

July 2017

**Corporate Presentation** 



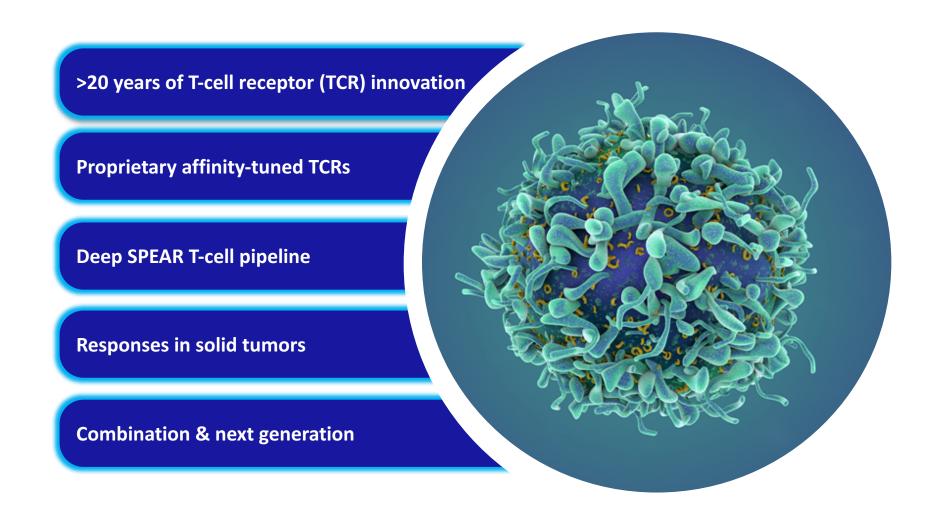
#### **Disclaimer**

This presentation contains "forward-looking statements," as that term is defined under the Private Securities Litigation Reform Act of 1995 (PSLRA), which statements may be identified by words such as "believe," "may", "will," "estimate," "continue," "anticipate," "intend," "expect" and other words of similar meaning. These forward-looking statements involve certain risks and uncertainties. Such risks and uncertainties could cause our actual results to differ materially from those indicated by such forward-looking statements, and include, without limitation: the success, cost and timing of our product development activities and clinical trials; our ability to submit an IND and successfully advance our technology platform to improve the safety and effectiveness of our existing TCR therapeutic candidates; the rate and degree of market acceptance of T-cell therapy generally and of our TCR therapeutic candidates; government regulation and approval, including, but not limited to, the expected regulatory approval timelines for TCR therapeutic candidates; and our ability to protect our proprietary technology and enforce our intellectual property rights; amongst others. For a further description of the risks and uncertainties that could cause our actual results to differ materially from those expressed in these forward-looking statements, as well as risks relating to our business in general, we refer you to our Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission (SEC) on May 10, 2017 and our other SEC filings.

We urge you to consider these factors carefully in evaluating the forward-looking statements herein and you are cautioned not to place undue reliance on such forward-looking statements, which are qualified in their entirety by this cautionary statement. The forward-looking statements contained in this presentation speak only as of the date the statements were made and we do not undertake any obligation to update such forward-looking statements to reflect subsequent events or circumstances. We intend that all forward-looking statements be subject to the safe-harbor provisions of the PSLRA.

