

# IMMUNOGEN

NASDAQ: IMGN

## TARGET A BETTER NOW

Current as of January 2018



## FORWARD-LOOKING STATEMENTS

This presentation includes forward-looking statements based on management's current expectations. These statements include, but are not limited to, ImmunoGen's expectations related to: the occurrence, timing and outcome of potential pre-clinical, clinical and regulatory events related to the Company's and its collaboration partners' product programs; the presentation of preclinical and clinical data on the Company's and its collaboration partners' product candidates; and the financial guidance provided. For these statements, ImmunoGen claims the protection of the safe harbor for forward-looking statements provided by the Private Securities Litigation Reform Act of 1995. Various factors could cause ImmunoGen's actual results to differ materially from those discussed or implied in the forward-looking statements, and you are cautioned not to place undue reliance on these forward-looking statements, which are current only as of the date of these slides. Factors that could cause future results to differ materially from such expectations include, but are not limited to: the timing and outcome of ImmunoGen's and its collaboration partners' research and clinical development processes; the difficulties inherent in the development of novel pharmaceuticals, including uncertainties as to the timing, expense and results of preclinical studies, clinical trials and regulatory processes; ImmunoGen's ability to financially support its product programs; the Company's dependence on its collaborative partners; industry merger and acquisition activity; and other factors more fully described in ImmunoGen's transition report on Form 10-KT for the six-month transition period ended December 31, 2016 and other reports filed with the Securities and Exchange Commission.

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## OUR COMMITMENT TO TARGET A BETTER NOW

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MIRVETUXIMAB  
PHASE 3 IN  
OVARIAN CANCER



LEADING ADC  
INNOVATION AND  
PIPELINE



PRODUCTIVE  
RESEARCH  
PLATFORM



PROVEN  
MANAGEMENT  
TEAM



STRONG CASH  
POSITION

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## ADVANCING OUR STRATEGIC PRIORITIES TO BRING ANTIBODY-DRUG CONJUGATES TO PATIENTS

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EXECUTE  
SPEED-TO-MARKET  
STRATEGY FOR  
MIRVETUXIMAB  
SORAVTANSINE

ACCELERATE NOVEL  
ADC PIPELINE



SUSTAIN LEADERSHIP  
IN ADC FIELD  
THROUGH PLATFORM  
INNOVATION

EXPAND REACH AND  
STRENGTHEN  
FINANCIALS THROUGH  
PARTNERSHIPS

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EXECUTED ON OUR  
2017 GOALS AND  
MUCH MORE



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#### MIRVETUXIMAB SORAVTANSINE

- FORWARD I global Phase 3 trial on track
- Phase I expansion cohorts pooled analysis at ASCO
- FORWARD II Phase 1b/2 combo data at ASCO
- Multiple clinical collaborations and data publications

#### ADC PIPELINE

- IMG779 Phase I clinical data at EHA and ASH
- IMG632 Phase I trial enrolling patients
- Collaboration with Jazz Pharmaceuticals
- MacroGenics partnership advanced ADAM9 into preclinical development

#### OPERATIONS

- Divested IMG529 to Debiopharm
- Convertible debt exchange
- \$102M public offering
- \$267M year-end cash<sup>1</sup>

