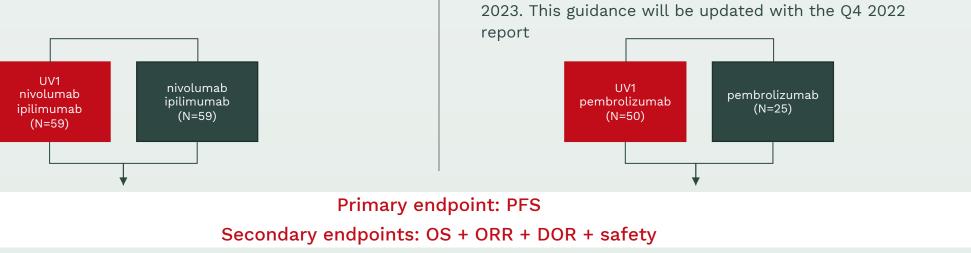
NIPU: Second line malignant pleural mesothelioma



- Combination: nivolumab, ipilimumab
- Contributors: Oslo University Hospital (sponsor); BMS
- **Patients:** 118 from 6 sites in Norway, Sweden, Denmark, Spain and Australia
- Recruitment: 100%
- First patient enrolled June 2020
- Patient enrollment completed January 2023
- Milestones: Top line results expected H1 2023

FOCUS: Metastatic or recurrent head and neck squamous cell carcinoma

- Combination: pembrolizumab
- **Contributors** : Sponsored by Halle University Hospital network
- **Patients:** 75 from 10 sites in Germany
- **Recruitment**: >50%
- First patient enrolled August 2021
- 41 patients enrolled as of 9 November 2022 (Q3 2022 reporting)
- Milestones: Top line results have been expected during 2023. This guidance will be updated with the Q4 2022 report





DOVACC and LUNGVAC UV1 Phase II Trials

DOVACC: High-grade BRCA negative ovarian cancer, second line maintenance



- Combination: olaparib, durvalumab
- **Contributors**: NSGO/ENGOT (sponsor), AstraZeneca
- **Patients**: 184 from more than 40 sites in more than 10 European countries
- Recruitment: <10%
- First patient enrolled December 2021
- 7 patients enrolled as of 9 November 2022 (Q3 2022 reporting)
- **Milestones:** Top line results expected during 2023. This guidance will be updated with the Q4 2022 report

LUNGVAC: Advanced or metastatic non-small cell lung cancer (NSCLC)

- **Combination**: cemiplimab
- Contributors: Sponsored by Drammen Hospital
- **Patients**: 138 patients from 8-10 hospitals in Norway
- Recruitment: <10%
- First patient enrolled October 2022
- 3 patients enrolled as of 9 November 2022 (Q3 reporting)
- **Milestones:** Top line results have been expected by the end of 2024. This guidance will be updated with the Q4 2022 report





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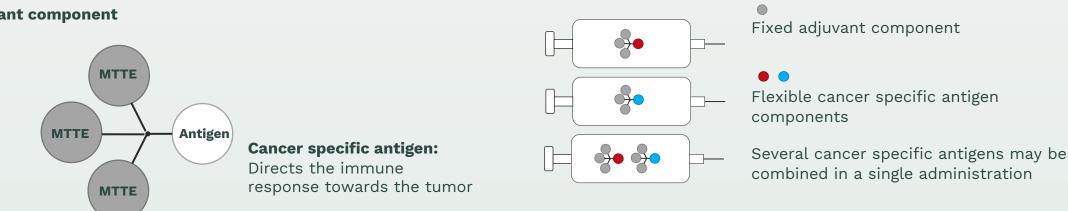
5. Market potential and competition



The TET (Tetanus-Epitope Targeting) adjuvant platform technology

- Ultimovacs' proprietary TET technology combines the two key components of a vaccine in one molecule: The cancer specific antigen and the immune response strengthening adjuvant
- Core element is the vaccine adjuvant, a tetanus toxin peptide sequence MTTE (Minimal Tetanus Toxin Epitope), a B cell epitope