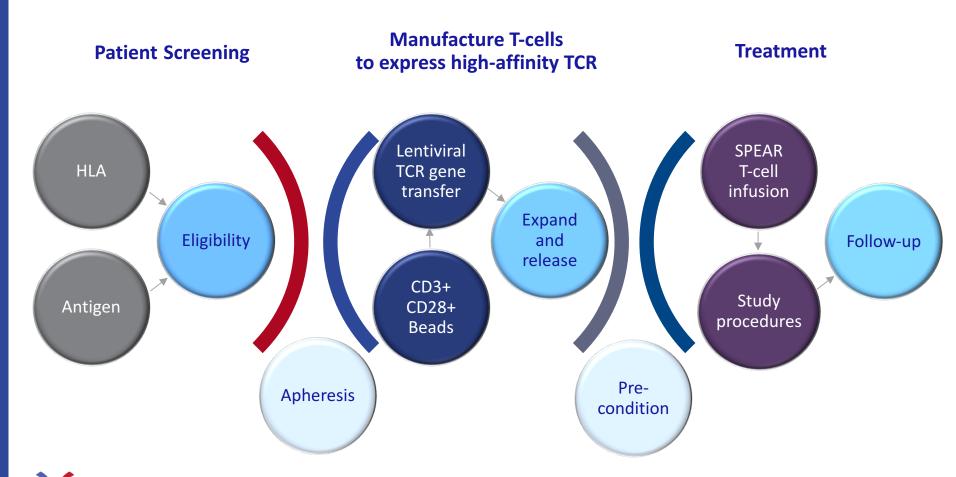


#### **Adaptimmune: Leading the TCR T-cell Space**





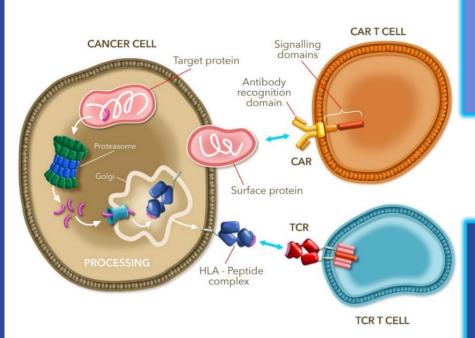
# **Autologous T-cell Therapy for Patients Using SPEAR T-cells to target solid tumors**





#### **CAR-T vs TCR**

#### Access to more targets with T-Cell Receptors (TCRs)



CAR-T

Very few targets; limited to extracellular

Chimeric antigen receptor; not designed to recognize an HLA peptide

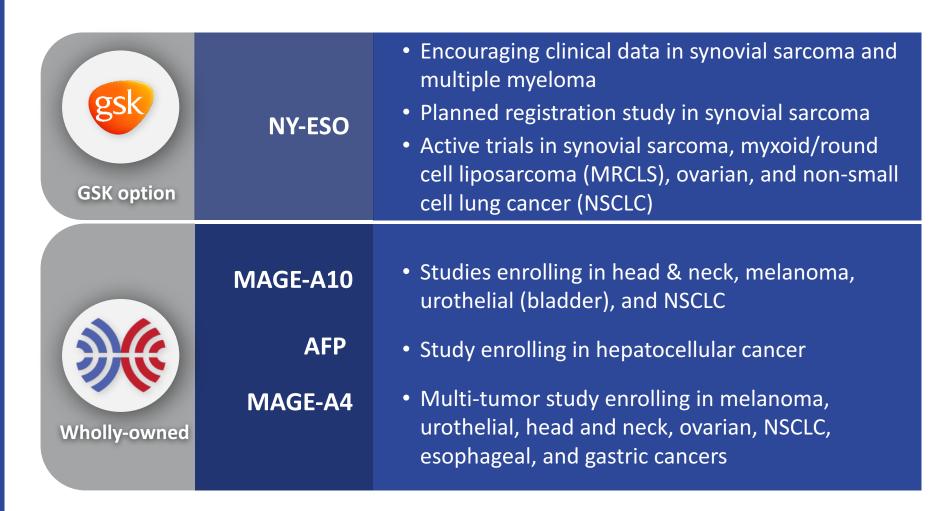
**TCRs** 

Access to extra- and intracellular proteins

Affinity tuned SPEAR TCRs overcome low target expression; required to address solid tumors



