



Wells Fargo Healthcare Conference September 6, 2018

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To the extent that statements contained in this presentation are not descriptions of historical facts regarding TESARO, they are forward-looking statements reflecting the current beliefs and expectations of management made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Words such as "may," "will," "expect," "anticipate," "estimate," "intend," and similar expressions (as well as other words or expressions referencing future events, conditions, or circumstances) are intended to identify forward-looking statements. Examples of forward-looking statements contained in this presentation include, among others, statements regarding our financial guidance (including projected full year and Q3 2018 revenues, interest expense and cash levels) and ZEJULA's profitability outlook, statements regarding the potential size of the current and future market opportunities for our various products and product candidates and our various assumptions related thereto, our lung cancer strategy, the design and expected timing of initiation, completion, and data readouts from our various ongoing and planned niraparib, TSR-042, TSR-033, TSR-022, and combination studies, the expected timing of various regulatory filings, and potential indications for our products and product candidates. Forward-looking statements in this presentation involve substantial risks and uncertainties that could cause our future results, performance, or achievements to differ significantly from those expressed or implied by the forward-looking statements. Such risks and uncertainties include, among others, risks related to competition, the uncertainties inherent in the execution and completion of clinical trials, uncertainties surrounding the timing of availability of data from clinical trials, uncertainties surrounding our ongoing discussions with and potential actions by regulatory authorities, risks related to manufacturing and supply, risks related to intellectual property, uncertainties related to our projected expenses, and other matters that could affect the availability or commercial potential of our products and product candidates. TESARO undertakes no obligation to update or revise any forward-looking statements. For a further description of the risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to the business of the Company in general, see TESARO's Annual Report on Form 10-K for the year ended December 31, 2017 and Quarterly Report on Form 10-Q for the guarter ended June 30, 2018.



Building a Leading Oncology Company



ΓΕЅΑRΟ

Development Strategy Focused on Gynecologic and Lung Cancers



> Ovarian

- Expand current ZEJULA label to treatment setting
- Move into front line

> Endometrial

- No approved drug in 2L endometrial
- Current agents provide 10-14% ORR

Lung Cancer

> Lung cancer

- Despite the availability of anti-PD-1 therapy, a large number of patients do not respond in the front-line setting
- anti-PD-1 monotherapy is now standard of care in patients with TPS >50%
- 2nd/3rd line PD-1 experienced market opportunity is growing rapidly

ZEJULA (PARP)

TSR-042 (PD-1)

ZEJULA and TSR-042 Partnerships & Collaborations (Prostate, Bladder, Breast, Pancreatic)



New Indications Would Address Every Stage of a Women's Journey with Ovarian Cancer

OVARIAN CANCER PATIENT JOURNEY



Fully enrolled / completed trials

Enrolling / expected to enroll patients by year-end

Current ZEJULA indication



TSR-042 Registration Strategies Focuses on Endometrial Cancers





TSR-042 is the Foundation of our Lung Strategy



Data to Guide Potential Registration Opportunities

>450 patients, including >120 lung cancer patients have been treated with TSR-042

7 **TESARO**°

NSCLC Treatment Landscape



mPFS: median PFS; NSCLC: Non-small cell lung cancer

¹ Stage IIIb and IV NSCLC excluding ALK/EGFRm patients, Kantar Health estimated 2018 epidemiology numbers; ² IPSOS Oncology Monitor NSCLC, primary market research studies, external market research; ³ docetaxel PI studies TA317 and TAX320; ⁴ Gadhi et al., ASCO 2018; ⁵ Garon et al., ASCO 2018; ⁶ Mirati corp. presentation, includes unconfirmed responses; KEYNOTE 024, 042: squamous + non-squamous; KEYNOTE 189: non-squamous only



GARNET Data: 2/3L Lung Results by TPS Status



2L+ NSCLC GARNET TSR-042	TPS 0	TPS 1–49%	TPS <u>></u> 50% and NA
Ν	2/7	2/8	3/6
ORR ^[1,2] (%)	29%	25%	50%
2L+ NSCLC Keynote -010 Pembrolizumab	TPS 0	TPS 1–49%	TPS <u>></u> 50%
ORR ³ (%)	NA	~9–16%	~23_34%

