

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 8-K
Current Report

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (date of earliest event reported): June 30, 2026

IOVANCE BIOTHERAPEUTICS, INC.
(Exact Name of Registrant as Specified in Charter)

Delaware
(State of Incorporation)

001-36860

Commission File Number

75-3254381

(I.R.S. Employer Identification No.)

825 Industrial Road, Suite 100
San Carlos, California

(Address of Principal Executive Offices)

94070

(Zip Code)

(650) 260-7120

(Registrant's Telephone Number, Including Area Code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- ☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425).
- ☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12).
- ☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)).
- ☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)).

Indicate by check mark whether the registrant is an emerging growth company as defined in as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter). Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock, par share \$0.000041666 per share	IOVA	The Nasdaq Stock Market, LLC

Item 8.01 Other Events.

On June 30, 2026, Iovance Biotherapeutics, Inc. (the “Company”) updated its corporate presentation that it uses for presentations at healthcare conferences and to analysts, current stockholders, and others. A copy of the Company’s presentation that it intends to use at such events is attached as Exhibit 99.1 and is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description
99.1	Iovance Biotherapeutics, Inc., Corporate Presentation – June 2026
104	Cover Page Interactive Data File (embedded as Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this Report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: July 2, 2026

Iovance Biotherapeutics, Inc.

By: /s/ Frederick G. Vogt
Name: Frederick G. Vogt, Ph.D., J.D.
Title: Interim CEO and President, and General Counsel



Corporate Overview

June 2026

ADVANCING IMMUNO-ONCOLOGY

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Forward-Looking Statements

Certain matters discussed in this presentation are “forward-looking statements” of Iovance Biotherapeutics, Inc. (hereinafter referred to as the “Company,” “we,” “us,” or “our”) within the meaning of the Private Securities Litigation Reform Act of 1995 (the “PSLRA”). Without limiting the foregoing, we may, in some cases, use terms such as “predicts,” “believes,” “potential,” “achievable,” “continue,” “estimates,” “anticipates,” “expects,” “plans,” “intends,” “forecast,” “guidance,” “outlook,” “may,” “can,” “could,” “might,” “will,” “should,” or other words that convey uncertainty of future events or outcomes and are intended to identify forward-looking statements. Forward-looking statements are based on assumptions and assessments made in light of management’s experience and perception of historical trends, current conditions, expected future developments, and other factors believed to be appropriate. Forward-looking statements in this presentation are made as of the date of this presentation, and we undertake no duty to update or revise any such statements, whether as a result of new information, future events or otherwise. Forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties, and other factors, many of which are outside of our control, that may cause actual results, levels of activity, performance, achievements, and developments to be materially different from those expressed in or implied by these forward-looking statements. Important factors that could cause actual results, developments, and business decisions to differ materially from forward-looking statements are described in the sections titled “Risk Factors” in our filings with the U.S. Securities and Exchange Commission, including our most recent Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, and include, but are not limited to, the following substantial known and unknown risks and uncertainties inherent in our business: the risks related to our ability to successfully commercialize our products; the acceptance by the market of our products and product candidates, if approved, and their potential pricing and/or reimbursement by payors, and whether such acceptance is sufficient to support continued commercialization or development of our products or product candidates; the risk regarding our ability to manufacture our therapies at our Iovance Cell Therapy Center facility, including the risk that our ability to increase manufacturing capacity at our facility may adversely affect our commercial launch; the risk that the successful development or commercialization of our products may not generate sufficient revenue from product sales, and we may not become profitable in the near term, or at all; the risks related to the timing of and our ability to successfully develop, submit, obtain, or maintain regulatory authority approval of our product candidates; whether clinical trial results from our pivotal studies and cohorts, and meetings with regulatory authorities may support registrational studies and subsequent approvals by regulatory authorities, including the risk that the planned registrational trial in advanced sarcomas may not support approval; preliminary and interim clinical results, which may include efficacy and safety results, from ongoing clinical trials or cohorts may not be reflected in the final analyses of our ongoing clinical trials or subgroups within these trials or in other prior trials or cohorts; the risk that we may be required to conduct additional clinical trials or modify ongoing or future clinical trials based on feedback from regulatory authorities; the risk that our interpretation of the results of our clinical trials or communications with regulatory authorities may differ from the interpretation of such results or communications by such regulatory authorities; the risk that clinical data from ongoing clinical trials of Amtagvi will not continue or be repeated in ongoing or planned clinical trials or may not support regulatory approval or renewal of authorization; the risk that unanticipated expenses may decrease our estimated cash balances and forecasts and increase our estimated capital requirements; the risk that we may not be able to recognize revenue for our products; the risk that Proleukin revenues, and other factors such as the number of authorized treatment centers, may not serve as a leading indicator for Amtagvi revenues; the risks regarding our anticipated operating and financial performance, including our financial guidance and projections; the effects of global and domestic geopolitical factors or public health events; and other factors, including general economic conditions and regulatory developments, not within our control. Any financial guidance provided in this presentation assumes the following: no material change in our ability to manufacture our products; no material change in payor coverage; no material change in revenue recognition policies; no new business development transactions not completed as of the period covered by this presentation; and no material fluctuation in exchange rates.

Global Leadership in Innovating, Developing and Delivering TIL Therapy for Patients with Cancer

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Approved
Products

AMTAGVI
(lifileucel)

U.S., Canada & Australia

PROLEUKIN
(aldesleukin)

Multiple Markets Globally

>1,500

Patients treated with commercial and clinical Iovance TIL products

Commercial Launch

~95%

Addressable Patients
within 200 miles of an ATC

>90

Treatment Centers
as of 05/07/26*

~45%

Year-Over-Year Quarterly
Revenue Growth

Financials

Full Year 2026 Revenue Guidance

\$350M — \$370M

Q2 2026 Revenue Guidance

\$86M — \$88M

Cash as of 3/31/26

~\$319M

*Includes centers in final stages of readiness or soon to be authorized.
Abbreviations: FDA, U.S. Food and Drug Administration

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The Pioneer in One-Time Cell Therapy for Solid Tumors

Platform Technology and Robust Pipeline in Blockbuster Solid Tumor Indications

AMTAGVI¹
(lifileucel)

PROLEUKIN²
(dinutuximab)

\$1B+
U.S. Sales Potential in
2L+ Advanced Melanoma

~7X U.S. Melanoma
Opportunity
in 2L mNSCLC*

Operational Excellence
Focused on Profitability

- First and only approved treatment in 2L+ advanced melanoma
- **~45% YoY growth** in 1Q26
- Total revenue of \$350M — \$370M expected for FY26
- **5-year durability:** 31.4% ORR; 19.7% OS; mDOR of 36.5 months¹
- **Real-world ~44% ORR;** 52% ORR in patients with ≤ 2 prior lines of therapy²

- **High unmet need** with limited treatment options
- SOC: 12.8% ORR; 5.6 months mDOR; 12.3 months mOS³
- **Potential best-in-class lifileucel clinical profile:** 25.6% ORR; mDOR not reached at 25.4 months follow up⁴
- FTD for NSCLC from U.S. FDA
- Potential launch in 2H27
- **Leverages melanoma** commercial footprint and manufacturing

