



### Safe Harbor



Any statements contained herein that are not statements of historical facts may be deemed to be 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, including statements regarding the advancement, timing and sufficiency of our clinical trials or financial status, patient enrollments in our existing and planned clinical trials and the timing thereof, the results of our clinical trials, the timing and release of our clinical data, statements regarding our expectations about our cash runway, our goals to develop and commercialize our product candidates, our expectations regarding the size of the patient populations for our product candidates if approved for commercial use and other statements identified by words such as "could," "expects," "intends," "may," "plans," "potential," "should," "will," "would," or similar expressions and the negatives of those terms. Forward-looking statements are not promises or guarantees of future performance, and are subject to a variety of risks and uncertainties, many of which are beyond our control, and which could cause actual results to differ materially from those contemplated in such forward-looking statements. These factors include risks related to our limited operating history, our ability to generate positive clinical trial results for our product candidates, the costs and timing of operating our in-house manufacturing facility, the timing and scope of regulatory approvals, changes in laws and regulations to which we are subject, competitive pressures, our ability to identify additional product candidates, political and global macro factors including the impact of global pandemics and related public health issues, the ongoing military conflicts between Russia-Ukraine and Israel-Hamas and the impact on the global economy and related governmental imposed sanctions, and other risks as may be detailed from time to time in our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, and other reports we file with the Securities and Exchange Commission. Our actual results could differ materially from the results described in or implied by such forward-looking statements. Forward-looking statements speak only as of the date hereof, and, except as required by law, we undertake no obligation to update or revise these forward-looking statements.

### Industry Leader in Oncolytic Immunotherapy





### **Establishing a Broad Skin Cancer Franchise**

### Clinical activity demonstrated across multiple skin cancers and settings

- ✓ IGNYTE primary analysis by independent central review shows durable responses in difficult-to-treat population
- ✓ ARTACUS clinical trial of RP1 as monotherapy in solid organ transplant patients shows encouraging response rates
- ✓ IGNYTE-3 confirmatory phase 3 study in anti-PD1 melanoma enrolling
- ✓ Positive pre-BLA meeting completed; aligned with FDA on accelerated approval pathway for RP1 in anti-PD1 failed melanoma
- ✓ BLA submission in anti-PD1 failed melanoma on track for RP1 in 2H 2024



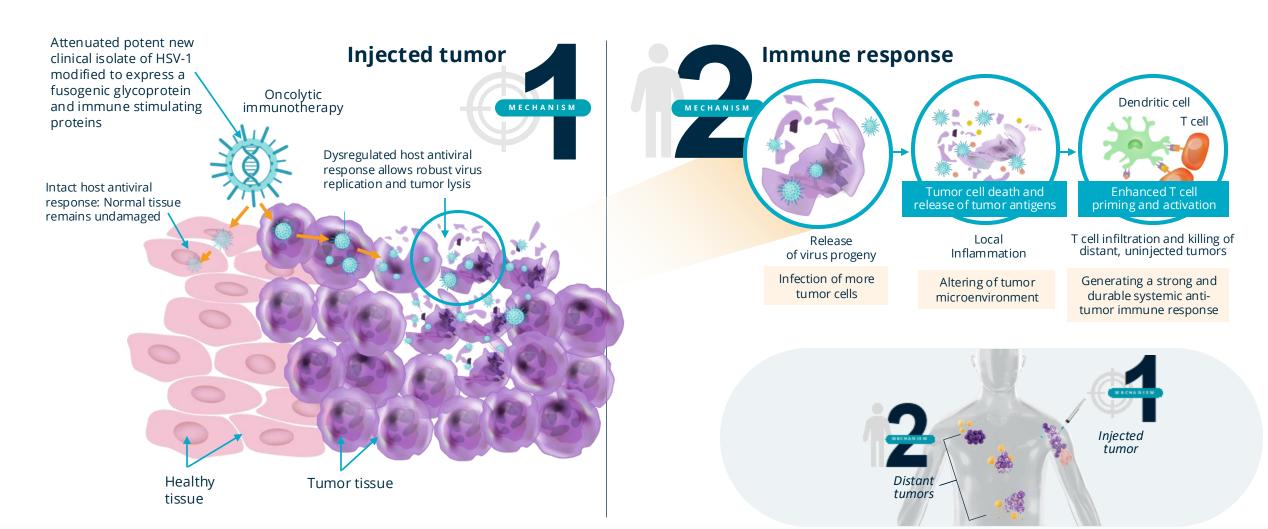
#### **Focused on Rare Cancers**

### Clinical activity both as monotherapy and in combination with nivolumab

- Compelling phase 1 data in uveal melanoma
- ✓ Clinical activity seen in other rare tumors, including:
  - Sarcomas (e.g., chordoma)
  - Rare head & neck (e.g., mucoepidermoid)
- ✓ Aligned with FDA on pivotal study design in metastatic uveal melanoma
- ✓ On path to build rare cancer franchise

## Oncolytic Immunotherapy is Intended to Activate a Powerful and Durable Systemic Anti-Tumor Response





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# RPx Platform Addresses a Range of Tumor Types Intending to Optimize Clinical Outcomes







Payloads	GALV-GP R-, GM-CSF	GALV-GP R-, anti-CTLA-4, GM-CSF		
Target	Immunologically responsive tumor types, including anti- PD1 failed	Less immunologically responsive tumor types		
Intended indication(s)	Skin cancers (CSCC inc. SOT*, anti-PD1 failed melanoma, anti-PD1 failed NMSC/other NMSCs, etc)	Rare cancers and neo adjuvant ; uveal melanor registration study planned		
Clinical activity in anti-PD1 failed patients demonstrated				
Good tolerability and Safety profile demonstrated				
Injection location	Superficial, nodal & visceral	Superficial, nodal & visceral		
Systemic activity	Clear systemic effects seen in responding po responses are generally			
Other design considerations	Designed for more I-O sensitive tumor types with excellent safety profile alone & in combination	Increased I-O systemic activity, also with excellent safety profile alone & in combination		

