Eganelisib Addressing Significant Patient Need With Next-Generation Immunotherapies

May 2022

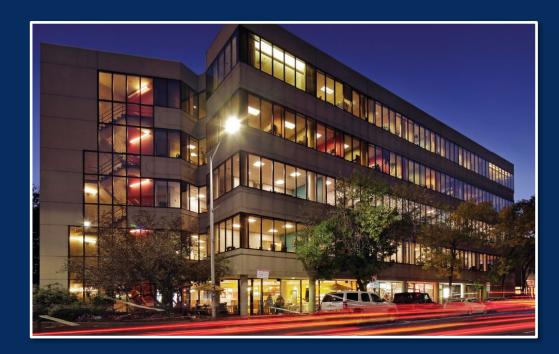


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Infinity Pharmaceuticals



Headquarters: 1100 Massachusetts Avenue, Harvard Square, Cambridge, Massachusetts Nasdaq: INFI

Focus: First-in-class/best-in-class oncology therapeutics



Adelene Perkins Chair & CEO TransForm, Genetics Institute, Bain



Larry Bloch, MD, JD President NeurAxon, NitroMed, Applied Molecular Evolution



Robert Ilaria, Jr., MD Chief Medical Officer BMS, Celgene, Eli Lilly



Seth Tasker, JD Chief Business Officer Surface Logix



Stéphane Peluso, PhD Chief Scientific Officer Ipsen, Millennium



First-in-class, oral, potent and selective macrophage reprogramming therapeutic

- Strong preclinical/translational medicine data demonstrating reprogramming of tumor associated macrophages
- Uniquely differentiated, next-generation immunotherapy

Clinical activity, safety & translational data in P2 settings where CPIs have shown little or no patient benefit

- 1L advanced/metastatic Triple Negative Breast Cancer (TNBC) in combination with CPI + chemo
- 2L metastatic Urothelial Cancer in combination with CPI
- Clinical/Translational Data releases in 4 tumor types in 2022

Registration enabling study in frontline advanced/metastatic TNBC - to be initiated by end of 2022

Platform clinical program to rapidly and efficiently evaluate eganelisib in indications where tumor associated macrophages limit effectiveness of current therapies - to be initiated in 3Q2022

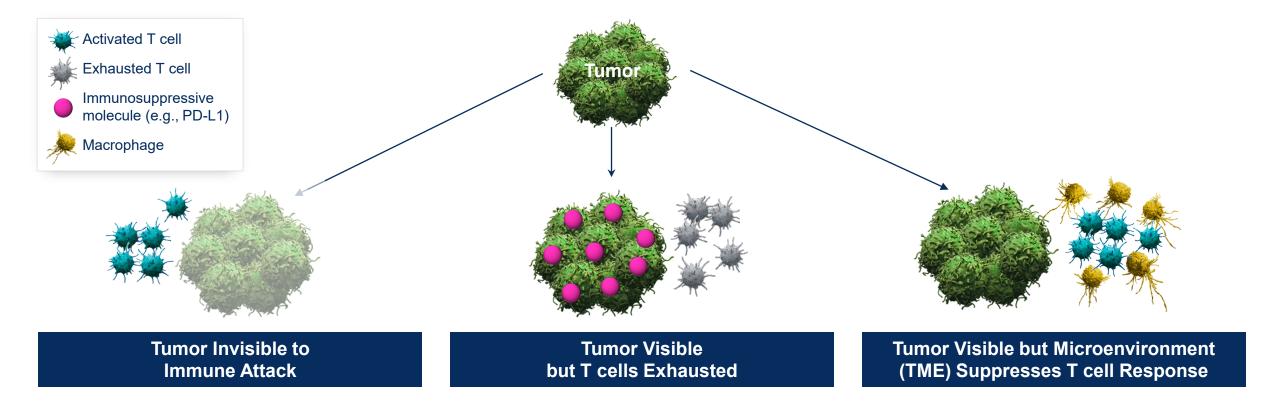


Advancing and Expanding MARIO Clinical Development Program <u>MA</u>crophage <u>Reprogramming in Immuno-Oncology</u>



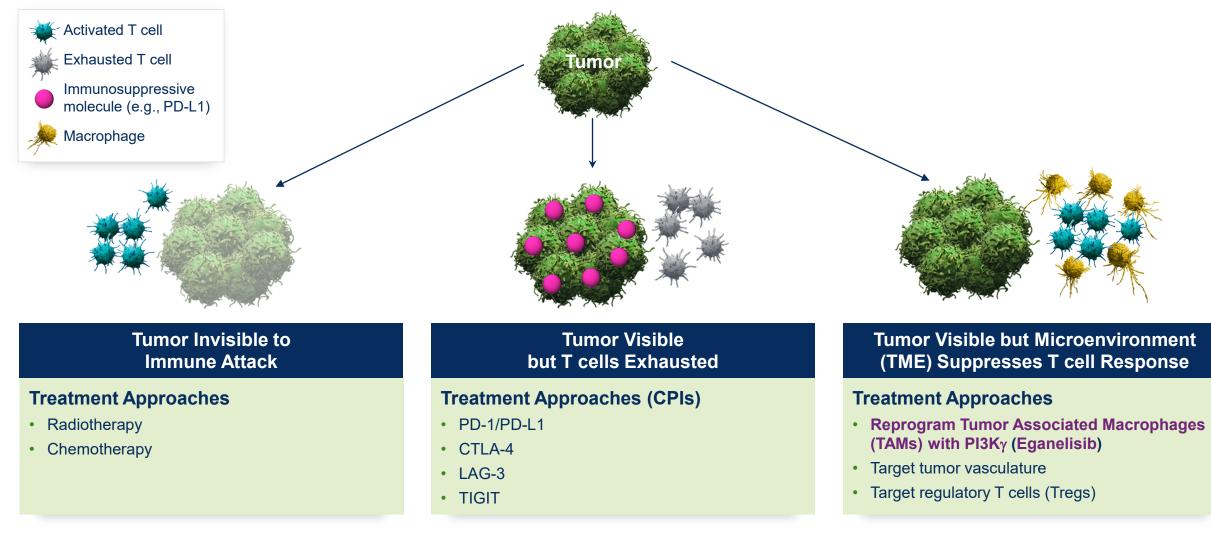
Triple Negative Breast Cancer (TNBC) Urothelial Cancer (UC) Renal Cell Carcinoma (RCC) Head and Neck Squamous Cell Cancer (HNSCC) Non Small Cell Lung Cancer (NSCLC) Tecentriq® is a registered trademark of Genentech, Inc. Abraxane® is a registered trademark of Abraxis BioScience, LLC. Opdivo® is a registered trademark of Bristol Myers Squibb. Avastin® is a registered trademark of Genentech, Inc. IN IMMUNO-ONCOLOGY

