Corporate Overview

September 2024



FORWARD LOOKING STATEMENTS

This presentation includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. In some cases forwardlooking statements can be identified by terminology such as "may," "should," "potential," "continue," "expects," "anticipates," "intends," "plans," "believes," "estimates," and similar expressions, and include statements regarding oncolytic viruses (OVs) being promising cancer therapeutics; the potential of VCN-01 and Theriva OVs and their ability to overcome key OV challenges; clinical advancement of VCN-01 (including completion of enrollment into the pancreatic ductal adenocarcinoma (PDAC) Phase 2 clinical trial in Q3 2024); potential expansion of VCN-01 use in different lines of PDAC treatment; potential synergistic antitumor effects of VCN-01 with topoisomerase inhibitors; the potential of VCN-01 to enable immuno-oncology therapies in refractory tumors; the potential to obtain expedited status from the FDA; and the potential of the albumin shield to enhance OV systemic delivery. These forward-looking statements are based on management's expectations and assumptions as of the date of this press release and are subject to a number of risks and uncertainties, many of which are difficult to predict that could cause actual results to differ materially from current expectations and assumptions from those set forth or implied by any forward-looking statements. Important factors that could cause actual results to differ materially from current expectations include, among others, Theriva Biologics' product candidates demonstrating safety and effectiveness, as well as results that are consistent with prior results, the ability to initiate and complete clinical trials on time and achieve the desired results and benefits, continuing clinical trial enrollment as expected, the ability to obtain regulatory approval for commercialization of product candidates or to comply with ongoing regulatory requirements, regulatory limitations relating to Theriva Biologics' ability to promote or commercialize their product candidates for the specific indications, acceptance of product candidates in the marketplace and the successful development, marketing or sale of Theriva Biologics' products, developments by competitors that render such products obsolete or non-competitive, Theriva Biologics' ability to maintain license agreements, the continued maintenance and growth of Theriva Biologics' patent estate, the ability to continue to remain well financed, and other factors described in Theriva Biologics' Annual Report on Form 10-K for the year ended December 31, 2023 and its other filings with the SEC, including subsequent periodic reports on Forms 10-Q and 8-K. The information in this presentation is provided only as of the date of this release, and Theriva Biologics undertakes no obligation to update any forward-looking statements contained in this release on account of new information, future events, or otherwise, except as required by law.



OVERVIEW

- Theriva Biologics is developing unique oncolytic viruses optimized for systemic administration
- VCN-01 is undergoing a Phase 2b clinical trial in first-line metastatic pancreatic cancer in combination with SoC chemotherapy
- VCN-01 Phase 1 clinical trials support multiple additional indications (retinoblastoma, HNSCC, CRC) and combinations (immunotherapies)
- Albumin Shield[™] platform and innovative VCN-X oncolytic virus discovery engine enable development of a distinct product pipeline

Financial SnapshotExchangeNYSE AmericanTickerTOVXCash (06/30/2024)\$16.6MProjected cash runwayQ2 2025Average Daily Volume
(3M Ave)715,000LocationsRockville, MD

Barcelona, Spain



THERIVA PIPELINE

Candidate	Target	Pre-IND	Phase 1	Phase 2	Phase 3	Collaborators	Status*
	Pancreatic Cancer (IV) with gemcitabine/nab-paclitaxel						Phase 2b Study On-going Orphan Drug Designation US, EU Fast Track Designation US
VCN-01 Selective, Stroma Degrading OV	Retinoblastoma (IVit)					SANT JOAN de Déur S	Phase 1 Complete, CSR in preparation Orphan Drug Designation US Rare Pediatric Disease Designation US
	HNSCC (IV) + durvalumab					00 ICO Institut Català d'Oncologia	Phase 1 Complete, CSR in preparation
	Solid Tumors – Brain, Ovarian, PDAC (IV)						Phase 1 Studies On-going
VCN-X and Albumin Shield OVs	Solid tumors (IV)					Institut Català d'	Preclinical Studies On-going
SYN-004 ^[1,2] Oral β-lactamase	Prevention of aGVHD in allo-HCT					Washington University in St. Louis	Phase 1b/2a On-going
SYN-020 Oral IAP	Potential indications include NAFLD/NASH, celiac, radiation enteritis					MASSACHUSETTS GENERAL HOSPITAL	Phase 1 Studies Complete



*Based on Management's current beliefs and expectations. aGVHD acute graft-vs-host disease; allo-HCT allogeneic hematopoietic cell transplant. CSR clinical study report. IAP recombinant bovine intestinal alkaline phosphatase. HNSCC head and neck squamous cell carcinoma. IV intravenous. IVit intravitreal.

VCN-01 IS A UNIQUELY ENGINEERED HUMAN ADENOVIRUS 5





Replication enhanced by significantly increased E2F binding. E1a-∆24 gene deletion means replication only in cells with a defective Rb-E2F pathway. Fiber shaft RGDK modification. PH20 soluble human testicular hyaluronidase enzyme expression is under control of the virus major late promoter (MLP).

VCN-01 IS A UNIQUELY ENGINEERED HUMAN ADENOVIRUS 5



SYSTEMIC administration enables VCN-01 access to primary tumor and metastases and detargets the liver





SELECTIVE replication at very high levels lyses tumor cells directly without harming healthy tissues







Cancer Associated Fibroblast

VCN-01 DESIGNED TO HAVE MULTIPLE ANTI-TUMOR ACTIONS

3

STROMA degradation by PH20 facilitates tumor access and destruction by coadministered cancer therapies





IMMUNOGENIC actions of VCN-01 turn "cold" tumors "hot" and elicit an anti-tumor immune response





iva

IOLOGICS

Can

Cancer Associated Fibroblast Neoantigen

VCN-01 COMPARED TO OTHER ONCOLYTIC VIRUSES IN DEVELOPMENT

COMPANY	THERIVA BIOLOGICS	CG ONCOLOGY	GENELUX	ONCOLYTICS BIOTECH	REPLIMMUNE
Ticker	NYSE MKT: TOVX	NASDAQ: CGON	NASDAQ: GNLX	NASDAQ:ONCY	NASDAQ: REPL
Market Cap ¹	\$4M	\$2.5B	\$85M	\$71M	\$757M
Product	VCN-01	CG0070	Olvi-Vec	Pelareorep	RP1, RP2
Virus	Adenovirus 5	Adenovirus 5	Vaccinia	Reovirus	Herpes Simplex
Туре	DNA	DNA	DNA (enveloped)	RNA	DNA (enveloped)
Tumor selectivity mechanism	Selective replication (Rb-E2F dysfunction)	Selective replication (Rb-E2F dysfunction)	Low tumor IFN TK deletion	Low tumor IFN Ras activation	Low tumor IFN ICP34.5 deletion
Therapeutic Transgene	PH20	GM-CSF			GM-CSF, GALV-GP R(-), anti-CTLA-4
Lead Indication (Ph)	Pancreatic (2b)	Bladder (3)	Ovarian (3)	Pancreatic, GI (2b)	Melanoma (3)
Route	IV	IVESIC	IP	IV	IT
Dose	1x10 ¹³ vp²	1x10 ¹² vp	3x10 ⁹ pfu	4.5x10 ¹⁰ TCID ₅₀	1x10 ⁷ pfu/mL
Stroma Degrading	Yes	No	No	No	No
Biomarker	PH20		β-GAL, β-GLU, GFP		