# Pipeline Overview Multiple TCR programs targeting solid tumors



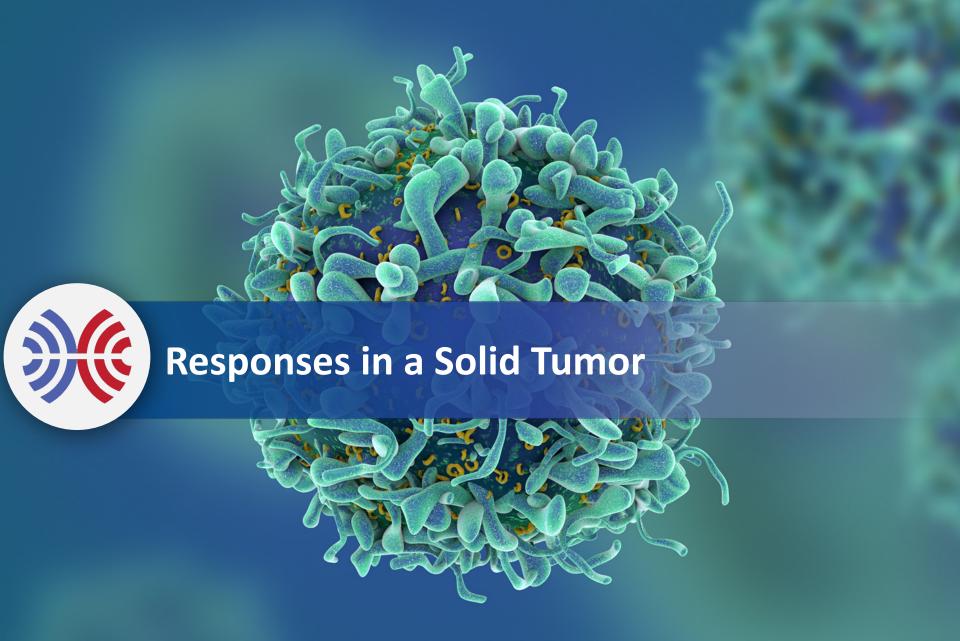


### **Clinical Pipeline**

#### Nine actively enrolling studies across eleven tumor types

| SPEAR<br>target | Indication   | Notes                                   | Phase I / II | Comment            |
|-----------------|--|---|--------------|--------------------|
| NY-ESO          | Synovial sarcoma   | Cohorts 1-4; registration study planned |              | ASCO Update        |
|                 | Myxoid / Round cell liposarcoma                                | Pilot study                             |              |                    |
|                 | Multiple myeloma   | Combination with anti-PD1 (KEYTRUDA)    |              | Initiated May 2017 |
|                 | Ovarian  | Modified CTX / FLU                      |              |                    |
|                 | Non-small cell lung cancer (NSCLC)                             | Modified CTX / FLU                      |              |                    |
| MAGE-A10        | NSCLC  | Modified CTX / FLU                      |              |                    |
|                 | Urothelial (bladder), melanoma, H&N                            | Modified CTX / FLU                      |              |                    |
| AFP             | Hepatocellular cancer  | Modified CTX / FLU                      |              | Initiated May 2017 |
| MAGE-A4         | Urothelial, melanoma, H&N, ovarian, NSCLC, esophageal, gastric | Modified CTX / FLU                      |              | Initiated May 2017 |





### **Key Study Design Elements**

#### **NY-ESO SPEAR T-cells in synovial sarcoma**

| Design Element | Overview   |
|----------------|--|
| Objectives     | <ul> <li>Primary – response rate by RECIST v1.1</li> <li>Secondary – overall survival, safety, duration of response, progression-free survival</li> <li>Exploratory – persistence, phenotype, and function of SPEAR T-cells; mechanisms of resistance and sensitivity</li> </ul>                                   |
| Cohorts        | <ul> <li>Cohort 1: High NY-ESO / Flu 30 mg/m²/day x 4 + Cy 1800 mg/m²/day x 2</li> <li>Cohort 2: Low NY-ESO / NY-ESO / Flu 30 mg/m²/day x 4 + Cy 1800 mg/m²/day x 2</li> <li>Cohort 3: High NY-ESO / Cy 1800 mg/m²/day x 2</li> <li>Cohort 4: High NY-ESO / Flu 30 mg/m²/day x 3 + Cy 600 mg/m²/day x 3</li> </ul> |