How Tumors Evade the Immune System



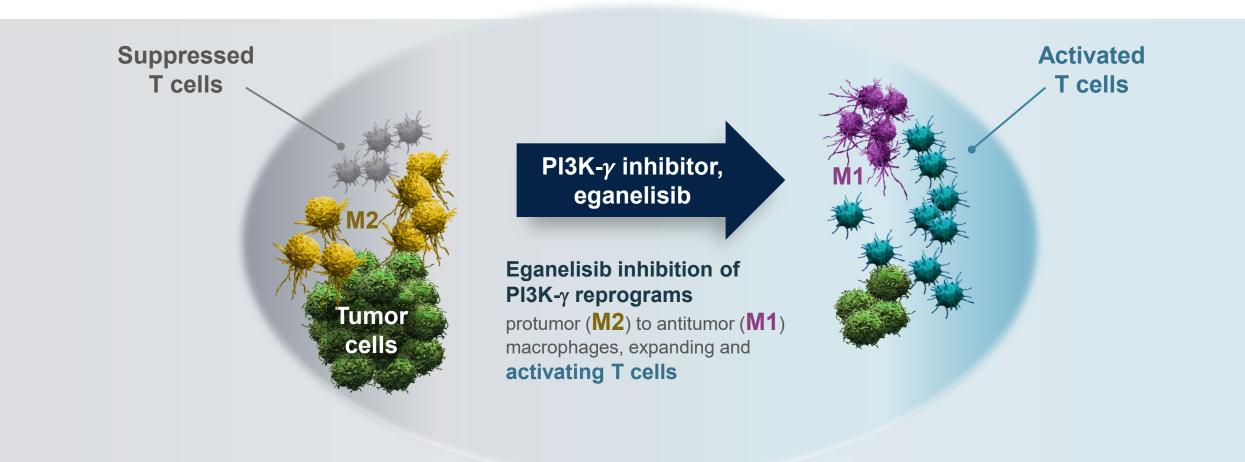


Eganelisib: Next-Generation Immunotherapy Targeting Tumor Associated Macrophages to Overcome Cancer Immune Evasion



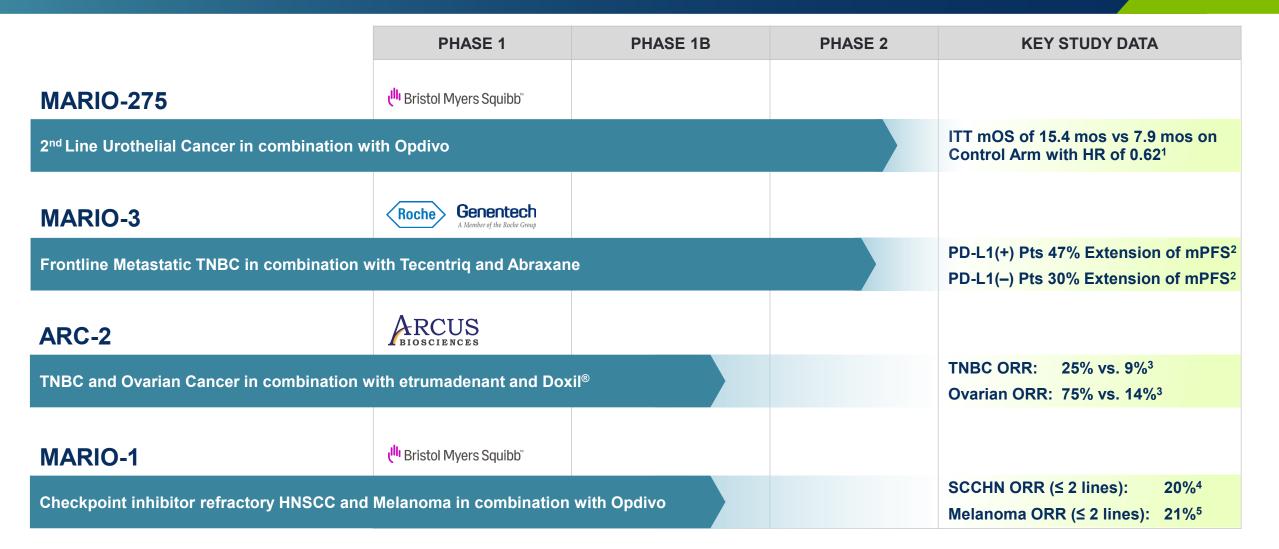


Eganelisib Reprograms Macrophages to Turn Tumor Microenvironment from Immune Suppressed to Immune Activated





MARIO Clinical Program Demonstrates Eganelisib Clinical Activity and Safety Across Multiple Combinations and Tumor Types

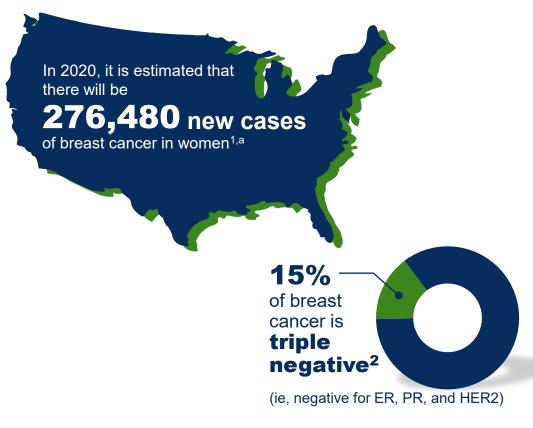


 Tomczak et al. ASCO GU 2021; 2. Soliman et all, SABCS 2021 Compared to IMpassion 130 data presented by Emens, LA, 2018 SABCS, abstract GS1-04; 3. Gardner O et al. SABCS 2020 Triplet Arm (Eganelisib + Etrumadenant + Doxil) versus Doublet Arm (Etrumadenant + Doxil); Doxil® is a registered trademark of Baxter Healthcare Corporation.
Cohen et al. SITC 2020; 5. Postow et al. SITC 2020