¹At 18Sep2024. ²Approximately 7x10¹¹ TCID₅₀. References describing the different OV product candidates are provided in the appendix; information is also available on each company's website and clinicaltrials.gov

VCN-01 EXTENSIVE CLINICAL PROGRAM

142 patients treated with VCN-01 to date in multiple indications and combinations



(Number of VCN-01 Patients Treated in Parentheses)



*On-going study. Abraxane® - nab-paclitaxel. Durvalumab (IMFINZI[®], AstraZeneca) is an anti-PD-L1 mAb immune checkpoint inhibitor. huCART-meso are autologous T cells engineered to express an extracellular single chain variable fragment (scFv) with mesothelin specificity. IT - intratumoral. IV - intravenous. IVit - intravitreal. Rb - retinoblastoma. See Appendix for study registry numbers and publications.



9

VCN-01 LEAD INDICATION PANCREATIC CANCER Highly fatal cancer protected by dense tumor stroma

- Orphan disease with the highest mortality of all solid tumors
 - Median survival 8-11 months for metastatic disease^{1,2}
 - USA est. 66,440 new cases and 51,750 deaths in 2024^3
- Hyaluronic acid in stroma is associated with reduced treatment efficacy and poor prognosis⁴
 - VCN-01 designed to degrade hyaluronic acid
- Incidence is growing worldwide
 - Est. treatment market ~\$2.5B (2022) ~\$7.0B (2030)⁵



Pancreatic adenocarcinoma resected from the pancreas body and tail



¹Michael (2019) BMC Palliat Care 18:13, Bengtsson (2020) Sci Rep 10:16425, Carioli (2021) Ann Oncol 32:478, ASCO Pancreatic Cancer <u>Statistics</u>. ²SEER Cancer Stat Facts: Pancreatic Cancer <u>website</u>. ³American Cancer Society. Cancer Facts & Figures 2024. Atlanta: American Cancer Society; 2024. ⁴Tahkola (2021) Sci Rep 11:12216, Placencio-Hickok (2022) Pancreatology 22:92. ⁵Data Bridge Market Research <u>website</u>.

VCN-01 FAVORABLE OUTCOMES IN PHASE 1 TRIAL Multicenter, open-label, dose escalation study (NCT02045602)





¹Single dose of VCN-01 (1x10¹¹ to 1x10¹³ vp/dose) administered by 10 min IV infusion. ²VCN-01 doses 3.3x10¹² vp (n=6) and 1x10¹³ vp (6). ³nab-Paclitaxel (Abraxane®; 30 min infusion) administered at least 4 hours after VCN-01. ⁴Gemcitabine (30 min infusion) administered immediately after Abraxane® infusion. ⁵VCN-01 doses 3.3x10¹² vp (8) 1x10¹³ vp (6). Garcia-Carbonero (2022) J Immunother Cancer 10:e003255.

VCN-01 FAVORABLE OUTCOMES IN PHASE 1 TRIAL Multicenter, open-label, dose escalation study (NCT02045602)

OUTCOME	VCN-01	SoC ALONE ²		
Sequential Regimen	3.3x10 ¹² (6)	1.0x10 ¹³ (6)	Combined (12)	Phase 3 (431)
Responders, %	16.7%	83.3%	50.0%	22.9%
Median OS, months	13.1	20.8	13.5	8.5
Median PFS, months	9.9	6.3	6.7	5.5
Survival ≥12 months	•		67%	35%

RELATED AEs IN ≥1 PATIENT ¹	CTCAE SEVERITY			
VCN-01 Combined, Sequential Regimen	Grade 1-2	Grade ≥3		
Pyrexia/Influenza-like Illness	12 (85.7%)	-		
Nausea	3 (21.4%)	-		
Vomiting	3 (21.4%)	-		
Asthenia/Fatigue	3 (21.4%)	-		
Transaminase increases (ALT, AST)	2 (14.3%)	2 (14.3%)		
Thrombocytopenia	2 (14.3%)	-		





KOLs advise that Hazard Ratio <0.7 is a significant patient outcome

¹Single dose of VCN-01 (1x10¹¹ to 1x10¹³ vp/dose) administered by 10 min IV infusion. ²VCN-01 doses 3.3x10¹² vp (n=6) and 1x10¹³ vp (6). ³nab-Paclitaxel (Abraxane®; 30 min infusion) administered at least 4 hours after VCN-01. ⁴Gemcitabine (30 min infusion) administered immediately after Abraxane® infusion. ⁵VCN-01 doses 3.3x10¹² vp (8) 1x10¹³ vp (6). Garcia-Carbonero (2022) J Immunother Cancer 10:e003255.

VIRAGE PHASE 2B CLINICAL TRIAL in PANCREATIC CANCER Multicenter, open-label, randomized, controlled trial (NCT05673811)

- Study on-going in patients with first-line metastatic pancreatic ductal adenocarcinoma (PDAC)
- Achieved target of 92 patients (46 in each arm) enrolled at sites in Spain and the USA
- Randomized 1:1 to receive gemcitabine/nab-paclitaxel SoC or up to two doses of VCN-01 plus SoC
- Primary endpoints overall survival, VCN-01 safety and tolerability
- Secondary endpoints include response rates, progression free survival, landmark survival

TREATMENT		Cycle	1			Cycle	2			Cycle	3			Cycle	4			C5+
ARM I: SoC	÷.	÷.	÷.		Ç	ĊÇ.	÷.		ĊÇ.	ţ,	ĊÇ.		ĊÇ.	÷.	¢¢			\ominus
ARM II: SoC+VCN-01	Ģ	Ĵ.	ĊÇ.	ĊÇ.		ĢÇ.	Ļ.	ţ,		ĢÇ,	Ģ.	ţ,		Ģ	Ģ.	ĢÇ)	Ç	\ominus
Day	 1	 8	 15	22	 29	 36	 43	 50	 57	64	 71	 78	 85	 92	 99	 106	 113	120
	Ģ v	😝 VCN-01 1x1013 vp by IV infusion. 🤑 nab-Paclitaxel IV followed by gemcitabine IV per SoC. \ominus Continue SoC until disease progression or withdrawal								əl.								