#### Synovial Sarcoma – Responses in all Cohorts

#### Registration study around end of year

## Cohort 1

(NY-ESOhi, CTX/FLUhi)

- ••60% response rate in patients at target dose
- Median predicted survival continues to increase (~37 mos)

## Cohort 2

(NY-ESOlow, CTX/FLUhi)

- •• 2 out of 5 patients with confirmed responses
- ••Enrollment ongoing

## Cohort 3

(NY-ESO<sup>hi</sup>, CTX<sup>hi</sup>; no FLU)

- One confirmed response
- Patient 309 case study

## Cohort 4

(NY-ESOhi, CTX/FLUlow)

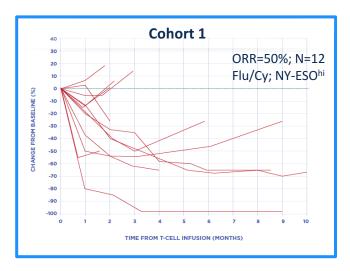
- ••3 out of 6 patients with confirmed responses
- ••Enrollment ongoing

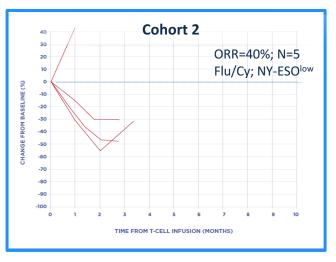
#### Positive response data in a solid tumor

