

June 2020

#### 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 of our clinical trials, 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, 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 the SARS-COV-2 coronavirus as a global pandemic and related public health issues, 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.



- Proprietary 'Immulytic' oncolytic immuno-gene therapy platform
  - Intended to maximally activate the immune system against a patient's cancer
  - Intended to establish Replimune's products as the second cornerstone of immuno-oncology
- RP1 in multiple clinical trials, with current focus on immune-responsive tumors
  - Lead indication advanced cutaneous squamous cell carcinoma (CSCC) is a commercially attractive indication
    - Strong efficacy signal from single arm data in combination with Opdivo data updated today
    - Ongoing 240 patient <u>registration directed</u> randomized trial in combination with Libtayo
    - Single agent study in organ transplant recipients contra-indicated for anti-PD1 enrolling
  - Anti-PD1 refractory melanoma
    - 125 patient cohort enrolling
    - Strong signal from current RP1 combined with Opdivo melanoma cohort data updated today
- RP2 & RP3 intended to treat less immune-responsive tumors
  - Ongoing Phase 1 clinical trial of RP2 alone & combined with Opdivo
  - Safety & efficacy with single agent RP2 & initial data combined with Opdivo expected by end 2020
  - RP3 intended to enter the clinic in H2 2020

### The most experienced oncolytic immunotherapy team



PHILIP ASTLEY-SPARKE
Chief Executive Officer
CEO BioVex, Chairman at uniQure



ROB COFFIN

President and Chief R&D Officer
Founder & CTO at BioVex, VP at
Amgen



COLIN LOVE
Chief Operating Officer
SVP BioVex; VP at Amgen through TVec BLA filling



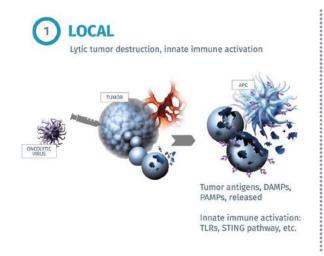
JEAN M. FRANCHI Chief Financial Officer CFO Merrimack Pharmaceuticals; CFO Dimension Therapeutics

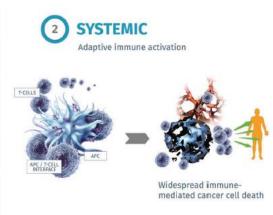


PAMELA ESPOSITO
Chief Business Officer
VP BD at BioVex; CBO at Ra
Pharmaceuticals

### Oncolytic immunotherapy

- The use of viruses that selectively replicate in & kill tumors to treat cancer
  - Highly inflammatory
  - Activates both innate and adaptive immunity
  - Releases the full array of tumor antigens into an inflamed environment
  - Systemically activates the immune system against the tumor & neo-antigens released
  - Can be 'armed' with additional genes to increase efficacy
- Single agent T-Vec is FDA approved for the treatment of advanced melanoma







### Replimune's differentiated approach

Our platform offers significant advantages compared to competing approaches, such as cell-based therapies, including TILs, and personalized vaccines

Competitive dimension	Cell-based therapy (including TILs)	Personalized Vaccines	Replimune's Immulytic Platform
"Off the shelf" – no patient- specific manufacturing	×	×	<b>✓</b>
Attractive, commercially viable COGS	×	X	
Incorporates multiple modalities (incl innate and adaptive immunity)	×	X	<b>✓</b>
Desirable safety profile, without a high frequency of high grade side effects including death	×	<b>✓</b>	<b>✓</b>
Potentially applicable to nearly all patients with solid	×	×	<b>✓</b>
tumors			Replimune

### Replimune's platform

# 1. A potent underlying virus strain

Replimune believes HSV to be the most potent, versatile & clinically validated virus species for oncolytic use

There is great diversity among clinical HSV strains

29 new clinical strains were tested & the most effective engineered for oncolytic use





## 2. Increased tumor killing & spread

Armed with GM-CSF & a potent fusogenic protein (GALV-GP R-)

Increases direct & immunogenic tumor killing\*

Intended for immune responsive tumor types

## 3. Delivery of potent immune stimulatory proteins

Focus on *clinically validated* pathways which function at the time & place of immune response initiation, but where systemic engagement is sub-optimal

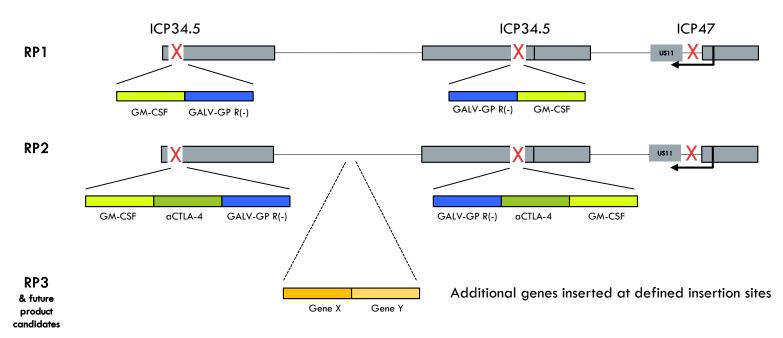
- Anti-CTLA-4
- Immune-costimulatory pathway activators
- Aims to increase efficacy while reducing toxicity

Intended for less & non-immune responsive tumor types

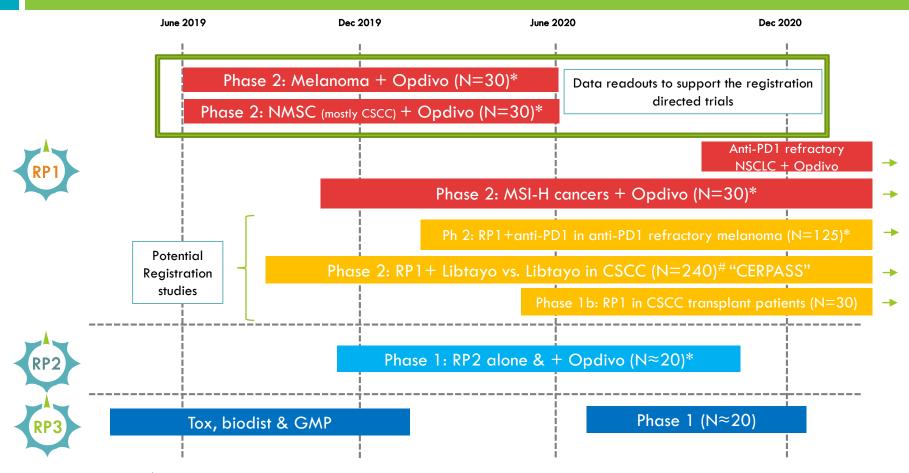
<sup>\*</sup> Replimune pre-clinical data published in Thomas et at JITC 2019