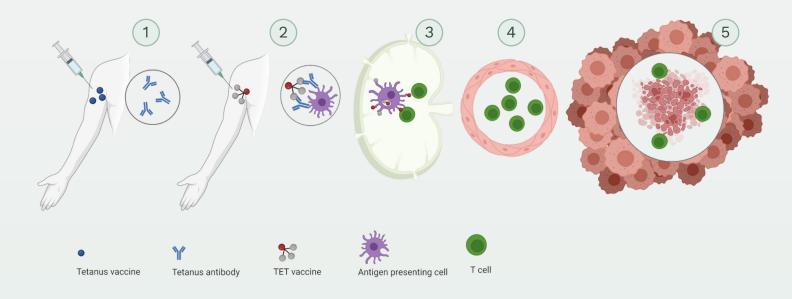
• An innovative technology provides the flexibility to incorporate a variety of antigens to tailor vaccines to different cancer types



Adjuvant component

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TET adjuvant technology platform takes advantage of pre-existing immunity to increase the <u>imm</u>une response



Vaccination and immune response: Active and targeted delivery of the vaccine to antigen presenting cells

- 1. Tetanus vaccination induces production of tetanus antibodies.
- 2. The tetanus antibodies bind to the TET vaccine and form an immune complex, and the immune complex is taken up by an antigen presenting cell. Immune complex formation is known to increase immunogenicity.
- 3. The antigen presenting cell migrates to the lymph node, and tumor specific T cells are made.

Killing of the tumor

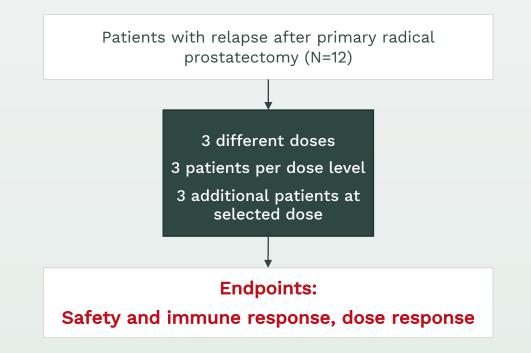
- 4. T cells enter blood circulation and travel to the tumor.
- 5. T cells infiltrate the tumor and activate a series of steps that lead to tumor cell killing.



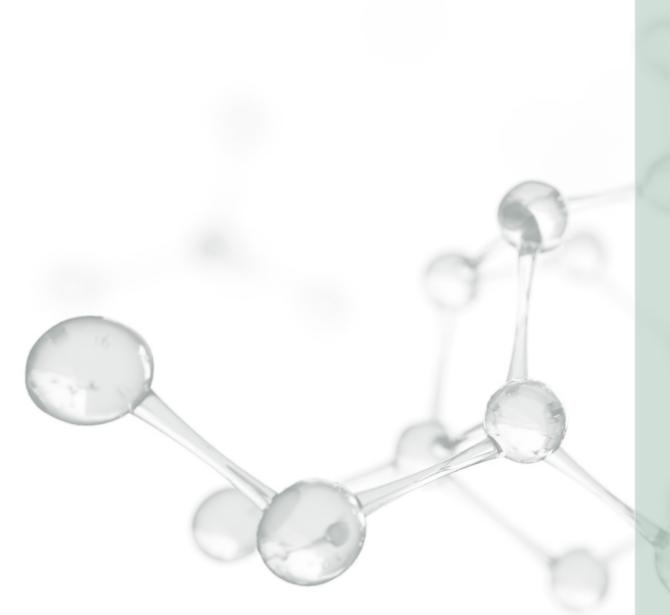
The TENDU phase 1 trial: First clinical evaluation of a TET vaccine

- The TENDU trial investigates a prostate cancer specific vaccine that is based on the TET technology
- The trial is expected to provide valuable information on dose, safety and immune activation towards the further development of new vaccine solutions utilizing the TET technology

- Primary objective: Evaluate safety and tolerability of different doses of the vaccine in patients with progressive disease after prostatectomy
- Conducted at Oslo University Hospital
- All 12 patients enrolled enrollment completed
- Study results expected during H2 2023
- No safety concerns to date







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UV1 is poised to tap into a large market due to its combination with CPIs

1 Combination with CPIs

- UV1 can be combined with the (standard-of-care) CPI in a broad range of cancer types
- Use of UV1 as an add-on therapy is currently evaluated in 5 different cancer indications
- Large opportunity to expand to other cancer types

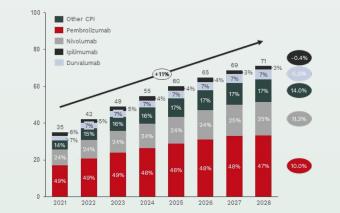
2 Substantial market potential

- The target population and market potential is large and growing: the US CPI market is expected to grow by 15% p.a. until 2028
- CPIs most relevant to UV1 currently represent c.85% of the market