\*SOT=solid organ transplant

### **Pipeline**





<sup>&</sup>lt;sup>®</sup> CERPASS trial continuing to allow time-based endpoints to mature (DOR, PFS, OS), trial missed its primary endpoints (ORR, CRR)

\* Under a clinical trial collaboration & supply agreement with BMS for the supply of nivolumab—full commercial rights retained by Replimune

<sup>#</sup> Under a clinical trial collaboration agreement with Regeneron, includes certain sharing of clinical trial costs—full commercial rights retained by Replimune ^ Under clinical trial collaboration & supply agreement with Roche for atezolizumab & bevacizumab supply–full commercial rights retained by Replimune



RP1: Establishing a Broad Skin Cancer Franchise

IGNYTE Clinical Trial: RP1+Nivolumab in Anti-PD1 Failed Melanoma

# For Melanoma Patients that Progress on Anti-PD1 Therapy, Options are Limited



- Further single agent anti-PD1 for patients having confirmed PD on prior anti-PD1 gives a response rate of 6-7%<sup>1</sup>
- Nivolumab + ipilimumab is a potential option<sup>2,</sup> but toxicity is high<sup>3,4</sup>
- Anti-LAG3 plus anti-PD1 has not demonstrated meaningful efficacy in the anti-PD1 failed setting<sup>5</sup>
- For BRAF mutant tumors, BRAF-targeted therapy responses are generally transient<sup>6</sup>
- TIL therapy for select patients gives response rates of  $\sim$ 30%, but comes with toxicity (nearly all patients have grade 4 toxicity)<sup>7</sup>
- T-VEC + pembrolizumab has limited activity outside of the adjuvant setting, with no responses seen in patients
  with visceral disease<sup>8,9</sup>

## IGNYTE Study Design Anti-PD1 Failed Melanoma Cohort







Anti-PD1 failed melanoma cohort

(140 pts; 16 pts treated in prior cohorts: Total=156)



#### **Primary objectives**

- Safety and tolerability
- Efficacy as assessed by ORR using modified RECIST 1.1 criteria

#### Secondary objective

DOR, CR rate, DCR, PFS, by central & investigator review, ORR by investigator review, and 1-year and 2-year OS

### **Key eligibility criteria**

<u>Confirmed progression</u> while <u>on</u> prior anti-PD1 therapy<sup>c</sup>

At least 8 weeks of prior anti-PD1, confirmed progression while on anti-PD1; anti-PD1 must be the last therapy before clinical trial. Patients on prior adjuvant therapy must have progressed while on prior adjuvant treatment.

Primary analysis conducted when all patients have  $\geq$  12 months follow up

### ESMO 2024: Baseline Clinical Characteristics

### Real-world anti-PD1 failed melanoma population was enrolled



Patients, n (%)	N = 140
Age, median (range), y	62 (21–91)
Sex	
Female	45 (32.1)
Male	95 (67.9)
Stage	
IIIb/IIIc/IVM1a	72 (51.4)
IVM1b/c/d	68 (48.6)
BRAF status	
Wild-type	87 (62.1)
Mutant	53 (37.9)
LDH level	
LDH ≤ULN	92 (65.7)
LDH >ULN	47 (33.6)
Unknown	1 (0.7)
Baseline PD-L1 tumor expression	
Positive (≥1%)	44 (31.4)
Negative (<1%)	79 (56.4)
Undetermined or missing	17 (12.1)

Patients, n (%)	N = 140
Prior therapy	
Anti-PD-1	
Anti–PD-1 only as adjuvant therapy	36 (25.7)
Anti–PD-1 other than as adjuvant therapy	104 (74.3)
Anti—CTLA-4	
Anti–PD-1 combined with anti–CTLA-4	61 (43.6)
Anti–PD-1 treated with anti–CTLA-4 sequentially	4 (2.9)
Received BRAF/MEK therapy	17 (12.1)
Anti–PD-1 resistance category	
Primary resistance <sup>a</sup>	92 (65.7)
Secondary resistance <sup>b,c</sup>	48 (34.3)

Due to the requirement that patients must have confirmed PD on an immediate prior anti-PD-1-based therapy, most patients had 1 or 2 prior lines of therapy

The median (range) follow-up at the time of the primary analysis was 15.4 months (0.5–47.6 months)

## ESMO 2024: Primary Efficacy Analysis By blinded independent central review

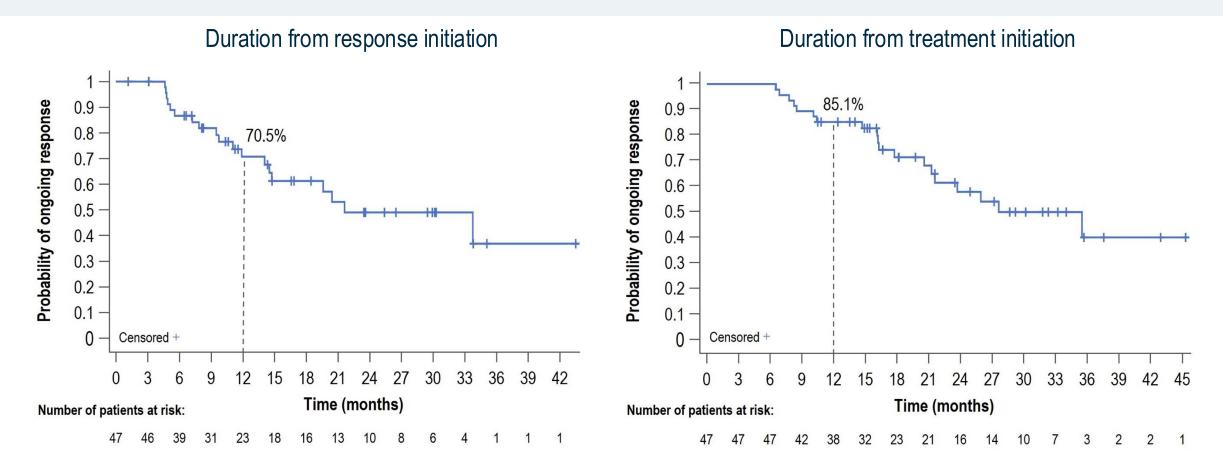


	Primary endpoint mRECIST v1.1 (N = 140)	Sensitivity analysis RECIST v1.1 (N = 140)
Confirmed best response, n (%)		
CR	21 (15.0)	21 (15.0)
PR	26 (18.6)	25 (17.9)
SD	41 (29.3)	31 (22.1)
PD	43 (30.7)	54 (38.6)
ORR (confirmed CR+PR), n (%)	47 (33.6)	46 (32.9)
95% CI	(25.8, 42.0)	(25.2, 41.3)