### Our "plug and play" platform approach

- New products candidates encoding new therapeutic genes can be rapidly developed from conception to initiation of clinical trials in <18 months</li>
- Future therapeutic genes driven by evolving scientific understanding, and ongoing clinical validation of targets



### Replimune's development plan



<sup>\*</sup> Under clinical trial collaboration & supply agreement with BMS for the supply of Opdivo – full commercial rights retained by Replimune

<sup>#</sup> Under clinical trial collaboration agreement with Regeneron; 50:50 sharing of clinical trial costs – full commercial rights retained by Replimune

### Summary Data



#### Data presented to date supports the current registration-directed clinical trials

#### Cutaneous squamous cell carcinoma data update

- Six of seven patients with follow up treated with RP1+Opdivo have ongoing PRs or CRs → Never seen before with historical approaches
- Four patients with ongoing CRs (including of uninjected distant tumors): Clear differentiation from anti-PD1
  monotherapy
- Data continues to highlight RP1 is well tolerated, demonstrates immune activation & continues to drive durable and deep responses in patients with CSCC → Systemic activity demonstrated to be robust and durable

Anti-PD1 refractory cutaneous melanoma data update illustrates promising activity providing significant opportunity for an effective approach

- 16 patients treated with RP1 in combination with Opdivo
  - 5 patients in response 2 further patients remain on treatment with the opportunity for response
  - These responses (which include patients with extensive visceral disease) wouldn't be expected with a second line of anti-PD1; 4/5 patients had failed prior combined Yervoy/Opdivo
- Activity also shown in anti-PD1 refractory uveal and mucosal melanoma patients

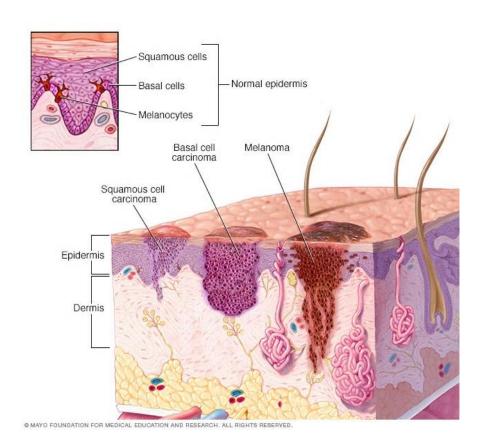
### CSCC opportunity overview



#### Lead indication overview: CSCC



- The second most common skin cancer with  $\approx$ 700,000 patients annually in the U.S.<sup>1</sup>
- Occurs when DNA damage from exposure to ultraviolet radiation or other agents triggers abnormal changes to squamous cells
- 10% have 'high risk' disease (recurs following initial surgery)
- Approximately 7,000-15,000 US deaths annually<sup>1-3</sup>
  - Most conservative addressable population
  - 80% of patients die from locoregional progression, not metastatic disease<sup>4,5</sup>
- Potential US market estimated at 7,000-28,000 patients annually<sup>1-4</sup>
- Only approved anti-PD-1 therapy: Libtayo (Regeneron)



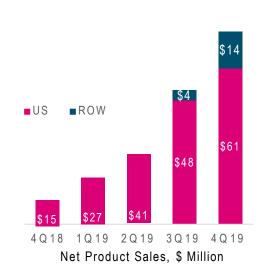
<sup>&</sup>lt;sup>1</sup>Rogers et al JAMA Dermatol **10** 2015

<sup>&</sup>lt;sup>2</sup>Clayman et al JCO **23** 2005

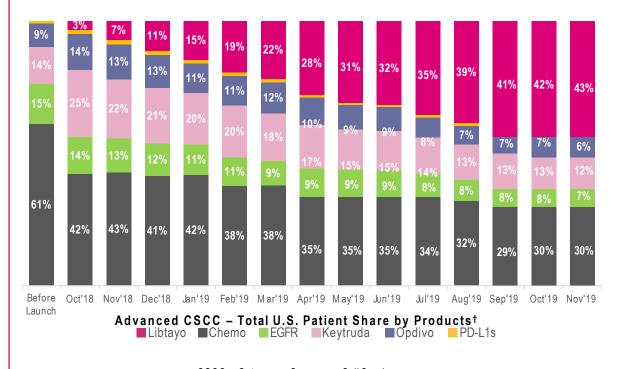
<sup>&</sup>lt;sup>3</sup>Mansouri et al J Am Acad Dermatol **153** 2017

### Regeneron has paved the way in CSCC

## Libtayo generated $\sim$ \$200M in 1st year sales



#### Libtayo captured market share of systemic therapies



CSCC – Cutaneous Squamous Cell Carcinoma † Source: Regeneron Q1 2020 Corporate Presentation Updated IQVIA – Claims through Nov'19



### Single agent anti-PD1 data in advanced CSCC

	Libtayo				Keytruda	Opdivo	
Patient population	Locally ac	lvanced	metastatic		47 locally advanced + 58 metastatic	4 locally advanced, 16 locoregional, 4 metastatic	
Number of patients	33 (per label, 2018)	78 (ASCO 2020)	75 (per label, 2018)	59 (ASCO 2020)	105 (ESMO 2019)	24 (ASCO 2020)	
ORR	48.5%	45%	46.7%	51%	34.3%	54.5%	
CR	0%	13%	5.3%	20%	3.8%	0%	