VCN-01 STRATEGY AND PRIMARY CATALYSTS

• Strategy

- Seek regulatory agency agreement to convert the VIRAGE Phase 2b study to a Phase 3 registration trial¹
 - Reduce potential Phase 3 size and costs; expected to shorten time to marketing application
 - Leverage Phase 3 status (if agreed) to engage potential partners
- Primary Catalysts and Use of Funds
 - Achieved target enrollment into the VIRAGE Study
 O3 2024
 - Initiate commercial scale manufacturing process development²
 - Regulatory feedback on Phase 3 from FDA, AEMPS (Spain) and EMA
 - Conversion to Phase 3 trial (subject to regulatory agreement)²



Q4 2024

Q1 2025

O2 2025

ACHIEVEMENTS AND PROJECTED MILESTONES

VCN-01 PDAC

- Ph2 enrollment achieved \checkmark
- Spanish Government Public-Private Loan-Grant ✓
- Meeting with AEMPS (potential pivotal trial design)
- VCN-01 RETINOBLASTOMA
- RPDD granted \checkmark
- SYN-004 aGVHD
- Cohort 2 DSMC Outcomes

• VCN-01 PDAC

• ODD from EMA

• VCN-01 + CAR-T

- Meeting with FDA (potential pivotal trial design)
- Initiate commercial scale manufacturing process development

• VCN-01 PDAC

• EMA Scientific Advice (potential pivotal trial design)

• VCN-01 PDAC

- Conversion to Phase 3 trial (*if regulatory agreement*)¹
- Establish feasibility of commercial scale VCN-01 manufacture
- VCN-01 RETINOBLASTOMA VCN-01 RETINOBLASTOMA
 - Finalize Phase 2 study design¹
 - VCN OV DISCOVERY
 - VCN-12 candidate selection²
- THERICEL
- Commercial availability of proprietary suspension cell line for manufacturing viral products

H2 2025

Q3 2024

Q4 2024

• U. Penn ASGCT poster





¹Contingent on Theriva obtaining required funding for a clinical trial and subject to regulatory agreement. ²VCN-12 is an armed version of VCN-11 designed to express an additional functional payload (VCN-11 is the first clinical candidate using the Albumin Binding Domain[™] technology). ISS investigator sponsored Phase 1 study. AEMPS Agencia Española de Medicamentos y Productos Sanitarios. ASGCT American Society of Gene and Cell Therapy. EMA European Medicines Agency. ODD Orphan Drug Designation. RPDD rare pediatric disease designation. SIOP International Society of Paediatric Oncology

TOVX CAPITALIZATION TABLE

Common Shares Issued at September 6, 2024 Less: Treasury Shares Common Shares Issued and Outstanding at September 6, 2024		_	1,382,672 (28,809) 1,353,862
common shares issued and outstanding at september 0, 2024		_	1,000,002
Stock Options Issued (2007,2010, 2020 Plans)	175,191	 12.9%	
Common Shares Available for Future Grants 2020 Plans	112,640	8.3%	
	287,831		
Total Reserved Common Shares			287,831
Remaining Master Common Stock Reserve			12,358,307
Total Common Shares Authorized			14,000,000
Treasury Shares		_	28,809

Note: Numbers are post-split values, rounded for fractional shares





APPENDIX



SEASONED LEADERSHIP TEAM



Steven Shallcross Chief Executive Officer, Chief Financial Officer

Served as the Company's CEO since 2018 and CFO since joining the Company in 2015

Deep operational, financial and international biotech industry experience and proven track record of leading the financial development and strategy in the public sector





Manel Cascalló PhD General Director, EU Subsidiary

Expertise in oncolytic adenovirus clinical development, received several patents for the use of adenovirus as antitumoral agents and authored many peer-reviewed scientific publications

Deep regulatory experience and serves as an independent expert for the European Medicines Agencies (EMA)





Vince Wacher PhD Head Corporate Development

Nearly 30 years leading corporate strategy, partnering, research, clinical development, and intellectual property programs for start-ups, small companies, and new business units within large companies

Development experience across oncology, infection, GI, metabolic diseases, transplantation, and drug delivery





INTELLECTUAL PROPERTY

Hyaluronidase OV

VCN-01, VCN-11

Composition of Matter (exp 2030)

Methods of Use and Novel Formulations (examination)

Use in Rb (exp 2036)

ODD EU (PDAC) ODD US (PDAC & Rb)

Albumin Shield™

VCN-11, Discovery

Composition of Matter (exp 2034)

Methods of Use and Novel Formulations (examination)

Oral β-Lactamase

SYN-004, -006, -007

Composition of Matter (exp 2031-5)

Methods of Use and Novel Formulations (exp 2035-6)

Oral IAP

SYN-020

Manufacturing Knowhow (Trade Secret)

Methods of Use and Novel Formulations (applications filed)

Option to additional IP from MGH





VCN-01 IN PANCREATIC CANCER

VCN ONCOLYTIC VIRUS GENETIC MODIFICATIONS





¹Since this is a transgene, progeny virus will also be albumin coated. ²MLP control means transgenes will only be expressed after replication, which occurs selectively in tumor cells. Transgene expression (PH20 in blood) can be a biomarker for viral replication in the tumor. ³PH20 cassette inserted downstream of the fiber gene contains a splice acceptor (SA), a kozak sequence (K) and a polyadenylation stop sequence (pA)

EXTENSIVE VCN-01 PHASE 1 CLINICAL EXPERIENCE 88 Patients Treated in Diverse Cancer Indications

Location	Phase	Indication	Co-therapy	Route	Status	Registry
Multicenter (ESP)	1	Part I: Solid tumor Part II, III: PDAC	Part I: None Parts II,III: Gemcitabine + nab-Paclitaxel	IV	Complete ¹	NCT02045602
Multicenter (ESP)	1	PDAC	Gemcitabine + nab- Paclitaxel	IT	Complete ²	NCT02045589
Hospital Sant Joan de Déu, Barcelona	1	Retinoblastoma	None	lVit	Complete; CSR in prep	NCT03284268
Institut Català d'Oncologia (ICO)	1	HNSCC	Durvalumab	IV	Complete; CSR in prep	NCT03799744
U. Leeds	1	Adult brain tumors	None	IV	Ongoing	ISRCTN 517624869
U. Pennsylvania	1	PDAC, Ovarian	huCART-meso ³	IV	Ongoing	NCT05057715



¹Garcia-Carbonero (2022) J Immunother Cancer 10:e003255. ²Bazan-Peregrino (2021) J Immunother Cancer 9:e003254. ³huCART-meso are autologous T cells engineered to express an extracellular single chain variable fragment (scFv) with mesothelin specificity. HNSCC head and neck squamous cell carcinoma. IV intravenous. IT intratumoral. IVit intravitreal.

