

The logo features the word "GENELUX" in a bold, black, sans-serif font. The letter "G" is stylized with a green dot in its center. The text is enclosed within a green, horizontally-oriented oval shape that has a slight gradient and a shadow effect.

**GENELUX**

*Redefining Immuno-Oncology*

# Disclaimer

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, which are subject to the “safe harbor” created by those sections, about Genelux Corporation (“Genelux,” the “Company,” “we,” “us” or “our”) that are based on the beliefs and assumptions of our management team, and on information currently available to such management team. These forward-looking statements include, but are not limited to, statements concerning: the expansion and advancement of our platform and pipeline and our approach and strategy related to the platform and pipeline; Olvi-Vec’s potential utility and our plans and expectations for Olvi-Vec across various designs and indications; our expectations regarding the field of oncolytic viral immunotherapy; Olvi-Vec’s potential to provide utility across multiple tumor types, and our expectations regarding our Phase 3 trial; the potential of our current and future pipeline to produce best-in-class drugs; our clinical trial strategy and design; the results from our current and future clinical trials and the potential of such results to validate our platform and Olvi-Vec; our expectations regarding (i) the timing of our Phase 2 and Phase 3 clinical trials, including data results and (ii) our intellectual property rights under the Newsoara license agreement; our planned investments to meet worldwide clinical trial demand and facilitate our U.S. commercial launch, if approved; the commercial market opportunity for Olvi-Vec in the United States; our various commercial strategies for self-launching Olvi-Vec for ovarian cancer in the United States, including expected milestones related to clinical trials and commercial partnerships and collaborations; and total addressable population for our programs. These forward-looking statements are subject to numerous risks and uncertainties, many of which are beyond our control. All statements, other than statements of historical fact, contained in this presentation, including statements regarding future events, future financial performance, business strategy and plans, and objectives of ours for future operations, are forward-looking statements.

Although we do not make forward-looking statements unless we believe we have a reasonable basis for doing so, we cannot guarantee their accuracy. These statements are only predictions and involve known and unknown risks, uncertainties and other factors, including the risks set forth under the heading “Risk Factors” in our Quarterly Report on Form 10-Q for the quarter ended March 31, 2026 and in our other filings with the Securities and Exchange Commission (“SEC”), which may cause our actual results, levels of activity, performance or achievements and those of our industry to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. In some cases, you can identify forward-looking statements by terminology such as “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “target,” “will” or “would,” or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these identifying words. You should not put undue reliance on any forward-looking statements. Forward-looking statements should not be read as a guarantee of future performance or results, and will not necessarily be accurate indications of the times at, or by, which such performance or results will be achieved, if at all. Except as required by law, Genelux does not undertake any obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future developments or otherwise.

This presentation also contains estimates and other statistical data made by independent parties and/or by us relating to market size, share, growth and other data about our industry. These data involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. We have not independently verified the data generated by independent parties and cannot guarantee their accuracy or completeness. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

Trade names, trademarks and service marks of other companies appearing in this presentation are the property of their respective owners. Solely for convenience, the trademarks and tradenames referred to in this presentation appear without the ® and ™ symbols, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights, or the right of the applicable licensor to these trademarks and tradenames.

This presentation discusses a product candidate that is under clinical study and which has not yet been approved for marketing by the U.S. Food and Drug Administration. No representation is made as to the safety or effectiveness of this product candidate for the use for which it is being studied.

# Highlights



## **Olvi-Vec: *late-stage Clinical Program focused on Platinum Resensitization in Multiple Indications***

Ongoing pivotal Phase 3 trial in late-stage platinum resistant/refractory ovarian cancer (PRROC)

»»» Alignment reached with FDA that could potentially support a traditional approval without need for confirmatory trial

Ongoing Phase 2 trial via systemic administration in recurrent non-small cell lung cancer (NSCLC)

Ongoing Phase 1b/2 trial via systemic administration in recurrent small cell lung cancer (SCLC)



## **Estimated *Billion Dollar Plus Annual Market Opportunity***

Potential beyond ovarian and lung cancers in numerous settings via systemic administration



## **Focused Commercial Strategy**

US launch planned in Ovarian Cancer initially; strategic partnerships for ex-US rights



## **Validating Strategic Partnership**

Newsoara Biopharma (Greater China rights) has paid \$11M to date and Genelux is eligible for additional development, regulatory and sales milestone payments and up to mid-double-digit percentages royalties on net sales



## **CHOICE™ Platform; Broad and Diverse Discovery Engine**

Library with over 500 novel vaccinia strains and 110+ transgenes

# A Maturing Modality with Phase 3 Companies Validating Oncolytic Virus Potential



Next Generation  
Regional & Systemic  
Administration

**Systemic  
Delivery**  
Potential to be  
First-in-Class  
Across multiple tumor types

**Phase 2 Ovarian Cancer**  
Apparent tumor re-sensitization to  
platinum-based therapy

**Phase 1b Solid Tumors**  
Dose-dependent mOS in metastatic lung-diseased  
solid tumor patients after multiple IV doses

## Potential Clinical Advantages of Olvi-Vec

- ✓ Systemic Dosing and Redosing
- ✓ Target & Treat Metastatic Diseases
- ✓ Robust Immune Activation Profile
- ✓ Broad spectrum of accessible tumor types
- ✓ Multiple Routes of Delivery
- ✓ Tumor Selectivity
- ✓ Strong immune activator
- ✓ Nonhuman Pathogen

## Limitations of 1<sup>st</sup> Gen Viruses

Limited to local delivery and scope of addressable cancers



Initiated rolling BLA filing  
in 2025 for non-muscle  
invasive bladder cancer



FDA/EMA Approval in  
Melanoma



PMDA Approval in  
malignant glioma

# The Most Advanced Non-local Delivery Oncolytic Immunotherapy

*Olvi-Vec: 7 Completed Clinical Trials (>150 Patients)*



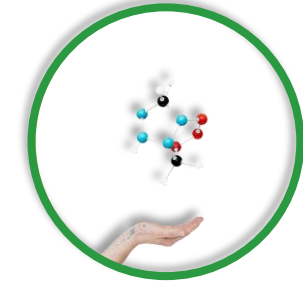
## Physician-preferred routes of delivery

- **Regional and Systemic Administration** to preferentially locate, colonize and destroy tumor cells, including metastatic disease
- IV therapy currently being used in small cell lung cancer Phase 1b/2 trial and in non-small cell lung cancer Phase 2 trial
- In ovarian cancer Phase 3 trial, catheter placement is prior to chemotherapy, with removal no longer than 2 weeks after initial placement



## Antitumor Effect and Well Tolerated

- Strong ORR, mPFS & mOS data in Phase 1b/2 trial in platinum-resistant/refractory ovarian cancer
- **No Maximum Tolerated Dose (MTD) observed**
- Potential utility in multiple cancers (demonstrated anti-tumor activity in 20 pre-clinical solid & liquid tumor models, e.g., ovarian, lung, breast, colon, lymphoma)



## Ideal Backbone of Combination Therapy

- Turns tumors “hot” by localized inflammation and induction of the influx of tumor infiltrating lymphocytes (TILs)
- Positively modulates anti-tumor pathways in tumor microenvironment
- **Potential use with various modalities such as chemotherapies (e.g., platinum-based), immune checkpoint inhibitors and bi-specifics - including rechallenging recurrent patients in multiple tumor types**

# Program Builds on Completed Trials to Exploit Competitive Advantages

Upcoming Trial Readouts have Potential to Redefine:

- Therapy (platinum resensitization in multiple indications)
- Modality (systemic administration of an oncolytic virus)

Olvi-Vec	Indication	Design	Preclinical	Phase 1	Phase 2	Phase 3	Anticipated Milestones	Collaborators
Regional Route	Ovarian Cancer (platinum-resistant/refractory)	Olvi-Vec (i.pe) +Platinum-based regimen	Ph3 OnPrime/GOG-3076 Trial Actively Enrolling Received FDA Fast Track Designation				Topline results expected in 2H, 2026	GOG FOUNDATION <sup>®</sup> (Cooperative Group) U.S.-based trial
Systemic Route	Non-Small Cell Lung Cancer (recurrent/platinum-ICI failure)	Olvi-Vec (IV) +Platinum/Checkpoint inhibitor-based regimen	Ph2 Actively Enrolling				Interim (updated dose-finding) data expected throughout 2026	U.S.-based trial
	Small Cell Lung Cancer (recurrent/platinum failure)	Olvi-Vec (IV) +Platinum-based regimen	Ph1b/2 Actively Enrolling				Interim (updated dose-finding) data expected throughout 2026	NEWSARA 恒翼生物医药
	Ovarian Cancer (recurrent/platinum failure)	Olvi-Vec (IV) +Platinum-based regimen	Ph1b/2 Regulatory Submission					(Greater China-based trials)
	Non-Small Cell Lung Cancer (recurrent/platinum-ICI failure)	Olvi-Vec (IV) +Platinum/Checkpoint inhibitor-based regimen	Planned					

# 2026 Financial Guidance Reflects Advancing the Olvi-Vec Pipeline

**Cash:**  
~\$26M

**Quarterly  
Operating Cash  
Burn (avg.):**  
~\$7M

**CapEx:**  
Up to ~\$6M

**Cash Runway:**  
Q1'27

## Analyst Coverage

- Chad Messer, Ph.D.  
Lake Street Capital Markets
- Christopher Liu, Pharm.D.  
Lucid Capital Markets
- Kemp Dolliver, CFA  
Brookline Capital Markets
- Emily Bodner  
H.C. Wainwright & Co.
- Bruce Jackson, M.S., MBA  
The Benchmark Company
- Jason McCarthy, Ph.D.  
Maxim Group

## Expectations for 2026:

- Topline readout of registrational trial in ovarian cancer
- Additional systemic data readouts in lung cancer
- Completion of commercial manufacturing upgrades to our facility in San Diego, CA
- BLA filing preparation in advance of OnPrime topline readout



# Regional Administration Program

Ovarian Cancer

# Ovarian Cancer Program: Regional (Intraperitoneal) Delivery

## Completed and ongoing clinical trials in heavily pre-treated platinum resistant/refractory patients

### Key Takeaways

- Phase 1 tested condensed dosing schedule and demonstrated tolerability with evidence of anti-tumor activity
- Phase 2 demonstrated promising Overall Response Rate (ORR) and Progression Free Survival (PFS), and clinical reversal of platinum resistance and refractoriness

#### **Expected Milestones**

- Phase 3 registrational trial: ongoing with **topline results expected in 2H, 2026**

Trial Sites Location / (#)	Clinical Stage	Design	Patients	Randomization	Status
US / (~30)	Phase 3	Combination (platinum-based regimen)	186	2:1	Ongoing <sup>3</sup>

US / (1)	Phase 1	Monotherapy (Dose Escalation)	11	Single Arm	Completed <sup>1</sup>
US / (2)	Phase 2	Combination (platinum-based regimen)	27	Single Arm	Completed <sup>2</sup>

*A platinum resensitizing agent is a long-standing desirable and highly demanded mechanism of action of Gyn-Oncs, their so-called “Holy Grail”.<sup>4</sup>*

<sup>1</sup> Manyam et al., Gynecol Oncol. 2021;163(3):481-489.

<sup>2</sup> Holloway et al., JAMA Oncol. 2023 Jul 1;9(7):903-908.

<sup>3</sup> Holloway et al., Int J Gynecol Cancer. 2023 Sep 4;33(9):1458-1463.

<sup>4</sup> Journal of Investigative Medicine High Impact Case Reports, Volume 6: 1–3, 2018  
DOI: 10.1177/2324709618760080 Journals.sagepub.com/home/hic

# Phase 3 Pivotal Trial Design Founded on Phase 2 Trial Design & Results

*Trial design intends to replicate previous data showing anti-tumor activity of Olvi-Vec and reversal of platinum resistance/refractoriness.*

## Key Inclusion Criteria

- High-grade serous, endometrioid, or clear-cell ovarian cancer
- Platinum-resistant or -refractory disease
- Received prior bevacizumab (or biosimilar) treatment
- Received a minimum of 3 prior lines of systemic therapy with no maximal limit
- Performance status ECOG is at 0 or 1, and life expectancy of at least 6 months

## Multi-center, randomized open-label<sup>1</sup> n=186

### Experimental Arm

Olvi-Vec and Platinum + single agent chemo + Bevacizumab,  
followed by maintenance therapy  
(Uses the same treatment regimen as in the completed Phase 2 study)

### Active Comparator Arm <sup>2</sup>

Single-agent chemo (+ optional platinum) + Bevacizumab,  
followed by maintenance therapy

**Topline results expected in 2H, 2026**

## Primary Endpoint

### Progression-Free Survival

*"If a clinically meaningful PFS advantage is demonstrated in the absence of a decrement in OS, this could potentially support traditional approval."<sup>3</sup>*

## Key Secondary Endpoints

1. Treatment-emergent AEs
2. Duration of Response (DOR)
3. Overall Response Rate (ORR)
4. Overall Survival (OS)

<sup>1</sup> International Journal of Gynecological Cancer, Holloway RW, et al. 2023;33:1458–1463.

<sup>2</sup> Protocol amended to make platinum optional in the Active Comparator Arm following correspondence received from the FDA in February 2024.

<sup>3</sup> FDA Response to Request for Clarification, dated January 30, 2025.

# Completed Phase 1b Anti-tumor Activity as Monotherapy Leading into Combination

## Key Clinical Takeaways

- Median progression free survival (mPFS) of 6.1 months (median 4 prior lines; 95%CI: 2.2-NA) for the six patients in Cohort 1 virus monotherapy – the dose used in Phase 2.
  1. SOC-AURELIA regimen (1-2 prior lines)
    - mPFS: 6.7 mos
  2. ELAHERE (1-3 prior lines)
    - mPFS: 5.62 mos
- Cohort 2/3 dosing done exponentially higher with no MTD reached.

## Olvi-Vec Monotherapy<sup>1</sup>



### Patient Background & Study Treatment

- Heavily pre-treated PRROC patients with documented progressive disease
- Cohort 1 received a **single cycle** of intraperitoneal delivery on 2 consecutive days; total dose:  $6 \times 10^9$  pfu, same dose as Phase 1/2



### Tolerability:

- **No Dose Limiting Toxicity (DLT)**
- **No Maximum Tolerated Dose (MTD)**
- **No Grade 4 Adverse Events (AE)**



### Antitumor activity:

- Disease Control Rate: 73% (8/11)
- **4/11 patients over three dose cohorts had >2x PFS relative to immediate prior chemotherapy**



### Translational Evidence:

- Activation of tumor-specific T cell response detected in blood
- Documented immune activation in tumor microenvironment with significant influx of TILs
- Favorable immune-related genetic signatures

<sup>1</sup>Manyam *et al.*, Gynecologic Oncology 163 (2021) 481 - 489

# Completed Phase 2 Tested Olvi-Vec-primed Immunochemotherapy

## Heavily Pretreated Patients with Platinum-Resistant or Platinum-Refractory Ovarian Cancer

### Key Inclusion Criteria

- High-grade serous, endometrioid or clear-cell ovarian cancer including: (1) platinum-resistant (recurrence or progression in < 6 months) or (2) platinum-refractory (progression while on platinum-based therapy) with at least two prior lines of therapy
- ECOG Performance status is at 0 or 1

### Interventional Single Group Assignment n=27

#### Design

Olvi-Vec via intraperitoneal infusion in multiple doses, after systemic chemotherapy administered with or without bevacizumab

#### Endpoints

Primary: Median progression-free survival (mPFS); Overall Response Rate (ORR) by RECIST 1.1 and by tumor biomarker Cancer Antigen-125.  
Secondary: Median overall survival (mOS)

### Data Presentations

1. 2020 Digital Annual Meeting of International Gynecologic Cancer Society  
Oral Plenary Session
2. JAMA Oncology  
Selected for Journal podcast series interview

### OnPrime Phase 3 Trial

Experimental Arm of ongoing Pivotal Phase 3 trial uses the same treatment regimen as in the completed Phase 2 study



JAMA Oncology

*Results of the VIRO-15 Phase 2 Trial were published in JAMA Oncology<sup>1</sup>*

<sup>1</sup> Holloway et al., JAMA Oncol. 2023 Jul 1;9(7):903-908.