- **\$319M cash⁵ runway into 2028**
- 41% gross margin in 1Q26 impacted by non-recurring, one-time costs
- **Ongoing initiatives improving OpEx, cost of sales and gross margin**
- Leading IO pipeline in solid tumors
- Internal manufacturing
- 5K+ annual capacity for North America, Europe & APAC
- 1.5K+ commercial and clinical patients treated

1. Medina et al, ASCO 2025. Pooled Analysis (n=153). Heavily Pre-Treated Patient Population; 2. Karapetyan L et al. Transplantation & Cell Therapy 2026. Physician-assessed confirmed ORR by RECIST v1.1. All evaluable patients received commercial Amtagvi according to the U.S. prescribing information; 3. Ahn MJ et al. J Clin Onc 2024;43:260-272. 4. Interim data cut as of October 10, 2025 of patients with non-squamous NSCLC with minimum cell dose based on FDA feedback for melanoma. Patients progressed on or after chemotherapy and anti-PD-1 therapy for mNSCLC without EGFR, ROS1 or ALK genomic mutations and received at least one line of FDA-approved targeted therapy if indicated by other actionable tumor mutation; 5. As of March 31, 2026

*Non-squamous mNSCLC without EGFR, ROS1 or ALK genomic mutations

Abbreviations: 2L, second line; FTD, fast track designation; mDOR, median duration of response; mNSCLC, metastatic non-small cell lung cancer; OpEx, operating expenses; ORR, objective response rate; mOS, median overall survival; SOC, standard of care

Strong Platform Supports Backbone IO Therapy for Solid Tumors

Iovance Retains Global Portfolio and Technology Platform Rights



Approved



U.S.



Australia



Canada

Under Review



Switzerland (Potential Approval 1H2027)

Resubmission 2026



UK



EU



Amtagvi
Treatment
Regimen

Additional
Clinical &
Commercial Use



		INDICATION & TREATMENT SETTING	PHASE 1	PHASE 2	PHASE 3
Registration-Directed	Lifileucel + pembrolizumab	Frontline advanced melanoma	TILVANCE-301 (FTD, Confirmatory)		
	Lifileucel	Post-chemo & anti-PD-1 advanced NSCLC	IOV-LUN-202 (FTD)		
	Lifileucel	Post-chemo advanced soft tissue sarcomas (DDLPS or UPS)	IOV-SAR-201		
Lifileucel Pipeline	Lifileucel	Post anti-PD-1 advanced melanoma	IOV-MEL-202*		
	Lifileucel	Post-chemo & anti-PD-1 endometrial cancer	IOV-END-201		
Next-Generation Products	PD-1 Inactivated TIL (IOV-4001)	Post anti-PD-1 advanced melanoma or NSCLC	IOV-GM1-201		
	IL-2 analog (IOV-3001)	TIL treatment regimen	IOV-IL2-101		
	IL-12 tethered TIL (IOV-5001)	Post-ICI CRC, TNBC, Estrogen Receptor Low Breast Cancer	IOV-GE1-201**		

*Enrollment complete. **Planned to commence in 2H 2026;

Abbreviations: 2L, second line; 4L, fourth line; CRC, colorectal cancer; DDLPS, dedifferentiated liposarcoma; FTD, Fast Track Designation; IO, immuno-oncology; IL-2, interleukin 2; IL-12, interleukin 12; NSCLC, non-small cell lung cancer; PD-1, programmed cell death protein-1; TNBC, triple negative breast cancer; UPS, undifferentiated pleomorphic sarcoma

AMTAGVI[™]
(lifileucel) Suspension
for IV infusion

**First FDA-approved One-time, Individualized
T cell Therapy for a Solid Tumor Cancer**

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Advanced Melanoma Market Opportunity

Significant Unmet Need in Frontline and Beyond¹

2L+ Advanced
Melanoma Population^{2,3}

US:
8.5K

Potential
ex-US Markets:
22K

Overall (1L+):
70K

>50% of patients on 1L standard of
care progress within 12 months⁴⁻⁶

mOS after
Progression on
1L Therapy:⁷

~5 months

BRAF wild-type
(prior ICI therapy)

~3 months

BRAF mutated
(prior ICI and targeted therapy)

1. Chesney J, et al. J Immunother Cancer. 2022; 2. National Cancer Institute Surveillance, Epidemiology and End Results (SEER) Program, 2026 Estimates. <https://seer.cancer.gov/> accessed June 2026; World Health Organization International Agency for Research on Cancer (IARC). GLOBOCAN 2022; 3. Data on file as of July 2025. Includes more than 20,000 patients initial target markets plus additional potential markets; 4. Larkin J, Chanson S, et al. NEJM. 5. Robert C, et al. Lancet. 6. Tawbi HA, Schadendorf D, Lipson EJ, et al. NEJM. 7. Pathinely JR et al. Cancer 2020.

Abbreviations: 1L, first line; ICI, immune checkpoint inhibitors; mOS, median overall survival; mPFS, median progression-free survival; PD (L)1, programmed death receptor 1 or programmed death ligand

Deep and Durable Responses at 5-Year Follow Up¹

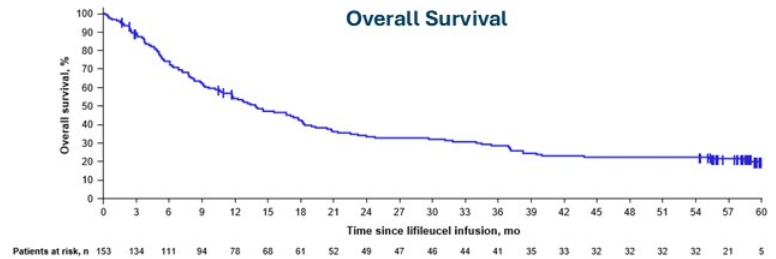
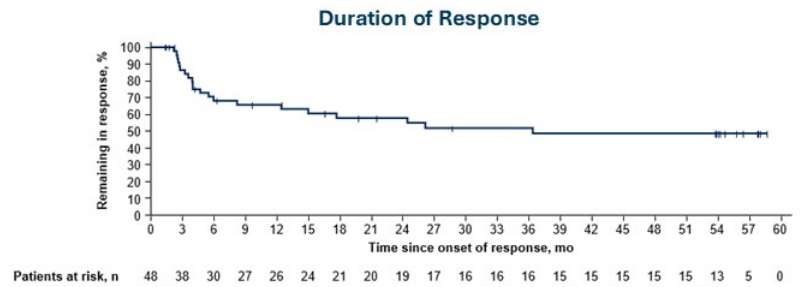
One Third of Responses Remain Ongoing without Subsequent Treatment

ORR
31.4%

mDOR
36.5 Months
Median Follow Up
57.8 Months

5-Year OS
19.7%

mOS
13.9 Months



1. Medina et al, ASCO 2025. Pooled Analysis (n=153), Heavily Pre-Treated Patient Population
Abbreviations: mDOR, median duration of response; mOS, median overall survival; NR, not reached; ORR, objective response rate

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Best-in-class real-world data driving increased Amtagvi adoption¹

Unprecedented Real-World Response Rates

44% ORR

(18/41)

73% DCR

(30/41)

Higher Response Rates with Earlier Treatment

52% ORR_(12/23)