Metastatic TNBC is Associated with Poor Prognosis

Advanced TNBC and PD-L1(-) TNBC Are Both Associated With Poor Prognosis

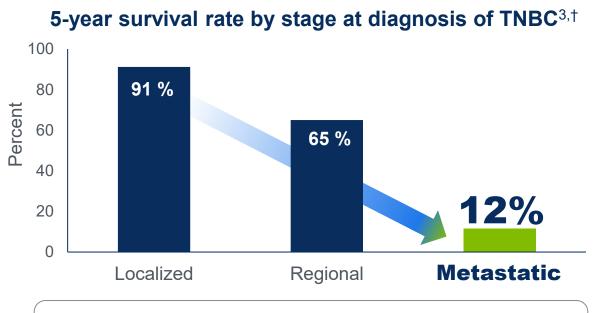


^aEstimated cases based on 2013-2017 cases.

[†]5-Year relative survival percent, TNBC by SEER Summary Stage 2000.

[‡]PD-L1–stained tumor-infiltrating immune cells; positive PD-L1 threshold of 0.01 (≥1% of tumor area).

 National Cancer Institute. Accessed November 24, 2020. https://seer.cancer.gov/statfacts/html/breast-subtypes.html 2. American Cancer Society. Accessed November 24, 2020. https://www.cancer.org/cancer/breast-cancer/understanding-a-breast-cancer-diagnosis/types-of-breast-cancer/triple-negative.html 3. National Cancer Institute. Accessed November 23, 2020. https://seer.cancer.gov/statfacts/html/breast-subtypes.html 4. Davis AA, Patel VG. *J Immunother Cancer*. 2019;7(1):278. 5. Matikas A et al. *Clin Cancer Res*. 2019;25(18):5717-5726, 6. LEK forecast based on LEK interviews, research and analysis, Decision Research Group data Dec 2020

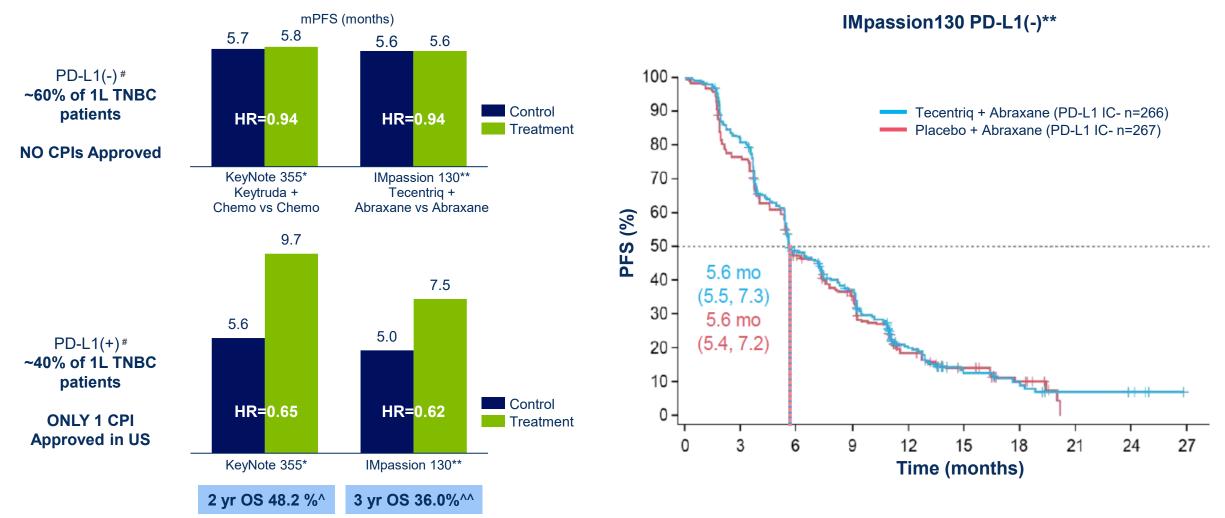


PD-L1(-) cancers are associated with poor prognosis⁴ ≈ 60% of TNBCs are PD-L1(-)^{5,‡}

Forecast of 16K addressable 1L mTNBC patients globally in 2034 suggests market potential of over \$2B⁶



PD-L1(-) Patients: No CPI Has Demonstrated Benefit Over SOC Chemo





*Cortes, Lancet December 5, 2020; 396:1817-28, **Emens, LA, IMpassion130, 2018 SABCS Abstract GS1-04, ARugo, ESMO 2021, Abstract LBA16, M Emens, LA July 1,2021, Annals of Oncology., # Keynote 355 PD-L1 expression assessed by The 22C3 Dako PharmDx IHC assay, which factors in expression in both tumor cells and tumor-infiltrating immune cells. A CPS score is calculated and a score of >10% is positive and CPS <10% is negative. IMpassion130 PD-L1 expression assessed by IC >1% of tumor area is positive and IC <1% is negative as determined by the VENTANA PD-L1 (SP142) Assay.