### Lead indication: CSCC – the CERPASS study



- Registration-directed randomized controlled trial in collaboration with Regeneron
  - 240 patients
  - Randomized 2:1 (RP1+ Libtayo vs. Libtayo alone)
  - Primary endpoint ORR
  - Secondary endpoints include CR rate, duration of response, PFS, OS
- Aim to show 15% delta improvement in ORR
  - Control arm ORR expectation based on anti-PD1 single agent data 34-51%
  - Control arm CR expectation based on anti-PD1 single agent data <10% at data cut off</li>
- Aim to also improve durability and show multi-fold (2-3x) improvement in CR rate

#### Additional clinical trials in CSCC



- 30 patient clinical trial of <u>single agent</u> RP1 open for enrollment in solid organ transplant recipients (liver & kidney)
  - Organ transplant recipients are at increased risk of malignancy, with CSCC most prevalent
  - 70% of patients develop CSCC within 20 years<sup>1</sup>
  - Anti-PD1 therapy contra-indicated due to the risk of organ rejection in around 40% of patients
  - Clinical data indicates that RP1 has single agent activity in CSCC
- Intend expansion of the CSCC program to also include neoadjuvant use

<sup>&</sup>lt;sup>1</sup>Fisher et al J Am Acad Dermatol **82** 2020

### RP1 + Opdivo data summary in advanced CSCC

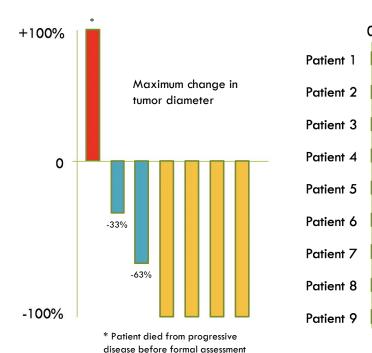
#### So far, nine patients have been treated with RP1 + Opdivo:

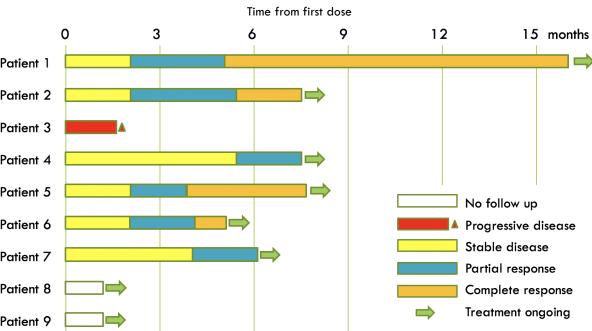
- 4 locally advanced, 5 metastatic, 56% had prior systemic therapy
- 6/7 patients with follow up in ongoing response
  - Patient 1: Ongoing CR
  - Patient 2: Ongoing CR (previously PR)
  - Patient 3: PD
  - Patient 4: Ongoing PR
  - Patient 5: Ongoing CR
  - Patient 6: Ongoing CR (new)
  - Patient 7: Ongoing PR (new)
  - Patient 8: Initiated dosing 24th April 2020 (no follow up)
  - Patient 9: Initiated dosing 28th April 2020 (no follow up)

#### Other NMSC patients enrolled:

- BCC: N=2 (PD, no follow up yet)
- Merkel cell carcinoma: N=1 (PD)
- Angiosarcoma: N=2 (PR, no follow up yet)

### Responses are deep & all are ongoing to date





# Anti-PD-1 refractory melanoma opportunity overview



### Anti-PD1 refractory melanoma - market opportunity



- Approximately half of advanced melanoma patients still die of their disease, despite multiple approved therapies now being available
  - Anti-PD1, anti-CTLA-4, combined anti-CTLA-4/anti-PD1, BRAF targeted agents
- Approximately 7,230 US deaths annually from metastatic melanoma<sup>1</sup>
- Approximately 62,000 deaths annually world-wide
- High unmet medical need for patients with baseline resistance to checkpoint therapy
- 40-65% of all metastatic melanoma are primary refractory to initial anti-PD1 therapy<sup>2</sup>
- The expected response rate to retreatment with anti-PD1 therapy following progression on single agent anti-PD1 is  $6-7\%^3$
- The expected response rate to Yervoy having failed initial single agent anti-PD1 is 13%<sup>4</sup>

<sup>1</sup> https://seer.cancer.gov (2019 data)

<sup>&</sup>lt;sup>2</sup> Gide et al Clin. Cancer Res **24** 2018

<sup>&</sup>lt;sup>3</sup> Ribas et al Lancet Oncology 19 2018; Hodi et al JCO 34 2016

<sup>&</sup>lt;sup>4</sup> Pires de Sliva et al ASCO 2020

### Anti-PD1 refractory melanoma; 125 patient study underway



- Enrollment of a 125 patient potentially registrational cohort underway
  - RP1 combined with Opdivo
  - Hurdle for success intended to be discussed with FDA late 2020
  - ORR to a second line of anti-PD1 is estimated at <u>6-7%</u><sup>1</sup>
- Targeting patients with primary/acquired resistance to anti-PD1 therapy
  - Treated with anti-PD1 or anti-PD1/anti-CTLA-4 for at least 12 weeks with progression confirmed on successive scans
  - Includes patients failing anti-PD1 adjuvant therapy
  - Very unlikely to respond to further treatment with single agent anti-PD1
  - High un-met medical need

<sup>&</sup>lt;sup>1</sup>Ribas et al Lancet Oncology **19** 2018; Hodi et al JCO **34** 2016

### Melanoma data summary

- 36 melanoma patients have been enrolled & treated with RP1 combined with Opdivo, with the last patient enrolled on Jan 7th 2020\*
- As of May 2<sup>nd</sup> 2020 (data cut off), the status of the <u>anti-PD1 refractory cutaneous melanoma</u> (N=16 [8 having had prior anti-CTLA-4 and anti-PD1]) patients in this immature data set was:
  - Nine patients showed initial clinical benefit\*\*
  - Five patients so far have met the formal criteria for response\*\*\*; four of which had previously failed both anti-PD1 and anti-CTLA 4 therapies
  - Two further patients remain on treatment with the opportunity for response
  - The minimum final objective response rate (ORR) for these patients will therefore be 31%
  - Clinical data supported by biomarker data including reversal of T cell exclusion