3 Competitive advantage

- UV1 is well positioned in the overall cancer vaccine landscape
- Competitive advantages are related to patient eligibility, production and administration

(As per September 2022)	Cultimovacs	Keytruda® MSD pembeolirumab	Opdivo® Basci New Sedia airotamab	Im finzi® AstraZeneca durvalum ab	Tecentriq® Reche atezoliramab	Bavencio®	Yervoy® Basel Hem Syste p Em um ab	Libtayo® REGENERON cemiplinab ²	Lynparza® AstraZeneca
Malignant melanoma									
NSCLC									
HNSCC									
Mesothelioma									
Ovarian									
Prostate									
SCLC									
Renal									
Urothelial									
MSI-high									
Gastric									
Cervical									
Hepatocellular									
Merkel cell									
Hodgkins									
Large B-cell									
Breast									
Pancreatic									
Esophageal									
Endometrial									
Cutaneous squamous cell									



Vaccine	Eligible patients	Production	Administration
UV1	No HLA screening or tumor type restriction	Off-the-shelf / Low cost	Intradermal
Neoantigen vaccines	Sequencing of biopsies for prediction of neoantigens	Long lead-time / High cost	Intradermal Sub-Cutaneous Intra-Muscular
Intratumoral vaccines	Patients with lesion available for intratumoral injection	Depending on platform	Intratumoral
Other tumor-associated antigen (TAA) vaccines	HLA and biomarker screening for selection of patients	Depending on platform	Intradermal Sub-Cutaneous Intra-Muscular



Broad combination potential for UV1 in multiple cancer types¹

(As per September 2022)	Ultimovacs	Keytruda® MSD pembrolizumab	Opdivo® Bristol-Myers Squibb nivolumab	Imfinzi® AstraZeneca durvalumab	Tecentriq® Roche atezolizumab	Bavencio® Pfizer MERCK avelumab	Yervoy® Bristol-Myers Squibb ipilimumab	Libtayo® REGENERON cemiplimab ²
Malignant melanoma							Nivo+Ipi	
NSCLC							Nivo+Ipi	
HNSCC								
Mesothelioma							Nivo+lpi	
Ovarian								
Prostate								
SCLC								
Renal							Nivo+lpi	
Urothelial								
MSI-high							Nivo+lpi	
Gastric								
Cervical								
Hepatocellular							Nivo+lpi	
Merkel cell								
Hodgkins								
Large B-cell								
Breast								
Pancreatic								
Esophageal								
Endometrial								
Cutaneous squamous cell								
Colon							Nivo+lpi	



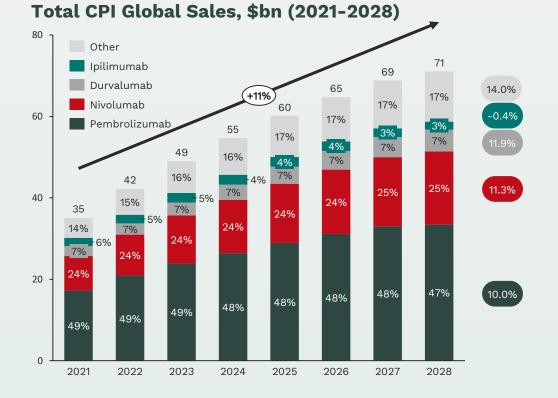
 Global Data, 2022, Product package inserts Q2 2022
 Also approved in Basal cell carcinoma
 Note: other approved PD1/PD-L1 program: Dostarlimab (Jemperli), various additional approvals in China



UV1 clinical trials UV1 growth opportunity CPI approved indication

UV1 is uniquely positioned in Phase II trials with 5 out of the top 6 CPIs

- UV1 is to be combined with CPI therapy to improve treatment outcomes: currently around one third of cancer patients is eligible to receive CPI¹
- UV1 is under investigation with **5 out of the top 6 CPIs**, which together account for **~85% of the CPI market**