<sup>1</sup>Unaudited cash and cash equivalents as of 12/31/17

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IMG779

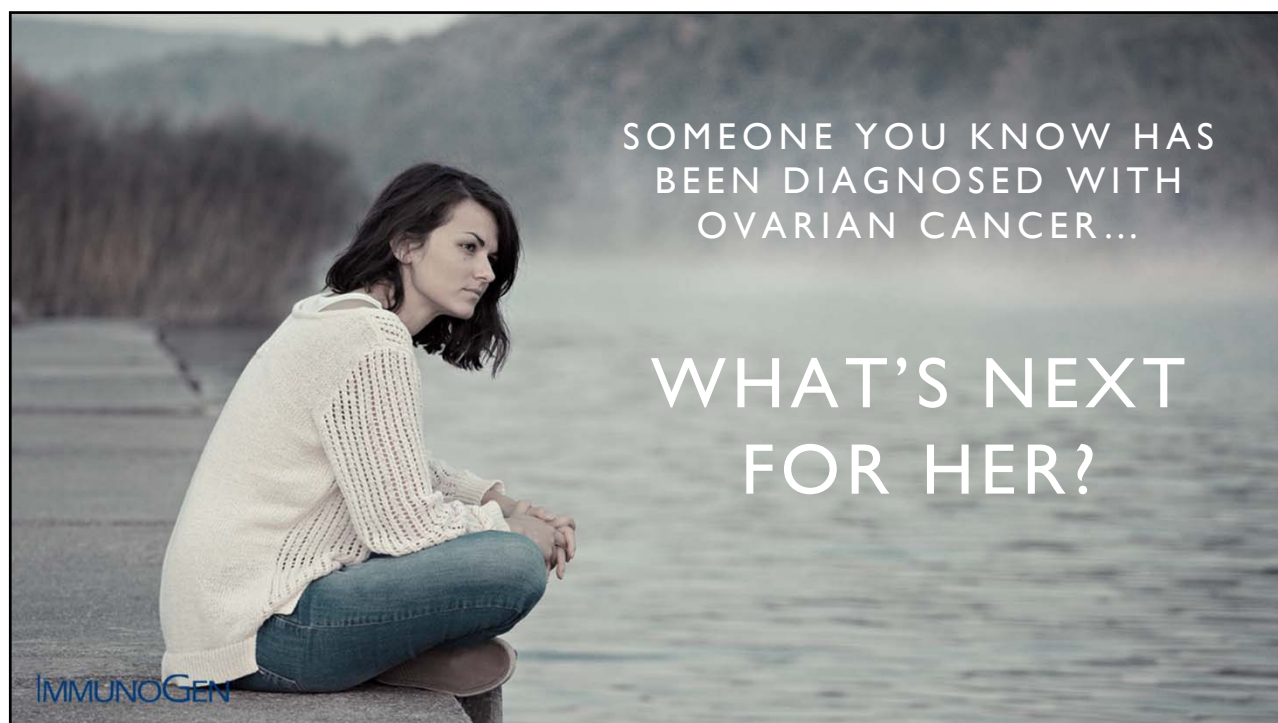
NEAR-TERM VALUE DRIVER  
MIRVETUXIMAB IN OVARIAN CANCER

IMG632

PLATFORM

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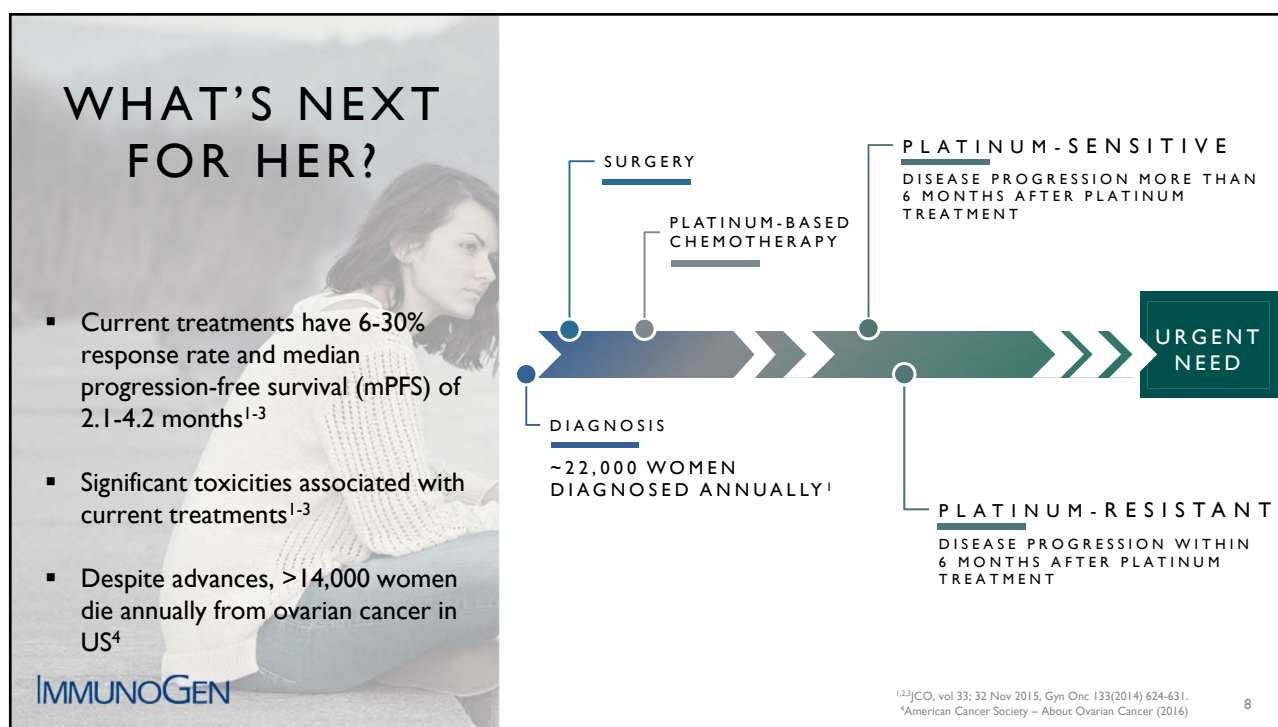
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SOMEONE YOU KNOW HAS  
BEEN DIAGNOSED WITH  
OVARIAN CANCER...

WHAT'S NEXT  
FOR HER?

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TARGET A BETTER NOW  
FOR WOMEN WITH OVARIAN CANCER

# MIRVETUXIMAB SORAVTANSINE

TARGET A BETTER NOW  
FOR WOMEN WITH OVARIAN CANCER

Distinct target and  
mechanism of action

Demonstrated activity in  
platinum-resistant and  
platinum-sensitive disease



Favorable safety profile  
supports use as combo agent