1 in 3 patients (33.6%) experienced a confirmed objective response,15.0% CR

### ESMO 2024: Duration of Response (by mRECIST v1.1)





- Median (range) duration from response initiation was 21.6 months (1.2+ to 43.5+ months)
- Median (range) duration from baseline was 27.6 months (6.6+ to 45.3+ months)
- 85% of responses were ongoing ≥1 year from starting treatment

### ESMO 2024: Efficacy



Centrally reviewed mRECIST v1.1 responses (per protocol); all patients have ≥12 months follow up

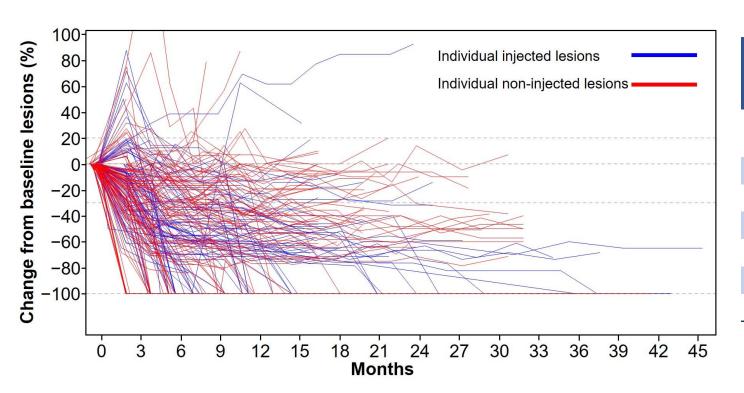
BOR n (%)	All patients (N = 140)	Single- agent anti–PD-1 (n = 75)	Anti–PD-1/ CTLA-4 (n = 65)	Stage IIIb–IVa (n = 72)	Stage IVb–IVd (n = 68)	Primary resistance (n = 92)	Secondary resistance (n = 48 <sup>a</sup> )	Anti–PD-1 adjuvant (n = 36)	Anti–PD-1 not adjuvant (n = 104)
CR	21 (15.0)	16 (21.3)	5 (7.7)	17 (23.6)	4 (5.9)	16 (17.4)	5 (10.4)	11 (30.6)	10 (9.6)
PR	26 (18.6)	13 (17.3)	13 (20.0)	12 (16.7)	14 (20.6)	17 (18.5)	9 (18.8)	5 (13.9)	21 (20.2)
SD	41 (29.3)	20 (26.7)	21 (32.3)	24 (33.3)	17 (25.0)	22 (23.9)	19 (39.6)	10 (27.8)	31 (29.8)
PD	43 (30.7)	24 (32.0)	19 (29.2)	18 (25.0)	25 (36.8)	31 (33.7)	12 (25.0)	9 (25.0)	34 (32.7)
ORR	47 (33.6)	29 (38.7)	18 (27.7)	29 (40.3)	18 (26.5)	33 (35.9)	14 (29.2)	16 (44.4)	31 (29.8)

Consistent response rates were seen across patient subgroups, including:

- 27.7% ORR in patients who had prior anti-PD-1 and anti-CTLA-4
- 35.9% ORR in patients who had primary resistance to anti-PD-1

# ESMO 2024: Change in Size of Individual Injected and Non-injected Lesions Over Time (mRECIST v1.1)





	Number (%) of measured lesions for responders (CR or PR; N = 47)		
	Injected (n = 79)	Non-injected (n = 123)	
Number of lesions with:			
No reduction	1 (1.3)	2 (1.6)	
Any reduction	78 (98.7)	121 (98.4)	
Best reduction >0 to <30%	4 (5.1)	23 (18.7)	
Best reduction ≥30 to <100%	31 (39.2)	48 (39.0)	
Best reduction of 100%	43 (54.4)	50 (40.7)	

Injected and non-injected lesions responded with similar frequency, depth, duration, and kinetics

### ESMO 2024: Responses in Injected and Non-Injected Lesions 🔥 Replimune®





- Tumor reduction seen in 53 out of 60 non-injected visceral organ lesions
- Injected and non-injected lesions responded with similar frequency, depth and duration
- Responses not driven by injected lesions alone