Marketed CPIs	UV1 trial	Indication
1. Pembrolizumab (Keytruda®)	FOCUS	Head & neck cancer
2. Nivolumab (Opdivo®)	INITIUM, NIPU	Malignant melanoma, mesothelioma
3. Atezolizumab (Tecentriq®)		
4. Ipilimumab (Yervoy®)	INITIUM, NIPU	Malignant melanoma, mesothelioma
5. Durvalumab (Imfinzi®)	DOVACC	Ovarian cancer
6. Cemiplimab (Libtayo®)	LUNGVAC	Non-small cell lung cancer

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 Haslam A, Gill J, Prasad V. Estimation of the Percentage of US Patients With Cancer Who Are Eligible for Immune Checkpoint Inhibitor Drugs. JAMA Netw Open. 2020;3(3):e200423. doi:10.1001/jamanetworkopen.2020.0423
 Non small cell lung cancer Source: GlobalData, December 2022

UV1 competitive profile vs. other cancer vaccines approaches

Vaccine	Eligible patients	Production	Administration
UV1	No HLA screening or tumor type restriction	✓ Off-the-shelf / Low cost	Intradermal
Neoantigen vaccines	Sequencing of biopsies for prediction of neoantigens	Long lead-time / High cost	Intradermal Sub-Cutaneous Intra-Muscular
Intratumoral vaccines	Patients with lesion available for intratumoral injection	Depending on platform	Intratumoral
Other tumor-associated antigen (TAA) vaccines	HLA and biomarker screening for selection of patients	Depending on platform	Intradermal Sub-Cutaneous Intra-Muscular



Sources: Thomas R, Al-Khadairi G, Roelands J, et al. NY-ESO-1 Based Immunotherapy of Cancer: Current Perspectives. Front Immunol. 2018;9:947. Published 2018 May 1. doi:10.3389/fimmu.2018.00947; Jaiswal PK, Goel A, Mittal RD. Survivin: A molecular biomarker in cancer. Indian J Med Res. 2015;141(4):389–397. doi:10.4103/0971-5916.159250; Zajac P, Schultz-Thater E, Tornillo L, et al. MAGE-A Antigens and Cancer Immunotherapy. Front Med (Lausanne). 2017;4:18. Published 2017 Mar 8. doi:10.3389/fmed.2017.00018

UV1 is an easy-to-use product with low production costs and simple logistics

1 Easy to use

- UV1 is an **off-the-shelf** product, i.e. can be administered locally, facilitating broad access
- 8 **intradermal** injections, no complex infrastructure required
- No need for pre-screening of HLA type or other biomarkers. UV1 peptides are functional with both HLA class I and II alleles: it can be used in the general population



2 Low cost production

- Low manufacturing cost
- Straight forward manufacturing process by standard peptide synthesis

3 Simple logistics

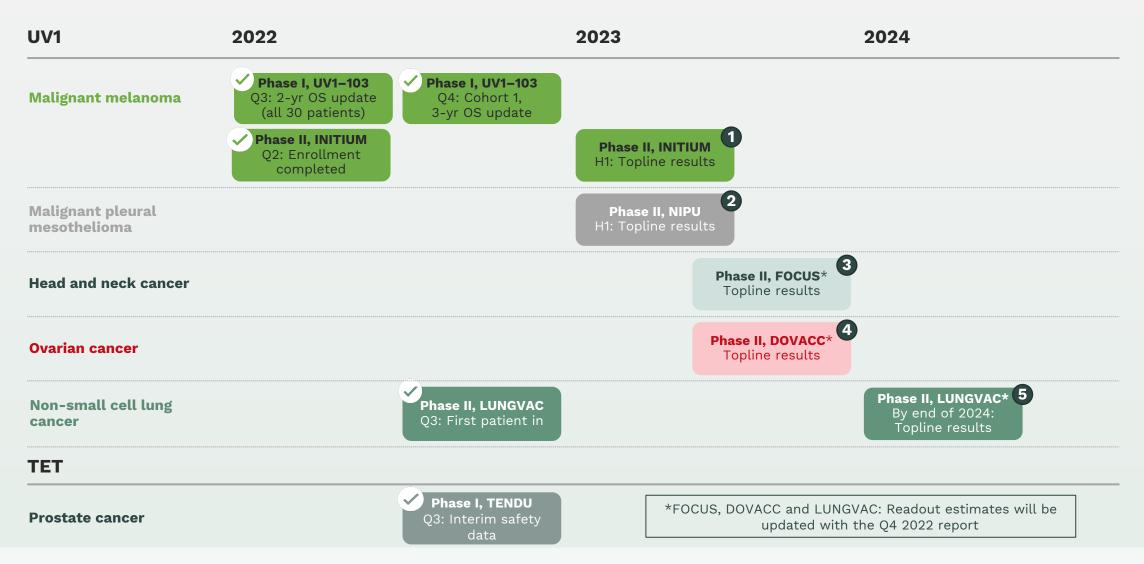
- Stable product with 3 years shelf life at 5°C
- Standard shipping and **simple on-site preparation**, i.e., reconstitution with water
- **Low handling costs** (manpower) for hospitals and community centers