# Phase 2: Clinically-Meaningful Responses in Heavily Pretreated Patients

## Overall Response Rate (ORR), including Complete Responses (CR) & Partial Responses (PR), and Progression-Free Survival (PFS)\*

### Key Clinical Takeaways

**Promising ORR and PFS, and clinical reversal of platinum resistance and refractoriness among patients with PRROC**

- All patients had documented progressive disease at enrollment
- The mPFS of the patients' immediately preceding line of therapy was ~4.5 months
- Based on historical data, the mPFS would be expected to decrease in the subsequent line of therapy
- No Grade 4 adverse events. Typical adverse events were transient, mild-to-moderate flu-like symptoms

	ORR by RECIST1.1**	Duration of Response	ORR by CA-125	Median PFS	Median Overall Survival (OS)
<b>All patients (n= 27)</b> (95% CI)	<b>54%</b> (13 <sup>◊</sup> /24 <sup>◊◊</sup> ) (33 - 74) <b>CR=8%</b> <b>PR=46%</b>	<b>7.6 mos</b> (3.7 - 9.6)	<b>85%</b> (22/26 <sup>◊◊◊</sup> ) (65 - 96)	<b>11.0 mos</b> (6.7 - 13.0)	<b>15.7 mos</b> (12.3 - 23.8)
<b>Platinum-resistant (n=14)</b> (95% CI)	<b>55%</b> (6/11) (26 - 84) <b>CR=18%</b> <b>PR=36%</b>	<b>7.6 mos</b> (3.7 - NA)	<b>85%</b> (11/13) (55 - 98)	<b>10.0 mos</b> (6.4 - NA)	<b>18.5 mos</b> (11.3 - 23.8)
<b>Platinum-refractory (n=13)</b> (95% CI)	<b>54%</b> (7/13) (27 - 81) <b>CR=0%</b> <b>PR=54%</b>	<b>8.0 mos</b> (3.7 - NA)	<b>85%</b> (11/13) (55 - 98)	<b>11.4 mos</b> (4.3 - 13.2)	<b>14.7 mos</b> (10.8 - 33.6)

\*Baseline for ORR & PFS evaluation is the timepoint immediately prior to starting post-Olvi-Vec carboplatin doublet +/- bevacizumab to allow direct comparison to historical data or patients' own previous line of chemotherapy

\*\*Eligible for evaluation: with at least 1 measurable target lesion at baseline; including 2 patients without post-chemo scan after virotherapy, and therefore are assigned to the 'inevaluable for response' category per RECIST1.1

◊Including 3 unconfirmed; 2 in resistant group (both censored per protocol); and 1 in refractory group (became eligible for surgery)

◊◊Three of 27 patients were not evaluable as defined by RECIST 1.1 criteria due to no measurable disease.

However, these 3 patients were evaluable by the Gynecological Cancer InterGroup (GCIg) CA-125 criteria, showing 2 partial responses and 1 complete response as best response.

◊◊◊One of 27 patients was not evaluable by GCIg CA-125 criteria. However, this patient was evaluable by RECIST 1.1, showing stable disease as best response.

# Demonstrated Deep and Durable Tumor Shrinkage

## Key Clinical Takeaways

### Refractory patients performed as well as resistant patients

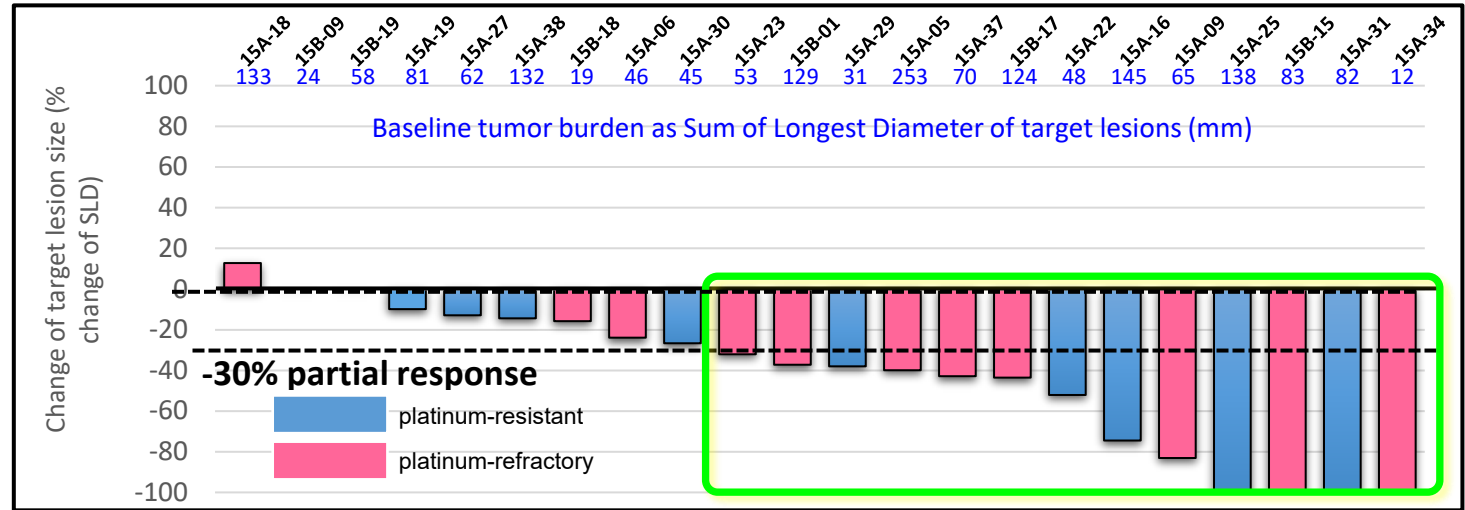
#### Tumor Shrinkage

- Overall, 86% of PRROC patients showed tumor reduction, with 91% of platinum-refractory patients showing tumor reduction
- Four patients had 100% reduction of target lesions (two with confirmed CR), including two platinum-refractory patients

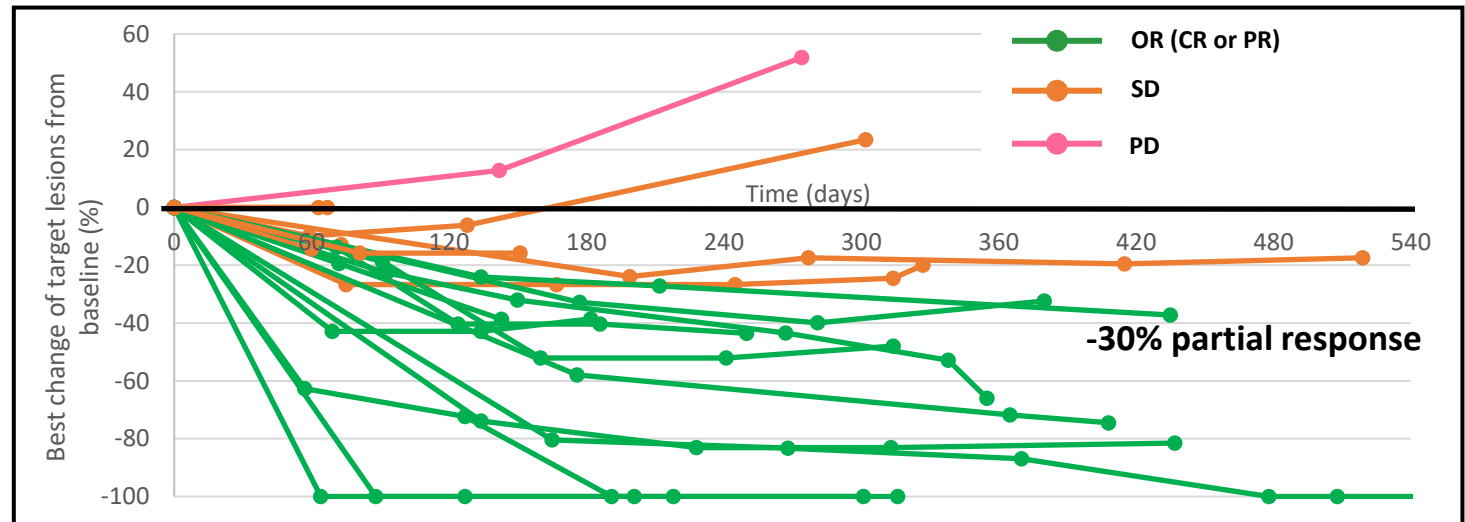
#### Duration of Response (DOR)

- DOR of 7.6 Months in all platinum-Resistant patients
- DOR of 8.0 Months in platinum-refractory patients

## Tumor Shrinkage



## Duration of Response



# Olvi-Vec-Primed Immunochemotherapy Overcomes "Refractoriness"

*Exemplary platinum-refractory patients, after platinum re-challenge, achieved PFS exceeding any prior lines*

## **15B-01:**

- Stage IIIB papillary serous
- ECOG: 0
- BRCA negative
- PD-L1 negative

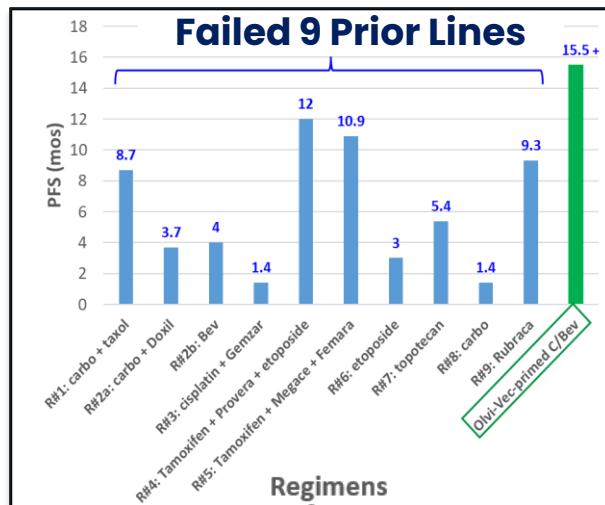
## **15B-15:**

- Stage IIIB high-grade serous
- ECOG: 0
- BRCA negative
- PD-L1 negative

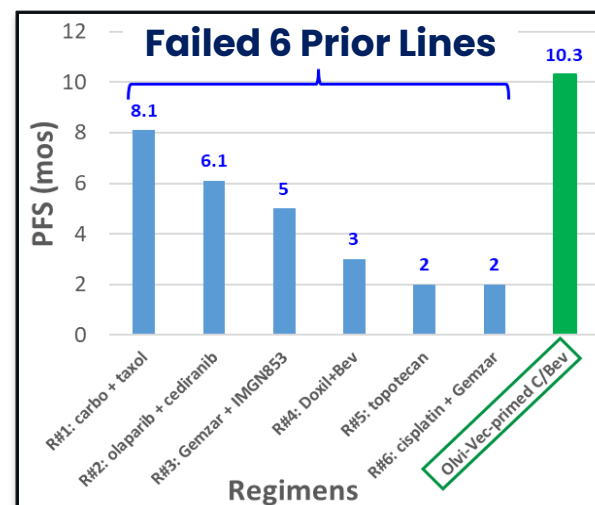
## **15B-17:**

- Stage IIIC high-grade serous
- ECOG: 1
- BRCA negative

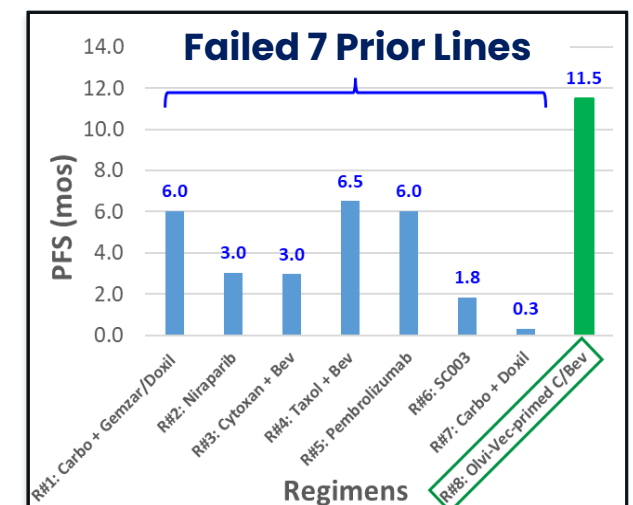
**Overall Survival: 23.2 Months**



**Overall Survival: 12.3 Months**



**Overall Survival: 15.7 Months**



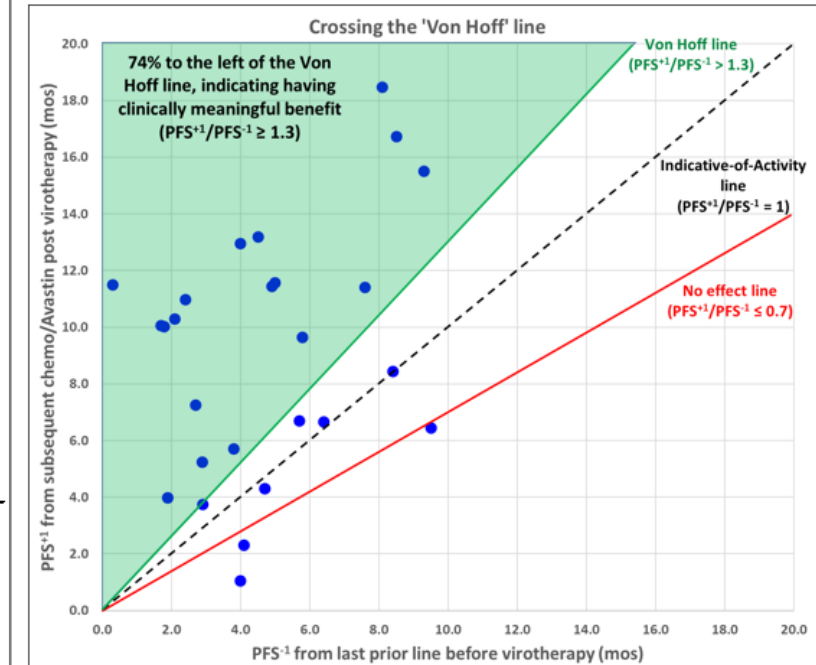
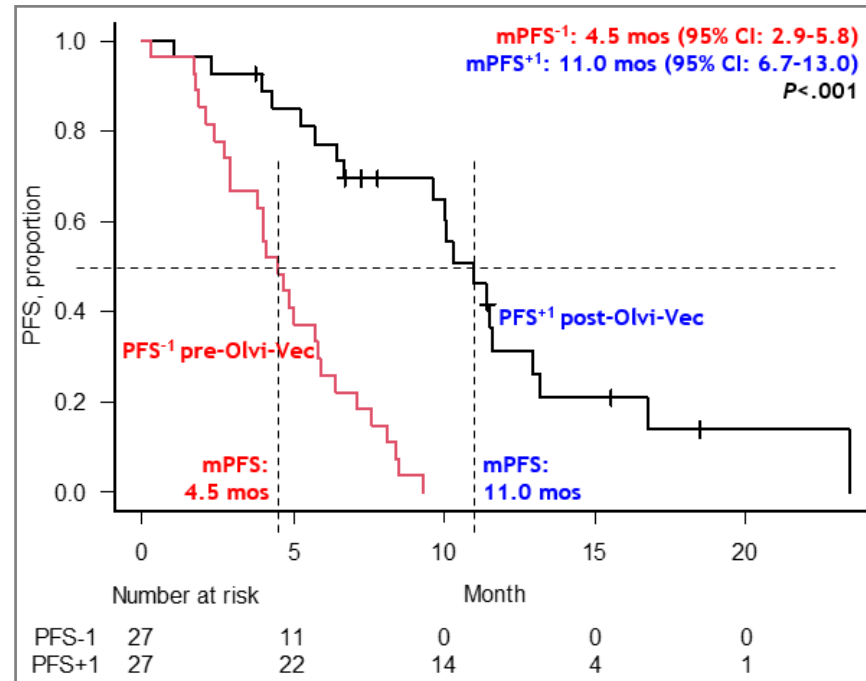
# Meaningful clinical benefit: Relative to patients' preceding line of therapy