≤ 2 prior lines of therapy

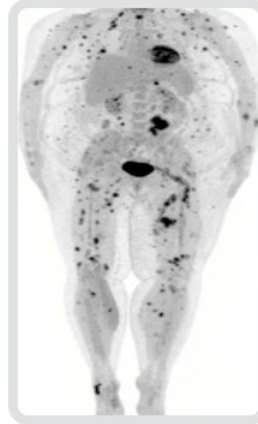
33% ORR_(6/18)

≥ 3 prior lines of therapy

Durable Ongoing Partial Response (PR)²

Significant tumor burden reduction at Week 6

Before Lifileucel



Post-Lifileucel (Week 6)



¹ Karapetyan L et al. Transplantation & Cell Therapy 2026

² Three Prior Lines of Therapy (1L-3L): 1L ipilimumab + nivolumab; 2L dabrafenib + trametinib; 3L nivolumab + relatlimab. 86% reduction in target lesions. Response ongoing at 260-day follow up. Photo Credit and Permission: H. Lee Moffitt Cancer Center

Amtagvi® Patient Journey

Broad payer Coverage Consistent with Amtagvi Label, Clinical Trials and NCCN Guidelines



- Modular design
- Global supply and logistics
- Capacity for up to 5K patients/year
- Optimal utilization, quality & COS

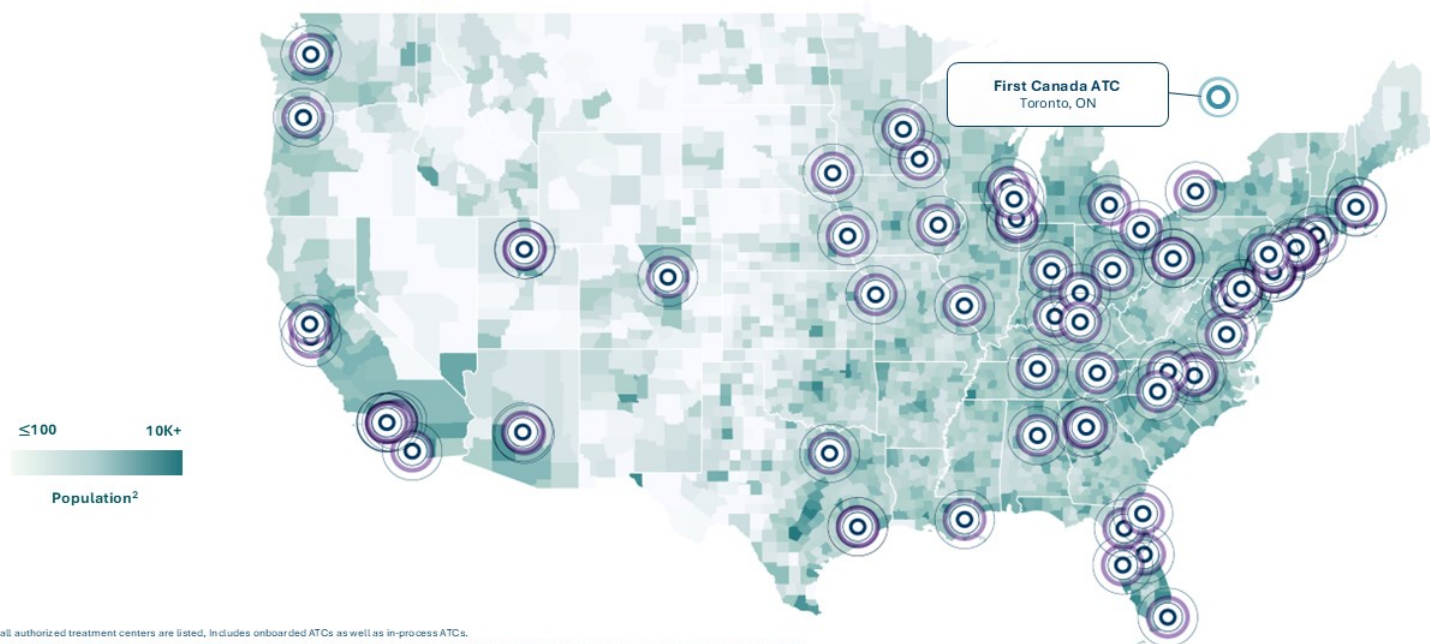
COS = cost of sales

Manufacturing Facility Dedicated to Commercial and Clinical TIL Cell Therapies



Amtagvi® Authorized Treatment Centers (ATC)

Over 90 Authorized ATCs, including First Canada ATC



1. Not all authorized treatment centers are listed. Includes onboarded ATCs as well as in-process ATCs.
2. U.S. Census Bureau, 2024 Annual Estimates. SEER annual estimated death rate from melanoma: 2 deaths per 100K people; <https://seer.cancer.gov/> (accessed June 2026)
3. Internal data

Broad Market Access

Payer Medical Coverage Policies Consistent with Amtagvi Label, Clinical Trials and NCCN guidelines

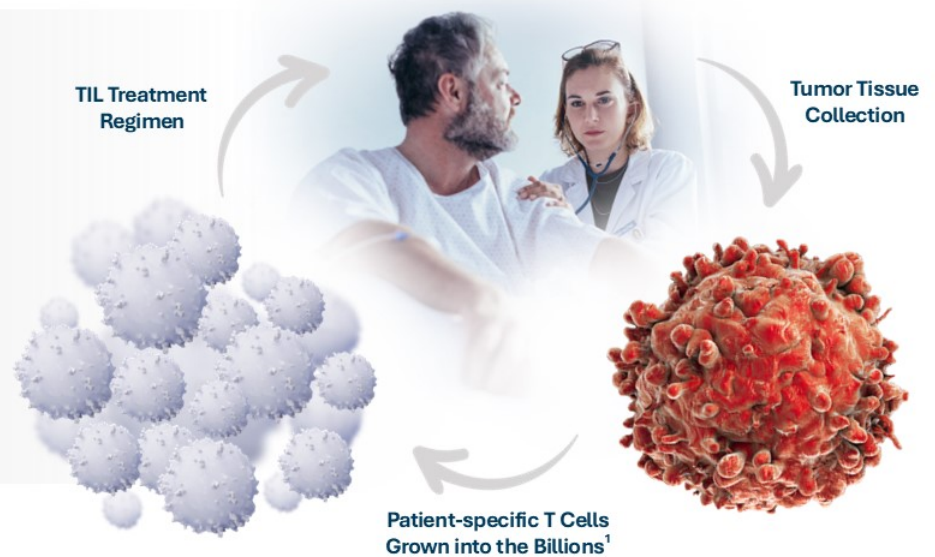


Data on file as of July 2025.
*Plans or policies that cover Amtagvi, including pharmacy benefit managers (PBMs)
Abbreviations: NCCN, National Comprehensive Cancer Network

Tumor Infiltrating Lymphocytes (TIL): Leading Cell Therapy Platform for Solid Tumors

Unique Mechanism of Action

- Individualized
- One-time therapy
- Patient's T cells fight cancer



1. Amtagvi USPI

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Amtagvi® Expansion Plans in Advanced Melanoma

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Unprecedented Rate, Depth & Durability of Responses in Frontline Advanced Melanoma

Data support rationale for TILVANCE frontline study:¹

65.2%

ORR via RECIST v 1.1

30.4%

CR

64.7%

PFS at 6 & 12 months

- Median PFS and median DOR not reached at nearly 2 years of median follow up (median follow up 21.7 months)
- All response-evaluable patients demonstrated regression of target lesions
- Safety consistent with underlying disease and known safety profiles of pembrolizumab, NMA-LD, lifileucel, and IL-2
- Late AEs consistent with anti-PD-1 monotherapy, differentiated from ICI combination therapies

1. Thomas et al, ASCO 2024; Data on file as of May 31, 2024.

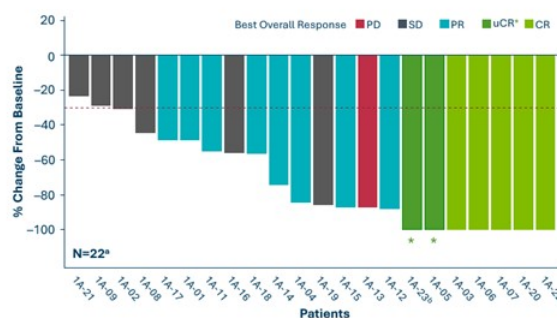
*Unconfirmed CRs, confirmed following data cut.