### Melanoma data summary (cont.)

- As of May 2<sup>nd</sup> 2020 (data cut off), the status of the patients in this immature data set was:
  - Anti-PD1 naive cutaneous melanoma (N=8):
    - Eight patients showed initial clinical benefit\*
    - Four so far having met the formal definition of response
    - Two further patients remaining on treatment with the opportunity for response
  - Mucosal melanoma (N=6):
    - Three patients showed initial clinical benefit\*
    - Two met the formal definition of response\*\* (one anti-PD1 naive, one having had prior anti-PD1)
  - <u>Uveal melanoma</u> (N=6):
    - Five patients showed initial clinical benefit\* (all anti-PD1 refractory)
    - Two ongoing (extensive liver disease, both refractory to combined Opdivo and Yervoy)
      - One patient having a 27.3% reduction by RECIST (uni-dimensional measurement) / 61% reduction by WHO (bi-dimensional measurement)

\*SD or better with evidence of anti-tumor activity

### Safety of RP1 combined with Opdivo in patients with skin cancers

Treatment related treatment emergent adverse events (TEAEs) N=41								
Preferred term	Grade 1-2 (>15%) # (%)	Grade 3 (all) # (%)	Grade 4 (all) # (%)	Grade 5 (all) # (%)				
Pyrexia	17 (41.5)	1 (2.4)	0	0				
Chills	16 (39.0)	0	0	0				
Influenza like symptoms	11 (26.8)	0	0	0				
Fatigue	8 (19.5)	5 (12.2)	0	0				
Decreased appetite		1 (2.4)	0	0				
Dehydration		1 (2.4)	0	0				
Hypotension		1 (2.4)	0	0				
Lipase Increased		1 (2.4)	0	0				
Localised oedema		1 (2.4)	0	0				
Lymph node pain		1 (2.4)	0	0				
Oedema		1 (2.4)	0	0				
Rash		1 (2.4)	0	0				
Seroconversion test positive		1 (2.4)	0	0				
Total	34 (82.9)	8 (19.5)	0	0				
Patients who discontinued due to TEAE	4 (9.8)							

- Patients in the melanoma & NMSC phase 2 cohorts treated with RP1 combined with Opdivo as of 1st May 2020
- There continues to be a good safety profile, with most AE's being Grade 1/2 constitutional-type symptoms
- Injections into visceral tumors practical and well tolerated, with clinical activity seen

#### New cohort in anti-PD1 refractory NSCLC

- Anti-PD1 refractory NSCLC is an area of considerable un-met need, with no SOC/viable options
- RP1 combined with Opdivo has demonstrated the ability to shrink lung metastases
- RP1 combined with Opdivo shows activity in anti-PD1 refractory melanoma
- RP1 has been administered safely into lung tumors in multiple patients using imaging guidance
- The lung is an 'immune responsive' site
- Agreed with BMS to 'swap in' an anti-PD1 relapsed/refractory NSCLC cohort in place of the bladder cancer cohort



## Beyond immune responsive tumor types: RP2 & RP3



### RP2 & RP3: anti-CTLA-4 & co-stimulatory pathway agonist delivery

- Focus on delivery of proteins which act as the immune response is being generated
  - Systemic antibody approaches probably don't act at the right place or the right time
  - Potential for toxicity



- Delivery of anti-CTLA-4 directly into the tumor
- Blocks Treg activation/inhibition of T cell activation at the site of immune response initiation
- Retain the efficacy of Yervoy alone & in combination with anti-PD1 but reduce toxicity
  - Phase 1 trial alone & combined with Opdivo underway initial data expected late 2020



- Delivery immune co-stimulatory pathway activating ligands
- RP3 encodes anti-CTLA-4, CD40L & 4-1BBL
  - CD40L: Broadly activates both innate & adaptive immunity
  - 4-1BBL: Promotes the expansion of cellular & memory immune responses
  - Phase 1 trial alone & combined with anti-PD1 expected to initiate this year



### Critical focus on manufacturing

- RP1-RP3 currently manufactured by a CMO for ongoing clinical development
- For later stage development & commercialization, in-house manufacturing in place
- The team has extensive manufacturing experience
- 63,000 ft<sup>2</sup> manufacturing facility leased in July 2018 in Framingham, MA, appropriate for multi-product production
  - State of the art facility
  - Fully fitted out; first tech transfer run successfully completed
  - Scale sufficient to cover full global commercialization of Replimune's products at full capacity







#### Conclusions from today's data: "Building the Second Cornerstone of IO"

- RP1 CSCC
  - Significant expected commercial opportunity
  - Clear path to market
  - Frequency of CRs provides clear differentiation to anti-PD1 alone
  - Biomarkers (CD8 T cells & PD-L1) supportive
- RP1 Anti-PD1 refractory melanoma
  - Significant expected commercial opportunity
  - Clear activity in Yervoy/Opdivo failed patients, including with extensive visceral disease
  - Biomarkers (CD8 T cells & PD-L1) supportive
  - Activity also seen in mucosal & uveal melanoma patients
- RP1 Early indications of activity seen beyond skin cancers
- Clinical testing of RP1 combined with Opdivo in anti-PD1 refractory NSCLC planned



#### Looking ahead: Targeted milestones for the remainder of 2020\*

- RP1 CSCC
  - Complete recruitment of 30 patient NMSC cohort with Opdivo
  - Present data from first patients dosed in single agent transplant study
  - Plan for neoadjuvant study
- RP1 Anti-PD1 refractory melanoma
  - Discuss potential path to market with FDA
  - Report mature data set from 30 patient completed cohort with Opdivo
- RP1 Finalize planning for anti-PD1 refractory NSCLC cohort
- RP2 Initial data from phase 1 trial of RP2 alone & combined with nivolumab
- RP3 Phase 1 clinical trial to initiate

\*COVID-19 has impacted & is expected to continue to impact accrual & therefore the number of patients from whom data is expected to be available during 2020, with average expected length of follow up also expected to be reduced.