NSCLC irORR of ~29%^[2,3] is similar ORR of approved anti-PD-1s; but is largely from a PD-L1 TPS < 50% population, demonstrating response rate not driven by PD-L1 status

Data as of February 22, 2018

[1] Excludes patients that were not evaluable for tumor response

[2] Includes both confirmed and unconfirmed responses [3] Patients who had at least 1 tumor assessment or did not have any tumor assessment but discontinued treatment NA = TPS status not available



ZEJULA Rationale in Lung Cancer

- Effective in platinum responsive ovarian cancer (OC); lung cancer is a platinum responsive disease
- Both ovarian and lung cancers have high rates of HRD that infer platinum and PARPi sensitivity¹
- Demonstrated activity in preclinical lung cancer models and 2 of 2 NSCLC patients in Phase 1 had tumor regression, even at low dose of niraparib (40mg, 316d; 110mg 175d)²
- Demonstrated positive effect on immune system and combination activity with anti-PD-1 in non-clinical models shows activity
- TOPACIO data indicative of potential positive clinical benefit from PARP + anti-PD-1 combination







Phase 2 JASPER Trial 1L NSCLC

PD-L1 TPS ≥50% Niraparib + anti-PD-1 mAb



1. Marquard et al , Postel-Vinay Nature Rev Clin Onc 9:144 2012; Postel-Vinay Oncogene 2013 1-11, Lee et al Clin Can Res 13:832; 2. Sandhu et al Lancet Onc 2013; a. Clin Cancer Res 2007 13.832; b. Nat Rev Clin Onc 9:144 2012, c, oncotarget 2016 Villaruz et al, d, Rehman et al Nat Rev Clin Onc 7:718 2010, e, Oncogene 23:1000 2004

Mechanisms by Which ZEJULA Could Potentiate an Immune Response



JASPER Study: Preliminary Stage 1 Data for Niraparib in Combination with Anti-PD-1 in 1L NSCLC in Patients with TPS ≥ 50%

Best Percent Change in Sum of Target Lesion from Baseline



Objective responses by RECIST criteria following treatment with niraparib + pembrolizumab

TIM-3 is a Key Immune Checkpoint and a Next Generation Cancer Immunotherapy Target

TIM-3 biology has been Implicated in T Cell Exhaustion AND Immune Suppression Mediated by Regulatory T Cells and Myeloid Cells

CD4/8+ T Cell Exhaustion



TIM-3 negatively regulates T cell activation and is a marker of exhausted T cells

Myeloid Cells

TIM-3 is expressed on macrophages and can also influence MDSC activity in TME*



Dendritic Cells



TIM-3 is expressed on tumor associated dendritic cells and may negatively regulate DC activation

NSCLC Post-PD-1 Patient Case

TSR-022 + anti-PD-1 combination dose escalation

- > 63 year-old female diagnosed with Stage IV NSCLC
- > Prior treatment included 1L chemotherapy, 2L anti-PD-1, 3L Tarceva
- > TSR-022 (1 mg/kg) + anti-PD-1 >>> 72% shrinkage







AMBER Study: TSR-022 (anti-TIM-3) + TSR-042 (anti-PD-1) in Post-PD-1 NSCLC Patients



Lung Cancer Development Programs Rapidly Advancing





Data at SITC Annual Meeting (November)

- > NSCLC data from GARNET trial of TSR-042
- > TSR-022 plus TSR-042 combination (AMBER) initial data in post-PD-1 NSCLC
- > TSR-033 monotherapy (CITRINO)



2019 Key Data Readouts & Milestones

- Initial Phase 2 JASPER lung data with ZEJULA + TSR-042 in 1H 2019
- Initiate Phase 2 registration enabling trial of TSR-042 versus standard of care in first-line NSCLC in early 2019
- GARNET: final data for TSR-042 MSI-H and 2L Endometrial and NSCLC
- > AMBER data for TSR-022 + TSR-042
- CITRINO data TSR-033 + TSR-042







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