†One patient without a postdose tumor response assessment was not included.

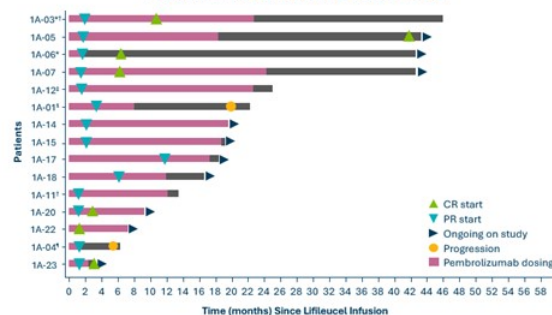
‡Target lesion lymph node at baseline decreased by 50% is no longer pathological, and thus is shown here as -100% representing uCR.

Abbreviations: CI, confidence interval; CR, complete response; DOR, duration of response; ICI, immune checkpoint inhibitor; ORR, objective response rate; PD, progressive disease; PFS, progression-free survival; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumors; SD, stable disease; SOD, sum of diameters; AE, adverse event; IL-2, interleukin-2; NMA-LD, nonmyeloablative lymphodepletion

Best Percentage Change from Baseline in Target Lesion SOD

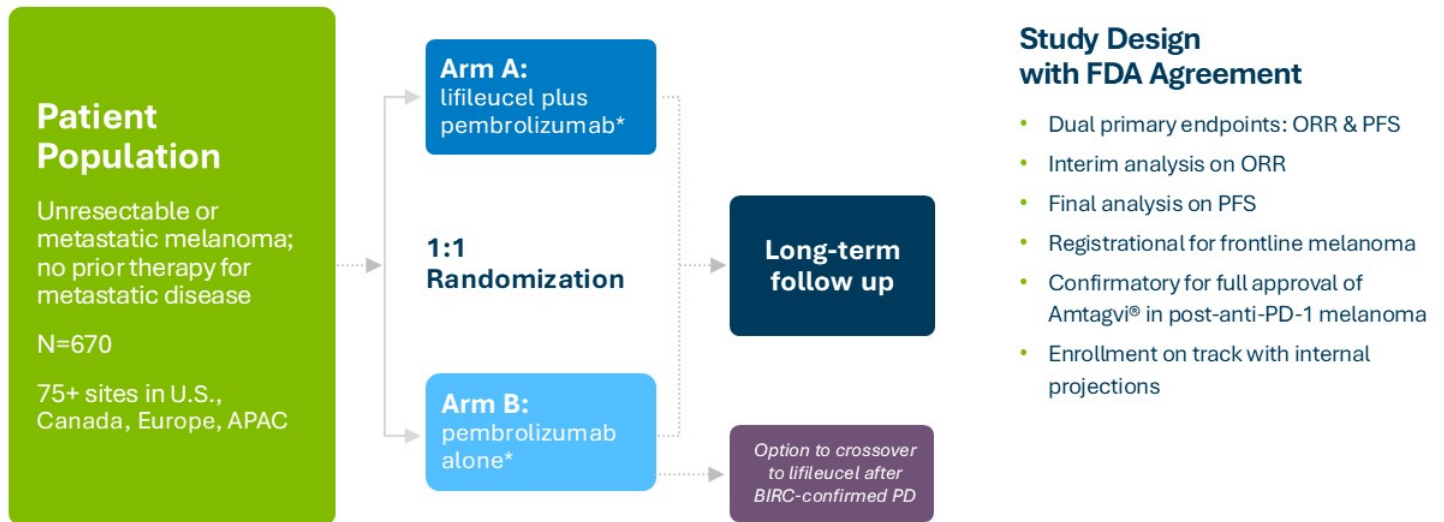


Time to Response and Time of Efficacy Assessment for Confirmed Responders (PR or Better)



TILVANCE-301 Global Phase 3 and Confirmatory Trial

Randomized, Multicenter Study with Optional Crossover to Lifileucel (NCT05727904)



*Pembrolizumab in both arms is started at the same time after randomization.

Abbreviations: BIRC, blinded independent review committee; ORR, objective response rate; PD, progressive disease; PD-1, programmed cell death protein-1; PFS, progression free survival