CLINICAL DATA SUPPORT VCN-01 MODE-OF-ACTION Remodels the tumor matrix and turns "cold" tumors "hot"

Potential biomarker: PH20 levels in patient sera indicate sustained VCN-01 activity in tumors



Immune markers upregulated in biopsies of hepatic metastases



CD8⁺ lymphocytes

IDO upregulation

PD-L1 upregulation



IDO indoleamine 2,3-dioxygenase, PD-L1 programmed death-ligand 1 and CD8⁺ lymphocyte infiltration measured by immunohistochemistry. PH20 (hyaluronidase) levels measured using an ELISA assay. Garcia-Carbonero (2022) J Immunother Cancer 10:e003255 [NCT02045602].

MOST COMMON IV VCN-01 RELATED AEs [NCT02045602]

ADVERSE EVENTS ¹	Part I (Alo	ne, n=16)	Part II (Conc	omitant, 12) ²	Part III (Seq	uential, 14) ³
	Grade 1-2	Grade ≥3	Grade 1-2	Grade ≥3*	Grade 1-2	Grade ≥3
Febrile neutropenia	-	-	-	2 (16.7%)	-	-
Neutropenia/Neutrophil count decreased	2 (12.5%)	-	1 (8.3%)	1 (8.3%)	-	-
Thrombocytopenia/Platelet count decreased	1 (6.3%)	1 (6.3%)	3 (25.0%)	4 (33.3%)	2 (14.3%)	-
Diarrhea	3 (18.8%)	-	1 (8.3%)	-	-	1 (7.1%)
Nausea	2 (12.5%)	-	3 (25.0%)	-	3 (21.4%)	-
Vomiting	3 (18.8%)	-	2 (16.7%)	-	3 (21.4%)	-
Asthenia/Fatigue	2 (12.5%)	-	5 (41.7%)	1 (8.3%)	3 (21.4%)	-
Pyrexia/Influenza-like Illness	12 (75.0%)	1 (6.3%)	8 (66.7%)	-	12 (85.7%)	-
Transaminase increases (ALT, AST)	2 (12.5%)	3 (18.8%)	1 (8.3%)	1 (8.3%)	2 (14.3%)	2 (14.3%)
Pancreatic enzyme increase (lipase, amylase)	1 (6.3%)	3 (18.8%)	-	-	-	-
Decreased appetite	3 (18.8%)	-	3 (25.0%)	-	-	-
Arthralgia	2 (12.5%)	-	-	-	-	-
Musculoskeletal pain	3 (18.8%)	-	4 (33.3%)	-	-	-
Dizziness	1 (6.3%)	-	1 (8.3%)	-	-	-
Headache	1 (6.3%)	-	1 (8.3%)	-	1 (7.1%)	-
Dyspnea	2 (12.5%)	-	-	-	-	-
Hypotension	2 (12.5%)	-	1 (8.3%)	-	-	-

*Part II: one patient at the highest dose (1x10¹³ vp) died from a combination of thrombocytopenia (Grade 4) and enterocolitis (Grade 5)



¹Garcia-Carbonero (2022) J Immunother Cancer 10:e003255. ²Concomitant IV VCN-01 3.3x10¹² or 1.0x10¹³ vp/patient administered same day as first dose of SoC IV gemcitabine/nab-paclitaxel. ³Sequential IV VCN-01 3.3x10¹² or 1.0x10¹³ vp/patient administered 7-days prior to first dose of SoC.

VIRAGE PHASE 2 CLINICAL TRIAL DIFFERENTIATORS

- ✓ First-line treatment of metastatic PDAC patients
- ✓ Direct comparison with standard-of-care chemotherapy in the same trial
- ✓ Repeated dosing of VCN-01 may improve treatment outcomes
- ✓ Open label provides real-time opportunity to review emerging VCN-01 treatment effects
- Orphan Drug Designation to facilitate regulatory interactions and provide market exclusivity
- ✓ Fast Track Designation for more frequent communication with FDA and eligibility for Accelerated Approval and Priority Review



EXPANSION OPPORTUNITIES for VCN-01 in PDAC Alternate treatment lines and new chemotherapy combinations





¹Used in <20% of PDAC cases. ²Identical to first-line chemotherapy. ³Eastern Cooperative Oncology Group Performance Status. *Abbreviations:* CPI checkpoint inhibitor. (m)FOLFIRINOX (modified) leucovorin+5-FU+irinotecan+oxaliplatin. nab-Paclitaxel nanoparticle albumin-bound paclitaxel. *NALIRIFOX leucovorin+ 5-FU+liposomal irinotecan+oxaliplatin regimen sNDA accepted by FDA June 2023 for first line metastatic PDAC. Adapted from Tempero (2021) *J Natl Compr Canc Netw* **19**:439.

<mark>26</mark>

VCN-01 WITH GEMCITABINE/ NAB PACLITAXEL

Potential survival benefit compared to all first-line chemotherapy

COMPANY	THERIVA BIOLO	OGICS (Phase 1)	PDAC FIRST LINE CHEMOTHERAPY						
Virus	VCN-01	VCN-01							
Dose	3.3x10 ¹² vp x1 1x10 ¹³ vp x 1*	1x10 ¹³ vp x 1*							
Chemotherapy	Gemcitabine + Nab Paclitaxel	Gemcitabine + Nab Paclitaxel	Gemcitabine +	Nab Paclitaxel	FOLFIRINOX	NALIRIFOX			
No. Patients	12 (6/dose)	6	431	387	171	383			
Response Rate, %	50% [21, 79]	83% [36, 99.6]	29% [25%, 34%]	36.2% [31.4, 41.2]	31.6% [24.7, 39.1]	41.8% [36.8, 46.9]			
Progression Free Survival, mos	6.7 [4.5, 11.7]	6.3 [5.7, NE]	5.5 [4.5, 5.9]	5.6 [5.3, 5.8]	6.4 [5.5, 7.2]	7.4 [6.0, 7.7]			
12-Mo. Survival, %	66.7%	83.3%	35%	39.5%	48.4%	45.6%			
Overall Survival, mos	13.5 [7.1, 29.0]	20.8 [12.2, NE]	8.5 [7.9, 9.5]	9.2 [8.3, 10.6]	11.1 [9.0, 13.1]	11.1 [10.0, 12.1]			
	Garcia-Carbonero JITC 10:e003255	Garcia-Carbonero JITC 10:e003255	Von Hoff NEJM 369:1691	Wainberg Lancet 402:1272	Conroy NEJM 364:1817	Wainberg Lancet 402:1272			