## Key Clinical Takeaways

### **Promising PFS and clinical reversal of platinum resistance and refractoriness among patients with PRROC**

- All patients had documented progressive disease at enrollment
- The mPFS of the patients' immediately preceding line of therapy was ~4.5 months
- Based on historical data, the mPFS would be expected to decrease in the subsequent line of therapy

'PFS ratio' in the same patients =  $(\text{PFS}^{+1} \text{ post-Olvi-Vec}) / (\text{PFS}^{-1} \text{ pre-Olvi-Vec})$



(Von Hoff *et al.*, J Clin Oncol. 2010;28(33):4877-83)

# Durable Survival Benefit

## Key Clinical Takeaways

### Encouraging mOS and Long-term survival data

20% long-term survivors consistent with clinically beneficial immunotherapies

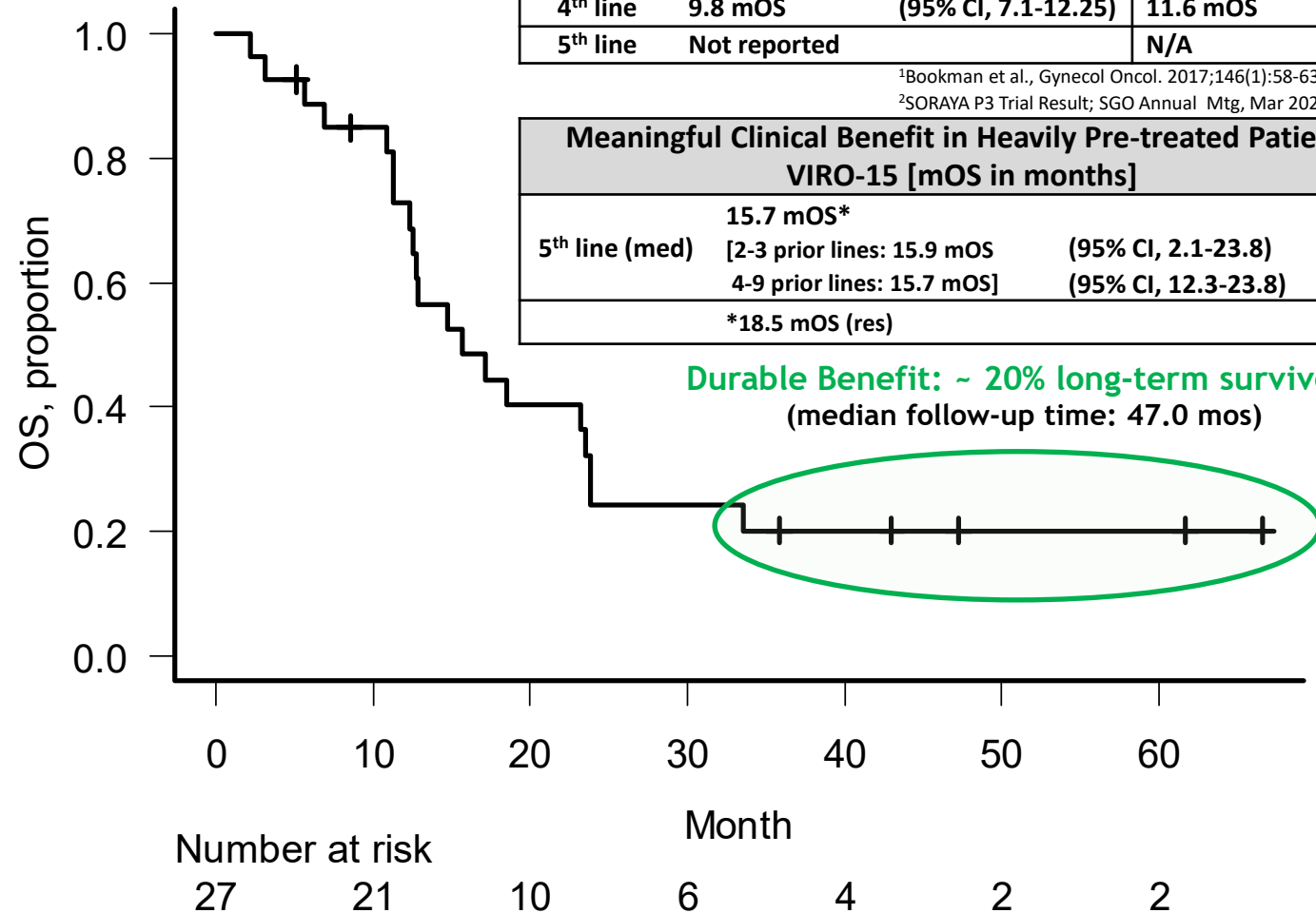
- On a median 5th line of treatment, VIRO-15 Phase 2 patients achieved a mOS of 15.7 mos
- 4 of 6 long-term survivors were platinum-refractory at enrollment

Prognosis Worsens with each Successive Line [mOS in months]			
	Historical Data <sup>1</sup>		ELAHERE <sup>2</sup>
2 <sup>nd</sup> line	21.1 mOS	(95% CI, 17.8-24.4)	18.7 mOS (2 <sup>nd</sup> /3 <sup>rd</sup> )
3 <sup>rd</sup> line	12.9 mOS	(95% CI, 10.4-14.6)	
4 <sup>th</sup> line	9.8 mOS	(95% CI, 7.1-12.25)	11.6 mOS
5 <sup>th</sup> line	Not reported		N/A

<sup>1</sup>Bookman et al., Gynecol Oncol. 2017;146(1):58-63

<sup>2</sup>SORAYA P3 Trial Result; SGO Annual Mtg, Mar 2023

Meaningful Clinical Benefit in Heavily Pre-treated Patients VIRO-15 [mOS in months]		
	15.7 mOS*	
5 <sup>th</sup> line (med)	[2-3 prior lines: 15.9 mOS	(95% CI, 2.1-23.8)
	4-9 prior lines: 15.7 mOS]	(95% CI, 12.3-23.8)
*18.5 mOS (res)		



# Phase 2 Compared to Approved Standard of Care in Earlier Lines

	Elahere Phase 3 (MIRASOL Study)	Enhertu Phase 2 (DESTINY-PanTumor02)	Lifyorli+Nab-paclitaxel Phase 3 (ROSELLA Study)	Olvi-Vec Phase 2 (VIRO-15 Study)
Patient Population	FRα positive and platinum-resistant (progression between 91-180 days)	HER2 positive IHC3+, or IHC2+ ovarian cancer	Platinum-resistant	Platinum –resistant (progression between 31-180 days) or platinum-refractory
Prior Lines of Systemic Therapy	≤3 L's (13% 1L; 40% 2L; 48% 3L)	Median 3 (52.5 % 1-3; 47.5% ≥ 4)	≤3	2-9 L's (median=4)
Number in Treated Arm	227	IHC3+: 15 IHC2+: 25	188 (1:1 randomization)	27 [14 platinum resistant (PI res); 13 platinum refractory (PI ref)]
Overall Response Rate (RECIST)	42.3%	45.0% confirmed (all ovarian patients) 63.6% confirmed (IHC3+) 36.8% confirmed (IHC2+)	36.9%	<b>54%</b> [55% in PI res (n=11); 54% in PI ref (n=13)]
Complete Response (CR)	5.3%	10% (all ovarian patients)	3.2%	<b>8%</b> [18% in PI res; 0% in PI ref]
Partial Response (PR)	37.0%	35.0% (all ovarian patients)	33.7%	<b>46%</b> [36% in PI res; 54% in PI ref]
Progression-free Survival (PFS; months)	5.62 (vs. 3.98 comparator)	5.9 (all ovarian patients) 12.5 (IHC3+) 4.1 (IHC2+)	6.5 (vs. 5.5 comparator)	<b>PFS=11</b> (n=27) [10 in PI res 11.4 in PI ref]  2-3 prior lines: ~10 mos 4-9 prior lines: ~11 mos
Overall Survival (OS; months)	16.46 (vs. 12.75 comparator)	13.2 (all ovarian patients) 20.0 (IHC3+) 13.0 (IHC2+)	16.0 (vs. 11.5 comparator)	<b>15.7 mOS</b> 2-3 prior lines: 15.9 mos 4-9 prior lines: 15.7 mos [18.5 mos in PI res]
Reference	FDA Prescribing Information (Oct. 2024) Moore et al, NEJM 2023	Meric-Bernstam et al, J Clin Oncol., 23 Oct 2023	Olawaiye et al, The Lancet, 21 Jun 2025	Holloway et al, JAMA Oncol, 2023; and internal data.

# Self Launch of Olvi-Vec for Ovarian Cancer in the US

## Drivers of Market Penetration

### Growing Market Opportunity



#### No Entrenched Competitor in 4<sup>th</sup> Line PRROC

- 243,572 Ovarian Cancer Patients in the United States<sup>1</sup>
  - 70-80% will relapse
  - 5<sup>th</sup> leading cause of cancer-related death among women.
- Global revenues of advanced recurrent ovarian cancer drugs are expected to grow from USD 2.5 billion (2023) to USD 5.5 billion (2032)<sup>2</sup>.

### Concentrated Prescribing Network



#### Manageable Commercial Build-out

- Limited number of Gyn-Oncs enabling specialty marketing and sales team
- Partnered with GOG Foundation, a leading US-based cooperative group in Gynecologic Oncology

### Self-Manufacturing



#### Large-Scale Proprietary cGMP Manufacturing

- Attractive COGs
- Control of production schedule
- Ability to scale-up commensurate with commercial demand

### Reimbursement Authorities



#### Compelling Value Proposition for Payors

- Significant unmet need
  - biomarker not required
  - no cap on prior lines
  - Platinum refractory tumors
- Combination with generic/biosimilars

<sup>1</sup> NIH Ovarian Cancer Fact Sheet (2022)

<sup>2</sup> Advanced Recurrent Ovarian Cancer Market, Research and Markets (Report ID: 6052562 dated January 2025).



# Systemic Administration Programs

Lung Cancers

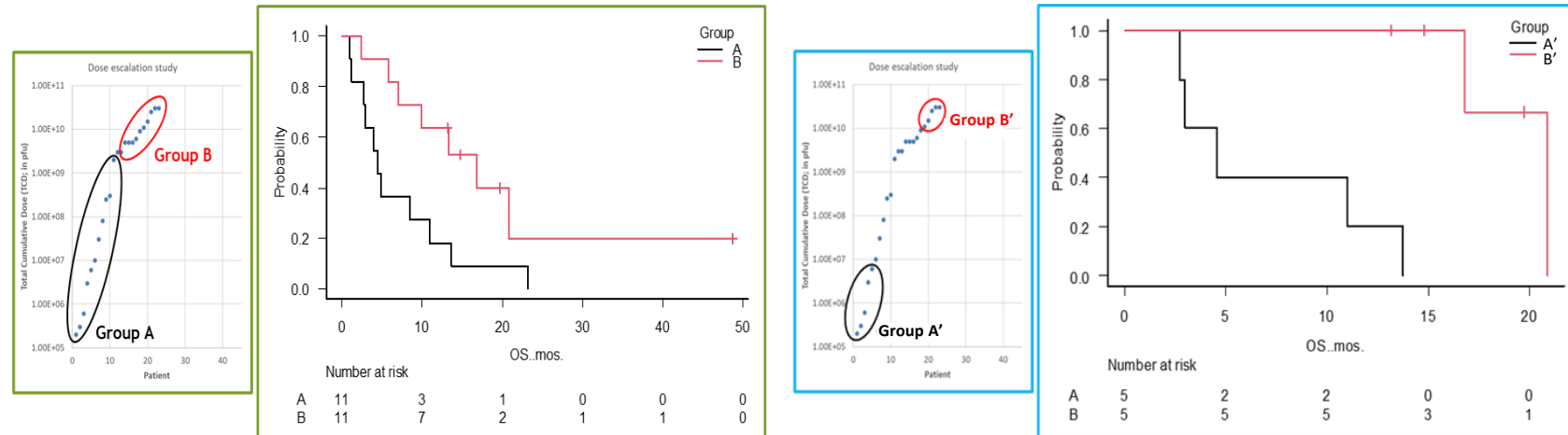
# Systemic Administration Demonstrated Dose-dependent OS Benefit

## Key Clinical Takeaways

### Demonstrated feasibility and clinical benefit of multiple IV cycles

- Median 5 prior lines of therapy
- Regimen: various dosing levels and schedules (typically over 4-6 months)
- Duration of Treatment (DoT): Higher cumulative-dose patients assigned to cohorts with DoT shorter than (condensed schedule) or equal to the DoT of patients assigned to lower cumulative-dose cohorts
- Well tolerated: no-MTD reached with one DLT
- Clinical Benefit: statistically significant virus dose-dependent OS benefit in solid tumors with lung metastases

## Dose Escalation Single-arm Phase 1b Monotherapy Study in Solid Tumors Progressed from Last Prior Therapy



Group A (n=11): TCD  $2 \times 10^5$  pfu –  $2 \times 10^6$  pfu (**lower TCD**)  
Median OS = 4.6 months (95%CI: 1.3-11.0)  
Group B (n=11): TCD  $3 \times 10^9$  pfu –  $3 \times 10^{10}$  pfu (**higher TCD**)  
Median OS = 16.8 months (95%CI: 5.9-UND)

**OS Significantly greater in Group B (16.8 mo) vs Group A (4.6 mo),  $p=0.026$**

Group A' (n=5): TCD  $2 \times 10^5$  pfu –  $1 \times 10^6$  pfu (**lowest TCD**)  
Median OS = 4.6 months (95%CI: 2.7-UND)  
Group B' (n=5): TCD  $1 \times 10^{10}$  pfu –  $3 \times 10^{10}$  pfu (**highest TCD**)  
Median OS = 20.9 months (95%CI: 16.8-UND)

**OS Significantly greater in Group B' (20.0 mo) vs Group A' (4.6 mo),  $p=0.002$**

# Systemic Administration + Chemo Generated Encouraging Data

## Key Clinical Takeaways

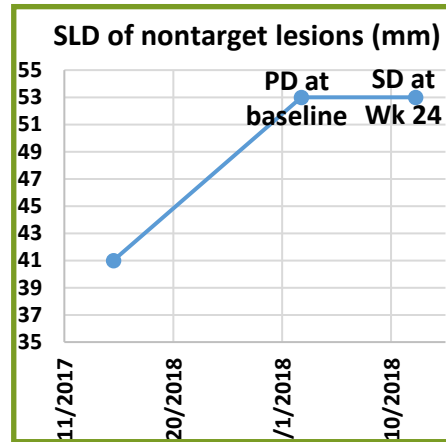
### Anti-tumor effect of IV Immunochemotherapy

- High and Condensed Dosing (single cycle: bolus infusion on 5 consecutive days)
- Well tolerated: No DLT or MTD reached
- Monotherapy: Anti-tumor effects
- Combination therapy: Virus treatment revitalized tumors to subsequent chemotherapy with prolonged PFS and OS

### Platinum refractory metastatic cervical cancer with lung mets

Case Report (Pt #21A-06)

- ❖ Received 5 consecutive daily i.v. doses
  - Transient adverse reactions: fever, nausea, bone pain (Hx arthritis)
  - Stable disease with no tumor size increase

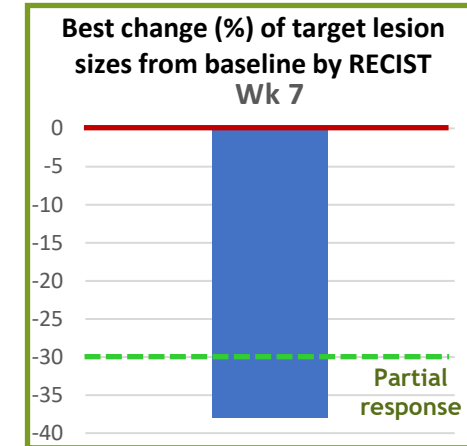


- ❖ Chemotherapy after disease progression
  - Partial Response
  - PFS: 70+ Weeks
  - OS: 53.4 Months

### High-grade pancreatic cancer with lung & liver mets

Case Report (Pt.#21A-04)

- ❖ Received 5 consecutive daily i.v. doses
  - Transient adverse reactions: fever, nausea
  - 59% drop of CA19.9 tumor biomarker and Objective Response per RECIST, with PFS of 18 weeks



- ❖ Chemotherapy after disease progression
  - 83% drop of CA 19.9
  - Partial Response by RECIST
  - PFS: 31 wks

## Key Takeaways

### Lung Cancer Clinical Trial Designs

- All patients in these ongoing clinical trials are treated systemically and previously failed platinum-based therapy

### Lung Cancer Clinical Trial Initial Interim Data

- Supportive of Olvi-Vec potentially being a platinum re-sensitizing agent beyond ovarian cancer and of the current clinical development strategy


### NSCLC Clinical Opportunity


- Estimated 192,119 new NSCLC cases in U.S in 2025
  - Stages I-III (56%)
    - 30% recurrence rate
    - At least 60% of recurrent patients have advanced or metastatic disease
  - Stages IV (44%)
    - 60% recurrence rate
- 66% of advanced or metastatic disease patients after 1<sup>st</sup> line therapy do not have a targetable mutation (>26,000 patients)
- Current standard therapy after 1<sup>st</sup> line therapy for advanced or metastatic NSCLC without a driver mutation is docetaxel-based with a median PFS of ~4-5 months.