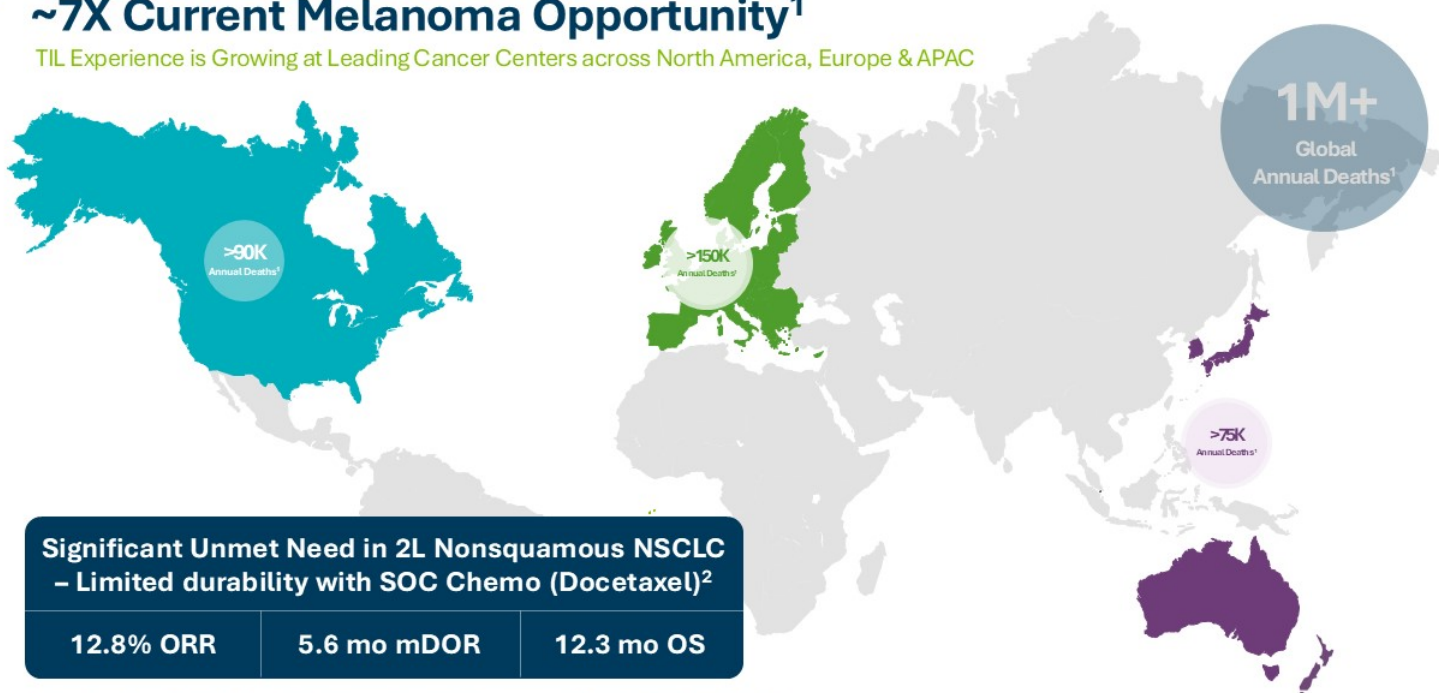
TIL Therapy Pipeline

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Global NSCLC Commercial Opportunity ~7X Current Melanoma Opportunity¹

TIL Experience is Growing at Leading Cancer Centers across North America, Europe & APAC



1. Data on file as of November 2025, includes targeted patient population in potential future commercial markets. 2. Ahn MJ et al. J Clin Oncol 2024;43:260-272.

Abbreviations: APAC, Asia Pacific; mDOR, median duration of response; mo, month; NSCLC, non-small-cell lung cancer; ORR, objective response rate; OS, overall survival; SOC, standard of care

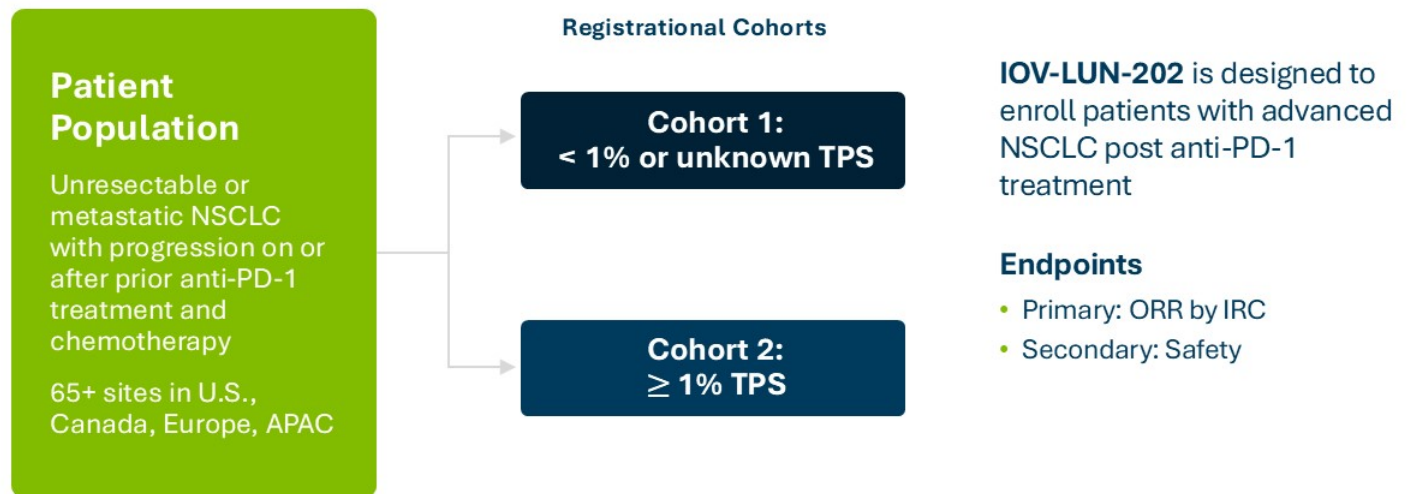
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IOV-LUN-202 Registrational Trial Design

Phase 2 Multicenter Study of Lifileucel in Post-Anti-PD-1 NSCLC (NCT04614103)



Abbreviations: Anti-PD-1, anti-programmed cell death inhibitor; IRC, independent review committee; NSCLC, non-small cell lung cancer; ORR, objective response rate; TPS, tumor proportion score

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Fast Track Designation in Second-Line Nonsquamous mNSCLC

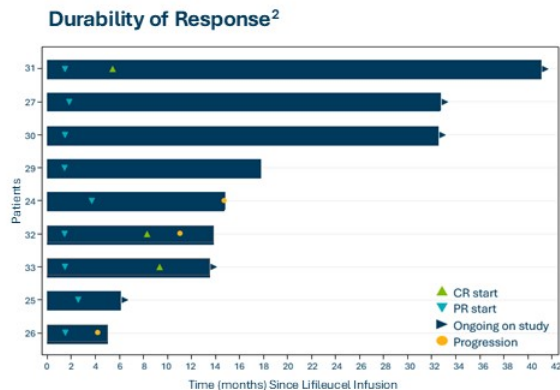
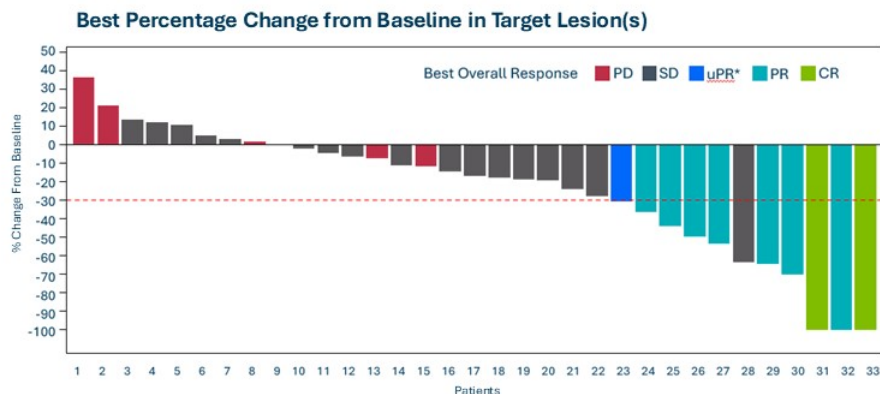
One-Time Therapy with Unprecedented Durability and Potential Best-in-Class Clinical Profile¹

25.6% ORR

(n=39; RECIST 1.1)

mDOR Not Reached

(Median follow up: 25.4 months)



¹Interim data cut as of October 10, 2025 of patients with nonsquamous NSCLC with minimum cell dose based on FDA feedback in melanoma. Patients progressed on or after chemotherapy and anti-PD-1 therapy for mNSCLC without EGFR, ROS1 or ALK genomic mutations and received at least one line of FDA-approved targeted therapy if indicated by other actionable tumor mutations. ²Time to response, time on assessment for confirmed responders (PR or better). A bar is presented for each patient starting from date of lifileucel infusion up to date of new anti-cancer therapy, end of assessment, death, or data cutoff date, whichever occurs earlier. *Patient 23 in ongoing follow up to confirm PR.