Expected news flow and milestones: key value inflection points during the next 6-24 months





Key Takeaways

- Developing universal cancer vaccines to enhance the efficacy and durability of immunotherapies
- Broadly applicable as backbone therapy in different cancer types and immunotherapy combinations
- Off-the-shelf and easy to use
- UV1:
 - Good safety profile and clear signals of clinical efficacy inducing robust immune response (durability >7.5 years)
 - Broad Phase II development program highlights the significant commercial potential
 - Five Phase II randomized clinical combination trials ongoing
 - External validation
 - FDA Fast Track designation and Orphan Drug designation in metastatic melanoma
 - Joint projects with large pharma companies and oncology specialist groups
- TET:
 - Innovative adjuvant technology platform in Phase I, broad potential
- Experienced team, strong shareholder base and good cash position
- Multiple key value inflection points in the near term and over the next 24 months







1

Patient baseline demographics of Phase I UV1 + ipilimumab

Malignant melanoma

Patient characteristics

- All patients had stage IV • disease
 - M1c in 50% of patients
- Elevated LDH in 50% of • patients
- 33.3% of patients had received ٠ prior therapy

Patient		N (%)	Patient	N (%)
Age (years) median, range Sex	female male	57 (44-74) 5 (42%) 7 (58%)	Liver metastases Yes No LDH above ULN	3 (25%) 9 (75%) 6 (50%)
ECOG	0 1 ≥2	11 (91.7%) 1 (8.3%) 0 (0%)	below ULN Prior therapy Chemotherapy	6 (50%) 2 (16.7%)
Stage	M1a M1b M1c M1d	3 (25%) 2 (16.7%) 6 (50%) 1 (8.3%)	BRAF/MEK inhibitor ipilimumab Prior lines of therapy	2 (16.7%) 0 (0%)
BRAF status	Mut wt	3 (25%) 9 (75%)	0 1 ≥2	8 (66.7%) 4 (33.3%) 0 (0%)



Patient baseline demographics of Phase I UV1 + pembrolizumab

Malignant melanoma

Key Eligibility Criteria

- Advanced histologically confirmed malignant melanoma (stage IIIB-C, IV)
- Measurable and evaluable disease according to iRECIST
- Previously untreated and eligible for pembrolizumab (prior BRAF and MEK inhibitors permitted)
- ECOG 0-1
- Active brain metastases, and uveal or ocular melanoma not permitted

Characteristic	N=30		
Median age (range) - years	70.5 (30-87)		
Male sex - no. (%)	21 (70)		
ECOG performance status - no. (%)			
0	19 (63)		
1	11 (37)		
Elevated baseline LDH – no. (%) *	9 (31)		
Stage (8 th edition AJCC) – no. (%)			
IIIB	2 (7)		
IIIC	9 (30)		
IV	19 (63)		
M1a	5 (17)		
M1b	5 (17)		
M1c	8 (27)		
M1d	1 (3)		

Characteristic	N=30
Liver metastasis - no. (%)	4 (13)
BRAF V600E status – no. (%) †	
Mutated	10 (37)
PD-L1 status – no. (%)	
Positive (≥1%)	8 (36)
Tumor mutation burden - no. (%) £	
High (≥20 mutations/Mb)	3 (18)
Intermediate (6-19 mut/Mb)	6 (35)
Low (1-5 mutations/Mb)	8 (47)



LDH=Lactate dehydrogenase. *One patient did not have baseline LDH registered; the denominator is 29. † Three patients had missing BRAF status; the denominator is 27. ¶ Eight Patients had either no available or non-evaluable samples for PD-L1 testing; the denominator is 22. £ Thirteen patients had either no available or non-evaluable samples for TMB testing; the denominator is 17.