THERIVA OV PORTFOLIO HIGHLIGHTS Unique MOA enables multiple indications and combinations

- Highly differentiated OV designed to have multiple antitumor effects
 - Systemic administration, selective tumor replication, stroma degradation
 - Designed to increases cell lysis, tumor immunogenicity, and tumor access by co-administered therapies
- Multiple potential value opportunities for VCN-01
 - Encouraging clinical data in PDAC, HNSCC, and retinoblastoma support VCN-01 MOA and safety profile
 - Phase 1 clinical data suggest potential to improve/enable use of immune CPIs in refractory patients
 - Phase 1 clinical data support the feasibility of combining VCN-01 with CAR-T cells in solid tumor patients
- Regulatory status expected to facilitate VCN-01 development
 - PDAC: Orphan Drug Designation (FDA, EMA), Fast Track designation (FDA)
 - Retinoblastoma: Orphan Drug Designation (FDA); Rare Pediatric Disease Designation (FDA: access to priority review voucher)
- Leading OV discovery engine advancing diverse new product candidates
 - Potent tumor killing with potential single agent efficacy



CPI immune checkpoint inhibitor. PDAC pancreatic ductal adenocarcinoma. R/M HNSCC refractory/metastatic head and neck squamous cell carcinoma. SoC standard of care (gemcitabine + nab-paclitaxel in PDAC). Alternate indications include retinoblastoma and brain tumors; phase 1 data support additional evaluation in colorectal cancer. Topoisomerase inhibitors include topotecan and irinotecan.





VCN-01 IN HEAD & NECK CANCER

VCN-01 IV + ANTI-PD-L1 PHASE 1 TRIAL in HNSCC Multicenter, open-label, dose escalation study (NCT03799744)





¹Durvalumab 1500 mg (60 min infusion) administered at least 4 hours after VCN-01. HNSCC head and neck squamous cell carcinoma. Jové M (2023) Ann Oncol 34:S589–S590.

EXTENDED SURVIVAL with VCN-01+DURVALUMAB

Survival correlated with PD-L1 upregulation after VCN-01 treatment

 Higher than expected survival (OS) despite previous anti-PD(L)1 failure

Regimen	Median OS (95% CI), mos						
	3.3x10 ¹² vp	1.0x10 ¹³ vp					
Concomitant	10.4 (8.9-NE)						
Sequential	15.5 (15.1-NE)	17.3 (11.3-NE)					

 No correlation of survival with baseline tumor PD-L1 expression (CPS) BUT significant correlation of survival with CPS 8-days after VCN-01 treatment





ESMO Congress 2023 Poster 937P: Survival Outcomes in Phase I Trial Combining VCN-01 and Durvalumab (MEDI4736) in Subjects with Recurrent/Metastatic Head and Neck Squamous Cell Carcinoma Refractory to Previous Immunotherapy Treatment. Jové M (2023) Ann Oncol 34:S589

Overall Survival vs CPS in Biopsies at Day 8

VCN-01 MAY SENSITIZE PATIENTS TO SUBSEQUENT THERAPY

Patients responded to subsequent chemotherapy after progressing with VCN-01 + durvalumab

ARM	ICI Treatment Progression (Pre-trial)		<u>Current Trial</u>	1st Line after Current Trial	2nd Line after Current Trial
	Median OS post-1st ICI	ORR	Median PFS Median OS	ORR	ORR
Concomitant Low (3.3E12vp)	21.6 (19.2-NE)	0/6	1.7 (1.6-NE) 10.4 (8.9-NE)	3/5	1/2
Sequential Low (3.3E12vp)	23.9 (16.6-NE)	1/6	3.7 (2.2-NE) 15.5 (15.1-NE)	3/6	1/6
Sequential High (1E13vp)	21.8 (12.9-NE)	0/6	2.1 (1.4-NE) 17.3 (11.3-NE)	2*/5	1/4

*Complete Responses



AE PROFILE FOR THE COMBINATION OF VCN-01 AND DURVALUMAB

Most common AEs related to IV VCN-01 [NCT03799744]

Adverse Reactions		ncomitant E12 , n=6)²	Arm II - Se (Dose 3,3E			equential 13 , n=8)³
CTCAE Grade	Grade 1-2	Grade ≥3	Grade 1-2	Grade ≥3	Grade 1-2	Grade ≥3
Pyrexia	2 (33,0%)	-	5 (62,5%)	-	3 (50%)	-
Influenza like illness	3 (50,0%)	-	3 (37,5%)	2(25%)	2 (33,3%)	-
Asthenia/Fatigue	2 (33.0%)	-	2 (25%)	1 (12,5%)	4 (66,6%)	-
AST increased	4 (66,7%)	1 (16,6%)	2 (25%)	-	-	2 (33,3%)
ALT increased	3 (50,0%)	1 (16,6%)	1 (12,5%)	-	-	2 (33,3%)
Decreased Apetite	1 (16,6%)	-	3(37,5%)	-	2 (33,3%)	-
Lymphocyte count decreased	1 (16,6%)	-	-	3 (37,5%)	-	-
Myalgia	-	-	3(37,5%)	-	1 (16,6%)	-
Hypotension	-	-	2 (25%)	-	1 (16,6%)	-
Chills	1 (16,6%)	-	1(12,5%)	-	1 (16,6%)	-
Vomiting	1 (16,6%)	-	1(12,5%)	-	1 (16,6%)	-
Anemia	2 (33,0%)	-	1(12,5%)	-	1 (16,6%)	-
Nausea	-	-	1(12,5%)	-	1 (16,6%)	-
Headache	-	-	1(12,5%)	-	1 (16,6%)	-
Erythema	1 (16,6%)	-	1(12,5%)	-	-	-
Guillain-Barre Syndrome	-	1 (16,6%)	-	1 (12,5%)	-	-
Hepatic enzymes increased	-	-	-	1 (12,5%)	-	-
GGT Increased	-	-	-	-	-	1 (12,5%)



VCN-01 INDUCES TRANSCRIPTOMIC CHANGES in TUMOR MICROENVIRONMENT

RNAseq Analysis in Clinical Samples from HNSCC Patients [NCT03799744]