### Expected Milestones

- Ph1b SCLC & Ph2 NSCLC:
  - Interim (updated dose-finding) data throughout 2026**

## Ongoing Clinical Trials

Sponsor	Trial Sites	Indication	Clinical Stage	Patients (est.)	Randomization	Status
	US <sup>1</sup>	Recurrent/platinum-ICI failure NSCLC (rNSCLC)	Phase 2	~142	1:1	Enrolling Dose-Finding Cohorts (≤30 patients)

Sponsor	Trial Sites	Indication	Clinical Stage	Patients (est.)	Randomization	Status
 NEWSQARA BREWERY	China <sup>2</sup>	Recurrent/platinum failure SCLC (rSCLC)	Phase 1b/2	~110	Single Arm	Enrolling Dose-Finding Cohorts (≤36 patients)

<sup>1</sup> Newsoara has funding commitment to reimburse Genelux for the US-based Phase 2 trial in NSCLC

<sup>2</sup> Newsoara has development and commercialization rights for all human diagnostic, prophylactic and therapeutic applications in Greater China.

Genelux has worldwide development and commercial rights (ex-Greater China) to all clinical data generated in China

# Phase 1b/2 Trial in Recurrent Small Cell Lung Cancer

## Heavily Pretreated Patients with Platinum-Relapse or Platinum-Refractory Small Cell Lung Cancer

### Key Inclusion Criteria

- After receiving platinum containing chemotherapy scheme +/- immunotherapy, platinum containing chemotherapy scheme +/- anlotinib and other treatment recommended by the guidelines in the past, the disease progresses or relapses.
- ECOG Performance status is at 0 or 1

**Phase 1b, multi-center, dose escalation, open-label**  
**N = up to 36**

### Six Dose Escalation Cohorts

Olvi-Vec via multiple consecutive day intravenous doses,  
followed by systemic administration of platinum  
and etoposide

**Interim (updated dose-finding) data expected  
throughout 2026**



**Phase 2, multi-center, expansion arm, open-label**  
**N = ~90**

### Design

Olvi-Vec via multiple consecutive day intravenous doses,  
followed by systemic administration of platinum  
and etoposide

### Phase 1b Endpoints

#### Primary Endpoint

- Safety and tolerability

#### Secondary Endpoints

- ORR by RECIST 1.1
- Progression-free Survival (PFS)
- Duration of Response (DoR)
- Disease Control Rate (DCR)

### Phase 2 Endpoints

#### Primary Endpoint

- ORR by RECIST 1.1  
(by investigator and by BICR)

#### Secondary Endpoints

- Safety
- Progression-free Survival (PFS)
- Duration of Response (DoR)
- Disease Control Rate (DCR)

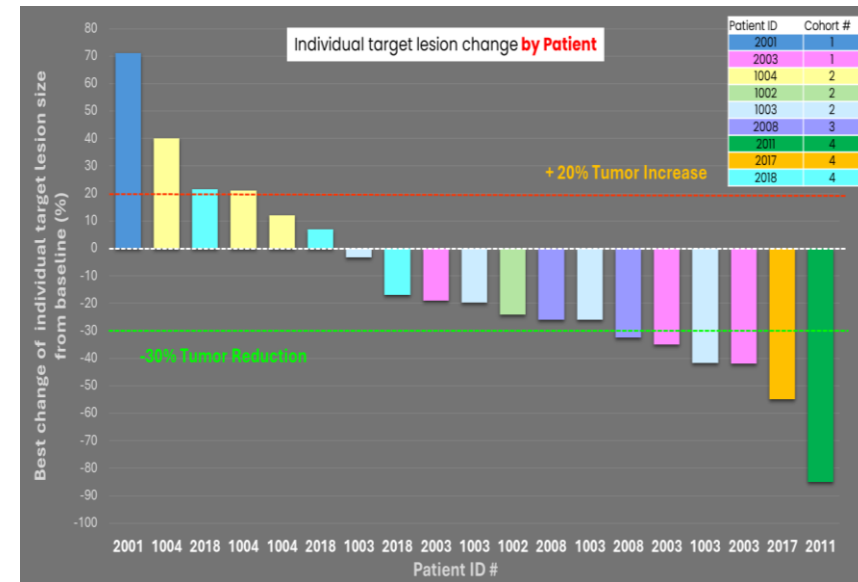
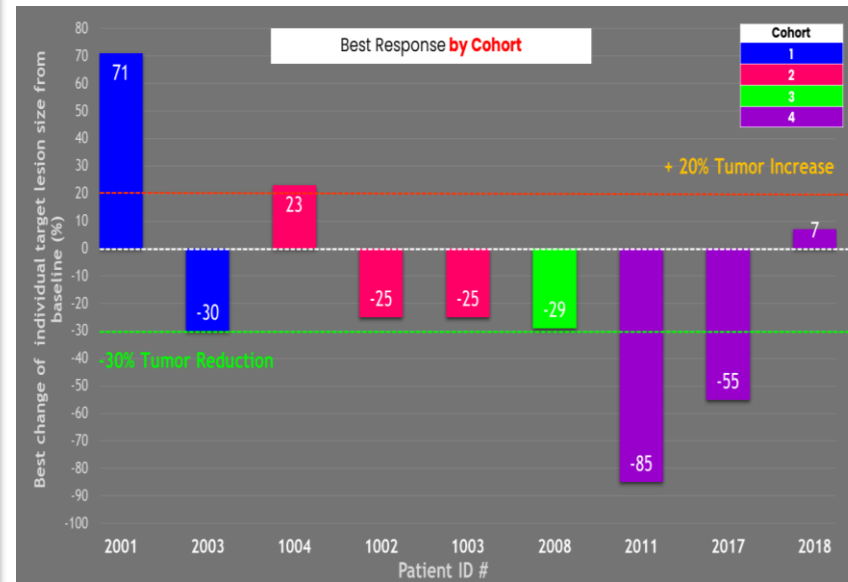
# Phase 1b/2 SCLC Systemic Administration – Interim Data Readout

As of data review cutoff date of December 23, 2025

## Key Takeaways

- 66% (2/3) achieved partial responses (PR) in highest dose cohort tested as of data review cutoff date (tumor reductions of 85% & 55%)
- Across dose escalation cohorts achieved a 66% (6/9) disease control rate (3 PRs & 3 stable disease (SD))
  - **3 stable disease patients achieved tumor size reductions between 25% to 29%.**
- Olvi-Vec was generally well tolerated
- Patient enrollment into dose escalation cohort 5 ongoing (equivalent to cohort 2 of Ph2 NSCLC trial)

*Data is suggestive of potential dose-response trend*



# Phase 2 Trial in Recurrent Non-small Cell Lung Cancer

## *Patients with Non-small Cell Lung Cancer after First Progression while on Front-Line Immune Checkpoint Inhibitor-based Maintenance*

### Key Inclusion Criteria

- Advanced or metastatic NSCLC: Stage III or Stage IV
- Nonsquamous or squamous disease
- Without known targetable alterations in EGFR, ALK or ROS1
- Prior failure of platinum-containing chemotherapy and an immune checkpoint inhibitor

**Multi-center, dose escalation, open-label  
n= up to 30**

#### Three Dose Escalation Cohorts

Olvi-Vec and Platinum-doublet + Immune Checkpoint Inhibitor (ICI), followed by ICI-based maintenance therapy

**Interim (updated dose-finding) data expected throughout 2026**



**Multi-center, randomized open-label  
n= ~110**

#### Experimental Arm

Olvi-Vec and Platinum-doublet + ICI, followed by ICI-based maintenance therapy

#### Active Comparator Arm

Docetaxel  
(crossover allowed after progression)

#### Primary Endpoint

Progression-Free Survival

#### Key Secondary Endpoints

1. Overall Response Rate (ORR)
2. Overall Survival (OS)
3. 6-month progression free survival
4. Duration of Response (DOR)
5. Disease Control Rate

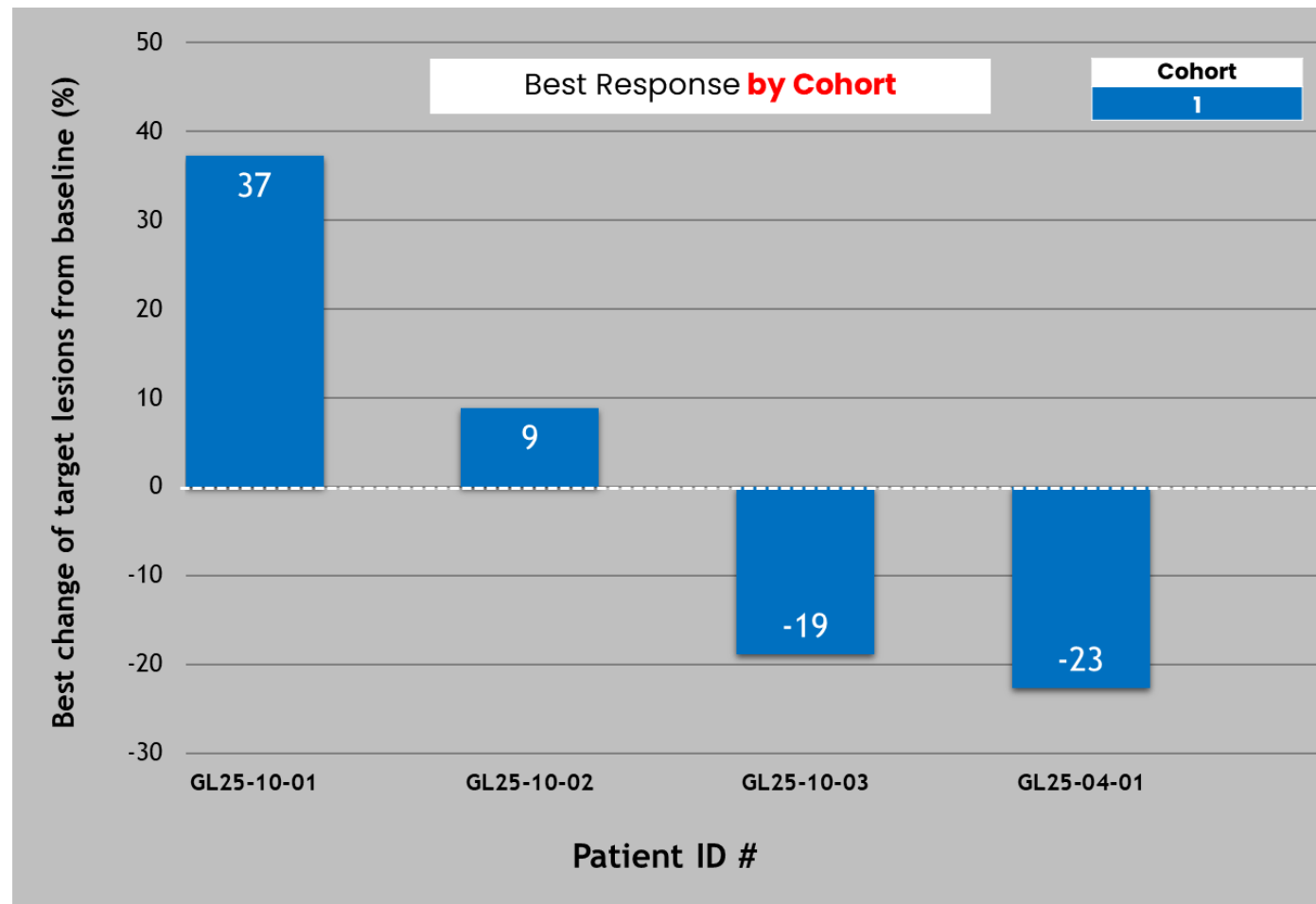
# Phase 2 NSCLC Systemic Administration – Interim Data Readout

As of data review cutoff date  
of December 31, 2025

## Key Takeaways

- Dose escalation cohorts achieved a 60% (3/5) disease control rate (3 stable disease (SD))
  - **2 stable disease patients achieved composite tumor size reductions of 19% and 23%, respectively.**
- Olvi-Vec was generally well tolerated
- Patient enrollment into dose escalation cohort 2 ongoing (equivalent to cohort 5 of Ph1b/2 SCLC trial)

## Observed signals of anti-tumor activity and treatment tolerability



# Industry Collaboration with Newsoara HYK Biopharmaceuticals Co., Ltd



## NEWSOARA HIGHLIGHTS

**15**  
Compounds  
**7/8**  
Small Molecules/  
Biologics

**7**  
Clinical Stage  
**8**  
Pre-clinical

**14**  
IND Approvals  
**6/8**  
Completed/Ongoing  
Studies

**4**  
Platform  
Technologies

**2023**  
1st NDA  
2nd/3rd NDAs  
**2026**

**Top 10**  
VC Investors



**Benny Li, PhD**  
Newsoara Founder and CEO  
20+ yrs. global and China local pharma  
Former VP, GM of Takeda China  
Development Center and SVP, Executive  
GM of R&D at Hansoh Pharmaceuticals  
Former Head of Clinical Development &  
Medical Affairs in Asia at Alcon/Novartis

Newsoara has paid \$11M to date and GNLX is eligible for additional development, regulatory and sales milestone payments and up to mid-double-digit percentages royalties on net sales

# Intellectual Property: Market Exclusivity & Freedom to Operate



Patent Portfolio: 21 issued patents and 7 pending applications; patent term expected to extend into 2038



Olvi-Vec: No third-party royalties due



Long Duration of Regulatory / Marketing Exclusivity



# Integrated Capabilities For Phase 3 And Launch

## Key Takeaways

### **Facilities and Operations based in Southern California**

#### GMP Manufacturing

- Large-scale manufacturing process
- Capacity for clinical studies and commercial launch needs

#### Translational Research

- Clinical Science capabilities to support development program
- Process development capabilities to support manufacturing

#### Headquarters

- Executive Office suite
- Right of First Refusal on 16,338 Sq. Ft of adjacent office space for build-out of Commercialization, Development & G&A functions



