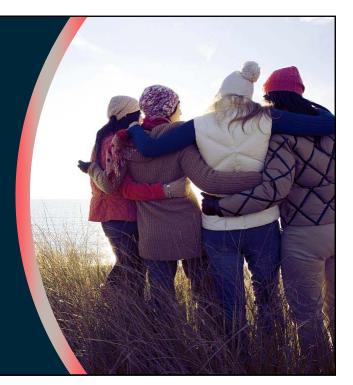
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FORWARD II PROGRAM UPDATE NASDAQ: IMGN

May 17, 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 forwardlooking 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 Annual Report on Form 10-K for the year ended December 31, 2017 and other reports filed with the Securities and Exchange Commission.

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EXECUTING ON OUR HIGHEST STRATEGIC PRIORITY: MIRVETUXIMAB SORAVTANSINE



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FORWARDI

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- Patient enrollment completed ahead of schedule
- Trial continuing as planned following successful pre-specified interim futility analysis
- Top-line data on-track to be reported in IH19

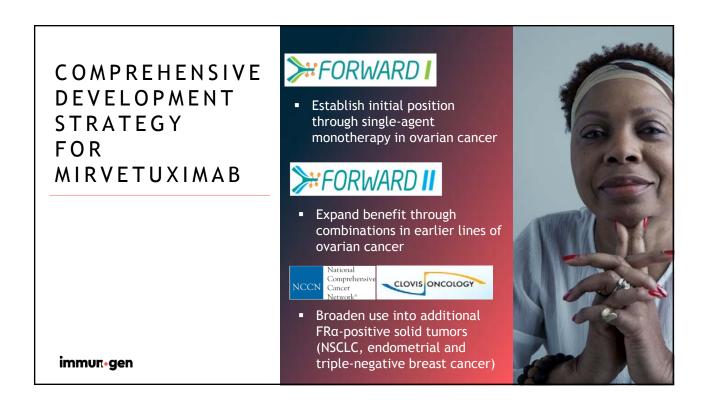
FORWARD II

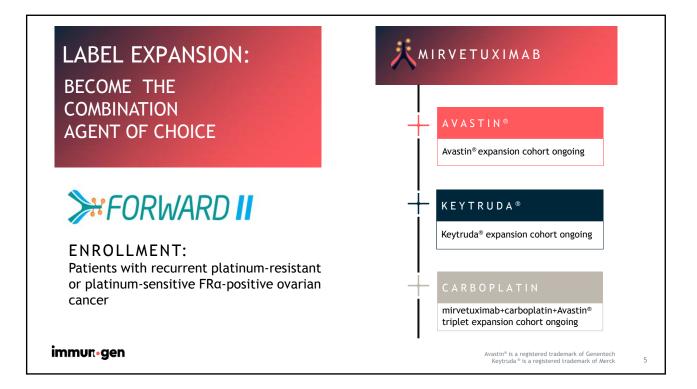
- Updated data from the Keytruda[®] cohort at SGO Annual Meeting
- Data from Avastin[®] expansion cohort in over 50 patients at ASCO 2018
- Updated data from carboplatin escalation cohort
- Initiated triplet cohort in January

CLINICAL COLLABORATIONS

- Co-sponsoring mirvetuximab + Rubraca[®] combination study in ovarian cancer with Clovis
- Multiple studies underway underway with NCCN in FRα-positive tumor types