## **Appendix**

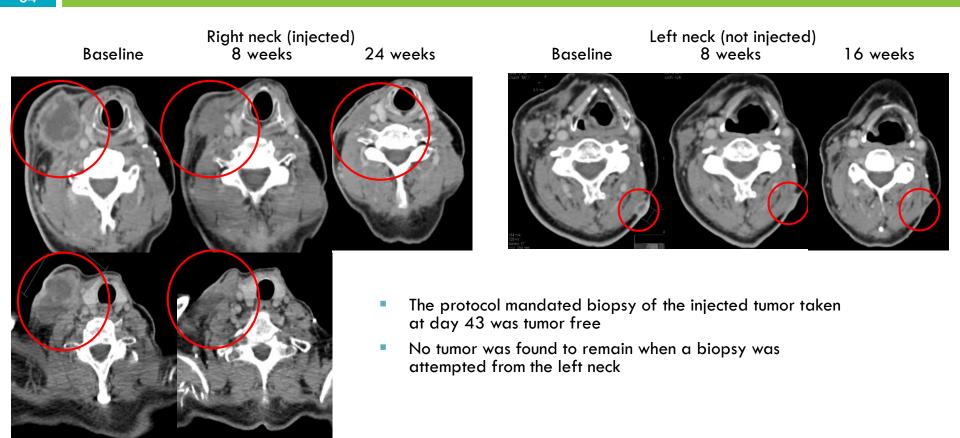


### **Current CSCC Patients**





- Patient with recurrent CSCC of the neck (bilateral, right injected), retroperitoneal nodes & bone metastases (not injected)
- Previously treated with cisplatin-based chemoradiation & carboplatin/5-FU
- Both the large injected tumor & the smaller contralateral tumor in the neck reduced considerably before the first Opdivo dose, i.e. after the first dose of RP1, followed by resolution of all disease



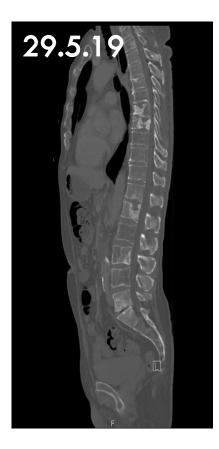








The patient also had baseline retroperitoneal tumors which have completely resolved

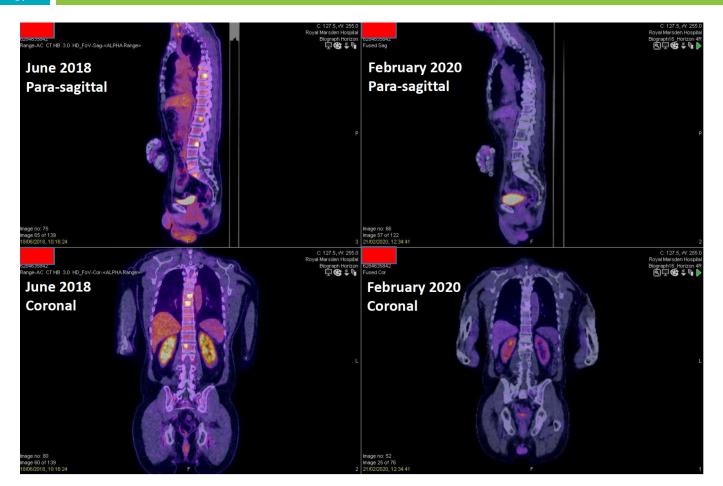






Complete sclerosis of all bone lesions with no areas of active disease. Declared radiological CR. Confirmed by PET scan (next slide)

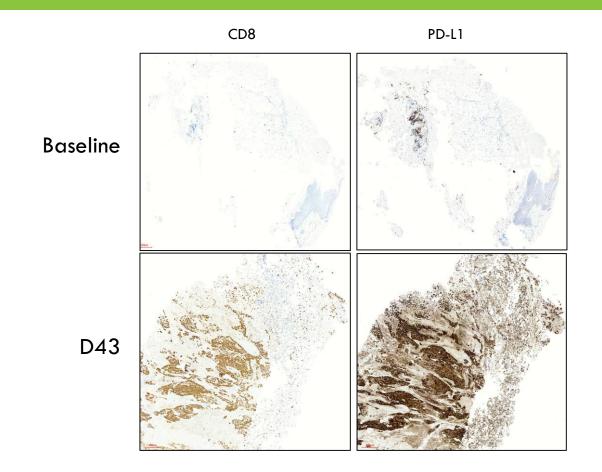




Bone metastases had substantially increased by CT between the prior PET scan (June 2018) and initiating the trial (June 2019), but no PET scan was performed at screening.

The PET scan to confirm CR of bone mets performed Feb 2020 showed no active disease

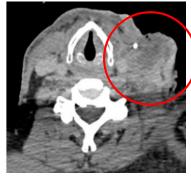
## Patient 2 (4402-2001): CD8 T cell & PD-L1 staining



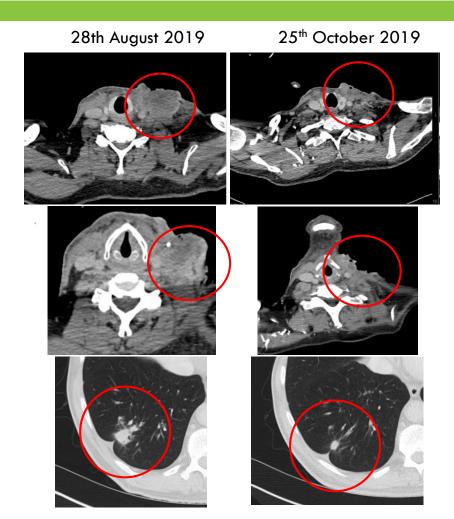








- Recurrent CSCC of the neck (injected) and lung metastases (not injected)
- Previously treated with radiotherapy with immediate relapse
- The large injected tumor in the neck flattened considerably after the first dose of RP1 (i.e. before the first Opdivo dose), & continued to reduce thereafter