Facilities and Operations: **Based in Southern California**

# Accomplished Leadership Team

## Executive Team



**Thomas Zindrick, JD**  
Chief Executive Officer



**Matthew Pulisic, MBA**  
Chief Financial Officer



**Jason Litten, MD**  
Chief Medical Officer



**Eric Groen, JD**  
General Counsel &  
Head of Business Development



## Board of Directors

**THOMAS ZINDRICK, JD**  
Chairman of the Board



**JAMES L. TYREE, MBA**  
Lead Independent Director



**MARY MIRABELLI, MBA**  
Director



**JOHN THOMAS, MBA, PhD**  
Director



**JOHN SMITHER, CPA (Inactive)**  
Director



## Operations & R&D



**Tony Yu, PhD**  
Chief Scientific Officer



**Joseph Cappello, PhD**  
Chief Technical Officer



**Qian Zhang, MD, PhD**  
VP, Clinical Sciences &  
Drug Safety



**Ralph Smalling**  
Head, Regulatory Affairs



**Cathy Gust, PhD**  
VP, Product Strategy Team



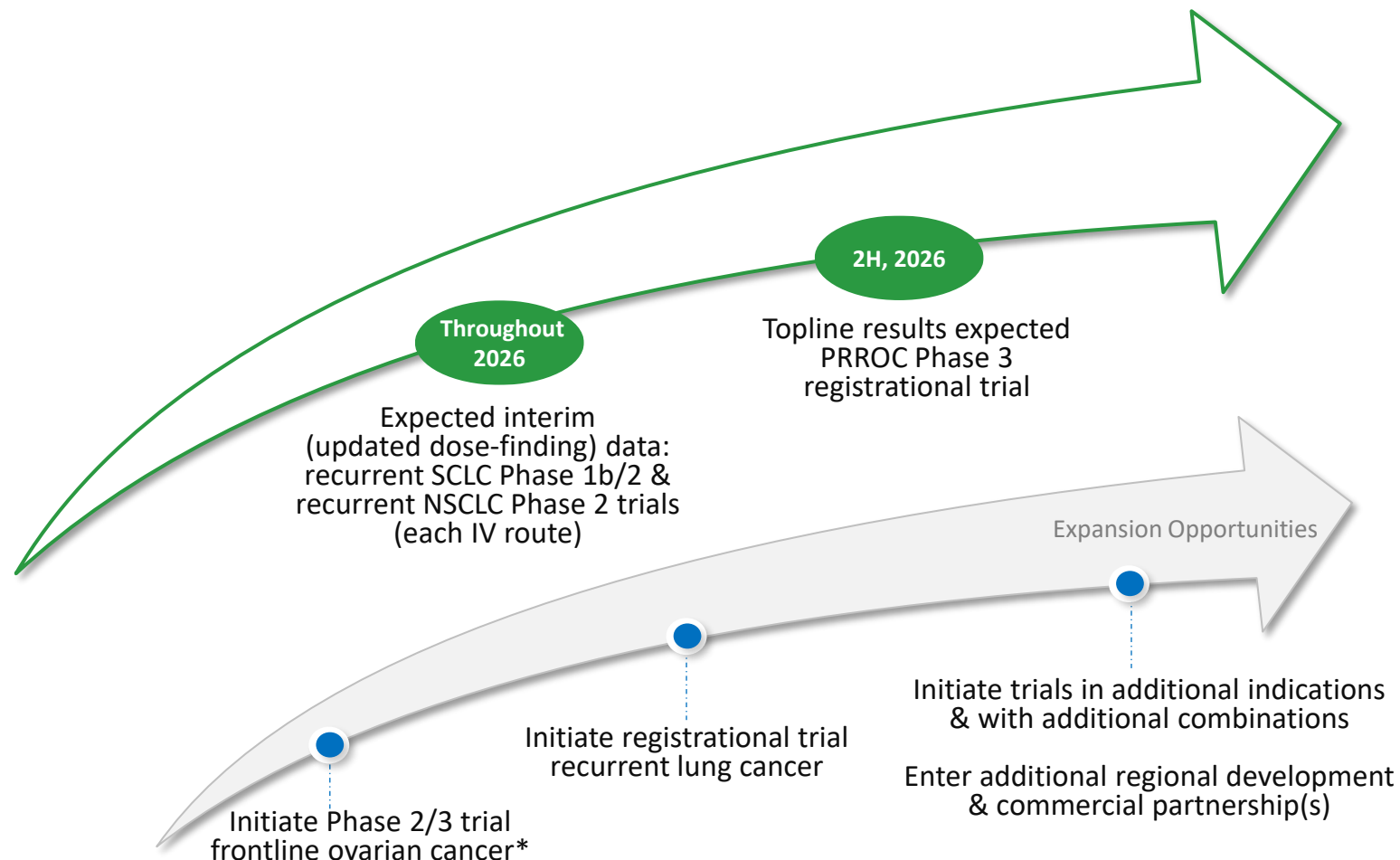
# Genelux Has Executed on Multiple Milestones and is Positioned for the Future

Regular Cadence of Important Program Milestones - **Upcoming Trial Readouts have Potential to Redefine:**

- *Therapy (platinum resensitization in multiple indications)*
- *Modality (systemic administration of an oncolytic virus)*

## Executed Milestones

- Runway beyond expected recurrent SCLC and NSCLC interim readouts
- 30+ sites active in Phase 3 Trial in PRROC
- Phase 2 PRROC results published in JAMA Oncology
- Collaboration and License Agreement with Newsoara
- Initiation of Phase 2 trial in recurrent NSCLC (US)
- Interim data readout of Phase 1b/2 trial in recurrent SCLC (China)



\*We [FDA] reiterate our previous suggestion that you propose a study in the initial treatment of patients with ovarian cancer ... in combination with a platinum-containing regimen. [Type C meeting response, dated August 25,2021]

The logo features the word "GENELUX" in a bold, black, sans-serif font. The letter "G" is stylized with a green dot in its center. The text is enclosed within a green, horizontal, oval-shaped swoosh that tapers at both ends. A large, black, curved swoosh is positioned on the left side of the slide, partially overlapping the logo.

**GENELUX**

*Redefining Immuno-Oncology*

Corporate Presentation | May 2026  
Appendix

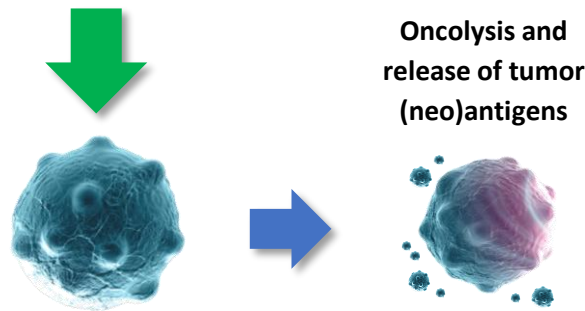
# Olvi-Vec Seeks to Unleash Immune System Against Cancer

## Key Takeaways

Olvi-Vec is being developed as a robust immune modulator that utilizes a triple mode of action to mount a personalized attack against cancer cells throughout the body and aims to:

- Selectively replicate in tumors to kill cancer cells directly, including cancer stem cells
- Enhance (neo)antigen presentation and stimulates a tumor-specific immune response
- Convert tumor microenvironment from immunosuppressive (cold state) to immunoreactive (hot state)

**Olvi-Vec**  
viral infection



**'Cold' tumor before Olvi-Vec**

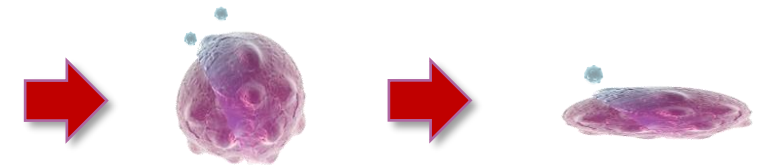
- No or relatively low number of immune effector cells
- Relatively high number of immune suppressor cells

**Innate Immune Activation**

- Increase Type I IFNs
- Increase DAMPs / PAMPs

**Adaptive Immune Activation**

- APCs present (neo)antigens
- T-cell activation & cytotoxicity
- Anti-tumor immune memory



PAMPs - Pathogen-associated Molecular Patterns  
DAMPs - Damage-associated Molecular Patterns

**'Hot' tumor following Olvi-Vec immunotherapy**

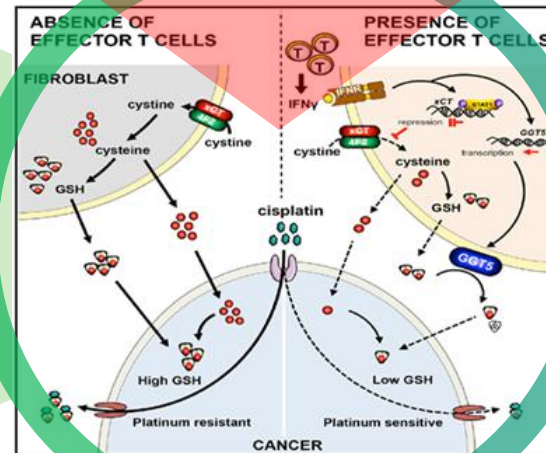
- Increase of proinflammatory cytokines/chemokines
- Influx of CD8+ effector T cells
- M2 to M1 transition of tumor-associated macrophages
- Decrease of immune suppression
- Changes of tumor gene expression profile
- Immunogenic tumor cell death
- Vascular collapse

# Olvi-Vec-Primed Immunochemotherapy: Reversing Platinum Resistance

## Olvi-Vec-Induced Hot Tumor

### Pro-therapeutic gene expression [VIRO-15 Monotherapy Data]

- Positive regulation of T-cell activating and trafficking<sup>1</sup>
- Expression profiles (e.g., STAT1) correlated to better prognosis<sup>2</sup>
- Promotion of sensitization<sup>3</sup> / response to chemotherapy<sup>4</sup>



### Chemotherapy synergy

- Immunogenic cell death and presentation of oncogenic neoantigens<sup>6</sup>
- Depletion of suppressor cells<sup>5</sup>
- Increase susceptibility to cytotoxic T-lymphocytes<sup>6</sup>

## “Prime & Boost”

<sup>1</sup>Song et al. (*Mol Ther* (2007) 15(8):1558–1563)

<sup>2</sup>Wang et al., *Cell*. 2016; 165(5): 1092–1105

<sup>3</sup>Mantovani et al., *J Exp Med*. 2015;212(4):435–445; Kilinc et al., *J Transl Med*. 2016;14:340

<sup>4</sup>Ahmed et al., *Mol Aspects Med*. 2014;39:110–25; Goto et al., *Mol Cancer Ther* (2003) 2(9):911–917; Hsieh et al., *PLoS ONE* (2015) 10(2):e0118028

<sup>5</sup>Weir et al., *Cancers (Basel)* (2011) 3(3):3114–3142; Emens et al., *Cancer Immunol Res* (2015) 3(5):436–443

<sup>6</sup>Emens et al., *Cancer Immunol Res* (2015) 3 (5): 436–443.

# Accomplished Clinical Advisory Board

Medical Director,  
Gynecologic  
Oncology,  
AdventHealth  
Cancer Institute



**Robert Holloway, MD**  
CHAIRMAN

Dr. Holloway is the principal investigator for VIRO-15 and has served on several committees of the Society of Gynecologic Oncology (SGO), including its Board of Directors.

Chief Medical  
Officer, Vanium  
Group



**Robert Coleman, MD**

Dr. Coleman currently serves as Special Advisor to the President of Gynecologic Oncology Group and is co-Director of GOG-Partners. In addition, he is immediate Past-President of the International Gynecologic Cancer Society.

Co-Director,  
Gynecologic  
Oncology, Hoag  
Memorial Hospital  
Presbyterian



**Albert A. Mendivil, MD**

Dr. Mendivil, site principal investigator for VIRO-15, serves as Co-Director of Gyn- Onc and Complex Pelvic Surgery, Hoag Hospital. He has been the principal investigator or site sub-investigator on 20+ clinical trials.

Deputy Director of  
the University of  
Cincinnati Cancer  
Institute



**Thomas J. Herzog, MD**

Dr. Herzog is President of the GOG Foundation. He has served on the leadership board or council of SGO, the Foundation for Women's Cancer, and ACOG.

Professor and  
Division Director,  
Ohio State  
University  
Comprehensive  
Cancer Center



**David M. O'Malley, MD**

Dr. O'Malley is the clinical trial advisor/lead for ovarian cancer within GOG Partners, a committee member for the NCI Gynecologic Cancer Steering Committee's Ovarian Task Force and the NRG Oncology.

Forsythe & Bear,  
LLC



**Alan Forsythe, PhD**

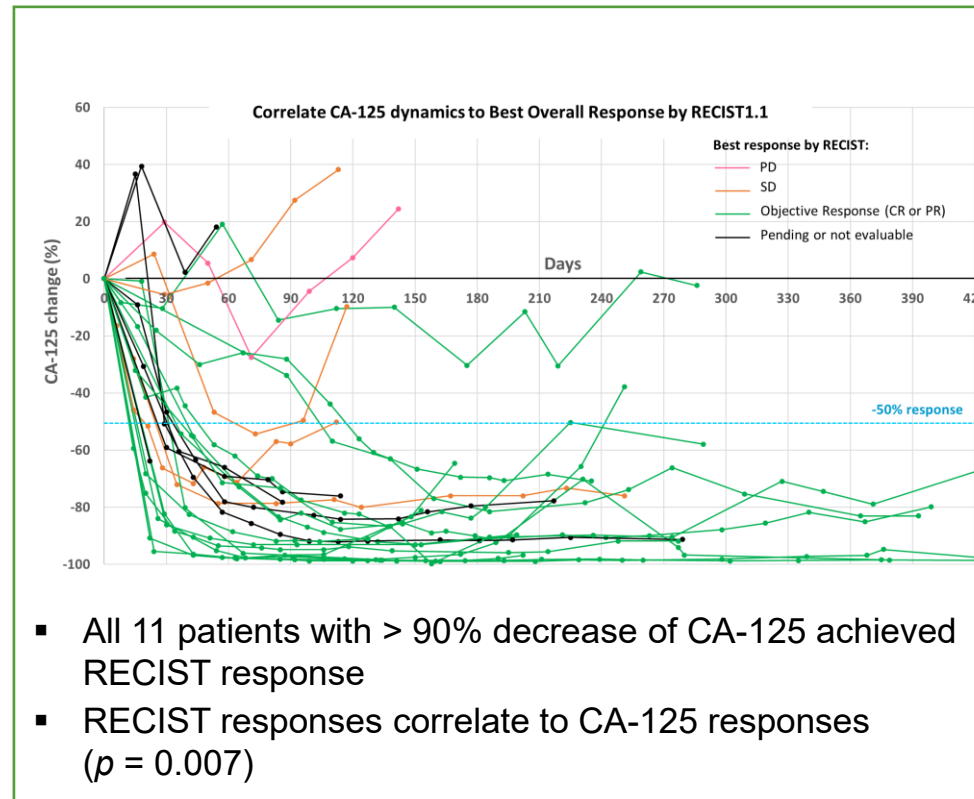
Dr. Forsythe has had a distinguished career in pharmaceutical drug development. As Vice President of Corporate Biomedical Information at Amgen, Alan led the Biostatistics, Epidemiology and HOER depts.