MARIO-4: First Registration Study of Eganelisib

MARIO

- Based on strength of efficacy, safety and translational medicine data from MARIO-3
- Randomized, double-blind, placebo-controlled study with PFS and OS endpoints
- PD-L1(-) patients: eganelisib + chemotherapy + checkpoint inhibitor vs chemotherapy
- PD-L1(+) patients: eganelisib + chemotherapy + checkpoint inhibitor vs chemotherapy + checkpoint inhibitor
- Study design to be finalized pending feedback from global regulatory authorities
- MARIO-4 Study to be initiated by end of 2022



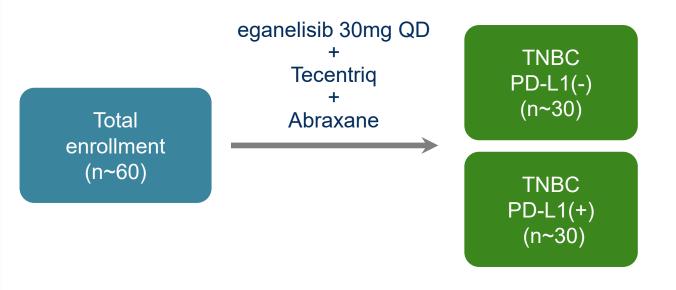
Designed to Demonstrate Eganelisib's Ability to Improve and Extend the Clinical Benefit of Tecentriq + Abraxane in 1L mTNBC

Eganelisib FDA Fast Track Designation for TNBC

MARIO-3 TNBC evaluating the potential of eganelisib to improve on IMpassion130 results*

Addition of eganelisib to Tecentriq and Abraxane in front-line TNBC

- Inclusion/exclusion criteria per IMpassion130 study
- Two prespecified cohorts: PD-L1(-) and PD-L1(+)
- Primary objective: CR rate CR benchmark ~7% ITT; 10% PD-L1(+)
- Secondary objectives: PK, PD, ORR, DCR, and PFS; ORR for PD-L1(-) cohort
- PD-L1 status determined via central lab (histogeneX) with Ventana SP142 antibody to align with IMpassion130



CR, complete response; DCR, disease control rate; ITT, intent-to-treat; ORR, overall response rate; PD, pharmacodynamics; PD-L1, programmed death-ligand 1; PFS, progression-free survival; PK, pharmacokinetics; QD, once daily; SOC, standard of care; mTNBC, metastatic triple-negative breast cancer; TNBC, triple-negative breast cancer. Immune Cell Score \geq 1% cutoff for PD-L1(+)



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*Schmid P et al, N Engl J Med. 2018;379(22):2108-2121.



Most Common Treatment-Related TEAEs in ≥ 10% of All Treated Patients** (N=50)

Preferred or Grouped Term [#]	Treatment- related TEAE (All)		Treatment- related TEAE (≥ Gr. 3)		Preferred or Grouped Term		Treatment- related TEAE (All)		Treatment- related TEAE (≥ Gr. 3)	
Nausea	25 ((50.0)	0	(0.0)	Peripheral sensory neuropathy	9	(18.0)	3	(6.0)	
Fatigue	24 ((48.0)	3	(6.0)	 Decreased appetite	8	(16.0)	0	(0.0)	
Skin AEs	18 ((36.0)	6	(12.0)	 Headache	8	(16.0)	0	(0.0)	
Diarrhea	15 ((30.0)	3	(6.0)	 Stomatitis	7	(14.0)	0	(0.0)	
Hepatic AEs*	14 (2	(28.0)	9	(18.0)			、 ,		. ,	
Alopecia	13 (2	(26.0)	0	(0.0)	Dysgeusia	1	(14.0)	0	(0.0)	
Vomiting	11 (2	(22.0)	1	(2.0)	 Constipation	6	(12.0)	0	(0.0)	
Neutropenia AEs	11 (2	(22.0)	8	(16.0)	 Weight decreased	5	(10.0)	1	(2.0)	
Pyrexia	9 ((18.0)	0	(0.0)	 Hypokalaemia	5	(10.0)	0	(0.0)	

Presented in descending order of All Treatment-Related TEAE

*One Grade 4 event and No Hy's Law

**No treatment-related Grade 5 AEs

Grouped terms:

Skin AEs: rash maculo-papular, rash, pruritus, dermatitis, dry skin, photosensitivity reaction, rash erythematous Hepatic AEs: ALT increased, AST increased, ALP increased, blood bilirubin increased, autoimmune hepatitis Neutropenia AEs: neutropenia and neutrophil count decreased

Soliman H, et al. SABCS 2021



Triplet Manageability Compares Favorably to Historical Doublet



	MARIO-3* Eganelisib+Tecentriq+Abraxane (N=50) n (%)		Tecentriq (N=	ion130** +Abraxane 460) (%)
All-causality AEs				
Any grade	47	(94.0)	457	(99.3)
Grade 3 or 4	32	(64.0)	233	(50.7)
Grade 5	2	(4.0)	6	(1.3)
Serious AEs	15	(30.0)	110	(23.9)
AE leading to any treatment withdrawal	9	(18.0)	88	(19.1)
AE leading to Atezo withdrawal	8	(16.0)	37	(8.0)
AE leading to Nab-Pac withdrawal	8	(16.0)	85	(18.5)
Treatment-related AEs***				
Any grade	47	(94.0)	444	(96.5)
Grade 3 or 4	30	(60.0)	191	(41.5)
Grade 5	0	(0.0)	2	(0.4)
Serious AEs	9	(18.0)	58	(12.6)

* MARIO-3: Data listed are treatment emergent adverse event (TEAE).