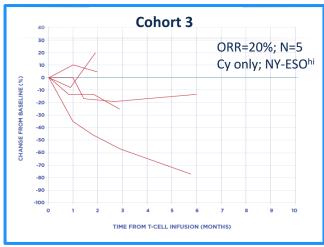


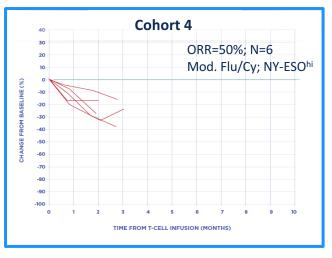
#### **Responses in all Cohorts**

#### Percent change from baseline in target lesions



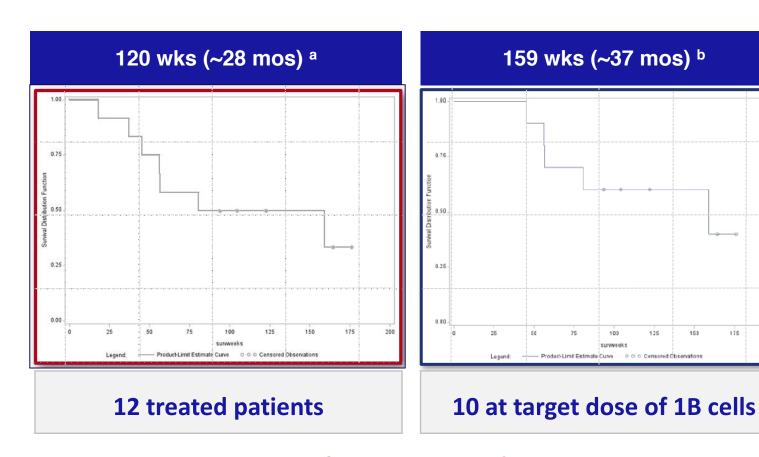








# Cohort 1 at target dose: ~37 mos. estimated survival Median estimated survival continues to increase



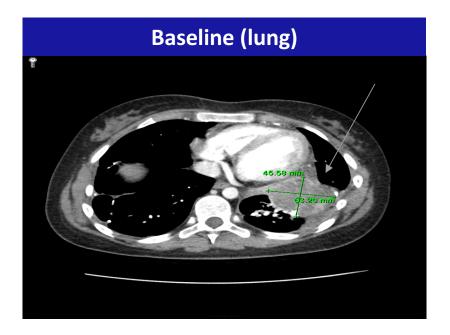
5 patients have survived ≥2 Years

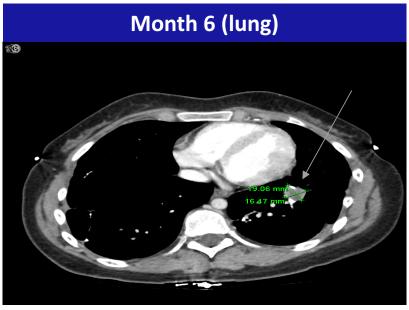


<sup>&</sup>lt;sup>b</sup> 95% CI (45, NE); log(-log) median OS

#### **Cohort 3: Case Study**

#### Patient 309





#### **Baseline:**

- 15-yr-old female with synovial sarcoma of left calf, bilateral lung metastases
- Heavily pre-treated; amputation above knee, thoracotomy
- On-study disease in lungs

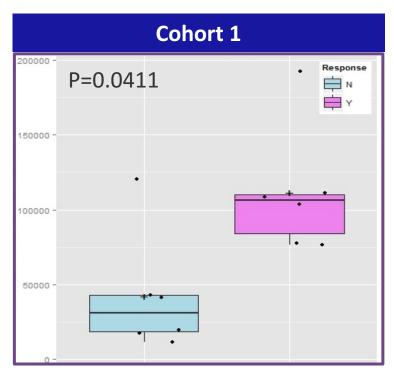
#### **Post-infusion:**

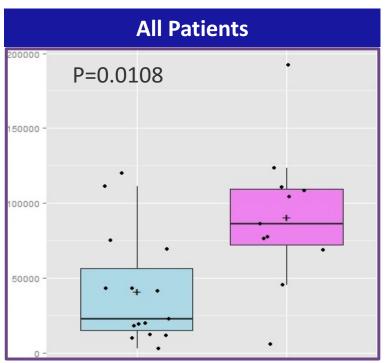
- 3.02 x 10<sup>9</sup> transduced cells
- CRS Day 2-3: Grade 2; resolved
- Partial response Week 4, confirmed Week 8, Month 6



### **Maximum Expansion Correlates with Response**

#### Non-responders vs. responders





Wilcoxon Rank Sum Test (Exact)



#### **SPEAR T-cells Well Tolerated**

#### Manageable toxicity to date in synovial sarcoma study

14.3% **CRS Grade 3 or above** No Grade 5 All cases resolved **Events of seizure, Neurotoxicity** cerebral edema, or encephalopathy



#### **NY-ESO** in Synovial Sarcoma

#### Well Tolerated with encouraging response and survival data

Initial efficacy results encouraging **Cohort 1 survival data promising NY-ESO SPEAR T-cells continue to be Maximal expansion** well tolerated appears to correlate with response





### **Portfolio across Major Cancers**

#### Extending eligible patient coverage across a range of solid tumors



MAGE-A10

MAGE-A4

- Studies enrolling in head & neck, melanoma, urothelial (bladder), and NSCLC
- Multi-tumor study enrolling in melanoma, urothelial, head and neck, ovarian, NSCLC, esophageal, and gastric cancers

#### **Lung Squamous Cell**

| NY-ESO-1                | 22% |
|-------------------------|-----|
| MAGE-A10                | 33% |
| MAGE-A4                 | 60% |
| Expression by 1 or more | 65% |

#### **Urothelial Cancer**

| NY-ESO-1                   | 2 | 4%  |  |
|----------------------------|---|-----|--|
| MAGE-A10                   | 3 | 1%  |  |
| MAGE-A4                    | 3 | 5%  |  |
| Expression by<br>1 or more | , | 48% |  |