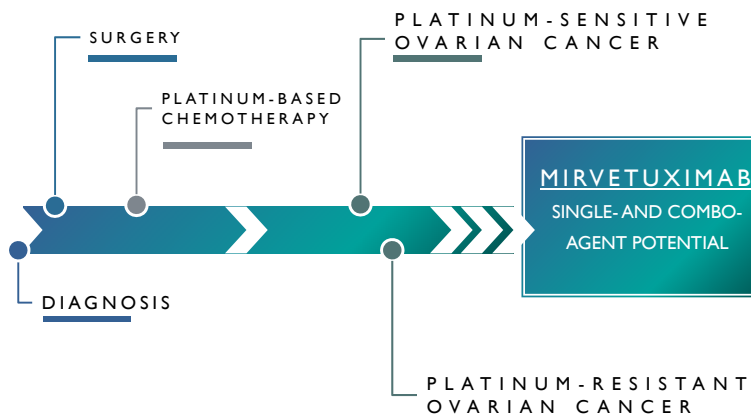
Potential in other FR $\alpha$ -  
positive solid tumors

# MIRVETUXIMAB SORAVTANSINE

## DISPLACING CHEMO IN THE TREATMENT FOR OVARIAN CANCER

**\$1B+**  
POTENTIAL  
OPPORTUNITY  
IN OVARIAN  
CANCER<sup>1</sup>

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- 7,500 (US) + 9,000 (EU) platinum-sensitive patients<sup>1</sup>
- 19,000 (US) + 24,000 (EU) platinum-resistant patients<sup>1</sup>
- 60% of ovarian cancer patients express FR $\alpha$  at med/high levels<sup>1</sup>

<sup>1</sup> Decision Resources Group Ovarian Cancer report (Jun 2017)

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## CONSISTENT MIRVETUXIMAB SINGLE-AGENT DATA

**6.7**  
MONTHS  
mPFS

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### ASCO 2017 POOLED ANALYSIS<sup>1</sup>