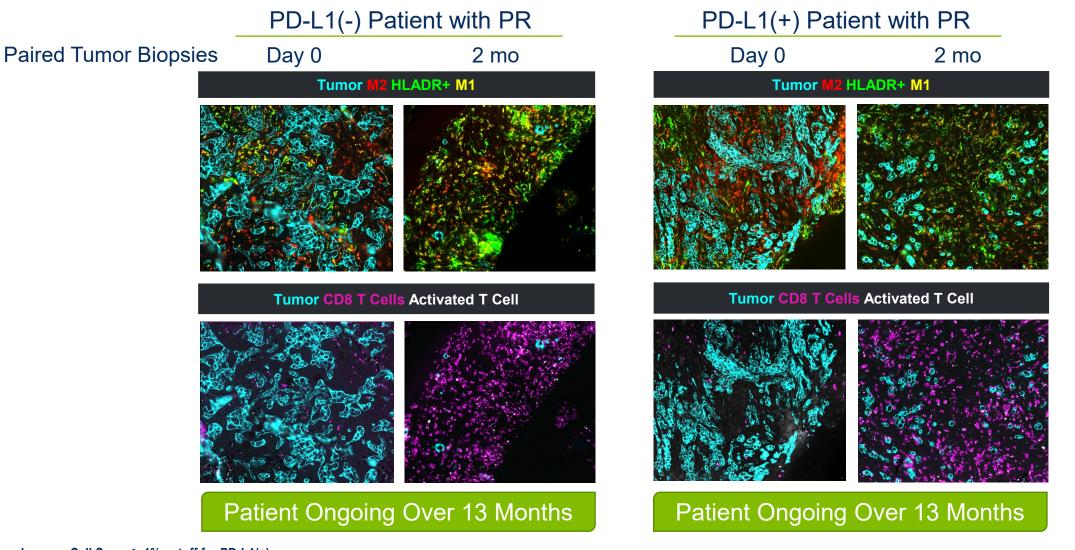
** Emens et al., Annal of Oncology 2021

*** In MARIO-3, the data listed are for TEAEs that were related to any study drug Soliman H, et al. SABCS 2021



Immune Activation Shrinks Tumors Regardless of PD-L1 Status



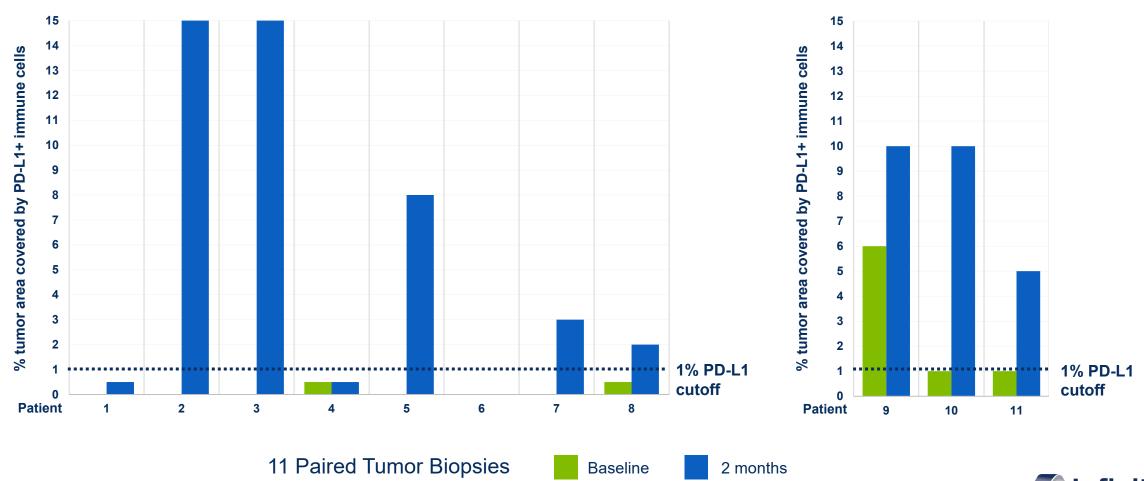


Section 16 Pharmaceuticals 16

Immune Cell Score ≥ 1% cutoff for PD-L1(+) Soliman H, et al. SABCS 2021

PD-L1 Expression Increased Following Eganelisib Treatment

PD-L1(-) at Baseline



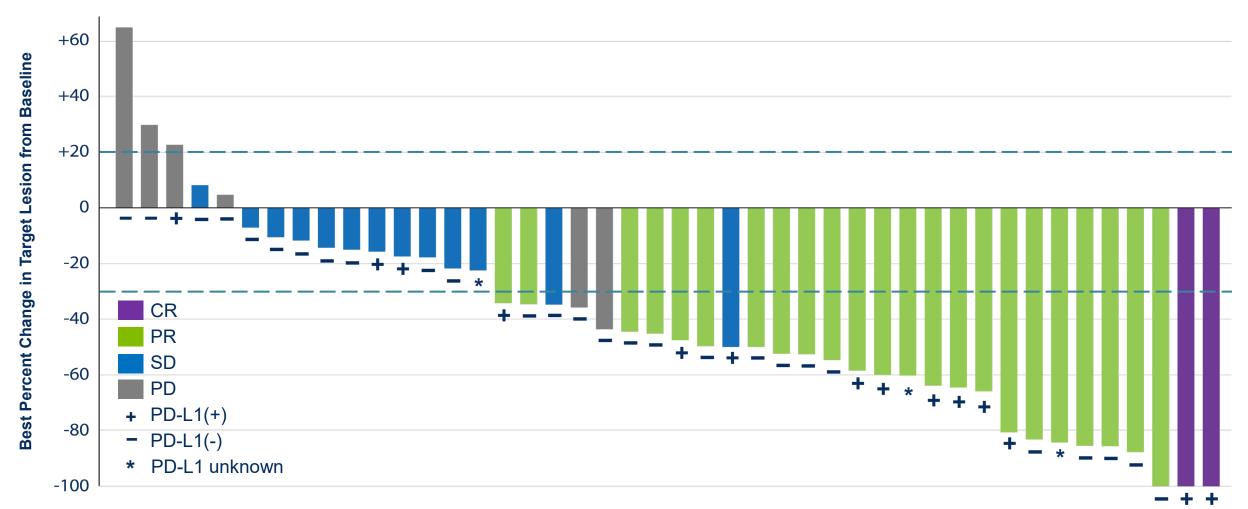
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PD-L1(+) at Baseline