Rubraca[®] is a registered trademark of Clovis



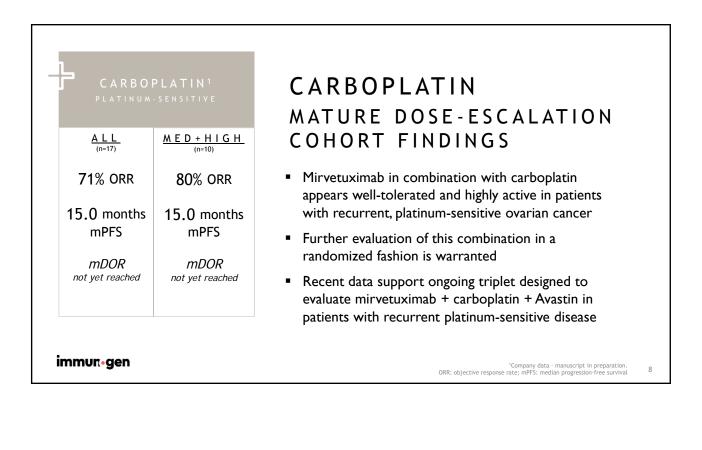


NEED	FOR	EFFECTIVE	COMBINATIONS
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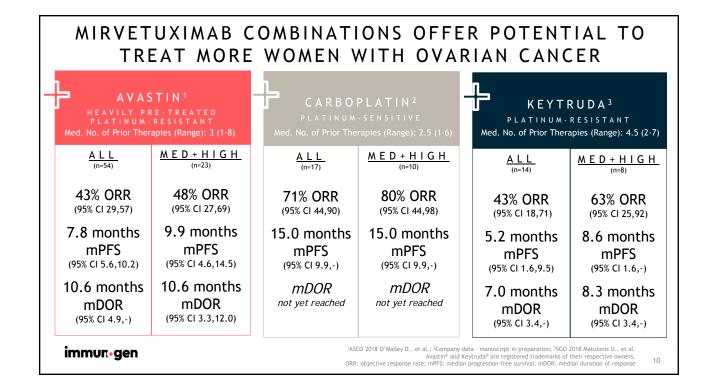
CURRENT TREATMENTS FOR BOTH PLATINUM-RESISTANT AND PLATINUM-SENSITIVE OVARIAN CANCER

PLATINUM-RES	SISTANT OVARIAN CANCER	PLAT	TINUM-SENSITIVE OVAR	IAN CANCER	
	AURELIA ¹		O C E A N s ²	G O G 2 1 3 ³	
Regimen	Chemo/Avastin	Regimen	Carbo/Gem	Carbo/Tax	
Median age	61	Median age	61	60	
Patient population	Platinum resist 1-2 priors 60% - 1 prior 40% - 2 prior	Patient population	plat sensitive, 1 prior	plat sensitive, 1 prior	
Prior Avastin	7%	Prior Avastin	0	10%	
ORR	27%	ORR	57%	56%	
mPFS (mo)	6.7 (95% 5.7, 7.9)	mPFS (mo)	8.4 (95% 8.3, 9.7)	10.4 (95% 9.7-11)	
nmur₊gen			² Aghaja	raine, et al., JCO 32:1302 (2014) anian, et al., JCO 30:2039 (2012) t al., Lancet Oncol 18:779 (2017)	

HEAVILY PRE-	AVASTIN ¹ TREATED PLATIN	U M - R E S I S T A N T	AVASTIN EXPANSION COHORT	
ALL (n=54) 43% ORR 7.8 months mPFS 10.6 months mDOR	MED + HIGH <u>1-3 Priors</u> (n=23) 48% ORR 9.9 months mPFS 10.6 months mDOR	MED + HIGH 1-2 Priors <u>Avastin-naïve</u> (n=16) 50% ORR 9.9 months mPFS 12.0 months mDOR	 Mirvetuximab in combination with Avast shows early evidence of anti-tumor active with durable responses Greatest benefit seen among the subset patients with medium or high FRα expresserely evels, which is the population being sturing the FORWARD I Phase 3 trial Encouraging efficacy results support furtients of this novel therapeutic combinate Safety profile in line with known profile each agent 	



(n=14)	$\frac{D + H G H}{(n=8)}$	 Mirvetuximab in combination with Keytruda shows early evidence of anti-tumor activity with durable responses and favorable tolerability profile
•••	6 months mPFS	 Greatest benefit seen among the subset of patients with medium or high FRα expression levels, which is the population being studied in the FORWARD I Phase 3 trial
	3 months mDOR	 Expansion cohort completing enrollment, expect to report initial findings later this year



MIRVETUXIMAB COMBINATIONS OFFER POTENTIAL TO TREAT MORE WOMEN WITH OVARIAN CANCER¹



- Results have indicated a favorable safety profile with adverse events in-line with known profiles of each agent full dose of each agent able to be combined
- Encouraged by early evidence of anti-tumor activity with durable responses
- Recent data support ongoing triplet designed to evaluate a mirvetuximab + carboplatin + Avastin in patients with recurrent platinum-sensitive disease
- Totality of data will guide next stages of development and support path to registration for combination regimens

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¹O'Malley et al, abstract 5553, ASCO 2017 11