29 JUL 2021 / Screening

20 APRIL 2022



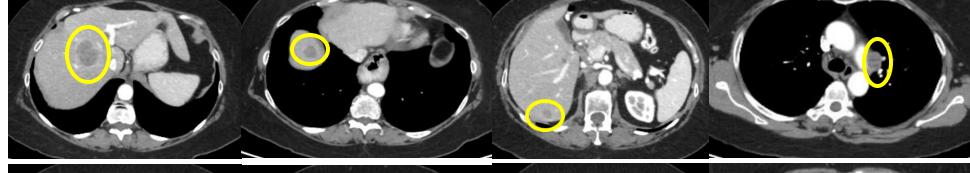




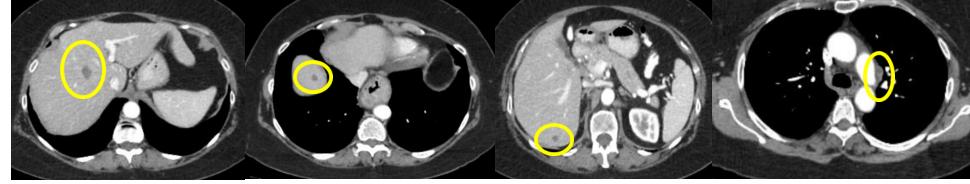




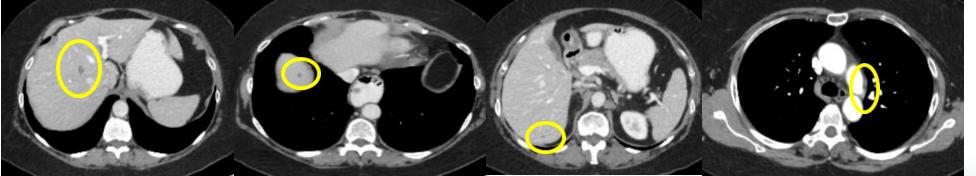
22 Jul 2021/ Baseline



22 Sep 2021/ Day 57



29 Dec 2021/ Day 155



### **Patient Example**

Prior atezolizumab+cobimetinib, ipilimumab, SX682 (CXCR-inhibitor)+ atezolizumab, ipilimumab+nivolumab

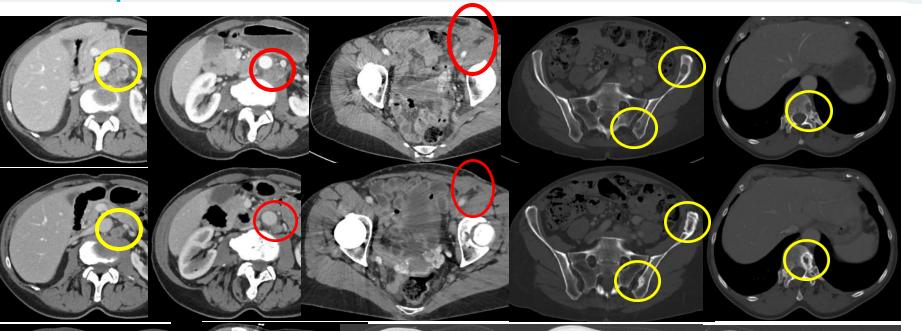


Baseline

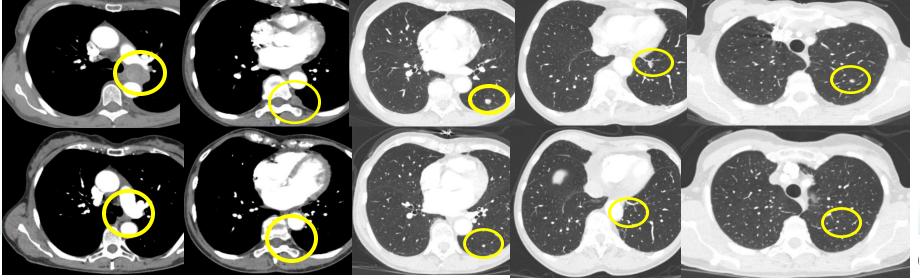
9 Months

Baseline

9 Months



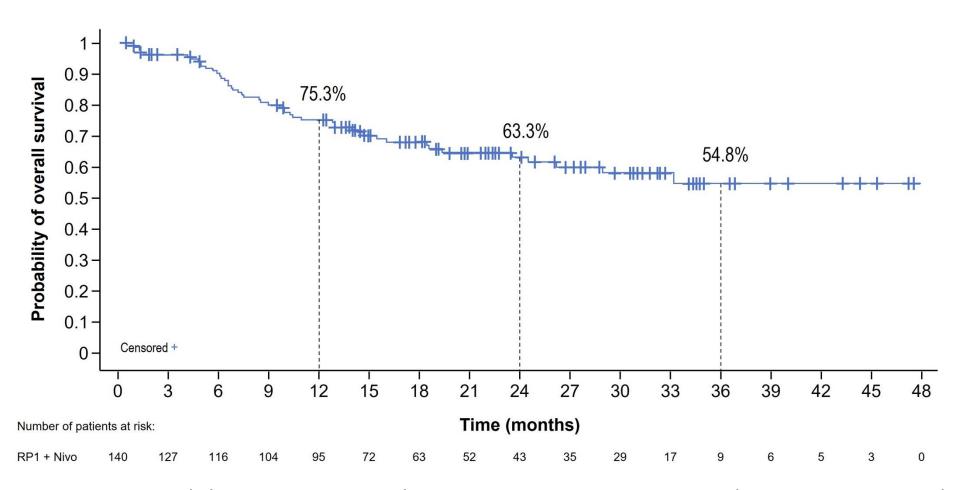
Responses in uninjected distant and visceral tumors including healing of lytic bone lesions (increasing sclerosis & new internal bone formation seen)





### **ESMO 2024: Overall Survival**





- One-, two-, and three-year survival rates were 75.3%, 63.3%, and 54.8%, respectively
- Median overall survival has not been reached

### ESMO 2024: Safety/Treatment-Related AEs (N=141)



Preferred term, n (%)	TRAEs occurring in (N = 14	
	All Grades	Grade 3-4
≥1 TRAE	126 (89.4)	18 (12.8)
Fatigue	46 (32.6)	1 (0.7)
Chills	45 (31.9)	0 (0.0)
Pyrexia	43 (30.5)	0 (0.0)
Nausea	31 (22.0)	0 (0.0)
Influenza-like illness	25 (17.7)	0 (0.0)
Injection-site pain	21 (14.9)	0 (0.0)
Diarrhoea	20 (14.2)	1 (0.7)
Vomiting	19 (13.5)	0 (0.0)
Headache	18 (12.8)	0 (0.0)
Pruritus	18 (12.8)	0 (0.0)
Asthenia	14 (9.9)	1 (0.7)
Arthralgia	10 (7.1)	1 (0.7)
Decreased appetite	9 (6.4)	1 (0.7)
Myalgia	9 (6.4)	0 (0.0)
Cough	8 (5.7)	0 (0.0)
Rash	8 (5.7)	0 (0.0)
Injection-site reaction	7 (5.0)	0 (0.0)
Vitiligo	7 (5.0)	0 (0.0)