# Olvi-Vec-Primed Immunotherapy Anti-tumor Activity: CA-125 Biomarker

## Rapid, Common and Durable Responses

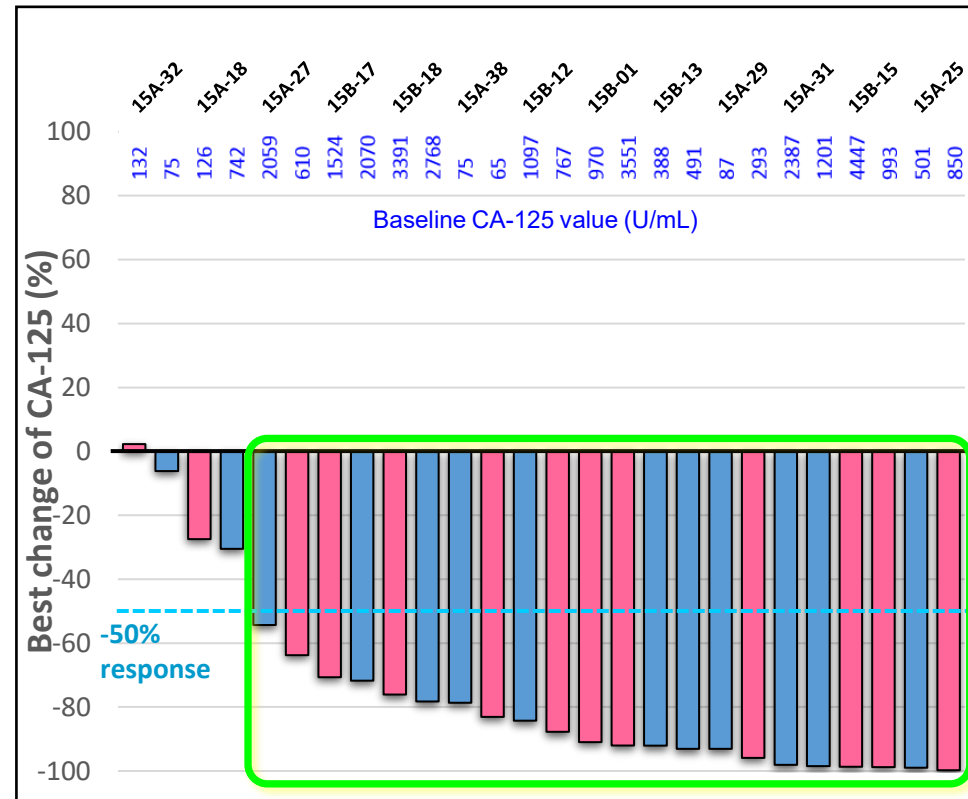
### CA-125 Decrease

- All PRROC Patients: 96% (25/26)
- Platinum refractory patients: 85% (11/13)



### ORR by CA-125

- All PRROC Patients: 85% (22/26)
- Platinum refractory patients: 85% (11/13)



# Phase 2 Compared to Approved Standard of Care in Earlier Lines

	Avastin+Chemotherapy Phase 3 (AURELIA Study)	Elahere Phase 3 (MIRASOL Study)	Enhertu Phase 2 (DESTINY-PanTumor02)	Keytruda+paclitaxel+/-bevacizumab Phase 3 (Keynote-B96)	Lifyorli+Nab-paclitaxel Phase 3 (ROSELLA Study)	Olvi-Vec Phase 2 (VIRO-15 Study)
Patient Population	platinum-resistant (progression <6 months)	FRα positive and platinum-resistant (progression between 91-180 days)	HER2 positive IHC3+, or IHC2+ ovarian cancer	PD-L1+, Platinum-resistant	Platinum-resistant	Platinum –resistant (progression between 31-180 days) or platinum-refractory
Prior Lines of Systemic Therapy	≤2 L's (60% 1 line; 40% 2 lines)	≤3 L's (13% 1L; 40% 2L; 48% 3L)	Median 3 (52.5 % 1-3; 47.5% ≥ 4)	≤2	≤3	2-9 L's (median=4)
Number in Treated Arm	179	227	IHC3+: 15 IHC2+: 25	234 (1:1 randomization)	188 (1:1 randomization)	27 [14 platinum resistant (PI res); 13 platinum refractory (PI ref)]
Overall Response Rate (RECIST)	27.3%	42.3%	45.0% confirmed (all ovarian patients) 63.6% confirmed (IHC3+) 36.8% confirmed (IHC2+)	N/A	36.9%	<b>54%</b> [55% in PI res (n=11); 54% in PI ref (n=13)]
Complete Response (CR)	N/A	5.3%	10% (all ovarian patients)	N/A	3.2%	<b>8%</b> [18% in PI res; 0% in PI ref]
Partial Response (PR)	N/A	37.0%	35.0% (all ovarian patients)	N/A	33.7%	<b>46%</b> [36% in PI res; 54% in PI ref]
Progression-free Survival (PFS; months)	6.7 (vs. 3.4 comparator)	5.62 (vs. 3.98 comparator)	5.9 (all ovarian patients) 12.5 (IHC3+) 4.1 (IHC2+)	8.3 (vs. 7.2, in PD-L1 CPS ≥ 1; HR=0.72)	6.5 (vs. 5.5 comparator)	<b>PFS=11</b> (n=27) [10 in PI res 11.4 in PI ref]  2-3 prior lines: ~10 mos 4-9 prior lines: ~11 mos
Overall Survival (OS; months)	16.6 (vs. 13.3 comparator)	16.46 (vs. 12.75 comparator)	13.2 (all ovarian patients) 20.0 (IHC3+) 13.0 (IHC2+)	18.2 (vs. 14.0, in PD-L1 CPS ≥ 1; HR=0.76)	16.0 (vs. 11.5 comparator)	<b>15.7 mos</b> 2-3 prior lines: 15.9 mos 4-9 prior lines: 15.7 mos [18.5 mos in PI res]
Reference	FDA Prescribing Information (Oct. 2024) Pujade-Lauraine et al, J Clin Oncol, 17 Mar 2014	FDA Prescribing Information (Oct. 2024) Moore et al, NEJM 2023	Meric-Bernstam et al, J Clin Oncol., 23 Oct 2023	FDA Prescribing Information (Feb.2026)	Olawaiye et al, The Lancet, 21 Jun 2025	Holloway et al, JAMA Oncol, 2023; and internal data.

Note: As the data presented is based on a cross-trial comparison and not a head-to-head clinical trial, such comparisons may not be reliable due to differences in study protocols, conditions and patient populations. Accordingly, cross-trial comparisons may not be reliable predictors of the relative efficacy or other characteristics of our candidates compared to others presented.

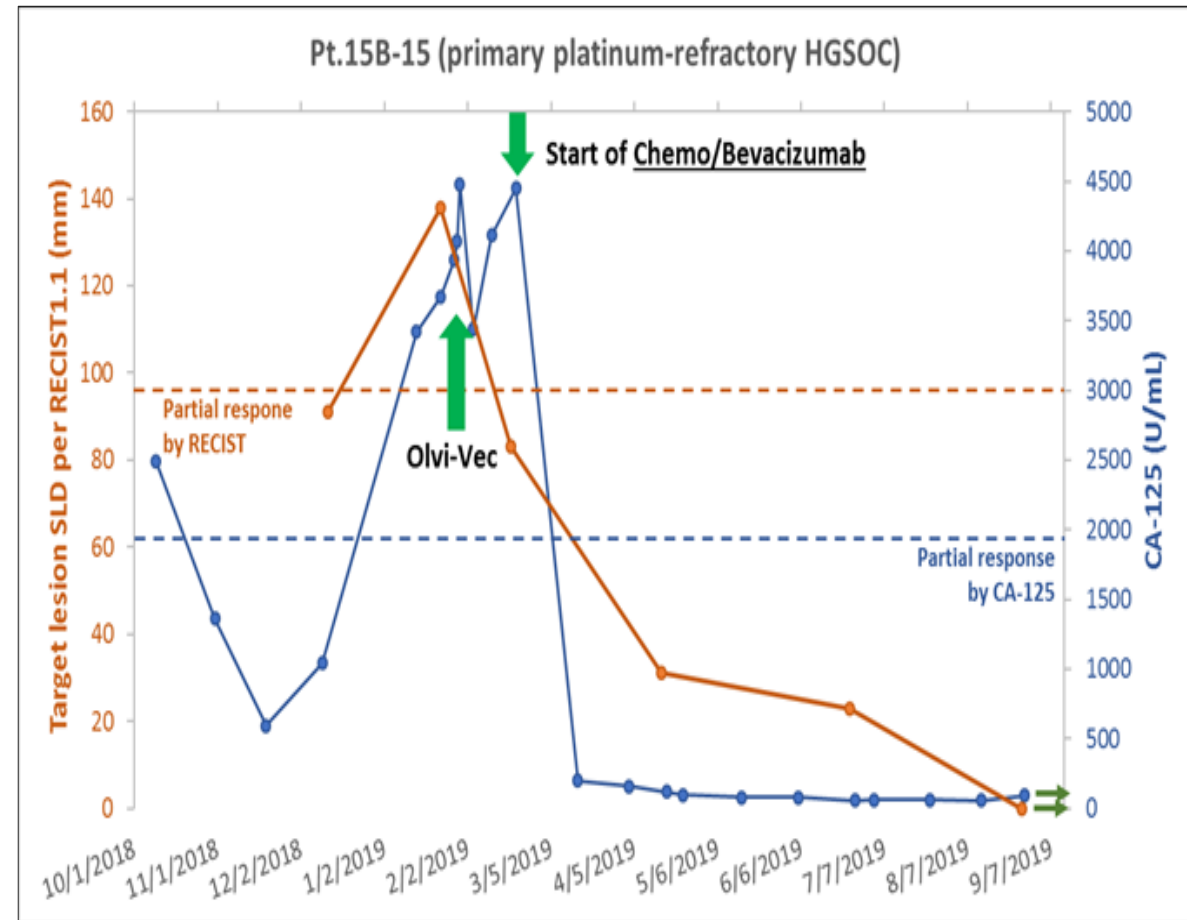
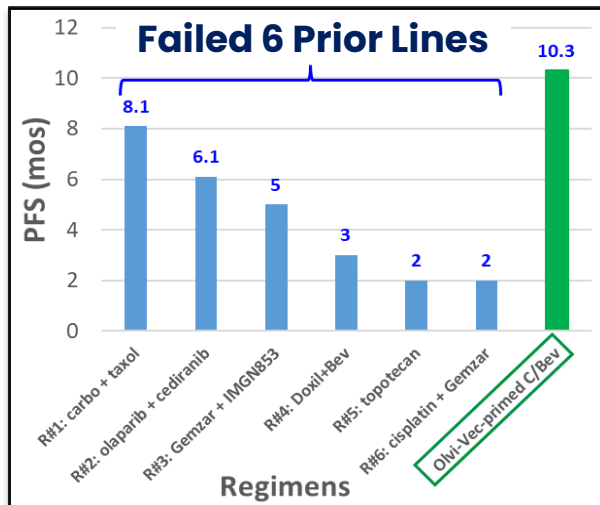
# Olvi-Vec-Primed Immunochemotherapy Overcomes "Refractoriness"

Exemplary platinum-refractory patients, after platinum re-challenge, achieved **PFS exceeding any prior lines**

**15B-15:**

- Stage IIIB high-grade serous
- ECOG: 0
- BRCA negative
- PD-L1 negative

Overall Survival: 12.3 Months



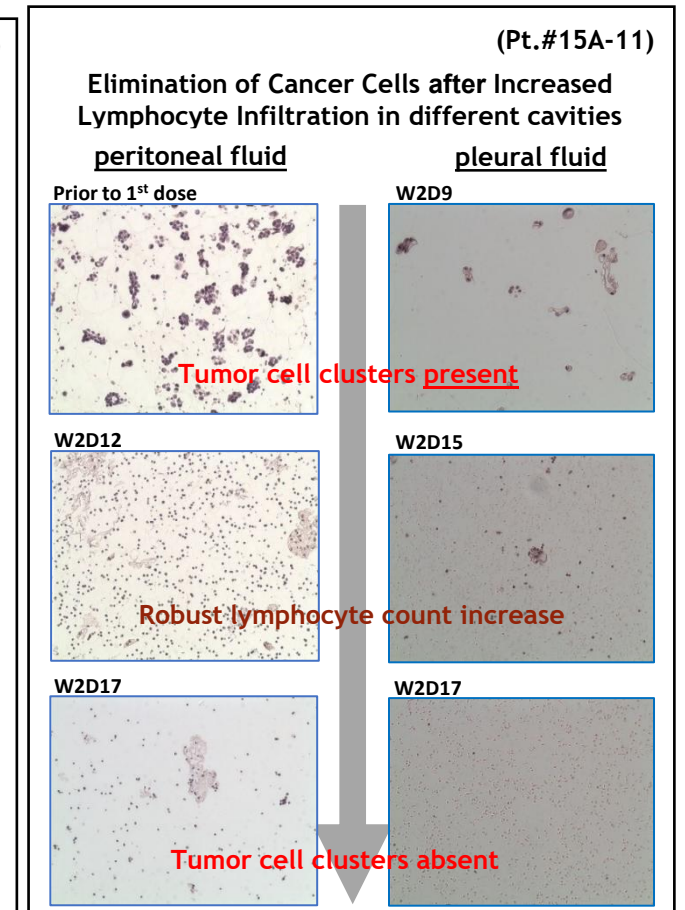
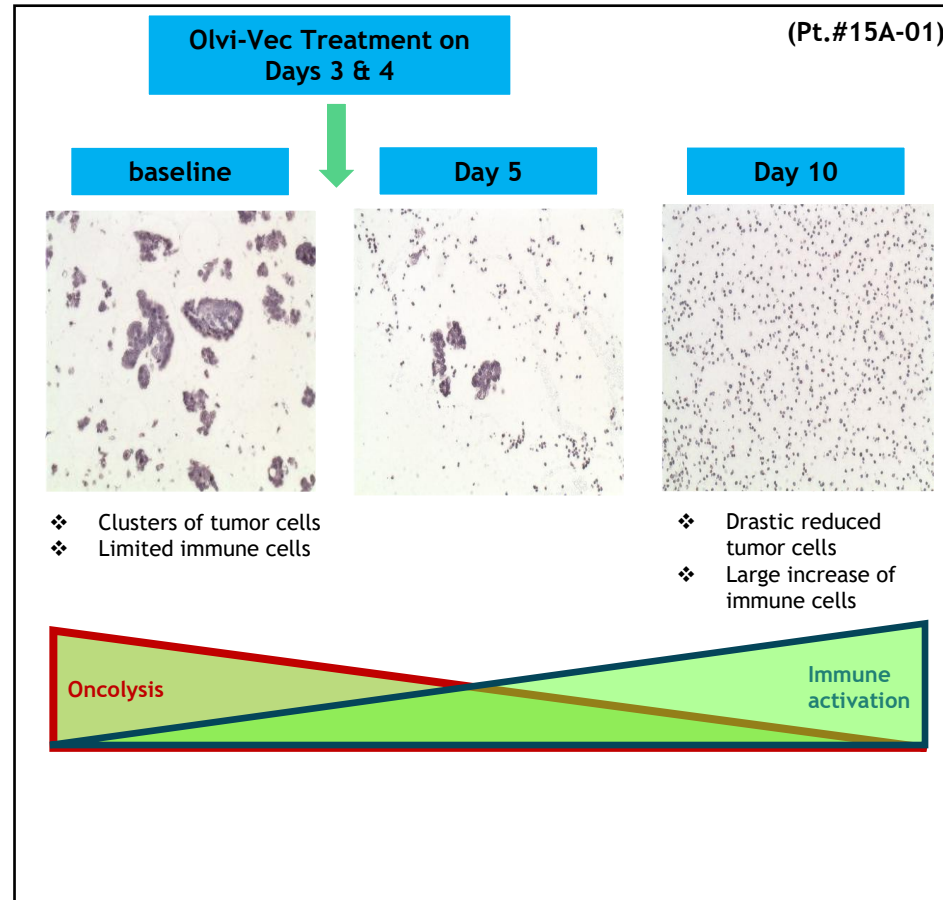
# Olvi-Vec Demonstrated Oncolysis and Immune Activation

Data from Phase 1b Monotherapy portion of VIRO-15 trial

## Key Takeaways

**Olvi-Vec monotherapy shows decreased tumor cells and increased immune activation**

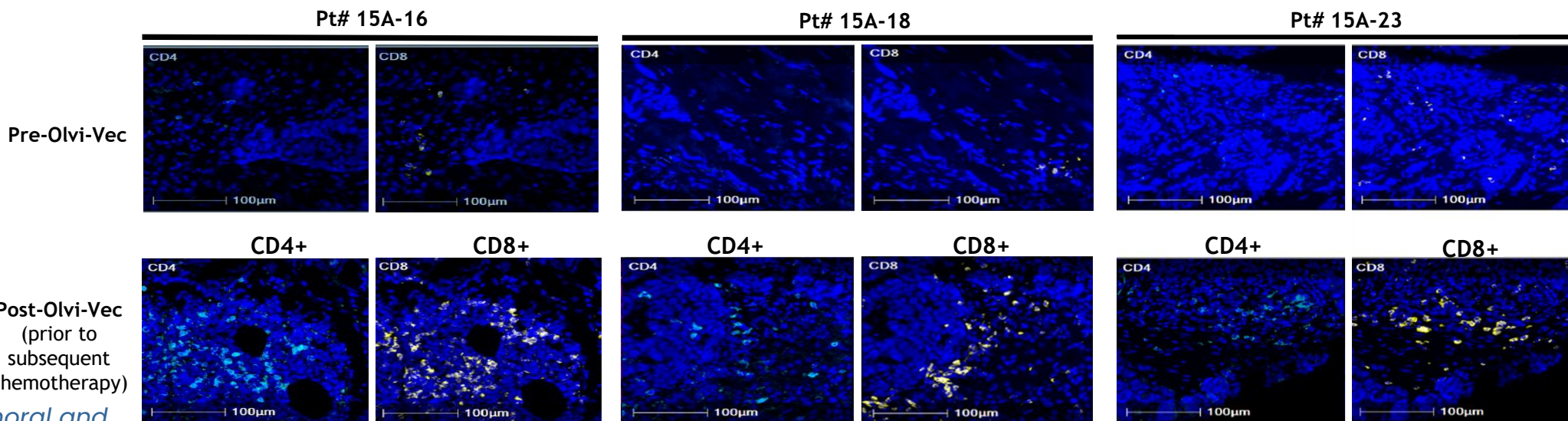
- Olvi-Vec treatment was able to dramatically decrease or eliminate tumor cells in multiple patient samples
- The Activation of Immunosurveillance by Olvi-Vec after 2 doses was seen in multiple cavities as monotherapy