Jové M et al. (2022) Poster 1231P: European Society for Molecular Oncology conference ESMO2022, 12 September 2022

DIULUGIUS

VCN-01 FINDINGS in R/M HNSCC

Data support VCN-01 MOA and immune enhancing effects

- VCN-01 has an acceptable adverse event profile when administered prior to durvalumab (Imfinzi[®])
- VCN-01 reaches tumors, has sustained replication and PH20 expression
- VCN-01 treatment led to downregulation of tumor matrix genes and increased levels of immune markers in tumor biopsies (CD8, PD-L1, IDO)
- VCN-01-treated patients showed increased response to subsequent chemotherapy treatment lines after progressing on this trial



ESMO Congress 2022 Poster 1231P: Phase I Study to Evaluate the Safety, Tolerability, and Efficacy of VCN-01 in Combination With Durvalumab (MEDI4736) in Subjects With Recurrent/ Metastatic Squamous Cell Carcinoma of the Head and Neck (R/M HNSCC). Jove M (2022) Ann Oncol 33:S1112. IDO Indoleamine-2,3-dioxygenase.



VCN-01 IN RETINOBLASTOMA
RETINOBLASTOMA, A RARE PEDIATRIC MALIGNANCY

- Retinoblastoma (Rb) is an orphan indication that accounts for ~2-3% of all childhood cancers¹
- 200-300 cases each year in the USA, EU²⁻⁴
- VCN-01 selectivity enables development as an intravitreal treatment for Rb patients
- VCN-01 could be used in combination with chemotherapy to potentially improve outcomes
- VCN-01 could be used as a rescue therapy for patients who fail standard therapy





¹https://www.cancer.org/cancer/retinoblastoma/about/key-statistics.html. ²Stacey (2021) Ophthalmology 128:1369. ³One Retinoblastoma World Map https://map.1rbw.org/. ⁴For additional details and references see Appendix. IMAGE: Courtesy of Hospital Sant Joan de Déu, Barcelona

VCN-01 IN RETINOBLASTOMA

- Single center, open-label, dose escalation study of intravitreal (IVit) VCN-01¹⁻³
 - Children aged 1-12 years (n=9)
 - Retinoblastoma that is recurrent or refractory to chemotherapy and for whom enucleation is the best treatment option
 - VCN-01 doses of 2.0x10⁹ vp per eye (n=1) or 2.0x10¹⁰ vp per eye (n=8) on days 1 and 15
- Promising antitumor activity and appropriate adverse event profile and tolerability at RP2D
 - Reduction of vitreous seeds in 4 patients of 9 evaluable patients
 - Enucleation avoided in 3 patients; low VCN-01 dose and/or damage from prior chemotherapy meant the eye could not be saved in 6 patients
- Earlier VCN-01 intervention anticipated to have better outcomes

Promising Results in Patients Treated with High Dose VCN-01





¹NCT03284268. ²Pascual Pasto (2019) Sci Transl Med 11:eaat9321. ³Data presented at International Oncolytic Virus Conference IOVC2021, 07 November 2021, Sedona, AZ. Link to IOVC2021 slide deck provided in Appendix. RP2D recommended phase 2 dose. vp virus particles.

INTERIM ADVERSE EVENT DATA FOR INTRAVITREAL VCN-01

Two Intravitreal VCN-01 Doses of 2.0x10⁹ or 2.0x10¹⁰ vp per eye¹

Adverse Reaction	Pts	All Grades		Grade ≥3	
CTCAE grade	N	n	%	n	%
Uveitis	6	2	33%	2	33%
Eye oedema	6	1	17%	0	0%
Conjunctival hyperemia	6	1	17%	0	0%
Eye inflammation	6	1	17%	0	0%

- VCN-01 was reasonably well tolerated after intravitreal administration², although some turbidity and vitritis associated with intravitreal inflammation was observed
- Intravitreal inflammation was managed with local and systemic administration of anti-inflammatory drugs
- VCN-01 did not appear to change retinal function (electroretinographic signaling)
- VCN-01 does not replicate in healthy retinal tissue of patients with either somatic or germline Rb mutation³

Stable Electroretinographic Signals 1000 -Amplitude (µV) **1st Patient Control** 100-4th Patient Control 10-2nd Patient Treated 4th Patient Treated ior to injection reatment Arer treatment **1st Patient Treated**



¹NCT03284268. ²Intravitreal VCN-01 doses of 2.0x10⁹ virus particles (vp) per eye (Patient 1) or 2.0x10¹⁰ vp per eye (Patients 2-4) administered on days 1 and 15. ³Pascual Pasto (2019) Sci Transl Med 11:eaat9321. Data presented at International Oncolytic Virus Conference IOVC2021, 07 November 2021, Sedona, AZ.

VCN-01 DEVELOPMENT IN RETINOBLASTOMA

- Phase 1 ISS Completed H1 2024
 - Initial data demonstrate acceptable adverse event profile and one durable complete response
- Developing a clinical protocol for an open-label, multinational study
 - Retinoblastoma patients with vitreous seeds
 - IVit VCN-01 in combination with chemotherapy (no defined SoC)
 - PI Dr. Guillermo Chantada, MD PhD¹
- Status
 - US Orphan Drug Designation (EU application in process)
 - Pre-IND meeting with FDA completed Q4 2023
 - Rare Pediatric Disease Designation (potential eligibility for Priority Review Voucher)





VCN-X NEXT GENERATION OV DISCOVERY PLATFORM

ALBUMIN SHIELD[™] to ENHANCE OV SYSTEMIC DELIVERY

- Albumin Shield technology protects OVs as they travel to tumors after systemic administration^{1,2}
- Albumin Shield modified OVs bind albumin in the patient's blood to form a protective coating
- Albumin Shield genetic modification allows parent and progeny virus to be albumin coated
- Albumin Shield may enable multiple IV administrations for hard-to-treat patients
- Albumin Shield first candidate VCN-11 is being prepared for a potential Phase 1 clinical trial





THERIVA OV PIPELINE DISCOVERY AND DEVELOPMENT Advancing founders' decade of world leading OV innovation

Common Features

Clinically-tested Adenovirus Expressing PH20 Hyaluronidase to Degrade Stroma

Albumin Shield[™] To Prevent Neutralization by anti-viral Antibodies and Facilitate IV Multidosing

+

Unique Multifunctional Proteins to Turn Cold Tumors Hot and Enhance Anti-tumor Immune Response