RP1 combined with nivolumab is generally well tolerated

- Predominantly grade 1 and 2 constitutional-type side effects
- Low incidence of grade 3 events (none occurring in >5% of patients); five grade 4 events in total
- No grade 5 events

#### Additional grade 3/4 TRAEs (grade 4 italicized):

- Two events each (1.4%): Hypophysitis, rash maculo-popular
- One event each (0.7%): Abdominal pain, acute left ventricular failure, amylase increased, cancer pain, cytokine release syndrome, eczema, enterocolitis, extranodal marginal zone B-cell lymphoma (MALT type), hepatic cytolysis, hyponatraemia, immune-mediated enterocolitis, infusion-related reaction, left ventricular dysfunction, lipase increased, memory impairment, meningitis aseptic, muscular weakness, myocarditis, palmar-plantar erythrodysaesthesia syndrome, paraesthesia, peripheral sensory neuropathy, radiculitis brachial, sinus arrhythmia, splenic rupture, tricuspid valve incompetence, tumor pain, type 1 diabetes mellitus

### **IGNYTE Data Shows Clinically Meaningful Benefit**



- One third of patients respond by independent central review (ORR: 33.6%\*)
  - Clinically meaningful activity seen across all subgroups, including patients who had prior combined anti-PD1/anti-CTLA-4 and those with primary anti-PD1 resistance
- Responses are durable
  - Median DOR of 21.6 months with 85% of responses ongoing ≥1 year from starting treatment
- RP1 combined with nivolumab continues to be a generally well tolerated regimen
  - Predominantly grade 1/2 constitutional-type side effects
  - Low incidence of grade 3 and 4 events; no grade 5 events
- While median OS has not been reached, 1-(75.3%), 2- (63.3%) and 3-year (54.8%) survival rates are promising

### IGNYTE-3: Confirmatory Phase 3 Trial Design\*

### RP1 and Nivolumab in Ipi-Nivo Pretreated Patients



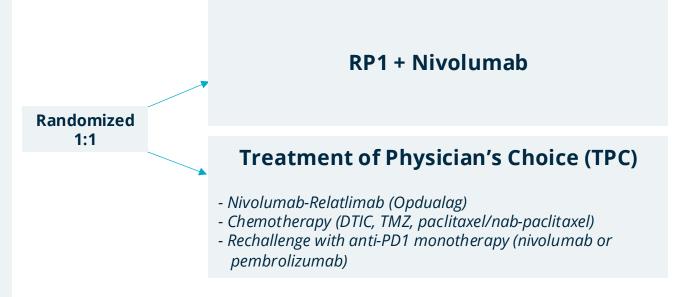
### Advanced cutaneous melanoma

### Progressed on anti-PD1 AND anti-CTLA-4 OR not candidates for anti-CTLA-4

Up to 2 prior lines of systemic therapy for advanced disease

BRAF mutant patients must have been treated with BRAF/MEK-directed therapy<sup>1</sup>

N=~400



### **Primary Endpoint**Overall Survival

### Key Secondary Endpoints

Progression Free Survival and Objective Response Rate



### **ARTACUS Clinical Trial:**

RP1 Monotherapy in Solid Organ Transplant Non-Melanoma Skin Cancers (NMSC)

### ARTACUS: Baseline Demographics, Characteristics, Activity



RPI as monotherapy shows clear clinical activity with promising ORR/CRR

Characteristic	All patients (N = 27)
Age, years, median (range)	68.0 (48–86)
<b>Male</b> , n (%)	21 (77.8)
Race, n (%) White	26 (96.3)
Native Hawaiian/Pacific Islander	1 (3.7)
Allograft type, n (%)	
Kidney	22 (81.5)
Liver	4 (14.8)
Lung	1 (3.7)
Heart	0
Cutaneous malignancies, n (%)	
CSCC	24 (88.9)
MCC	3 (11.1)
Stage at study baseline, n (%)	
Locally advanced	15 (55.6)
Metastatica	12 (44.4)
Primary tumor location, n (%)	
Skin	26 (96.3)
Lymph node	1 (3.7)

	Evaluable patients <sup>a</sup> (N = 23)
Best overall response (modified RECIST 1.1)	n (%)
CR	5 (21.7) <sup>b</sup>
PR	3 (13.0) <sup>c</sup>
SD	1 (4.3)
PD	14 (60.9)
ORR (CR + PR)	8 (34.8)
DCR (CR + PR + SD)	9 (39.1)

	Responders (n = 8)
Characteristics of responders	n
Tumor type	
CSCC	6
MCC	2
Stage at study baseline	
Locally advanced	6
Metastatic	2

## ARTACUS: Examples of Patients With Confirmed Response Replimune

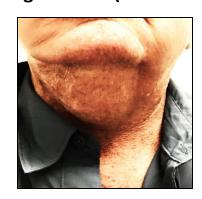


Baseline

1143-0002 May 2022



August 2022 (3 months)



**Complete response** 

1143-0001 June 2021



December 2021 (6 months)



**Complete response** 

1135-0001 **July 2021** 



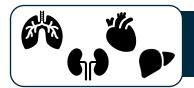
October 2021 (3 months)



**Complete response** 

### High Risk of Skin Cancer in Organ Transplant Patients **Drives the RP1 ARTACUS Opportunity**





Addressable\* Solid Organ Transplant Patients with skin cancer<sup>6</sup>

Growth in transplants over the last 8 years<sup>1</sup>

### **Significant Unmet Need**

#### **ARTACUS Data**

Increased Risk of Cancer

Increased risk of SoT patients developing skin cancer, with a high rate of metastasis<sup>2</sup>

RP1 showed an **35% ORR and a 22% CRR**<sup>7</sup> with safety similar to the profile seen in nonimmunocompromised patients

High Rate of Multiple Primary Lesions
Percentage of patients developing multiple primary lessions<sup>4,5</sup>

RP1 has been **dosed up to 26 times to treat** patients, with the potential for retreatment

**Treatment Options Risk Loss of Organ** 

Rate of organ rejection, due to treatment with ICIs for skin cancer<sup>3</sup>

RP1 monotherapy has shown the ability to treat skin cancer with no cases of allograft rejection<sup>7</sup>

<sup>\*</sup>Addressable defined as locally advanced or metastatic SoT (solid organ transplant) skin cancer patients

aStandardized incidence ratios were calculated by dividing the observed number of NMSC cases by the expected number of cases based on the general population. CSCC, cutaneous squamous cell carcinoma; NMSC, non-melanoma skin cancer; SOT, solid organ transplantation.