- Well-tolerated across all ovarian cancer cohorts (n=113)
- mPFS of 6.7 months in platinum-resistant ovarian cancer  
1-3 prior treatments, med/high FR $\alpha$  expression (n=36)

**“Mirvetuximab is the most exciting drug  
I’ve worked on in my career.”**

**- DR. LAINIE MARTIN, CHIEF, GYNECOLOGIC MEDICAL ONCOLOGY,  
FOX CHASE CANCER CENTER**

<sup>1</sup> Moore et al, abstract 5547, ASCO 2017

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## INITIAL REGISTRATION:

SINGLE-AGENT APPROACH  
IN PLATINUM-RESISTANT  
OVARIAN CANCER



### ENROLLMENT:

333 patients with FR $\alpha$ -positive (med/high)  
platinum-resistant ovarian cancer treated  
with up to 3 prior regimens

2:1 RANDOMIZATION



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PHYSICIAN'S CHOICE  
SINGLE AGENT  
CHEMOTHERAPY

### PRIMARY ENDPOINT:

PFS for all patients and for high FR $\alpha$  expressers only

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## MIRVETUXIMAB COMBINATIONS OFFER POTENTIAL TO TREAT MORE WOMEN WITH OVARIAN CANCER<sup>1</sup>



- Full dose of each agent able to be combined
- Favorable safety profile with adverse events in-line with known profiles of each agent
- Keytruda® combination cohort dose-escalation data expected in IQ18

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<sup>1</sup>O'Malley et al, abstract 5553, ASCO 2017  
Avastin® is a registered trademark of Genentech  
Keytruda® is a registered trademark of Merck

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## LABEL EXPANSION: BECOME THE COMBINATION AGENT OF CHOICE



### ENROLLMENT:

Patients with recurrent platinum-resistant or platinum-sensitive FR $\alpha$ -positive ovarian cancer

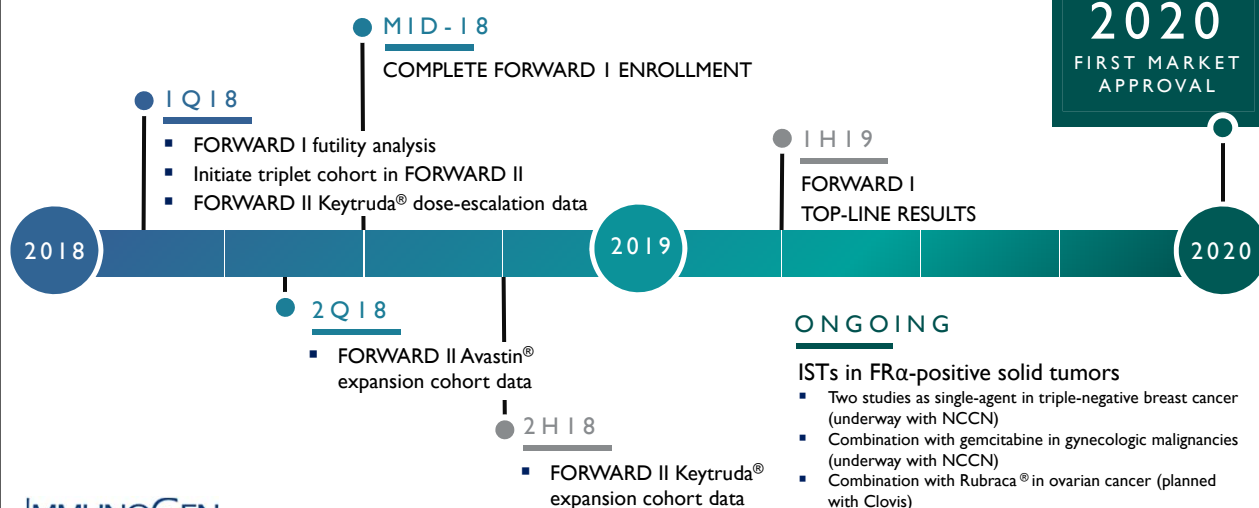
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Avastin® is a registered trademark of Genentech  
Keytruda® is a registered trademark of Merck