+

Product Specific Features



VCN-11 Hyaluronidase alone



VCN-12 Hyaluronidase + Toxins



VCN-13 Fusion Hyaluronidase + scPD-L1



VCN-XX Hyaluronidase + other payloads



THERIVA ONCOLYTIC VIRUSES KEY PUBLICATIONS

- Bayo-Puxan N et al. (2006) Role of the putative heparan sulfate glycosaminoglycan-binding site of the adenovirus type 5 fiber shaft on liver detargeting and knobmediated retargeting. J Gen Virol 87:2487–2495
- Bazan-Peregrino M et al. (2021) VCN-01 disrupts pancreatic cancer stroma and exerts antitumor effects. J ImmunoTher Cancer 9:e003254.
- Garcia-Carbonero R et al. (2019) Poster 5185: Systemic administration of the hyaluronidase-expressing oncolytic adenovirus VCN-01 in patients with advanced or metastatic pancreatic cancer: first-in-human clinical trial. European Society for Molecular Oncology conference ESMO, 29 September 2019.
- Garcia-Carbonero R et al. (2022) A phase I, multicenter, open-label study of intravenous VCN-01 oncolytic adenovirus with or without nab-paclitaxel plus gemcitabine in patients with advanced solid tumors J ImmunoTher Cancer 10:e003255
- Guedan S et al. (2010) Hyaluronidase expression by an oncolytic adenovirus enhances its intratumoral spread and suppresses tumor growth. Mol Ther 18:1275–1283
- Hidalgo M et al. (2019) Poster 5465: Proof of concept clinical study by EUS-guided intratumor injection of VCN-01, an oncolytic adenovirus expressing hyaluronidase in patients with pancreatic cancer. European Society for Molecular Oncology conference ESMO, 28 September 2019.
- Jove M et al. (2022) Poster 1231P: Phase I study to evaluate the safety, tolerability, and efficacy of VCN-01 in combination with durvalumab (MEDI4736) in subjects with recurrent/metastatic squamous cell carcinoma of the head and neck (R/M HNSCC) Ann Oncol. 33:S1112. European Society for Molecular Oncology conference ESMO 2022, 10 September 2022
- Kiyokawa M et al. (2021) Modification of extracellular matrix enhances oncolytic adenovirus Immunotherapy in glioblastoma. Clin Cancer Res 27:889-902
- Martínez-Vélez N et al. (2019) The oncolytic adenovirus VCN-01 as therapeutic approach against pediatric osteosarcoma. Clin Cancer Res 22:2217-25
- Mato-Berciano A et al. (2021) Oncolytic adenovirus with hyaluronidase activity that evades neutralizing antibodies: VCN-11. J Control Rel 332:517-528
- Pascual Pasto G et al. (2019) Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01. Sci Transl Med 11:eaat9321
- Pascual-Pasto G et al. (2021) Presentation: VCN-01 is an encouraging therapy against retinoblastoma. International Oncolytic Virus Conference IOVC2021, 07 November 2021, Sedona, AZ.
- Rodríguez-García A et al. (2015) Safety and efficacy of VCN-01, an oncolytic adenovirus combining fiber HSG-binding domain replacement with RGD and hyaluronidase expression. Clin Cancer Res 21:1406-18
- Rojas J et al. (2012) Improved systemic antitumor therapy with oncolytic adenoviruses by replacing the fiber shaft HSG-binding domain with RGD. Gene Ther 19:453–457
- Rojas J et al. (2010) Minimal RB-responsive E1A promoter modification to attain potency, selectivity, and transgene-arming capacity in oncolytic adenoviruses. 2010) Mol Ther 18:1960–1971
- Rojas L et al. (2016) Albumin-binding adenoviruses circumvent pre-existing neutralizing antibodies upon systemic delivery. J Control Rel 237:78-88



PANCREATIC CANCER REFERENCES

DESCRIPTION, CLASSIFICATION, STAGING, STROMA

Balachandran VP et al. (2019) Broadening the impact of immunotherapy to pancreatic cancer: challenges and opportunities. Gastroenterology 156:2056-72 Christenson ES et al. (2020) Current and emerging therapies for patients with advanced pancreatic ductal adenocarcinoma: a bright future. Lancet Oncol 21:e135-e145 Orth M et al. (2019) Pancreatic ductal adenocarcinoma: biological hallmarks, current status, and future perspectives of combined modality treatment approaches. Radiation Oncol 14:141

Placencio-Hickok VR et al. (2022) Hyaluronan heterogeneity in pancreatic ductal adenocarcinoma: primary tumors compared to sites of metastasis. Pancreatology 22:92-97 Sarantis P et al. (2020) Pancreatic ductal adenocarcinoma: treatment hurdles, tumor microenvironment and immunotherapy. World J Gastrointest Oncol 12:173-181 Tahkola K et al. (2021) Stromal hyaluronan accumulation is associated with low immune response and poor prognosis in pancreatic cancer. Sci Rep 11:12216 Yu J et al. (2015) Time to progression of pancreatic ductal adenocarcinoma from low-to-high tumour stages. Gut 64:1783-9

INCIDENCE

Bengtsson A et al. (2020) The actual 5-year survivors of pancreatic ductal adenocarcinoma based on real-world data. Sci Rep 10:16425.

Carioli G et al. (2021) European cancer mortality predictions for the year 2021 with focus on pancreatic and female lung cancer. Ann Oncol 32:478.

da Costa WL et al. (2020) Trends in the incidence of pancreatic adenocarcinoma in all 50 United States examined through an age-period-cohort analysis. JNCI Cancer Spectrum 4:pkaa033

GLOBOCAN International 2020 survey of persons 0-74 years. https://gco.iarc.fr/today/data/factsheets/cancers/13-Pancreas-fact-sheet.pdf

Michael N et al. (2019) Timing of palliative care referral and aggressive cancer care toward the end-of-life in pancreatic cancer: a retrospective, single-center observational study. BMC Palliat Care **18**:13.

Sung H et al. (2021) Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. CA Cancer J Clin 71:209–249 Ushio J et al. (2021) Pancreatic ductal adenocarcinoma: epidemiology and risk factors. Diagnostics 11:562

TREATMENT

Conroy T et al. (2011) FOLFIRINOX versus Gemcitabine for Metastatic Pancreatic Cancer. N Engl J Med 364:1817-25.