#### **Head & Neck Cancer**

| NY-ESO-1                      | 10% |
|-------------------------------|-----|
| MAGE-A10                      | 14% |
| MAGE-A4                       | 42% |
| Expression<br>by 1 or<br>more | 44% |

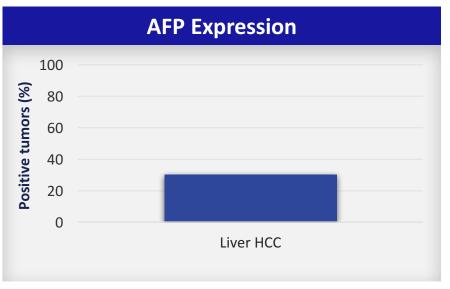


# Portfolio across Major Cancers AFP SPEAR T-cells in hepatocellular cancer



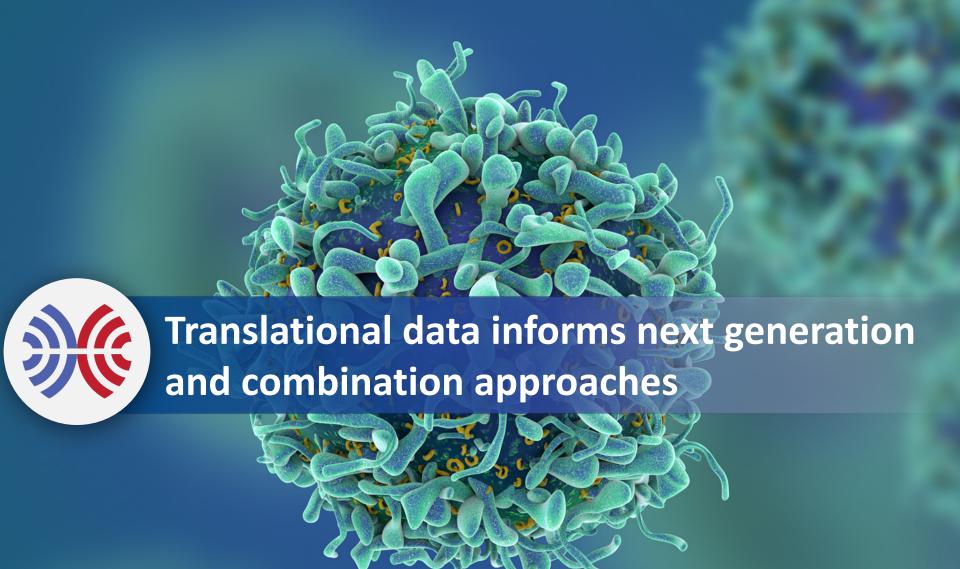
**AFP** 

Study enrolling in hepatocellular cancer



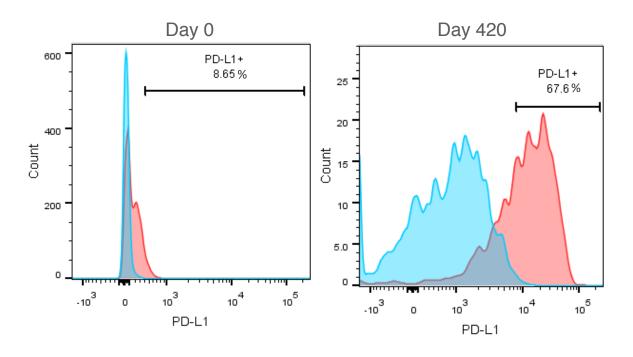
Source: TCGA Research Network: http://cancergenome.nih.gov, January 2016.