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## ROBUST MIRVETUXIMAB CLINICAL MILESTONES IN 2018 AND BEYOND



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Rubraca® is a registered trademark of Clovis

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BEYOND MIRVETUXIMAB  
ADCs FOR HEMATOLOGICAL DISEASES

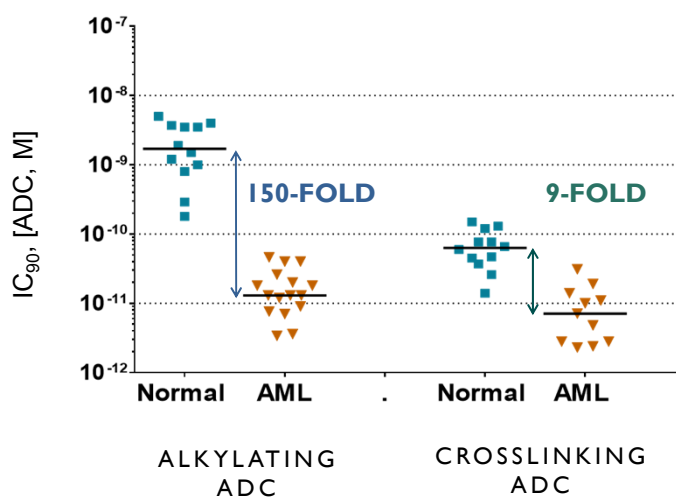
IMGN632

PLATFORM

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NEW CLASS OF PAYLOADS DESIGNED FOR  
IMPROVED EFFICACY AND TOLERABILITY



IGN DNA Alkylator  
Selectively Kills  
AML Blasts while  
Sparing Normal  
Bone Marrow Cells<sup>1</sup>

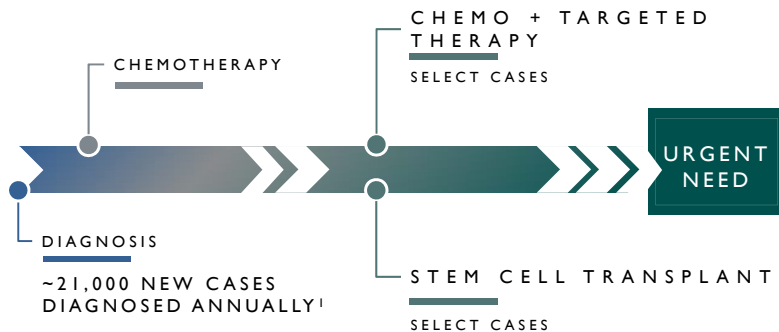
<sup>1</sup>Kovtun et al, abstract 768, ASH 2016

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SOMEONE YOU  
KNOW HAS BEEN  
DIAGNOSED WITH  
ACUTE MYELOID  
LEUKEMIA (AML)...

WHAT'S  
NEXT?

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- More than 10,000 deaths due to AML in US each year¹
- 5-year overall survival is ~25%²
- Median overall survival is ~6 months in relapsed/refractory AML³-⁴

¹American Cancer Society (2016), About Acute Myeloid Leukemia;  
²National Cancer Institute Surveillance, Epidemiology, and End Results Program (seer.cancer.gov);  
³Faderl, S., et al. J Clin Oncol 2012;30:2492-2499;  
⁴Ravandi, F., et al. Lancet Oncol 2015;16:1025-36.