Elsayed M et al. (2021) The latest advancement in pancreatic ductal adenocarcinoma therapy: a review article for the latest guidelines and novel therapies. Biomedicines 9:389

Tempero MA et al. (2021) NCCN Clinical Practice Guidelines in Oncology. Pancreatic Adenocarcinoma, V2.2021. J Natl Compr Canc Netw 19:439-457

Toesca DAS et al. (2018) Management of borderline resectable pancreatic cancer. Int J Radiation Oncol Biol Phys 100:1155-74

Vogel A et al. (2016) Efficacy and safety profile of nab-paclitaxel plus gemcitabine in patients with metastatic pancreatic cancer treated to disease progression: a subanalysis from a phase 3 trial (MPACT). BMC Cancer (2016) 16:817

Von Hoff DD et al. (2013) Increased survival in pancreatic cancer with nab-paclitaxel plus gemcitabine. N Engl J Med 369:1691-703



RETINOBLASTOMA (Rb) REFERENCES

DESCRIPTION, CLASSIFICATION, STAGING

American Academy of Ophthalmology. EyeWiki®. Retinoblastoma. https://eyewiki.org/Retinoblastoma

American Cancer Society. Key statistics for retinoblastoma. https://www.cancer.org/cancer/retinoblastoma/about/key-statistics.html

Canturk S et al. (2010) Survival of retinoblastoma in less-developed countries impact of socioeconomic and health-related indicators. Br J Ophthalmol 94:1432-6

Fabian ID et al. (2018) Classification and staging of retinoblastoma. Community Eye Health 31:11-13

Fabian ID et al. (2020) Global retinoblastoma presentation and analysis by national income level. JAMA Oncol 6:685

Tomar AS et al. (2020) Multicenter, international collaborative study for American Joint Committee on Cancer Staging of Retinoblastoma/ Part I: metastasis-associated mortality. Ophthalmology 127:1719-32

INCIDENCE

One Retinoblastoma World Map. <u>https://map.1rbw.org/</u> (accessed April-November 2021)

Stacey AW et al. (2021) Incidence of retinoblastoma has increased: results from 40 European countries. Ophthalmology 128:1369-71

TREATMENT

Abramson DH et al. (2015) Advanced unilateral retinoblastoma: the impact of ophthalmic artery chemosurgery on enucleation rate and patient survival at MSKCC. PLoS ONE 10:e0145436

Ancona-Lezama D et al. (2020) Modern treatment of retinoblastoma: a 2020 review. Indian J Ophthalmol 68:2356-65

Tomar AS et al. (2021) Global retinoblastoma treatment outcomes. Association with national income level. 128:740-53



OV COMPANY REFERENCES

CG Oncology CG0070 (cretostimogene grenadenorepvec)

https://cgoncology.com

- Ramesh N et al. (2006) CG0070, a conditionally replicating granulocyte macrophage colony-stimulating factor-armed oncolytic adenovirus for the treatment of bladder cancer. Clin Cancer Res 12:305
- Svatek RS et al. (2024) PIVOT-006: A Phase 3, Randomized Study of cretostimogene grenadenorepvec versus Observation for the Treatment of Intermediate Risk NMIBC Following TURBT. Abstract TPS715. Presentation at ASCO Genitourinary Symposium 2024. J Clin Oncol 42:TPS715
- Tyson M et al. (2023) First Results from BOND-003: Phase 3 study of cretostimogene grenadenorepvec Monotherapy for Patients with BCG Unresponsive High-Risk NMIBC with CIS +/-Papillary (Ta/T1) Tumors. Presentation at Society of Urologic Oncology Annual Meeting SUO 2023.
- Uchio EM et al. A phase 3, single-arm study of CG0070 in subjects with non-muscle invasive bladder cancer (NMIBC) unresponsive to Bacillus Calmette-Guerin (BCG). J Clin Oncol 40:TPS598

Genelux Corporation Olvi-Vec (GL-ONC1, GLV-1h68, olvimulogene nanivacirepvec)

https://genelux.com

- Clinicaltrials.gov NCT05281471: Efficacy & safety of Olvi-Vec and platinum-doublet + bevacizumab compared to platinum-doublet + bevacizumab in platinum-resistant/refractory ovarian cancer (OnPrime, GOG-3076)
- Holloway RW et al. (2023) Clinical activity of olvimulogene nanivacirepvec–primed immunochemotherapy in heavily pretreated Patients With Platinum-Resistant or Platinum-Refractory Ovarian Cancer. The Nonrandomized Phase 2 VIRO-15 Clinical Trial. JAMA Oncol. 9:903
- Lin D et al. (2023) Oncolytic virotherapy: basic principles, recent advances and future directions. Signal Transduct Target Ther. 8:156
- Mell LK et al. (2017) Phase I trial of Intravenous oncolytic vaccinia virus (GL-ONC1) with cisplatin and radiotherapy in patients with locoregionally advanced head and neck carcinoma. Clin Cancer Res 23:5696
- Zhang Q et al. (2007) Eradication of solid human breast tumors in nude mice with an intravenously injected light-emitting oncolytic vaccinia virus. Cancer Res 67:10038



OV COMPANY REFERENCES

Oncolytics Biotech: Pelareorep (formerly Reolysin®)

https://oncolyticsbiotech.com

Arnold D et al. Pelareorep (pela) + atezolizumab (atezo) and chemotherapy in first-line (1L) advanced or metastatic pancreatic ductal adenocarcinoma (PDAC) patients – Results from the GOBLET study. Poster presentation at the European Society for Molecular Oncology Annual Congress ESMO 2023.

Clements D et al. (2014) Reovirus in cancer therapy: an evidence-based review. Oncolytic Virother 3:69

Lin D et al. (2023) Oncolytic virotherapy: basic principles, recent advances and future directions. Signal Transduct Target Ther. 8:156

Philips MB et al. (2018) Current understanding of reovirus oncolysis mechanisms Oncolytic Virother 7:53

Xie R et al. (2023) Effectiveness and safety of pelareorep plus chemotherapy versus chemotherapy alone for advanced solid tumors: a meta-analysis. Front Pharmacol 14:1228225

Replimune: RP1, RP2 (vusolimogene oderparepvec)

https://replimune.com

- Chmielowski et al. (2023) Initial efficacy and safety of RP1 + nivolumab in patients with anti–PD1–failed melanoma from the ongoing phase 1/2 IGNYTE study. Abstract 9609. Poster presentation American Society of Clinical Oncologists Annual Meeting ASCO 2023. J Clin Oncol 41:9509
- Sacco JJ et al. (2023) Preliminary safety and efficacy results from an open-label, multicenter, phase 1 study of RP2 as a single agent and in combination with nivolumab in a cohort of patients with uveal melanoma. Presentation at the International Congress of the Society for Melanoma Research SMR 2023.
- Thomas S et al. (2019) Development of a new fusion-enhanced oncolytic immunotherapy platform based on herpes simplex virus type 1. J ImmunoTher Cancer 7:214