Abbreviations: CR, complete response; mNSCLC, metastatic non-small cell lung cancer; ORR, objective response rate; PD, progressive disease; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumors; SD, stable disease; uPR, unconfirmed partial response

Cohort 3A Results Support Adding TIL Therapy to Frontline NSCLC¹

PD-L1 Negative, EGFR^{WT} Subgroup has a High Unmet Need²

64.3% ORR EGFR^{WT}

↳ **54.5% ORR** EGFR^{WT} PD-L1 Negative
by RECIST 1.1

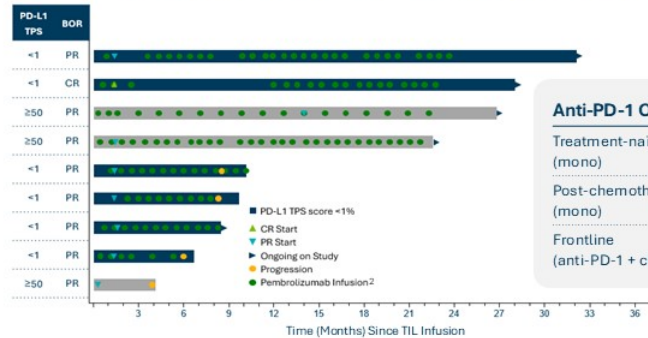
mDOR not reached (median follow up 26.5 months)

- Safety consistent with lovance TIL combination studies
- Supports adding TIL therapy to pembrolizumab plus chemotherapy for frontline NSCLC in IOV-COM-202 cohorts 3D/3E

Best Percentage Change from Baseline in Target Lesion SOD



Time to Response for Confirmed Responders (PR or Better, EGFR^{WT} Patients)



Anti-PD-1 ORR Benchmarks²

Treatment-naïve (mono)	27% (TPS ≥ 1%); 39 - 45% (TPS ≥ 50%)
Post-chemotherapy (mono)	18 - 20%
Frontline (anti-PD-1 + chemo)	48-58%

1. Creelan et al. JTO 2024

2. KEYTRUDA USP; OPDIVO USP

*PR response based on target lesion reduction of 100% with the persistence of nontarget lesions.

Abbreviations: CR, complete response; EGFR, epidermal growth factor receptor; ICI, immune checkpoint inhibitor; NSCLC, non-small-cell lung cancer; ORR, objective response rate; PD, progressive disease;

PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumors; SD, stable disease; SOD, sum of diameter; TPS, tumor proportion score; WT, wild-type

Significant Market Opportunity for Advanced Soft Tissue Sarcomas

Practice-Changing Potential in Rare, High Grade, Aggressive Refractory UPS & DDLPS with Very High Unmet Need

>8K

Patients/yr (US & Europe)

>3K

US annual cases¹

>5K

Europe annual cases²

>3.5K

Patients with advanced disease³

50%

ORR via RECIST v1.1

2.33

Mean Prior Lines of Therapy

117 mm

Baseline Mean SOD

Deep responses improved over time

- All evaluable patients had significant disease burden
- Safety consistent with lifileucel in other indications

Current 2L SOC has low ORR (<5%) with short durability⁴⁻⁶

- No approved ICI options

Phase 2 registrational trial commenced in 2Q 2026

- Targeting expedited pathways for registration
- Plan to explore additional high grade soft tissue sarcoma subtypes

1. CancerMPact Patient Metrics for US Soft Tissue Sarcoma (accessed February 2026); 2. Zhou et al. BMC Public Health 2025; 3. CancerMPact Treatment Architecture for Sarcoma for the US & EU5 (May 2025) to inform treatment rates in the US and EU5.

4. Parikh RC, et al. Cancer. 2018; 5. Italiano A, et al. Ann Oncol. 2012; 6. Jones RL et al. Ann Oncol. 2023.

Abbreviations: 2L, second line; DDUPS, dedifferentiated liposarcoma; DCR, disease control rate; ICI, immune checkpoint inhibitor; ORR, objective response rate; RECIST, Response Evaluation Criteria in Solid Tumors; SOD, sum of diameter (in millimeter); UPS, undifferentiated pleomorphic sarcoma

Strong Initial Data for Serous Advanced Endometrial Cancer

Difficult to Treat Subtype with Very High Unmet Need in 2L+

>40%
of Endometrial Cancer
Deaths are Serous

~13K US annual
endometrial
cancer deaths¹

~90K Global deaths²

19.5% 5-yr survival
(distant metastases)¹

40%

Confirmed ORR via
RECIST v1.1

100%

DCR via RECIST v1.1

2

Median Prior Lines
of Therapy

First evaluable patients all mismatch repair proficient and progressed on prior chemotherapy and checkpoint inhibitor therapy

Anti-PD-(L)1 moving into front-line therapy setting³

No standard of care for 2L+ post-anti-PD-1

- Molecularly defined subgroups with available targeted therapies are small
- ORR with mono-chemotherapy after front-line chemo doublet: ~15%^{5,6}
- Limited data on treatments after anti-PD-(L)1

**Endometrial
Cancer
Biomarkers⁴**

pMMR: 73%
dMMR: 27%

1. National Cancer Institute Surveillance, Epidemiology and End Results (SEER) Program. 2026 Estimates. <https://seer.cancer.gov> (accessed June 2026); 2. World Health Organization International Agency for Research on Cancer (IARC). GLOBOCAN 2022; 3. NCCN Guidelines Version 2.2024 Endometrial Carcinoma; 4. Kang et al, Nature Portfolio, Scientific Reports, 2022; 5. Makker V, et al, N Engl J Med, 2022; 6. McMeekin S, et al, Gynecol Oncol, 2015.

Abbreviations: Anti-PD-1, anti-programmed cell death inhibitor; pMMR, proficient DNA mismatch repair; dMMR, deficient DNA mismatch repair; SOC, standard of care; TMB-H, tumor mutational burden high; ORR, objective response rate

IOV-END-201 Phase 2 Proof of Concept Study

Proof-of-Concept Trial in Patients with Mismatch Repair (MMR) Proficient and Deficient Tumors (NCT06481592)

Endometrial Cancer Patient Population*

Recurrent, metastatic or primary unresectable disease after chemo and anti-PD-1 therapy

≤3 lines of prior systemic therapy with no more than 1 line of chemotherapy

pMMR Subgroup

dMMR Subgroup

Endpoints

- **Primary:** ORR per RECIST v1.1 by investigator
- **Secondary:** CR rate, DOR, DCR, PFS, OS, safety and tolerability
- Subgroup analyses specified in protocol
- Potential to expand / convert to registrational trial
- First patient enrolled Q4 2024

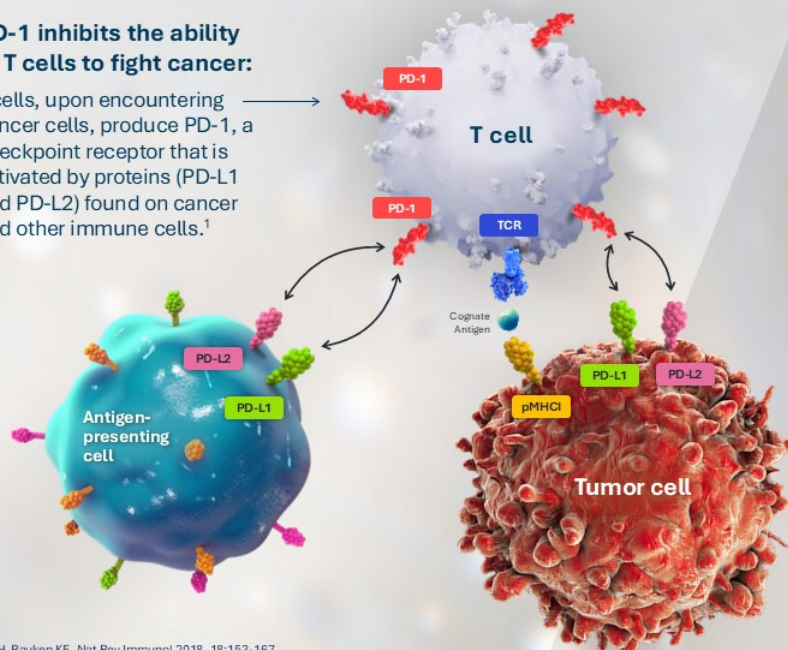
*Sample size and study population of registrational ph2 study will be determined after PoC final analysis