Soliman H, et al. SABCS 2021

88.6% of Evaluable Patients Achieved Tumor Reduction





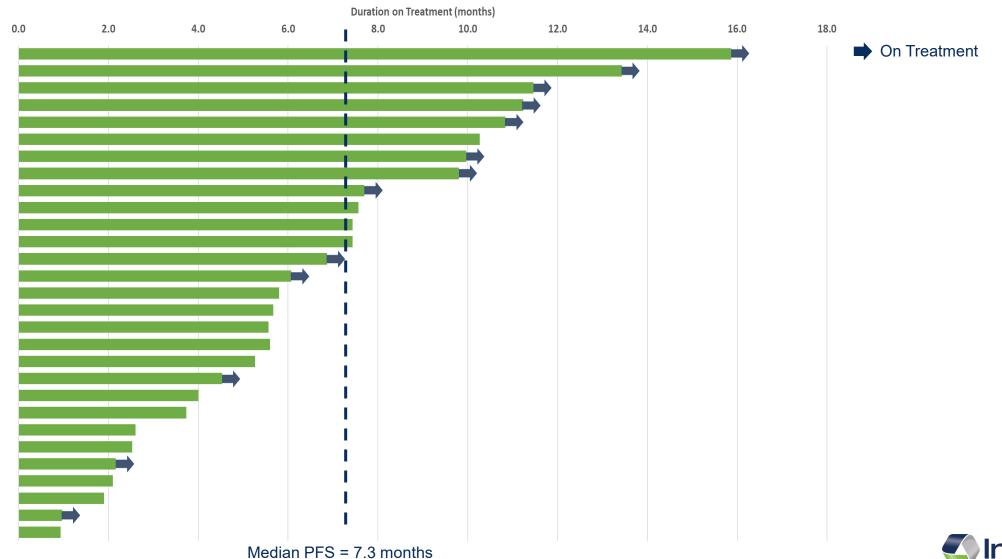
Tumor Reduction in 92.8% of PD-L1(+) and 85.2% of PD-L1(-) Patients

Immune Cell Score ≥ 1% cutoff for PD-L1(+) Soliman H, et al. SABCS 2021

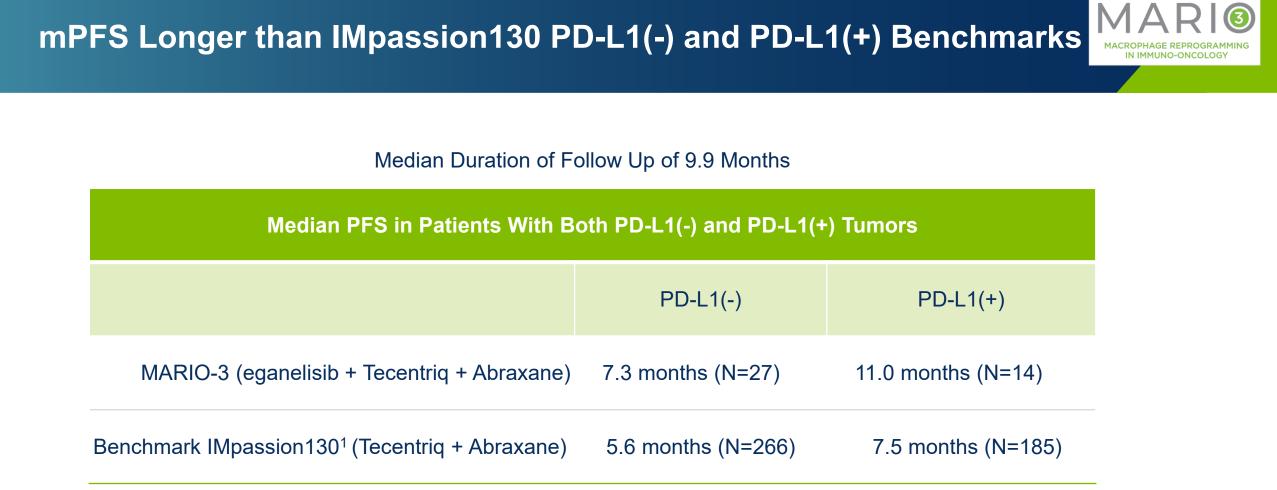
Durable, Ongoing Benefit in PD-L1(-) Patients



19



Soliman H, et al. SABCS 2021





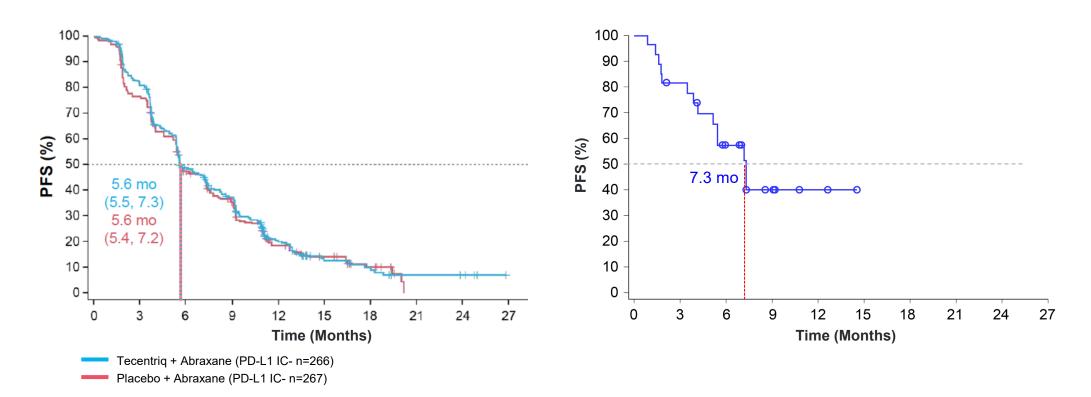




Potential to Address Need for Improvement Over SOC Chemo

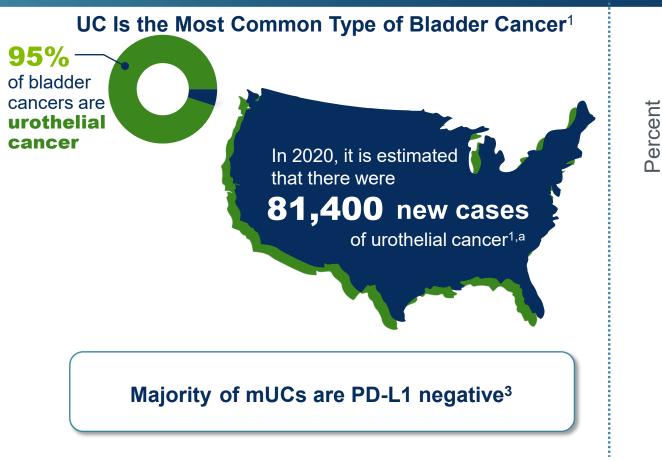
Historical IMpassion130 PD-L1(-)*

MARIO-3 PD-L1(-)