## PD-L1 Up-regulated in Relapsing Myeloma Patients

#### **Using Combination Therapy to Overcome Resistance**



NY-ESO-1 T-cells + PD-1 inhibitor (Keytruda®)

- Patients with Relapsed/refractory myeloma
- Cyclophosphamide/Fludarabine conditioning

Randomization 1:1

NY-ESO-1

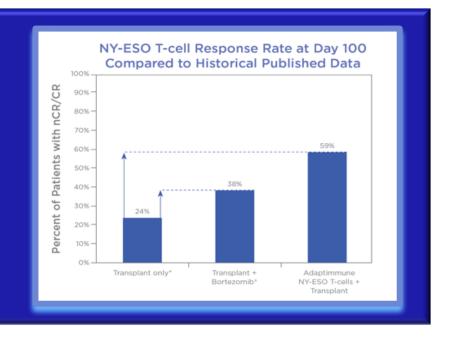
NY-ESO-1 + anti-PD1



# 91% Response Rate at Day 100 in Multiple Myeloma NY-ESO multiple myeloma study

| SPEAR target | Indication       | Notes                                | Phase I / II |         |
|--------------|------------------|--------------------------------------|--------------|---------|
| NY-ESO       | Multiple myeloma | Autologous SCT                       |              |         |
|              |                  | Combination with anti-PD1 (KEYTRUDA) |              |         |
|              |                  |                                      | Complete     | Ongoing |

- 3-year overall survival (OS) as of Jan, 2016
- 91 percent (20/22) response rate at day 100
- Median: PFS=19.1 months (11/2015)
- Manageable toxicity, highly persistent cells





# **Leading Innovation in Engineered T-cell Therapy Next Generation: Depth and Durability in Solid Tumors**

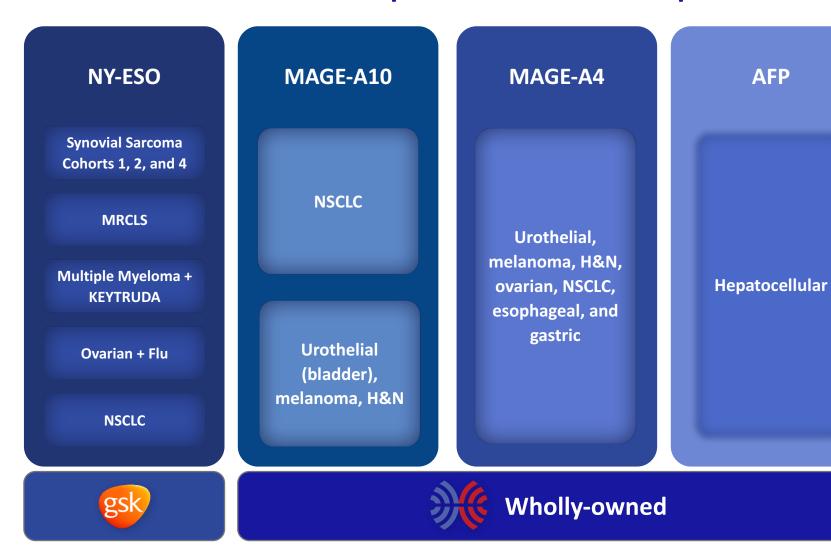
- Enhancing resistance to tumor microenvironment
  - ✓ Block effects of immunosuppression (e.g., TGF- $\beta$ )
  - ✓ Overcoming metabolic restrictions of tumor environment
  - ✓ Other internal programs in development
- Enhancing T-cell potency and function
  - ✓ Enhancement of Class-I restricted CD4 T-cell function
  - ✓ Enhancement of cytotoxic function
  - ✓ Enhancement of epitope spreading
  - ✓ Other internal programs in development
  - ✓ Partnership with Bellicum





#### **2017-2018: Data Delivery**

#### Potential for data from multiple SPEAR T-cell therapies





#### **Adaptimmune: Leading the TCR T-cell Space**

### **Platform**

- Deep pipeline of SPEAR T-cells across major cancers
- Extending patient coverage in range of solid tumors

### Momentum

- Nine enrolling trials in 11 tumor indications
- Encouraging data in synovial sarcoma

### Milestones

- Funded through to late 2019
- Data from multiple assets across a variety of solid tumors in the next 12 to 18 months

Positioned for significant data delivery 2017-2018





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