### **CERPASS Clinical Trial:**

1L CSCC (RP1+Cemiplimab vs. Cemiplimab)

CERPASS: Confirmed ORR & CRR (ITT population)
Number of patients achieving CR substantially increased with RPI;
CR rate more than doubled for RPI in locally advanced CSCC



BOR (confirmed response)	AII N=211		
n/%	Cemiplimab n=72	RP1+ cemiplimab n=139	
PR	19 (26.4)	20 (14.4)	
SD	14 (19.4)	18 <sup>*</sup> (12.9)	
PD	12 (16.7)	27 (19.4)	
O.D.	37 (51.4%)	73 (52.5%)	
OR	P=0.692 <sup>1</sup>		
CD.	18 (25.0%)	53 (38.1%)	
CR	P=0	0.040 <sup>1</sup>	

BOR (confirmed response)	Locally advanced CSCC n=83			ntic CSCC 128
n/%	Cemiplimab n=31 RP1+ cemiplimab n=52		Cemiplimab n=41	RP1+ cemiplimab n=87
OR	18 ( <b>58.1%</b> )	33 ( <b>63.3</b> %)	19 (46.3%)	40 (46.0%)
CR	7 ( <b>22.6%</b> )	25 ( <b>48.1%</b>	11 (26.6%)	28 (32.2%)

#### **Key Takeaways / Next Steps**

- Study missed its primary endpoints (ORR/CRR)
- Study continuing to allow time-based endpoints to mature (DOR, PFS and OS)
- In locally advanced CSCC, CR rate more than doubled for RP1+cemiplimab vs cemiplimab alone (48.1% vs 22.6%)

<sup>\*</sup>One patient shown as SD was a CR due to the confirmatory assessment happening 21 days rather than later 28 days as required per protocol (CRR if included = 38.8%; p=0.031);

<sup>\*\*&</sup>amp;Nominal p value 0.013

# Five of the Most Visually Impactful CRs with RP1+cemiplimab







3002-0008



# Significant Opportunity to Establish a Broad Skin Cancer Franchise Built Upon Strong Foundation in Melanoma



### RP1 near-term opportunity

Anti-PD1-failed melanoma

~13K patients<sup>1</sup>

**1L prior adjuvant** 

2L+ BRAF WT

2L+ BRAF MT

**GOAL** 

Address high unmet need in anti-PD-1 failed settings

Potential NMSC\* access via compendia<sup>+</sup>

~11K patients<sup>2</sup>

1L CSCC

**SOT NMSC** 

**Anti-PD1 failed** 

Immuno-compromised (other)

**GOAL** 

Improve upon the SOC either as combo or as monotherapy

**Future growth driver** 

Neoadjuvant skin cancers\*\*

~45K patients

Neoadjuvant CSCC
Neoadjuvant melanoma

treatable patients in the US

**GOAL** 

Improve cure rates in early-stage patients

"Opportunity to change the treatment paradigm and ensure all appropriate patients can benefit from RP1"

\*Spontaneous use will not be promoted

### RP1 Positioned to Enable Widespread Commercial Adoption Replimune



- Potential to treat a range of skin cancers across treatment settings
  - RP1+nivolumab is well positioned to be the first option for melanoma patients who progress on a PD1-based regimen (in adjuvant or 1L setting), given:
    - Deep & durable responses
    - Safety profile
    - Ease of administration
  - RP1+nivolumab provides a potentially compelling option for a broad range of anti-PD1 failed melanoma patients
    - Approx. 80%\* of all melanoma patients can be treated via either superficial and/or image guided deeper lesion injections requiring interventional radiology
    - Adoption feasible in most US healthcare settings including the community allowing practices to keep and treat patients locally
  - RP1 has shown encouraging monotherapy activity in hard-to-treat solid organ transplant failed NMSC where patients have very limited options that don't risk graft rejection

## Manufacturing on Track to Support RP1 BLA and Commercialization



Commercial scale in-house manufacturing established

- Pre-BLA meeting with FDA confirmed alignment on Chemistry, Manufacturing and Controls (CMC) plans to support RP1 BLA submission
- 63,000 square foot state-of-the-art facility for GMP manufacturing in Framingham, MA
  - RP1 BLA consistency lot runs complete
  - Commercial inventory build underway
- Scale expected to be sufficient to cover global commercialization of RP1 and RP2
- Commercially attractive cost of goods & 'off the shelf' product practicality







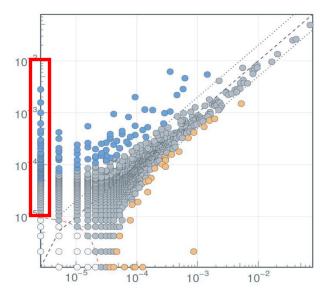


## RP2: Fusion Enhanced Oncolytic HSV Expressing Anti-CTLA-4 Durable monotherapy and combination responses demonstrated in multiple immune

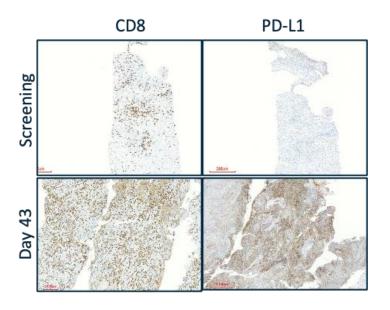


insensitive tumor types

- Designed to focus on the delivery of molecules which function at the time and place of immune activation, i.e. in tumors & draining lymph nodes
- Anti-CTLA-4 antibody prevents immune blockade at the APC / T cell interface
  - Anti-CTLA-4 is clinically validated; Ipilimumab, tremelimumab#
  - RP2 intends to deliver anti-CTLA-4 where it is needed (at the tumor) without systemic toxicity of other therapies