Abbreviations: Anti-PD-1, anti-programmed cell death inhibitor; CR, complete response; dMMR, mismatch repair deficient; pMMR, mismatch repair proficient; DCR, disease control rate; DOR, duration of response; ORR, objective response rate; OS, overall survival; PFS, progression free survival

IOV-4001: PD-1 Inactivated TIL Therapy

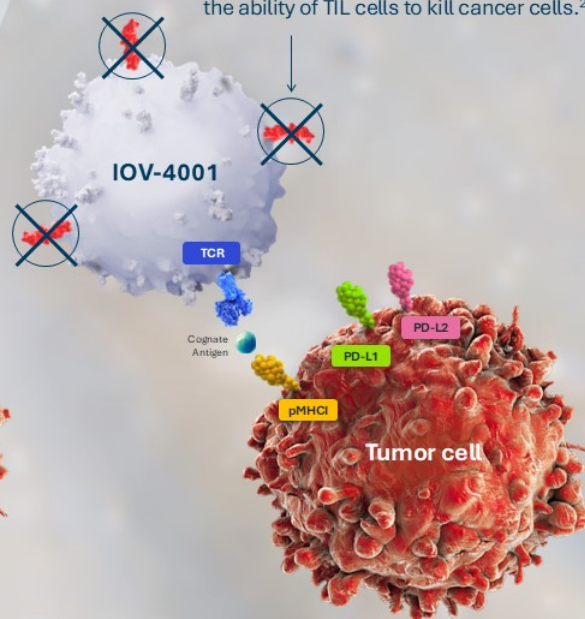
1 PD-1 inhibits the ability of T cells to fight cancer:

T cells, upon encountering cancer cells, produce PD-1, a checkpoint receptor that is activated by proteins (PD-L1 and PD-L2) found on cancer and other immune cells.¹



2 PD-1 Inactivated T Cells Avoid Checkpoint Signals:

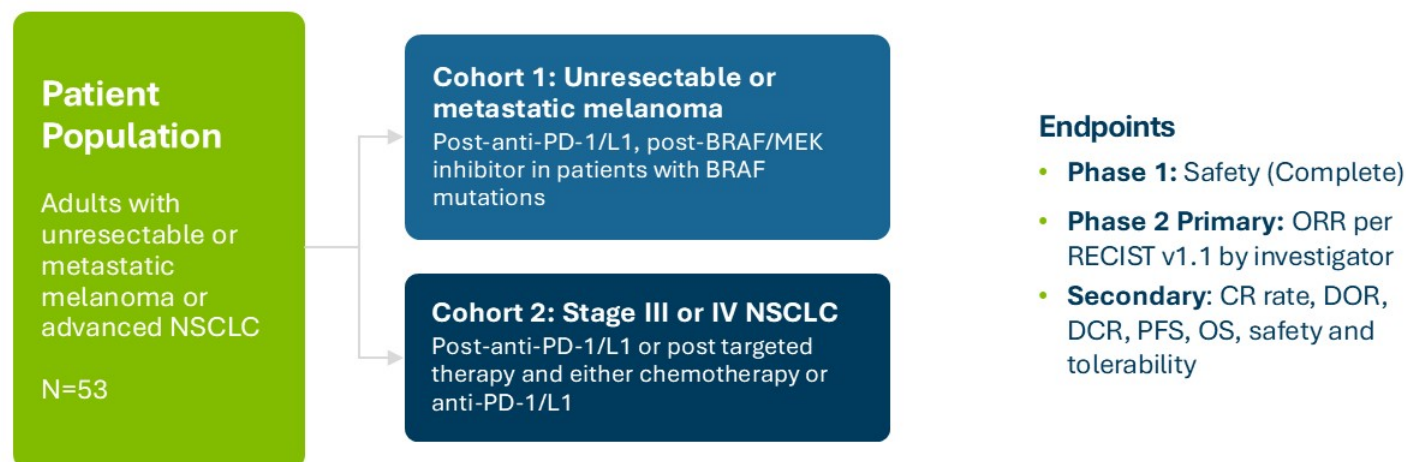
PD-1 is inactivated using TALEN, restoring the ability of TIL cells to kill cancer cells.^{2,3}



1. Sharpe AH, Pauken KE. Nat Rev Immunol 2018, 18:153-167
2. Natarajan A et.al. AACR 2022
3. Licensed from Collectis

Phase 1/2 Open-Label First-in-Human Study: IOV-GM1-201

Genetically Modified, PD-1 Inactivated TIL Therapy IOV-4001 in Previously Treated Metastatic Melanoma and NSCLC (NCT05361174)



Abbreviations: Anti-PD-1, anti-programmed cell death inhibitor; CR, complete response; DCR, disease control rate; DOR, duration of response; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; PFS, progression free survival.

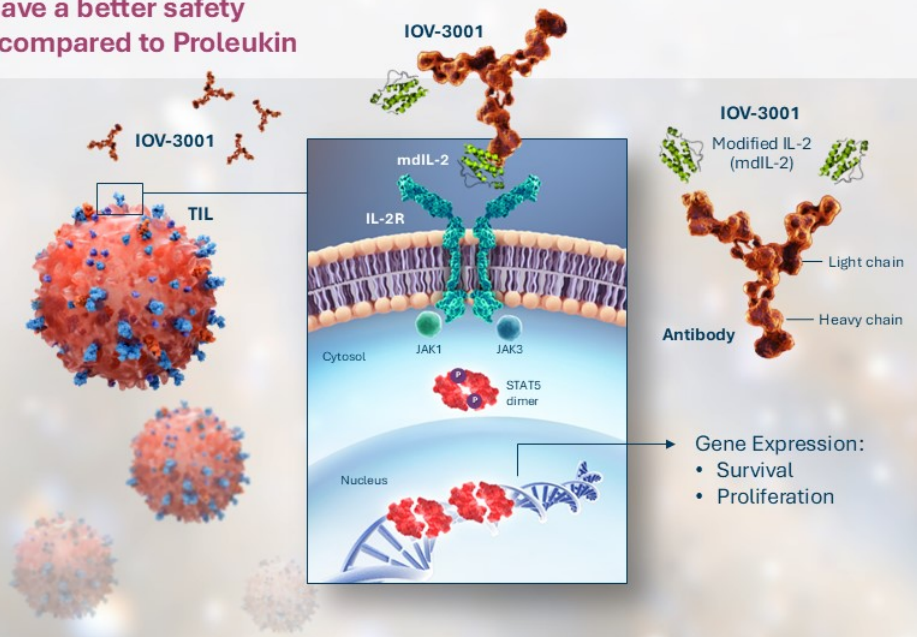
IOV-3001: Next Generation IL-2 for TIL Supportive Regimen^{1,2}