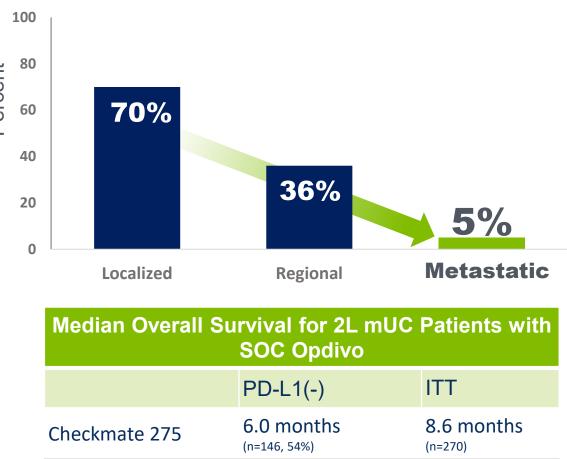




Significant Unmet Need in Metastatic Urothelial Cancer



5-Year Survival Rate by Stage at Diagnosis of UC^{2,*}



^aEstimated cases based on 2013-2017 cases. *5-Year relative survival percent, UC by SEER Summary Stage 2000.

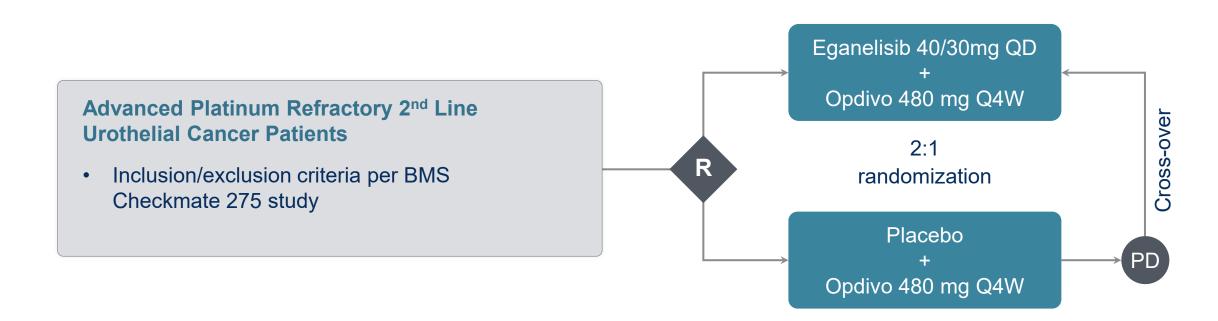
mUC, metastatic urothelial cancer; PD-L1, programmed death-ligand 1; SEER, Surveillance, Epidemiology, and End Results; UC, urothelial cancer.

1. National Cancer Institute. Accessed December 16, 2020. https://seer.cancer.gov/statfacts/html/urinb.html 2. National Cancer Institute. Accessed December 16, 2020. https://www.cancer.gov/types/bladder/patient/bladder-treatment-pdq#Keypoint2 3. Bellmunt J et al. *Ann Oncol.* 2015;26(4):812-817. 4. National Cancer Institute. Accessed July 20, 2021. https://seer.cancer.gov/statfacts/html/urinb.html



MARIO-275: Addition of Eganelisib to Standard of Care Opdivo in I/O Naïve Urothelial Cancer Patients, Including PD-L1(-) Patients

FDA Fast-Track Designation



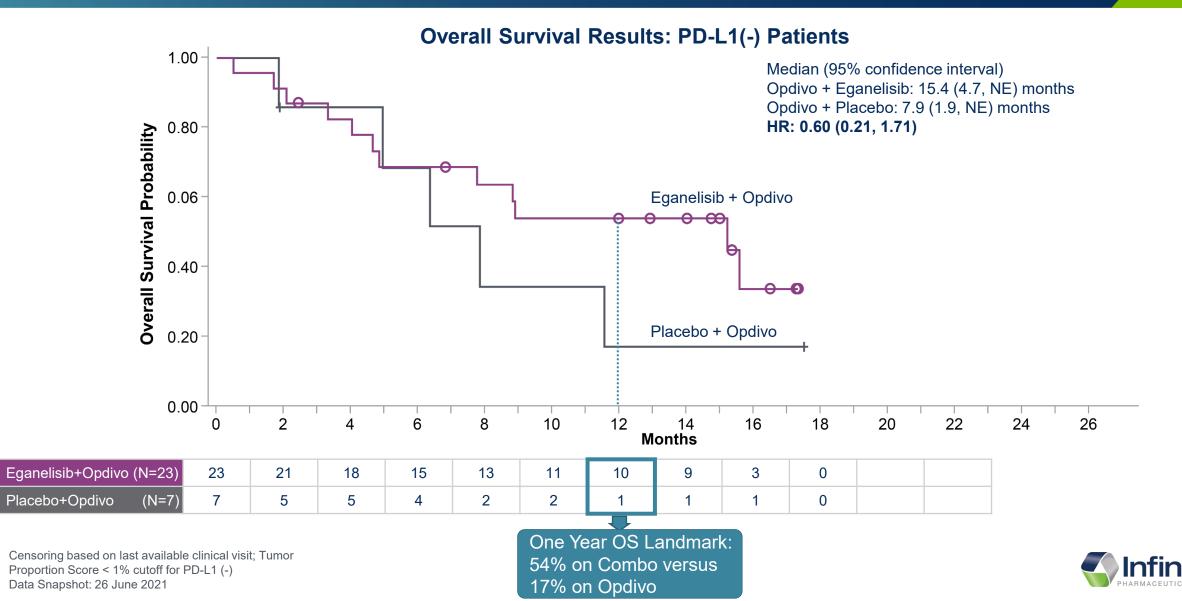
DOR, duration of response; MDSC, myeloid-derived suppressor cells; ORR, overall response rate; OS, overall survival; PD-L1, programmed death-ligand 1; PFS, progression-free survival; Q4W, once every four weeks; QD, once a day.