# CD8+ T-cells: Infiltrating Lymphocytes are Prognostic for Response/Survival

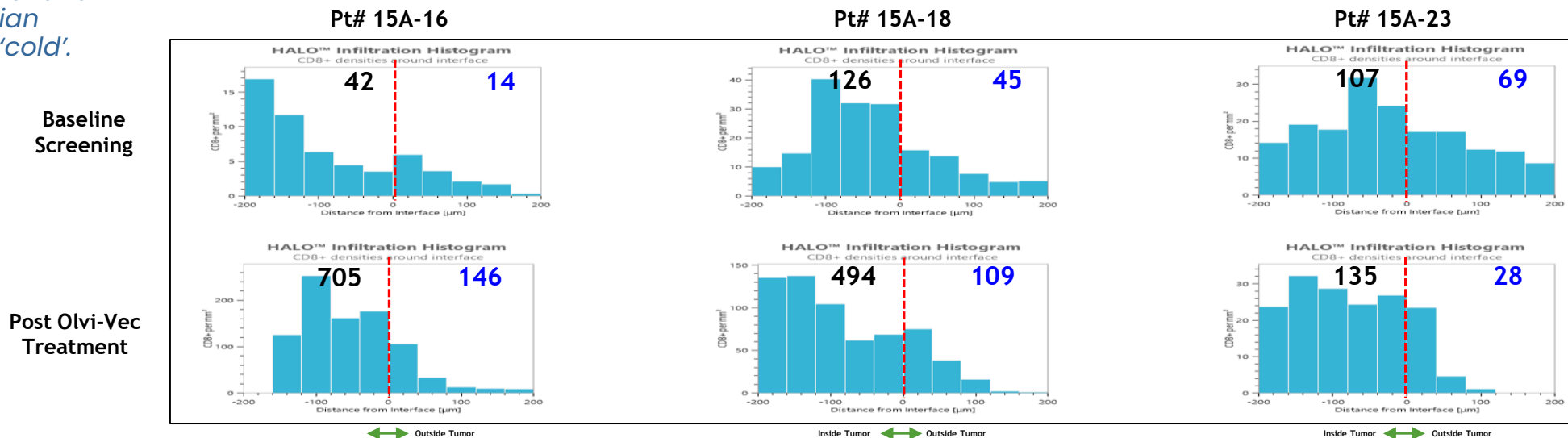
Data from Phase 1b Monotherapy portion of VIRO-15 trial

**Olvi-Vec  
Induced Infiltration  
of CD8+ cells into  
Tumors**



*Endogenous TILs (intra-tumoral and stromal) are very low in ovarian cancer, i.e., immunologically 'cold'.*

**Shift of CD8+  
cells into  
epithelial  
tumor tissue**



# Long-lasting, Tumor-specific T cell Response Corresponds to Tumor Reduction

Data from Phase 1b Monotherapy portion of VIRO-15 trial

## Key Takeaways

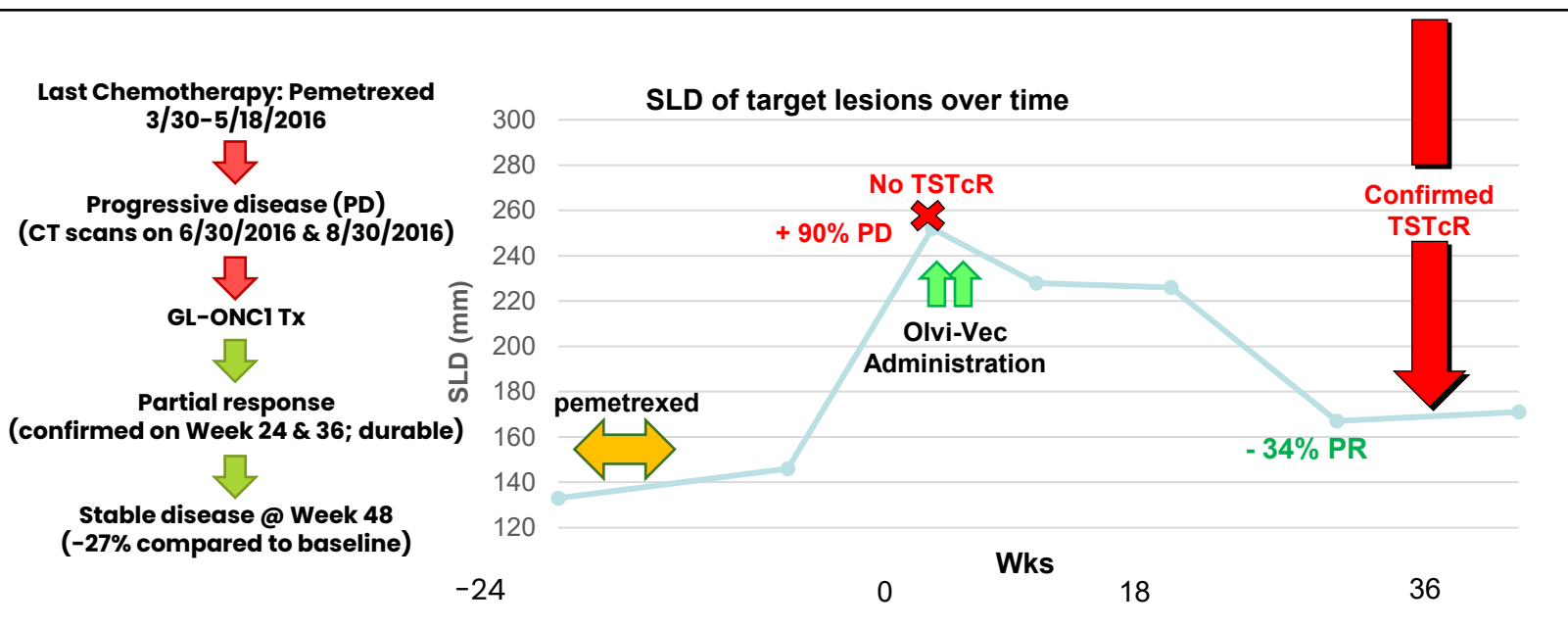
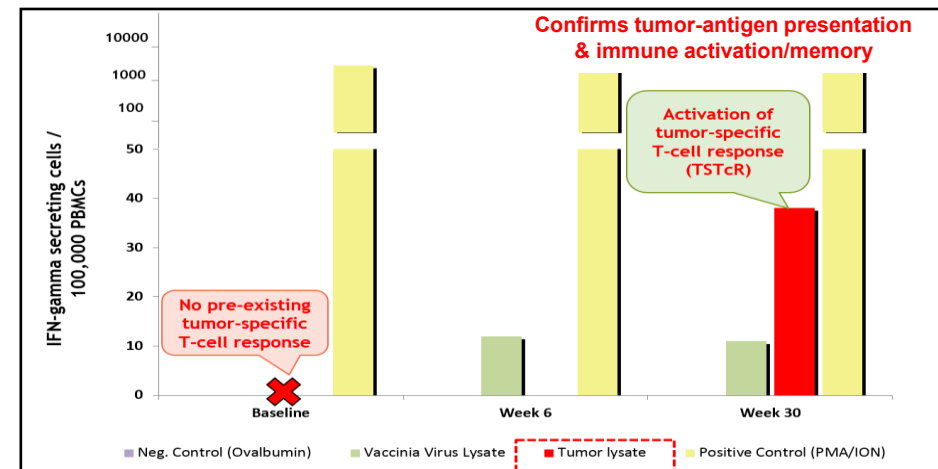
**Off-the-Shelf Personalized Medicine: Single Agent generates Individualized Results**

- Olvi-Vec induces favorable & long-lasting Tumor-specific T-cell Response (TSTcR) by ELISPOT analysis in patient in heavily treated patient w/ 9 prior regimens of chemo; no Tumor-specific T-cell response at baseline
- Documented OR from Olvi-Vec treatment after failure of last chemotherapy

### Case Report (Pt #15A-05)

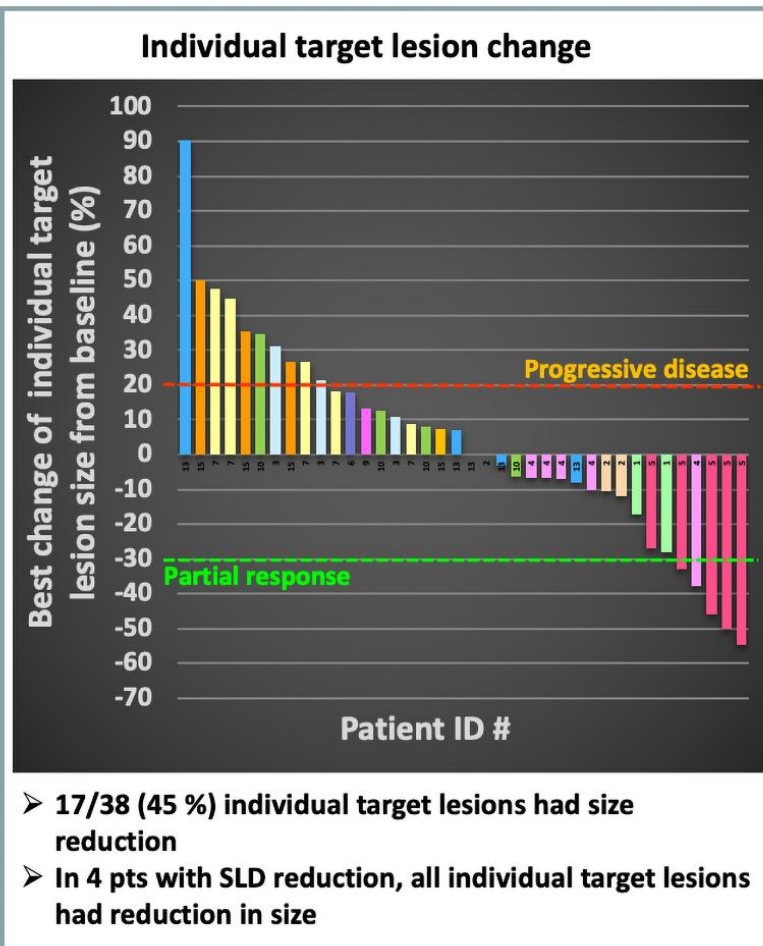
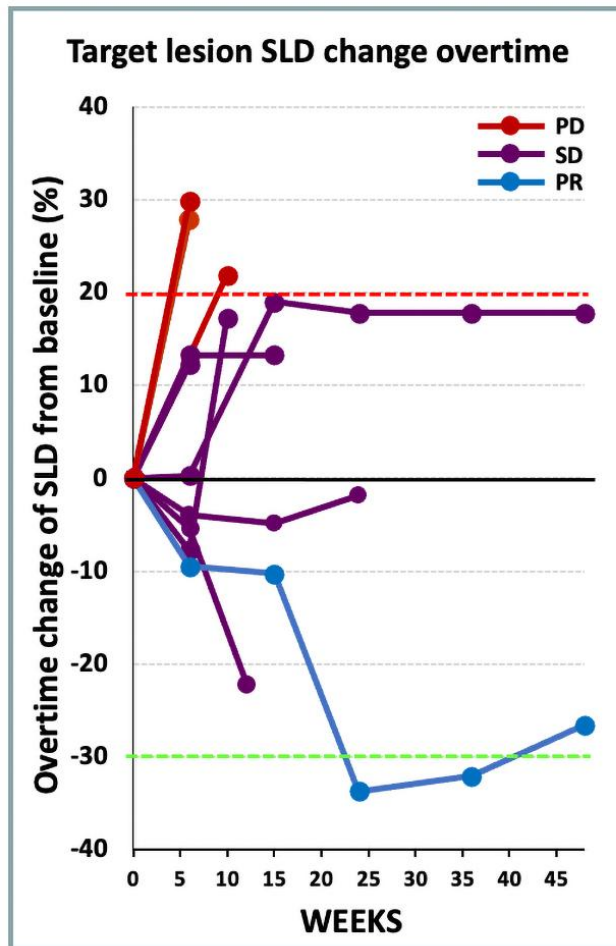
**Heavily pre-treated:**  
9 prior regimens of chemo+Avastin;  
no pre-existing tumor-specific T-cells

**Post treatment:**  
Consequential amount (~3%) of all activatable T cells at Week 30 are tumor-specific T-cells



# Olvi-Vec Demonstrated Anti-Tumor Response & Disease Control Observed

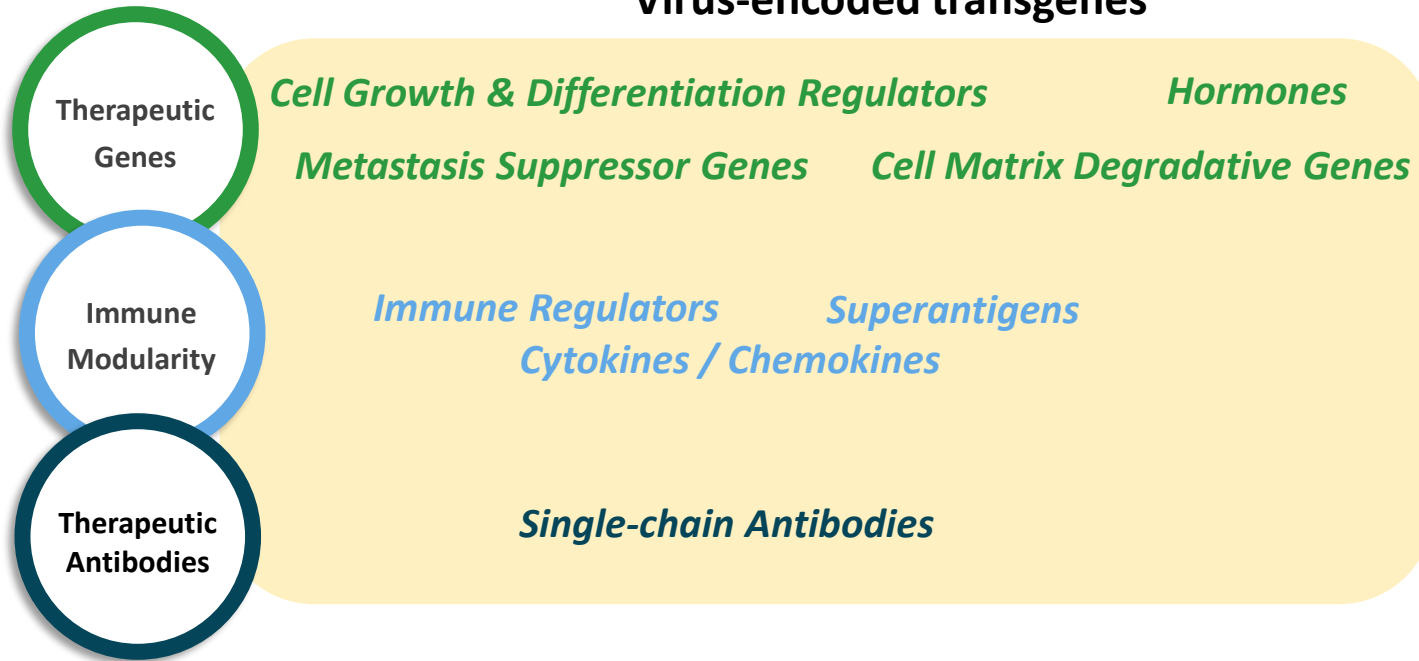
Data from Phase 1b Monotherapy portion of VIRO-15 trial



# Choice Platform Library: 500+ Vectors with 110+ Transgenes

Engineered and selected clonal isolated (non-GMO)  
viral strains identified from  
*in vitro* and *in vivo* selection criteria