 The only other sites of disease were lesions in the lung, which have also significantly reduced



41



- Recurrent, rapidly progressing CSCC of the left cheek with bone invasion through the maxillary region, previously treated with surgery & radiation before trial entry
- The lesion flattened considerably after the first dose of RP1, and continued to reduce after the first dose of Opdivo
- CR confirmed by biopsy in December



6<sup>th</sup> January 2020 23rd December 2019 20<sup>th</sup> January 2020 2<sup>nd</sup> March 2020 (post single RP1 dose, no Opdivo) (Baseline)

 Recurrent, rapidly progressing CSCC of the nasal region (3.5cm tumor), previously treated with carboplatin & radiation before trial entry





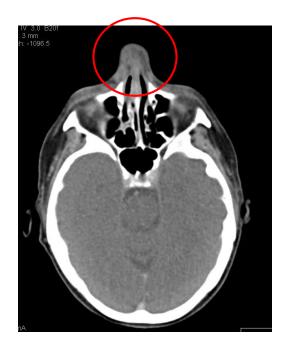




18<sup>th</sup> Dec 2019 (Screening)



2<sup>nd</sup> Feb 2020



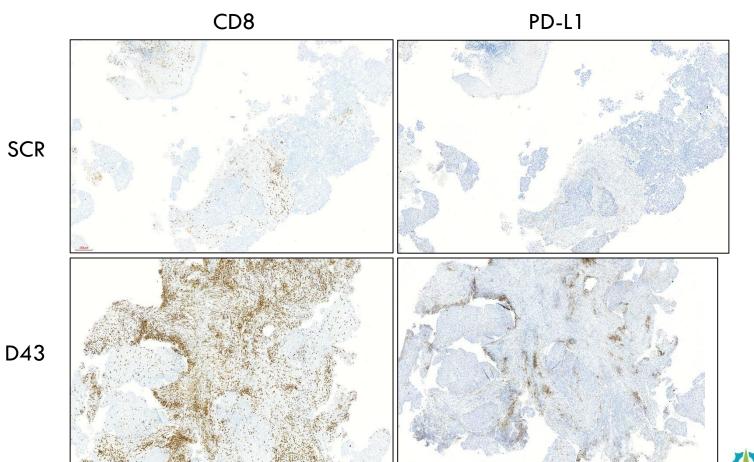
14<sup>th</sup> April 2020\*



\* CT done in a different plane to prior scans to maximally capture the affected area

The alternative to study treatment was rhinectomy





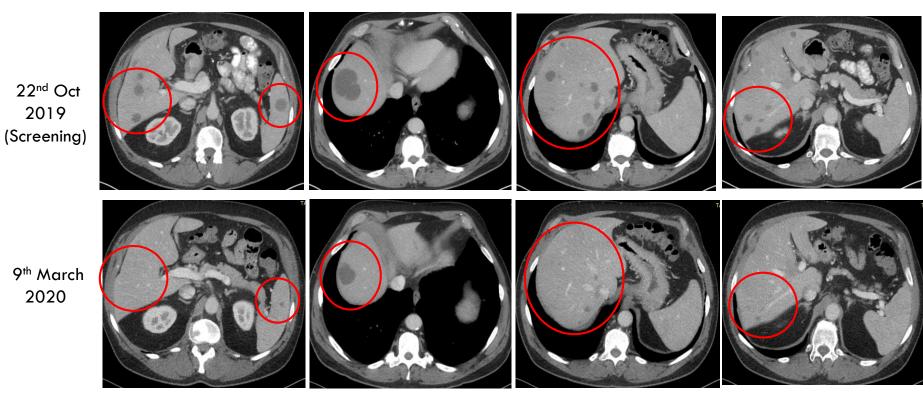


# Anti-PD1 refractory cutaneous melanoma patients



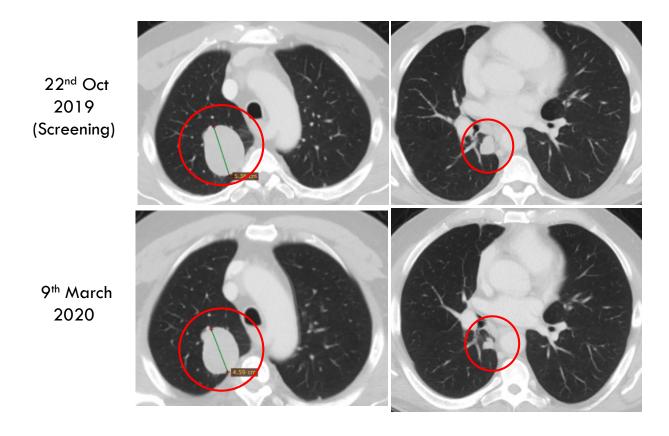
2019

2020



D43 liver biopsy tumor free

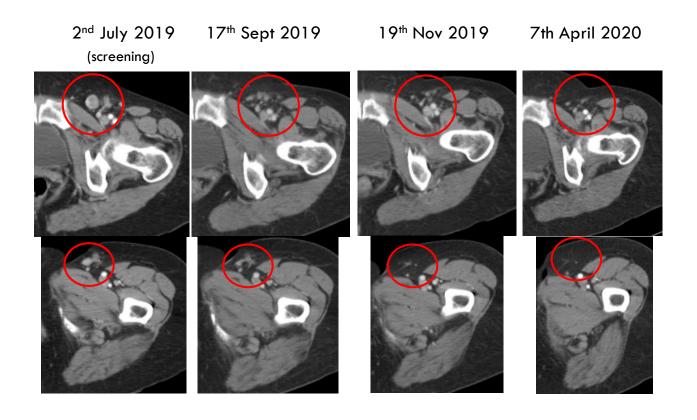
Reduction of injected & uninjected liver lesions