Preclinical data suggest IOV-3001 may have a better safety profile and require less frequent dosing compared to Proleukin

Phase 1/2 trial enrolling patients

Recombinant fusion protein designed to enhance TIL survival and cellular proliferation

- A modified copy of the coding sequence for aldesleukin (mdIL-2) is fused to a humanized monoclonal immunoglobulin (Ig)G1κ antibody
- The mdIL-2 moiety of IOV-3001 binds to the IL-2-receptor (IL-2R) with subsequent phosphorylation of signal transducer and activator of transcription 5 (STAT5), resulting in enhanced performance



1. Mitra S, Leonard WJ. *Journal of Leukocyte Biology* 2018 103(4): 643-655
2. Simpson-Abelson M et al, ASCO 2024

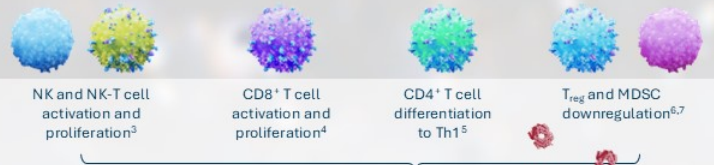
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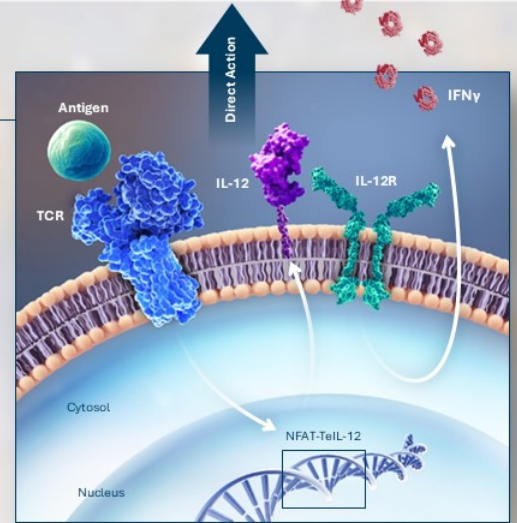
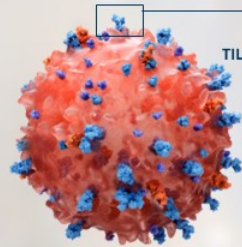
28

IOV-5001: IL-12 Tethered TIL Therapy

IND-Cleared: Phase 1/2 Basket Trial to Start 2H2026 in Solid Tumors Representing 100K+ U.S. Deaths Annually



- Tethered IL-12 TIL cells can improve efficacy by remodeling the suppressive TME into an immuno-supportive state
 - In advanced melanoma patients, an ORR of 63% (n=16) was observed with prior generation IL-12 secreting TIL product at doses 10- to 100-fold lower than conventional TIL products¹
- IL-12 shows independent clinical efficacy, with safe delivery to the TME being the primary challenge^{1,2}
- Expression of IL-12 on IOV-5001 is induced upon antigen encounter in the TME^{1,2}
- IOV-5001's expressed IL-12 is tethered to the membrane surface of TIL to avoid release into circulation (shedding)²
- Inducible IL-12 expression in the TME and lack of IL-12 shedding expected to allow increased IOV-5001 cell doses and improved TIL efficacy in solid tumor cancers



1. Zhang L, et al, Clin Cancer Res 2015;21(10):2279-2288; 2. Zhang L, et al, J Immunother Cancer 2020;8:e000210; 3. Kobayashi M, et al, J Exp Med 1989;170:827-845; 4. Zeh HJ, et al, J Immunother 1993;14:155-61; 5. Tugues S, et al, Cell Death and Differentiation 2015;22:237-246; 6. Cao X, et al, Cancer Res 2009;69:8700-8; 7. Steding CE, et al, Immunology 2011;133:221-36

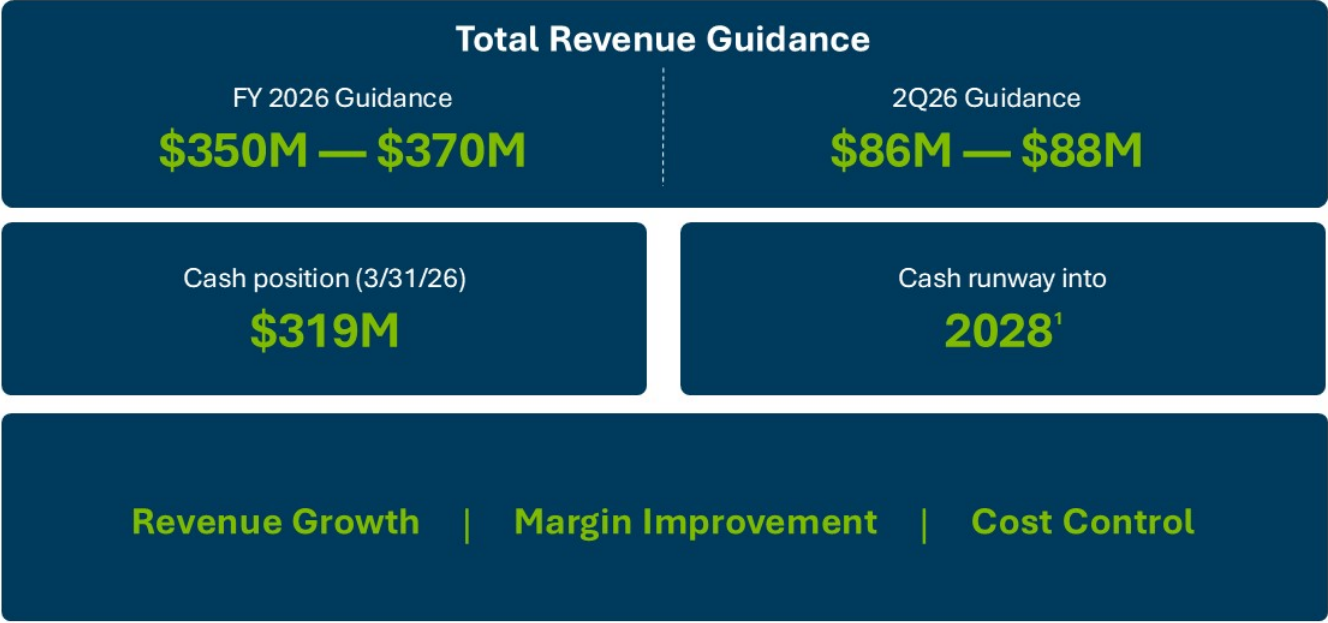
Abbreviations: IL-12, interleukin 12; IND, investigational new drug application; MDSC, myeloid derived suppressor cell; NK, natural killer cell; NKT, natural killer T cell; ORR, objective response rate; TME, tumor microenvironment; Treg, regulatory T cell

Corporate Summary

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■ Financial Position & Outlook



1. Includes anticipated revenue from Amtagvi® and Proleukin® and anticipated savings from strategic restructuring announced on August 7, 2025
2. Preferred shares are shown on an as-converted basis.



Thank You

ADVANCING IMMUNO-ONCOLOGY

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