## Virus-encoded transgenes



✓ *In vitro* & *in vivo* tested: GLP Tox ready

## Immune Modularity Molecules

- *IL-6/sIL-6R*
- *IL-24*

## Cell Growth & Differentiation Regulators

- *BMP-4*

## Cell Matrix-Degradative Genes

- *hMMP9*

## Clonal Isolated Strains (non-GMO)

- *LIVP1.1.1*
- *LIVP5.1.1*
- *V-VET1 (LIVP6.1.1)*
- *Cop15.1.1*

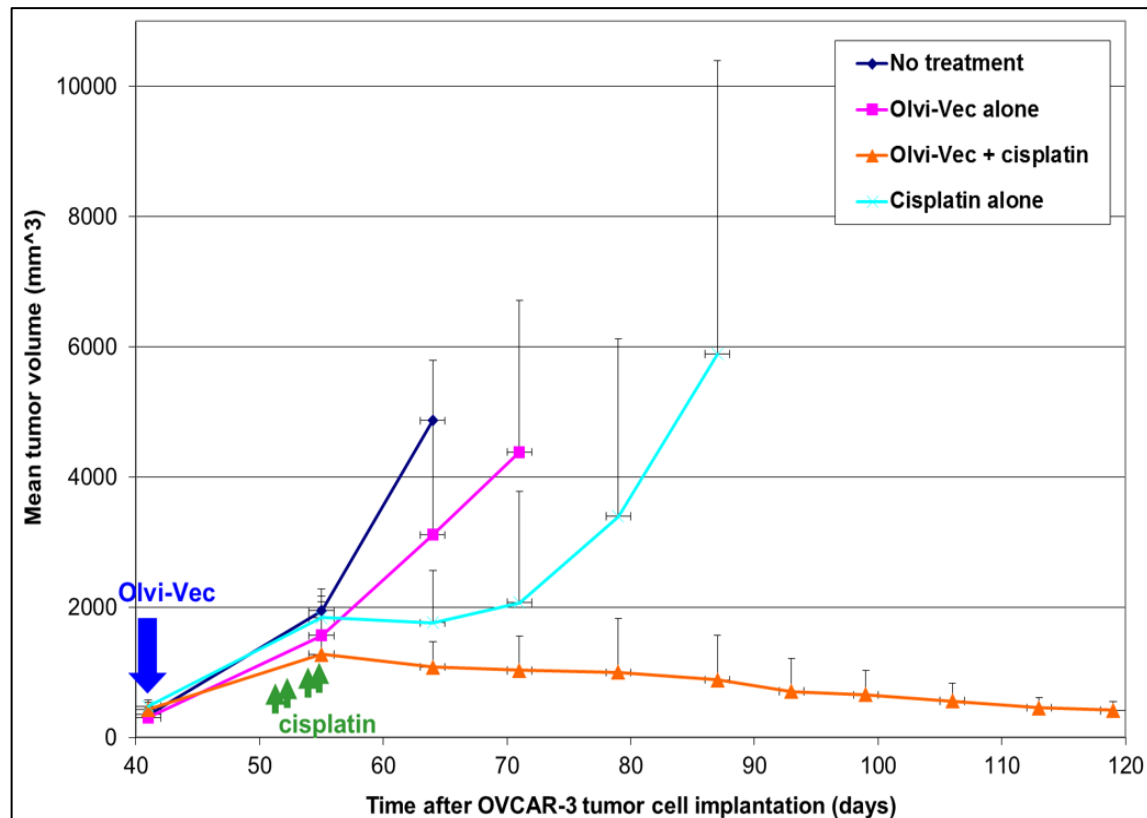
## Single-Chain Antibodies

- *Anti-VEGF*
- *Anti-PD-1*
- *Anti-FAP*
- *Anti-PD-L1*
- *Anti-DLL4*
- *Anti-CTLA4*
- *Anti- $\alpha$ v $\beta$ 3-integrin*

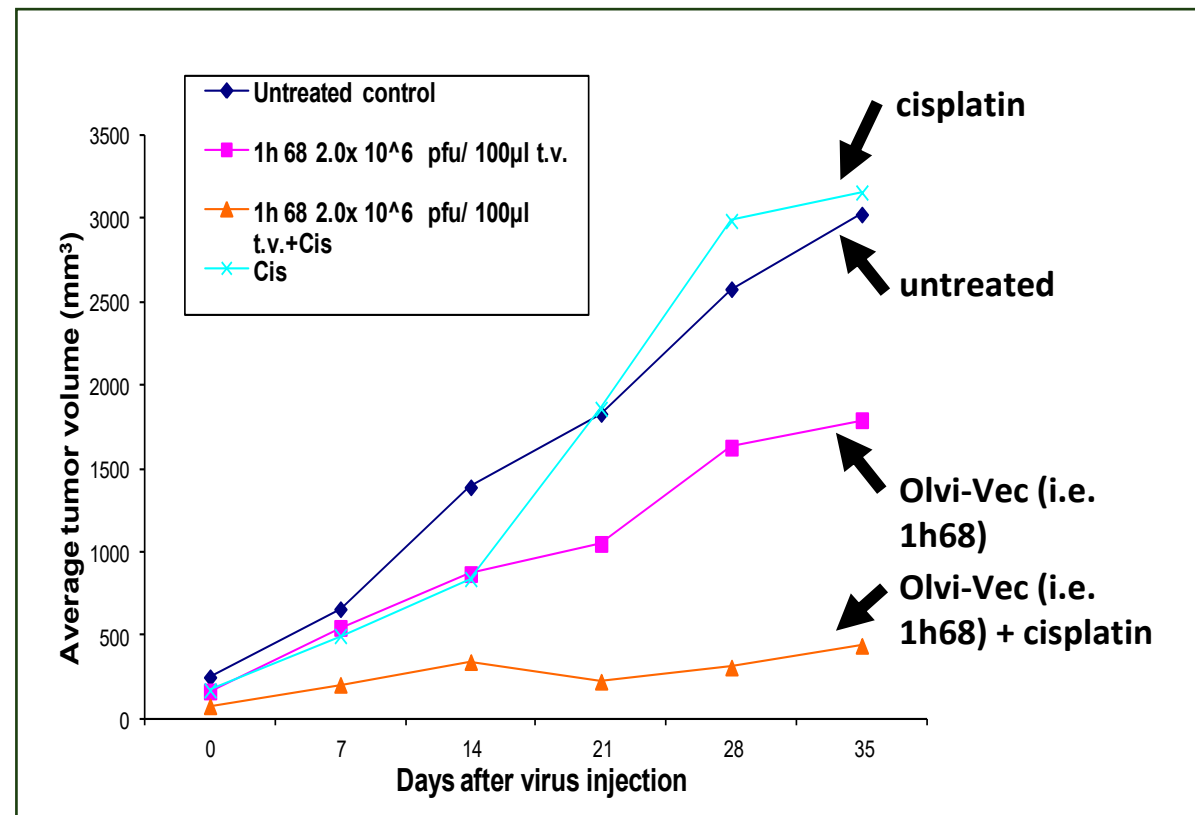
# Olvi-Vec & Cisplatin Demonstrate Activity in Animal Models with Platinum-resistant Cancer Lines

## Synergistic and Durable Antitumor Activity

Ovarian Cancer  
(OVCAR-3 cell line)

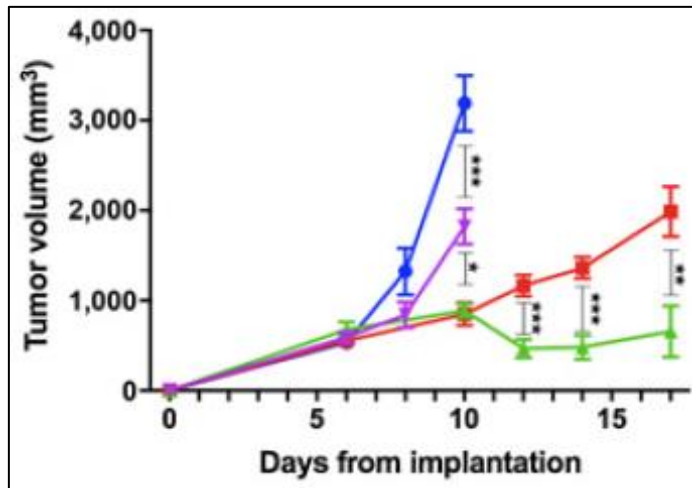
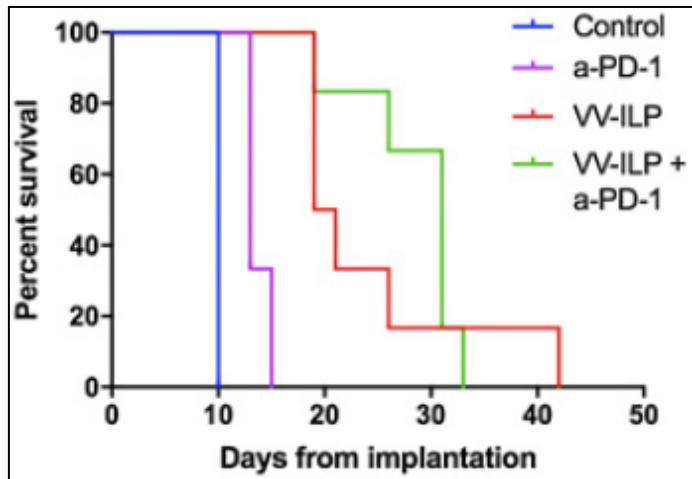


Melanoma  
(WM266.4 cell line)

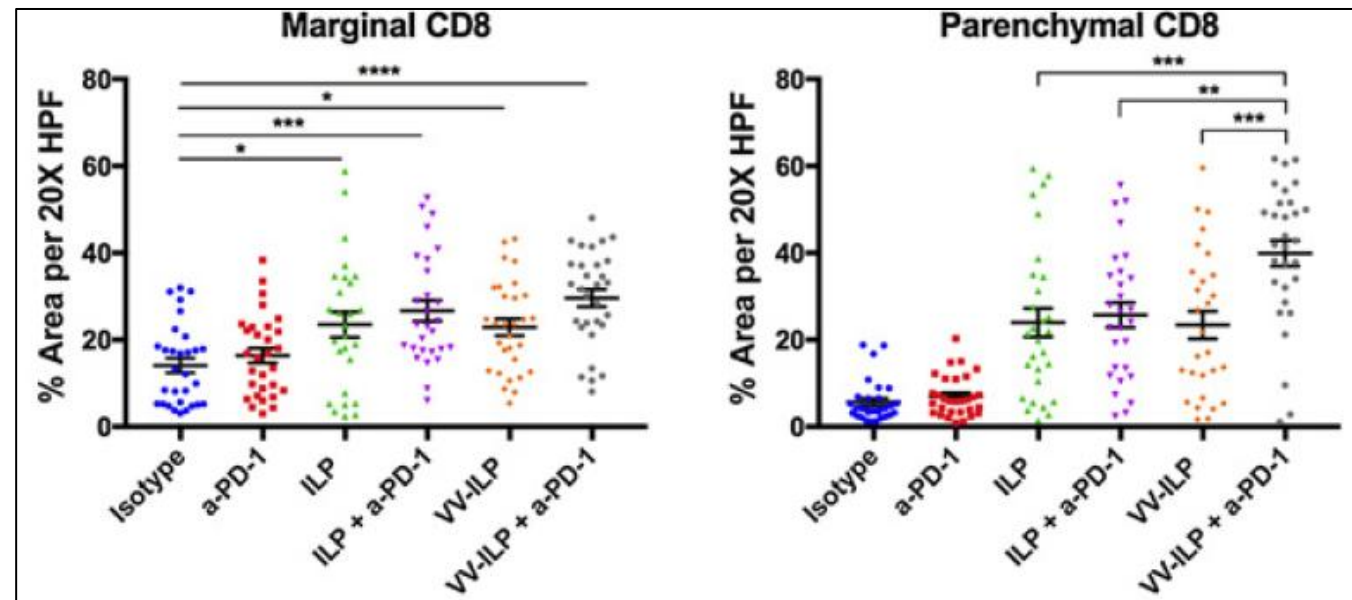


# Olvi-Vec & anti-PD-1: Enhanced Activity in Immune-competent Animal Model

## Pre-clinical Support for Treatment-naïve Resectable Non-small Cell Lung Cancer



- Prolonged survival and enhanced anti-tumor activity from combination of oncolytic vaccinia virus Olvi-Vec (VV-ILP) and immune checkpoint inhibitor (anti-PD-1) were observed in immune-competent soft-tissue sarcoma model in preclinical animal studies (left panel figures: top & bottom).
- The density of CD8<sup>+</sup> cytotoxic T cells at both the invasion margin and within the parenchyma was significantly increased the most with virus (VV-ILP) and PD-1 blockade (anti-PD-1) (panel below).



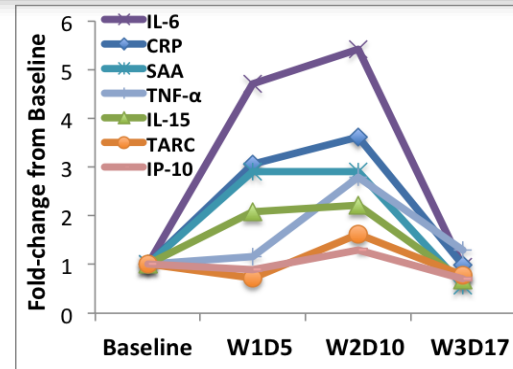
Smith et al., Clin Cancer Res 2019 (25) (11) 3443-54

# Olvi-Vec: Ideal Backbone for Combination Therapy

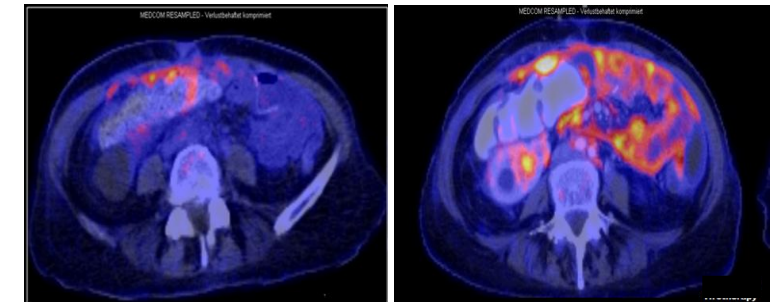
## Converts Tumor Microenvironment to Inflammatory "Hot Spot"

Induction of acute inflammatory cytokines (Th1-type related)

*VIRO-15 Study*



*NCT01443260/TUE Study*



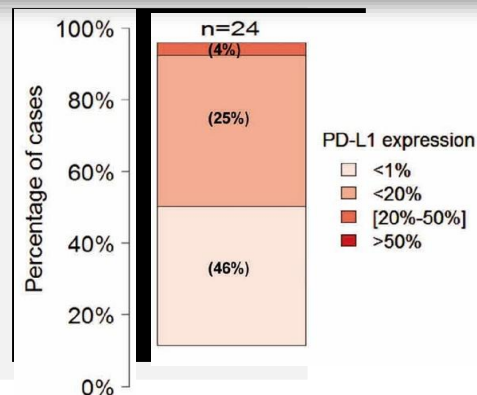
Baseline

Massive inflammatory response after (C1D24) single dose of virus

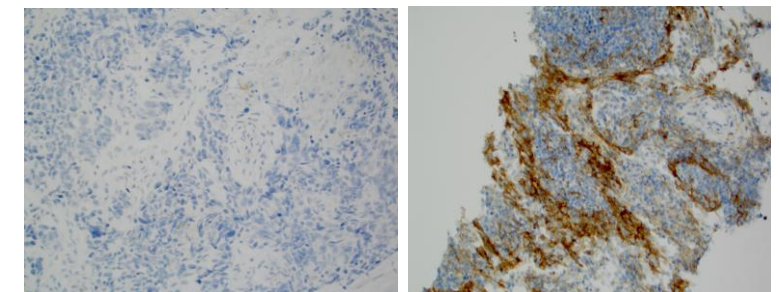
## Up Regulates Immunomodulatory Target Proteins, such as PD-L1

Endogenous PD-L1 expression in ovarian tumor is low, hence limiting target by anti-PD-1/PD-L1 therapy

*Rodriguez-Freixinos et al. J Clin Oncol 36, 2018 (suppl; abstr 5595)*



*PD-L1: VIRO-15 Study (monotherapy)*



Baseline

Post treatment (20d) Strong PD-L1 staining at the tumor-stromal interface