Favorable safety profile of Phase I UV1 + pembrolizumab

Malignant melanoma

Safety of UV1 vaccination

- Safety profile of UV1 in combination with pembrolizumab comparable to that of pembrolizumab alone
- Grade 3 adverse events in 20% of patients – no grade 4 or 5 events
- Adverse event type and frequency similar to that of pembrolizumab alone
- Mild grade 1-2 injection site reactions attributable to UV1

Adverse Event	N=30		
	Any grade	Grade 3	
Related to treatment*			
Any	21 (70.0)	6 (20.0)	
Occurring in more than one patient or grade ≥3			
Fatigue	10 (33.3)	0	
Injection site reaction	6 (20.0)	0	
Hypothyroidism	6 (20.0)	0	
Colitis	5 (16.7)	2 (6.7)	
Diarrhea	5 (16.7)	0	
Pruritus	4 (13.3)	0	
Hyperthyroidism	4 (13.3)	1 (3.3)	
Rash	3 (10.0)	0	
Arthritis	2 (6.7)	2 (6.7)	
Dyspnoea	2 (6.7)	0	
Chorioretinitis	1 (3.3)	1 (3.3)	
Diabetes mellitus	1 (3.3)	1 (3.3)	

Historical reference study: KEYNOTE-006 (Robert C, 2019)

Any treatment-related adverse event: 79% Grade 3-5 adverse events: 18%

Fast track and orphan drug designation confirms our confidence in the therapeutic potential of UV1



Ultimovacs is granted Fast Track designation from the FDA

- UV1 as add-on therapy to pembrolizumab for the treatment of malignant melanoma
- UV1 as add-on therapy to ipilimumab for the treatment of malignant melanoma
- Fast track is designed to facilitate the development and expedite the review of drugs to treat serious conditions and fill an unmet medical need The purpose is to get important new drugs to the patient earlier

Ultimovacs is granted Orphan Drug designation from the FDA

- UV1 in the treatment of patients with malignant melanoma
- A status given to certain drugs which show promise in the treatment, prevention, or diagnosis of orphan diseases; a rare disease or condition that affects fewer than 200,000 people with unmet medical needs in the US. The intention of the program is to support and advance the development and evaluation of new treatments.



Experienced Board of Directors



Jonas Einarsson Chairman of the board



- Hospital Research Foundation Board member of several biotech
- One of the initiators behind the
- Norwegian Center of Expertise. Oslo Cancer Cluster

Investment Advisor at Sundt AS, a

Eiendomsspar, Oncoinvent AS and

Previously Chairman of the Board

of Oslo Stock Exchange and CEO

Norwegian family owned

investment company Board member of Pandox AB.

of Sundal Collier & Co

Civita



Henrik Schüssler Board member





Kari Grønås Board member



Leiv Askvig

Board member

- 25+ years experience from board and management positions in different companies and industries
- Ultimovacs' Chairman of the board from '11-'17

Ketil Fjerdingen Board member





- CEO and board member of Gielsten Holding AS
- Previously CFO and CEO of Norway Seafood
- Accounting/consulting experience from Ernst & Young



Haakon Stenrød Board member



Investment Manager of Canica's Future of Health assets. Board member in FXACT-Tx AS

Senior Investment Manager at

Investment Banking at ABG Sundal

restructurings and capital markets

Board member of DF Capital, a UK challenger bank listed on AIM

• Previously 12 years in the

Collier, focusing on M&A,

Watrium

advisorv

Previously senior consultant in Venture Valuation, Pharma equity research analyst at Kepler Cheuvreux and PMA consultant for Stratas Partners in Basel and investment analyst for Londonbased hedge fund Carval Investors

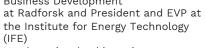
- Extensive experience in drug development and commercialization within the pharmaceutical industry of new breakthrough products securing regulatory approvals, i.e. Xofigo, Hexvix
- Board positions in Spago Nanomedical AB. SoftOx AS and The Norwegian Lung Cancer Society

Aitana Peire Board member





Community Relations at Faculty of Mathematics and Natural Sciences, Previously Director for



 Has been involved in various boards in both public and private sector and in several public expert panels



Illimovacs

Management Team with Proven Execution Capabilities



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Jens Bjørheim MD, PhD СМО



Ingunn H. Westgaard PhD Head of Research



Hans Vassgård Eid MSc Business CFO



Ton Berkien BA Econ, LSiD CBO



Gudrun Trøite PhD Head of Project Coordination



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Øivind Foss Head of Clinical