Reduction of uninjected lung lesions

#### Patient #: 1119-2003 (Yervoy/Opdivo refractory melanoma) — ongoing PR

26<sup>th</sup> August 2019 5<sup>th</sup> November 2019 7<sup>th</sup> April 2020 1<sup>st</sup> July 2019 (screening) 22nd October 2019 Biopsy awaited to confirm CR Disease in the foot, leg & nodes in the groin Initial progression in the leg/foot followed by response



#### Patient #: 4403-1003 (Yervoy/Opdivo refractory melanoma) — Ongoing PR



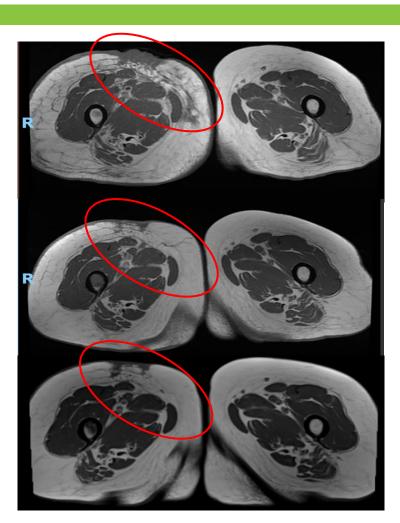
- Baseline disease in the thigh, groin & lungs
- Tumors in the thigh flattened after the first dose of RP1, i.e. prior to Opdivo & extensive oedema rapidly reduced

#### Patient #: 4403-1003 (Yervoy/Opdivo refractory melanoma) — ongoing PR

May 2019 (Baseline)

August 2019

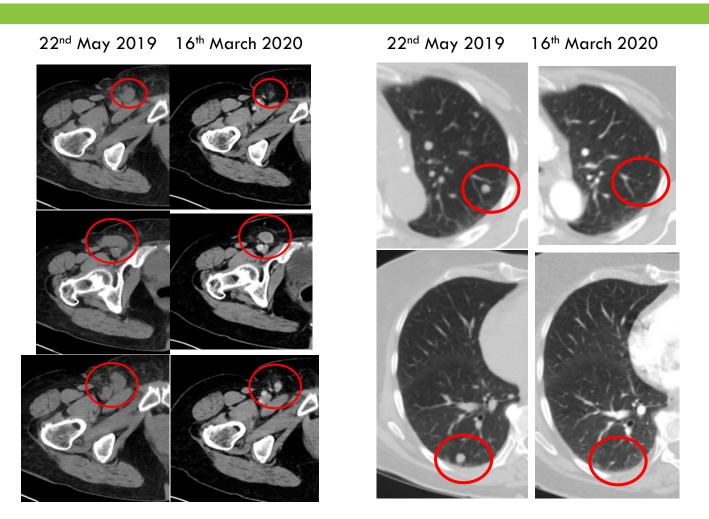
December 2019



- Patient quality of life has also greatly improved, from being essentially immobile to being fully mobile
- Patient remains on treatment at 10 months

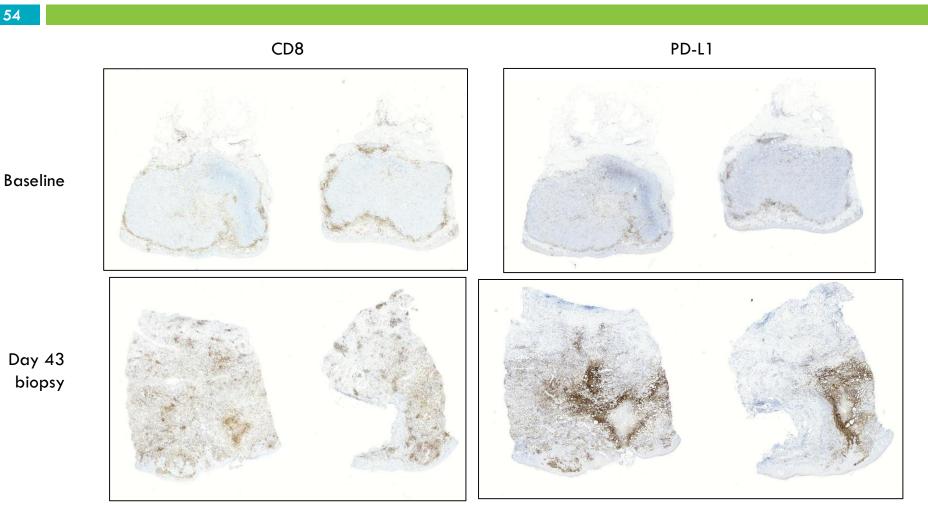


#### Patient #: 4403-1003 (Yervoy/Opdivo refractory melanoma) - ongoing PR



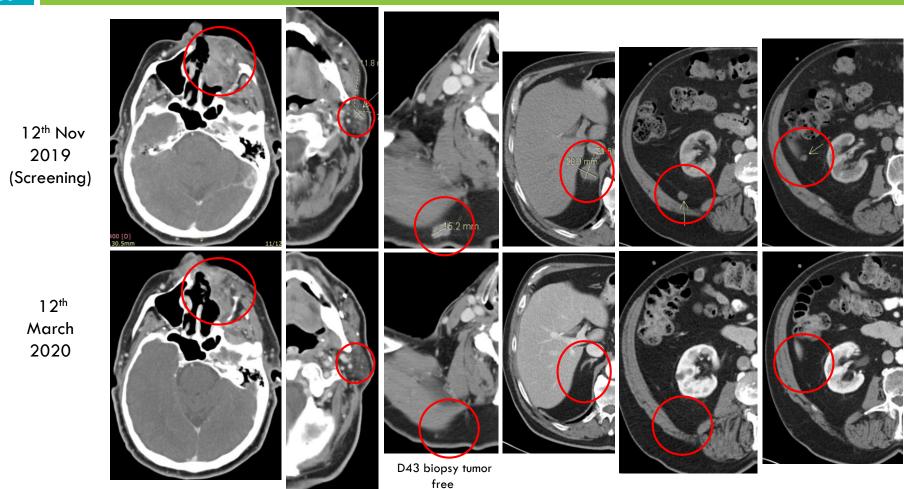
Reduction of uninjected lung lesions

#### Patient #: 4403-1003: Reversal of T cell exclusion with RP1 combined with Opdivo



# Mucosal melanoma patients





#### Patient #: 4401-2002 (pembrolizumab refractory mucosal melanoma) — ongoing CR

20<sup>th</sup> Aug 2019 (Screening)