* PD-L1 expression measured in baseline/archival tumor biopsies with Dako PD-L1 immunohistochemical 28-8 pharmDx kit approved for nivolumab in UC, except 2 biopsies tested with 22C3 PD-L1 antibody prior to study (Tumor Proportion Score < 1% cutoff for PD-L1 (-)); Findings presented include data up to June 26, 2021

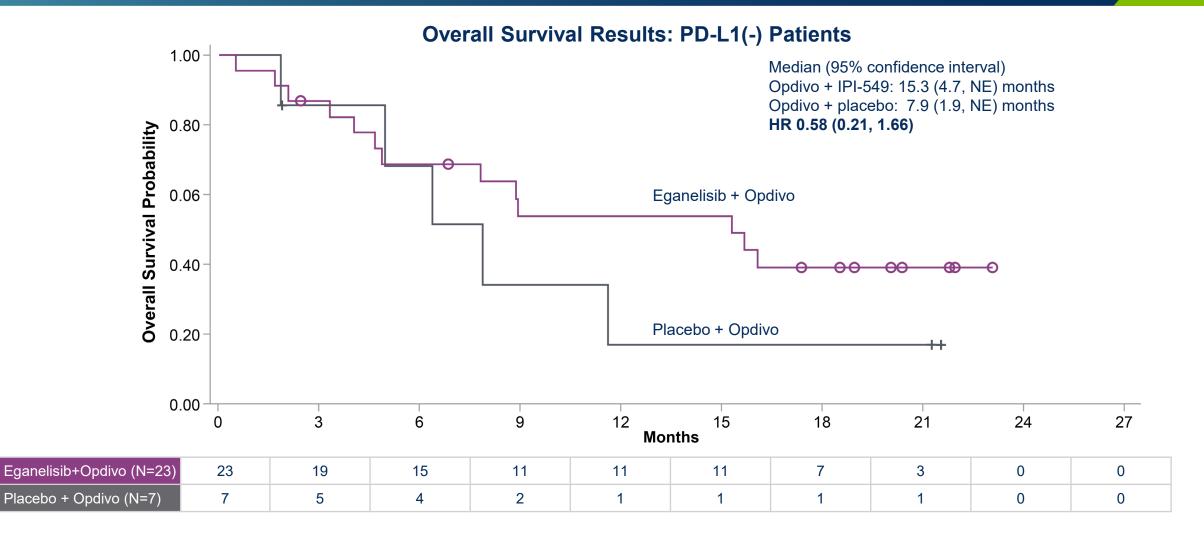


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mOS of PD-L1(-) Pts on Combo Arm: 15.4 mos vs 7.9 mos on Control MARI HR of 0.60 Indicating 40% Reduction of Risk of Death



mOS of PD-L1(-) Pts on Combo Arm: 15.3 mos vs 7.9 mos on Control MARIG HR of 0.58 Indicating 42% Reduction of Risk of Death



OS (mITT): censoring based on last available clinical visit (Figures 14.1.1.3.5, Table 14.2.5.4)

Data Snapshot 30 November 2021



2022 Milestones: Two Study Starts and Four Data Readouts

Initiation of New Studies

- MARIO-4 registration enabling study in frontline mTNBC by end of 2022
- 2. MARIO-P Platform Clinical Program in 3Q 2022

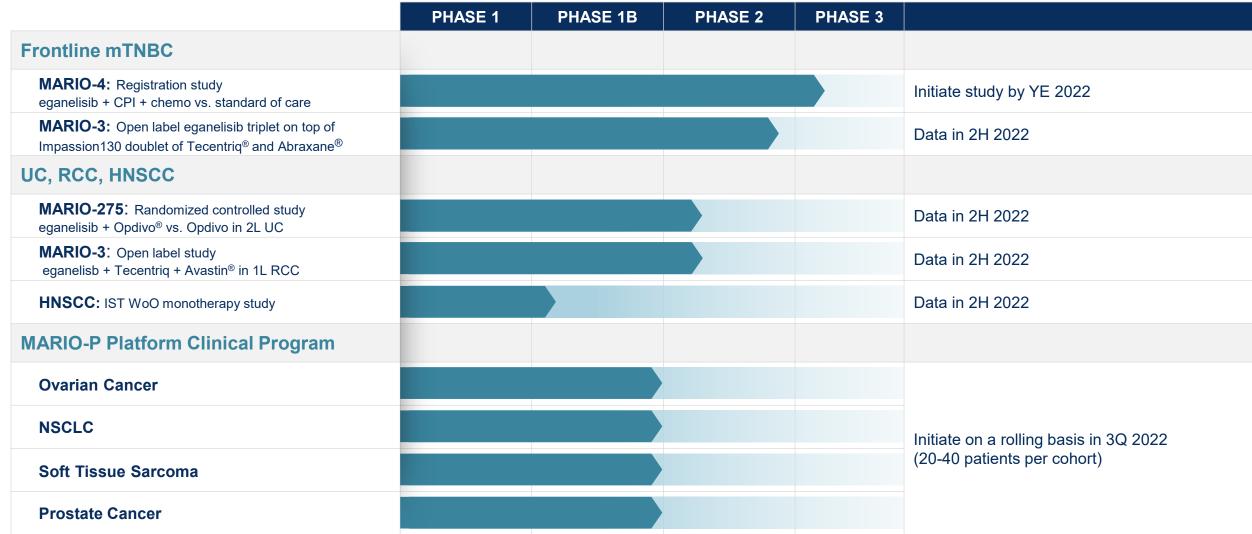
2022 new study starts and data to inform additional registration studies in 2023 and beyond

Data in 2H 2022

- MARIO-3 TNBC
- MARIO-275 UC
- MARIO-3 RCC
- HNSCC Window of Opportunity IST



Advancing and Expanding MARIO Clinical Development Program <u>MA</u>crophage <u>Reprogramming in Immuno-Oncology</u>



Triple Negative Breast Cancer (TNBC) Urothelial Cancer (UC) Renal Cell Carcinoma (RCC) Head and Neck Squamous Cell Cancer (HNSCC) Non Small Cell Lung Cancer (NSCLC)



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2022 Financial Guidance

- Cash at March 31, 2022 (unaudited): \$67.1 million
- 2022 Net Loss: \$45 million to \$55 million
- 2022 Year-End Cash: \$25 million to \$35 million

Infinity's financial guidance does not include potential additional funding or business development activities.



Eganelisib Addressing Significant Patient Need With Next-Generation Immunotherapies

May 2022