TCR sequencing of PBMCs demonstrated expansion of pre-existing and generation of new T cell clones following treatment with RP2 with nivolumab (Example: pt 3412-0001, uveal melanoma, PR)\*

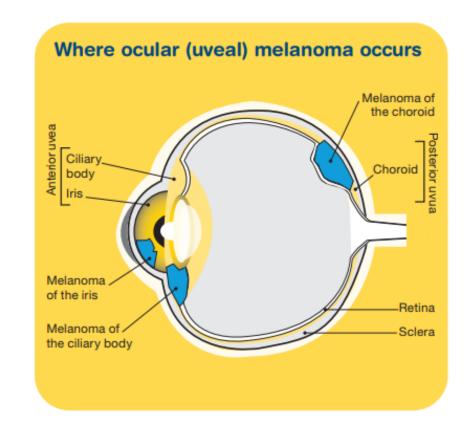


Substantial increases in CD8+ T cell infiltration and PD-L1 expression are seen (Example: pt 4403-0015, uveal melanoma SD)\*

### **Uveal Melanoma and Unmet Need**



- Ocular or "uveal" melanoma is a rare cancer with approx. 1,000 cases in the US per year<sup>1</sup>
  - The historic median OS is approx. 12 months<sup>1</sup>
- Uveal melanoma behaves quite differently from skin melanoma
  - Mostly metastasizes to the liver (approx. 70-90% of cases) and once this occurs only about 10% of these patients survive beyond a year
  - Difficult to treat tumor where CPIs have demonstrated limited activity<sup>2,3,4</sup>
  - Kimmtrak (tebentafusp) is the 1st approved agent in uveal melanoma in HLA-A-02:01-positive adult patients (approx. 50% of the total population)\*
- Unmet need remains high, including improved efficacy and tolerability, effective options for HLA negative patients, and those who have progressed on Kimmtrak (HLA positive) and/or I-O combinations regardless of HLA status



### ASCO 2024 Results: Clinical Activity in Uveal Melanoma

9 (64.3)



The ORR was 29.4% (all PRs) and DCR was 58.8%

1 (33.3)

DCR(CR + PR + SD)

— At data cutoff, median (range) DOR was 11.5 (2.8–21.2)<sup>a</sup> months

	RP2 monotherapy (n = 3)	RP2 + nivolumab (n = 14)	Total (N = 17)	HLA-A*02:01 status	Positive (n = 6)	Negative (n = 11)	Total (N = 17)	
Best overall response, n (%)				Best overall response, n (%)				
CR	0	0	0	PR	1 (16.7)	4 (36.4)	5 (29.4)	
PR	1 (33.3)	4 (28.6)	5 (29.4)	SD	2 (33.3)	3 (27.3)	5 (29.4)	
SD	0	5 (35.7)	5 (29.4)	PD/NE	3 (50.0)	4 (36.4)	7 (41.2)	
PD	1 (33.3)	4 (28.6)	5 (29.4)	<ul> <li>Responses were observed in both HLA-A2*02:01– positive and –negative patients</li> <li>The majority of patients (70.6% [12/17]) received both prior anti–PD-1 and anti–CTLA-4 therapy</li> </ul>				
NEb	1 (33.3)	1 (33.3)	2 (11.8)					
ORR (CR + PR)	1 (33.3)	4 (28.6)	5 (29.4)					
				•				

10 (58.8)

### ASCO 2024 Results: Safety Profile in Uveal Melanoma



Patients with TRAEs	Grade 1–2ª	Grade 3	Grade 4–5
RP2 monotherapy (n = 3)	2 (66.7)	0	0
Hypotension	2 (66.7)	0	0
Chills	1 (33.3)	0	0
Hyperhidrosis	1 (33.3)	0	0
Pyrexia	1 (33.3)	0	0
Rash	1 (33.3)	0	0
Vomiting	1 (33.3)	0	0
RP2 + nivolumab (n = 14)	13 (92.9)	6 (42.9) <sup>b</sup>	0
Pyrexia	10 (71.4)	0	0
Chills	7 (50.0)	0	0
Fatigue	4 (28.6)	0	0
Pruritus	4 (28.6)	0	0
Hypotension	2 (14.3)	2 (14.3)	0
Infusion-related reaction	2 (14.3)	1 (7.1)	0
Headache	2 (14.3)	0	0
Influenza-like illness	2 (14.3)	0	0
Nausea	2 (14.3)	0	0

- The most common grade 1 or 2 TRAEs (≥20%) in both cohorts combined were pyrexia, chills, fatigue, hypotension, and pruritus
- Both cases of grade 3 hypotension were transient and readily managed with crystalloid repletion
- There were no grade 4 or 5 TRAEs
- In patients who underwent intrahepatic injections, there were no clinically significant bleeding events

## RP2-202: Metastatic Uveal Melanoma Study Registration-Directed Clinical Trial





Immune-checkpoint inhibitor naïve

≤1 prior line



**Dual Primary Independent Endpoints Progression Free Survival** 

**Overall Survival** 

**Key Secondary Endpoints** 

Objective Response Rate, **Duration of Response** and Disease Control Rate

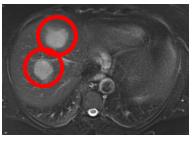
### **Uveal Melanoma Patient Featured in ITV News**

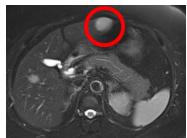
Prior nivolumab+ipilimumab - PR (RP2+nivolumab)