15<sup>th</sup> Jan 2020



Excision biopsy tumor free 1st April 2020

# **Uveal melanoma patients**



#### Patient #: 4403-1001 (Yervoy/Opdivo refractory uveal melanoma)

Baseline (2<sup>nd</sup> Jan 2019)



24th April 2019



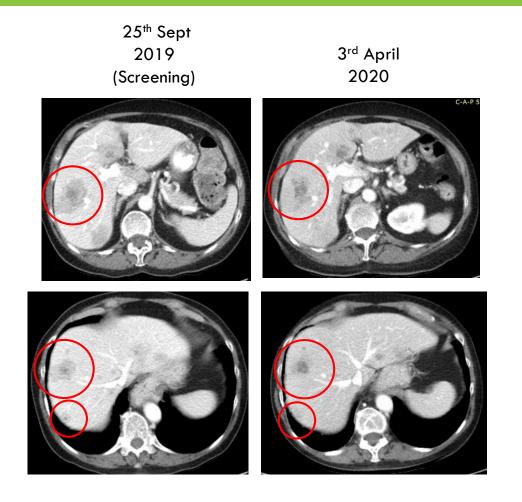
Baseline disease included multiple c/sc deposits up to 4cm, 5-13mm lung & liver mets, multiple intraabdominal up to 2cm.

Initial response in numerous c/sc deposits, including uninjected (some biopsied showing no remaining residual tumor) and large scalp lesion.

Other disease stable.

Treatment discontinued 20<sup>th</sup> Nov 2019 (new brain lesions).

#### Patient #: 1112-2002 (Yervoy/Opdivo refractory uveal melanoma)



- Patient with extensive disease in the liver
- 27.3% reduction by RECIST (unidimensional), 61% reduction by WHO (bi-dimensional)
- Treatment ongoing

#### Safety of RP1 combined with Opdivo in patients with skin cancers

Treatment related treatment emergent adverse events (TEAEs) N=41				
Preferred term	Grade 1-2 (>15%) # (%)	Grade 3 (all) # (%)	Grade 4 (all) # (%)	Grade 5 (all) # (%)
Pyrexia	17 (41.5)	1 (2.4)	0	0
Chills	16 (39.0)	0	0	0
Influenza like symptoms	11 (26.8)	0	0	0
Fatigue	8 (19.5)	5 (12.2)	0	0
Decreased appetite		1 (2.4)	0	0
Dehydration		1 (2.4)	0	0
Hypotension		1 (2.4)	0	0
Lipase Increased		1 (2.4)	0	0
Localised oedema		1 (2.4)	0	0
Lymph node pain		1 (2.4)	0	0
Oedema		1 (2.4)	0	0
Rash		1 (2.4)	0	0
Seroconversion test positive		1 (2.4)	0	0
Total	34 (82.9)	8 (19.5)	0	0
Patients who discontinued due to TEAE	4 (9.8)			

- Patients in the melanoma & NMSC phase 2 cohorts treated with RP1 combined with Opdivo as of 1st May 2020
- There continues to be a good safety profile, with most AE's being Grade 1/2 constitutional-type symptoms
- Injections into visceral tumors practical and well tolerated, with clinical activity seen

# RP1 in other tumor types



## Activity in a patient with angiosarcoma (ongoing PR)



 Patient withdrew from treatment due to Opdivo side effects

6<sup>th</sup> November 2019

18th February 2020



- 22 year old female with MSI-H rectal cancer
- Prior neoadjuvant FOLFOXIRI
- Treated with RP1 combined with Opdivo
- Ongoing PR
- Biopsy "No tumour present strips of dysplastic epithelium and inflammatory exudate only"









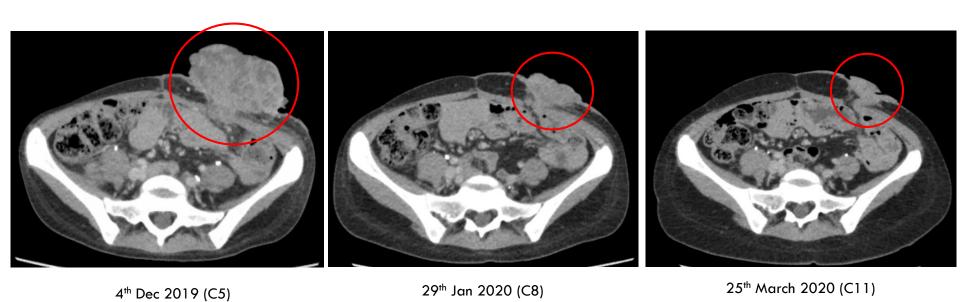
9th October 2019

20th November 2019

15th January 2020

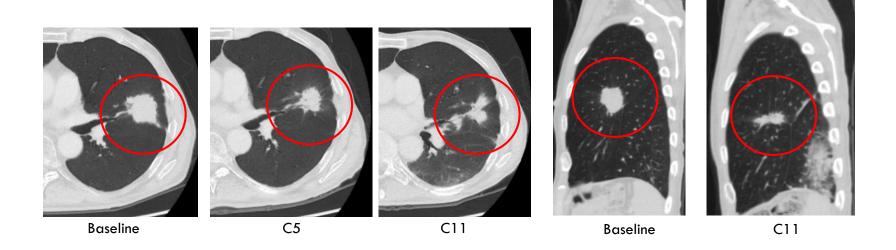
25<sup>th</sup> March 2020

Latest scan (March 2020) shows 87% reduction (including of uninjected abdominal disease)



#### Esophageal cancer

- Heavily pre-treated esophageal cancer (8 prior therapies)
- Lung lesions & lesions around the esophagus.
- Treated with RP1 combined with Opdivo
- Ongoing PR at 10 months



## Esophageal cancer: CD8 T cell & PD-L1 staining