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## ENCOURAGING INITIAL PHASE I DATA IN AML IMGN779

SAFETY ENABLES  
REPEAT DOSING

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- Anti-CD33 ADC targeting AML
- Phase I data show IMGN779 well-tolerated; no dose-limiting toxicities at once-weekly and bi-weekly schedules¹

DOSE ESCALATION STAGE ONGOING

- Pharmacokinetic exposures and pharmacodynamics CD33 saturation increase with dose; support further escalation¹
- Anti-leukemia activity seen in both schedules¹

¹Cortes et al, abstract 1312, ASH 2017

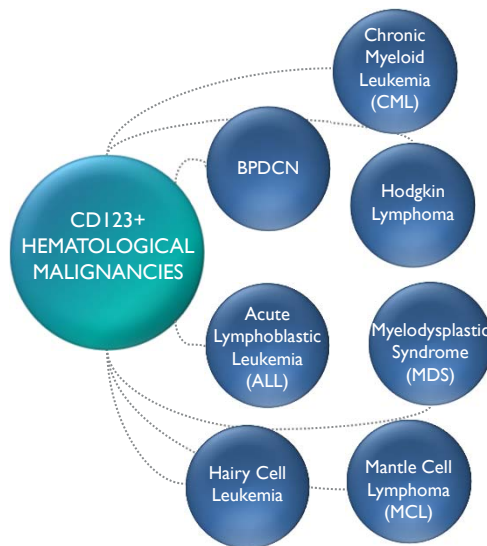
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## DEPLOYING OUR MOST POWERFUL IGN PAYLOAD IMGN632

- Phase I trial open in patients with AML and blastic plasmacytoid dendritic cell neoplasm (BPDCN), both CD123+ malignancies  
PATIENT DOSING UNDERWAY
- Preclinical data show reduced tumor burden and extended survival with IMGN632 in AML models<sup>1</sup>

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## OPPORTUNITIES BEYOND AML



<sup>1</sup>Adams et al, abstract 2832, ASH 2016

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PRODUCTIVE PLATFORM  
PORTFOLIO EXPANSION AND HIGH-VALUE PARTNERSHIPS

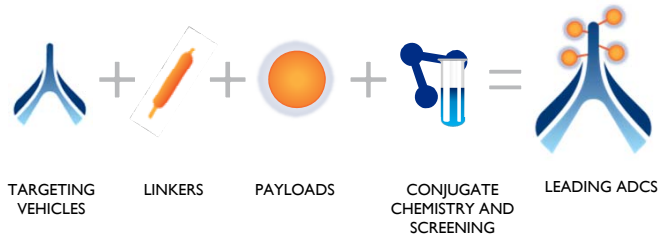
IMGN632

PLATFORM

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## ADCs HAVE A PROMISING AND DURABLE ROLE IN CANCER CARE



- Surgery and adjuvant therapies continue to be standard treatment for many cancers
- Molecular profile of tumor will increasingly form basis for initial and subsequent treatments
- ADCs play an essential role as targeted mono- and combination therapies delivering potent anti-tumor activity with favorable tolerability profiles

### ACTIVE RESEARCH PIPELINE FOR HEMATOLOGICAL MALIGNANCIES AND SOLID TUMORS:

ADAM9, cMET,  
EpCAM Probody-Drug Conjugate  
and Multiple Additional Targets in Exploration

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LEGACY PLATFORM DEALS



## SMART APPROACH TO PARTNERING

ILLUSTRATING OUR LEADERSHIP IN THE ADC FIELD



# BOLDLY DRIVING OUR FUTURE



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## MULTIPLE DATA READOUTS COMING

### MIRVETUXIMAB SORAVTANSINE

- IQ18: FORWARD I interim futility analysis
- IQ18: FORWARD II Keytruda® dose-escalation data
- 2Q18: FORWARD II Avastin® expansion cohort data
- 2H18: FORWARD II Keytruda® expansion cohort data
- IH19: FORWARD I top-line data

### IMGN779

- 4Q18: Additional Phase I data

### IMGN632

- 4Q18: Initial Phase I data

### PLATFORM

- Preclinical data at multiple conferences in 2018

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MIRVETUXIMAB PHASE 3 WITH PLANNED  
COMMERCIALIZATION BY 2020

LEADING ADC INNOVATION  
AND PIPELINE

PRODUCTIVE RESEARCH  
PLATFORM

FINANCIAL STRENGTH AND DISCIPLINE

PROVEN MANAGEMENT TEAM