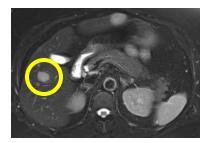


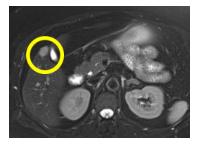
Pt 201-4403-0017 -

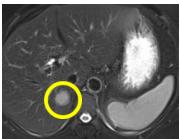
Screening









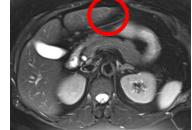


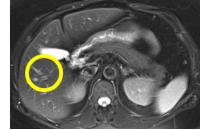


ongoing PR

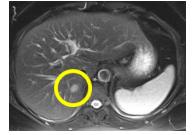












Patient has ongoing PR at 19 months



"This trial has given me hope in the treatment, the trial, my care, and I'm happy. I don't think about dying anymore at all"

ITV, 03 November 2023







### Mucoepidermoid Carcinoma Monotherapy Patient Featured in BBC News Prior carboplatin/paclitaxel, bicalutamide, ceralasertib - ongoing CR>2 years (RP2 mono)







Home News Sport Business Innovation Culture Travel Earth Video Live



Krzysztof's cancer is no longer detectable



"My final lifeline"

"I had injections every two weeks for five weeks which completely eradicated my cancer. I've been cancer-free for two years now."













"It's a true miracle, there is no other word to describe it. I've been able to work as a builder again and spend time with my family, there's nothing I can't do."

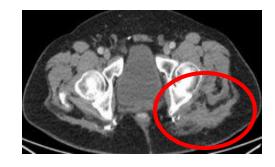
## RP2 Monotherapy Patient with Chordoma Prior imatinib - ongoing PR at over 8 months (RP2 monotherapy)



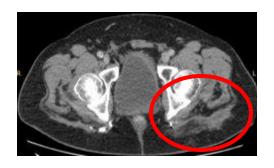
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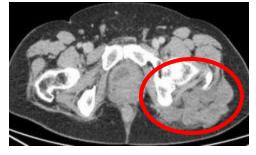


3 months



6 months















#### Pt 4401-0029 ongoing PR

- Left gluteal muscle injected
- Liver & >50 small lung lesions also disappeared during treatment

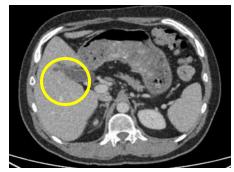


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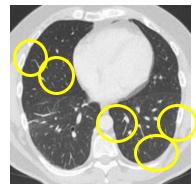
Baseline 3 months 6 months

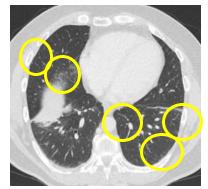


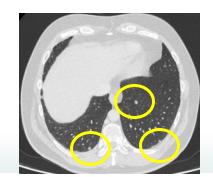


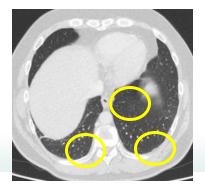


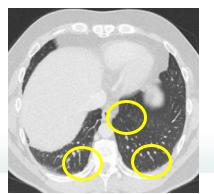












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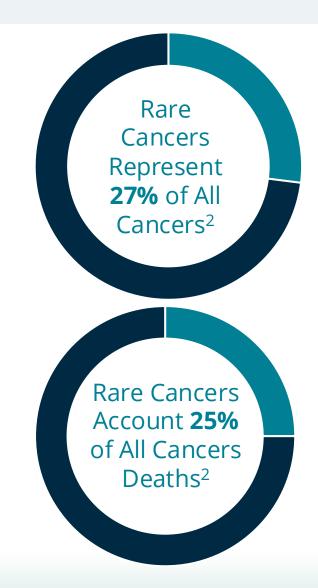
- Left gluteal muscle lesion injected
- Liver & >50 small lung lesions also disappeared during treatment



## Uveal Melanoma is the Foundation for a Potential Rare Cancer Franchise



- Treatment with RP2 has led to responses in rare cancer settings including uveal, chordoma, and mucoepidermoid carcinoma<sup>1</sup>
  - Durable monotherapy and combination responses demonstrated in multiple immune insensitive tumor types<sup>1</sup>
- Rare cancers present a significant unmet need and potential for paths to market for RP2
  - Uveal melanoma as a foundation; registration-directed clinical trial in metastatic uveal melanoma underway
  - Potential to expand to other rare cancers based on clinical activity observed with RP2 (soft tissue sarcomas, rare head and neck, etc.)<sup>1</sup>



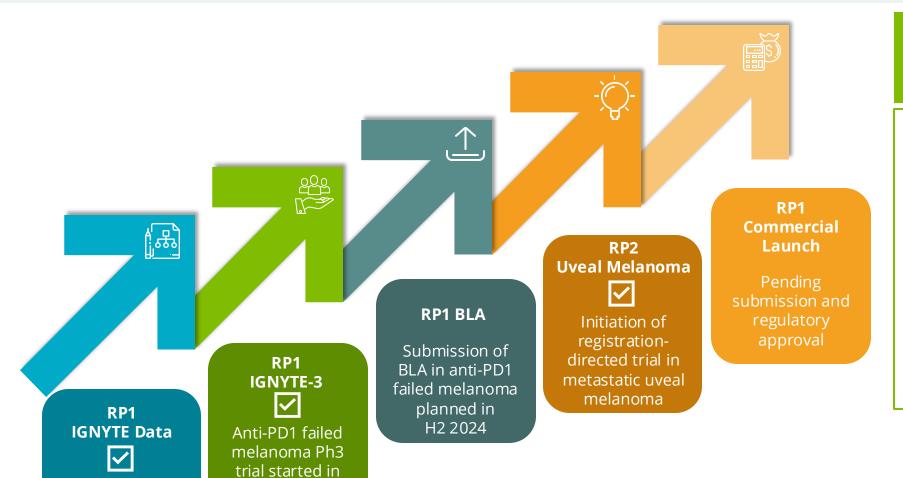
### **Upcoming Milestones to Drive Value**

O3 2024

Primary analysis

by independent central review





#### Positioned to Bring our Oncolytic Immunotherapies to Market

- ✓ All programs wholly owned
- Potential to deliver substantial commercial revenues beginning in late 2025
- ✓ Strong financial position with cash of \$469.1 as of 30 June 2024
- Cash runway into 2H 2026

