

## Metastatic Lung Cancer Immunotherapy: Approach to NSCLC Without Targetable Mutations

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## First Line Lung Cancer Therapy with no actionable genes

#### **NSQCC:**

Carboplatin/Pemetrexed/Pembrolizumab [Keynote 189]

Carboplatin/Paclitaxel/Bevacizumab/Atezolizumab [IMPOWER 150]

#### **SQCC:**

Carboplatin/Paclitaxel or nab-paclitaxel/Pembrolizumab [Keynote 407]

#### **NSQCC and SQCC:**

Cemiplimab/Chemotherapy [Empower Lung-3]

Durvalumab +Tremelimumab/Chemotherapy [Poseidon 3]

#### IO single Agent (NSQCC OR SQCC)

Pembrolizumab [Keynote 024 and 042]

Atezolizumab [IMPOWER 110]

• Cemiplimab [Empower Lung-1]

#### Immunotherapy combinations:

Pilimumab and Nivolumab [Checkmate 227]

• Ipilimumab and Nivolumab plus 2 cycles of chemotherapy [Checkmate 9LA]





## EMPOWER-Lung 3 (Part 2) Study Design (NCT03409614)

Background: Cemiplimab (a high-affinity, fully human anti–PD-1) is approved as first-line monotherapy for advanced NSCLC with PD-L1 ≥50% (EMPOWER-Lung 1 Study¹)

#### Key eligibility criteria

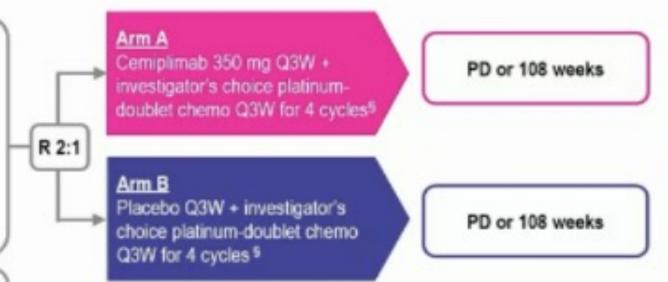
- Treatment-naive advanced NSCLC (non-squamous and squamous histology; Stage IIIb/c+, IV)
- Any PD-L1 expression
- No EGFR, ALK, or ROS1 mutations
- . ECOG PS 0 or 1
- Treated, clinically stable CNS metastases !

#### Stratification factors

- PD-L1 expression: <1% vs 1–49% vs ≥50%</li>
- Histology: non-squamous vs squamous

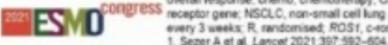
#### Endpoints

- Primary: OS
- Key secondary: PFS and ORR
- Additional secondary: DOR, BOR, safety, and PRO



N=466

Two interim analyses were prespecified per protocol Second interim analysis (14 June 2021) presented here



Patient not a candidate for definitive chemoradiation. <sup>1</sup> Patient must have neurologically returned to baseline (except for residual signs or symptoms related to the CNS treatment). <sup>1</sup>For patients with non-squamous NSCLC, pernetreived is mandatory as maintenance therapy for those patients initially assigned to receive a pernetreived-containing regimen. ALK anaplastic lymphoma kinase gene; BOR, best overall response; chemo, chemotherapy; CNS, central nervous system; DOR, duration of response; ECCG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor gene; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PRO, patient-reported outcomes; Q3W, every 3 weeks; R, randomised; ROS1, c-los oncogene 1.

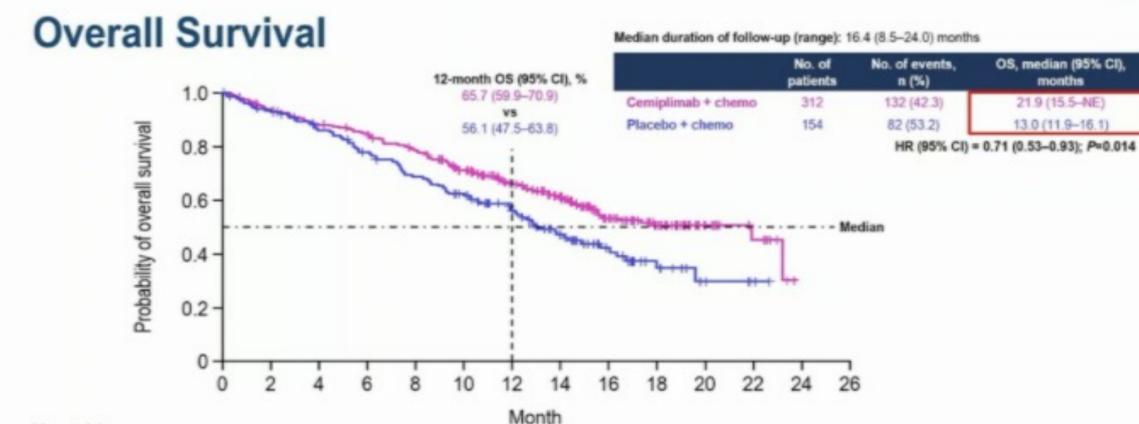
Follow-up

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Cemiplimab + chemo

Placebo + chemo

No. at risk:

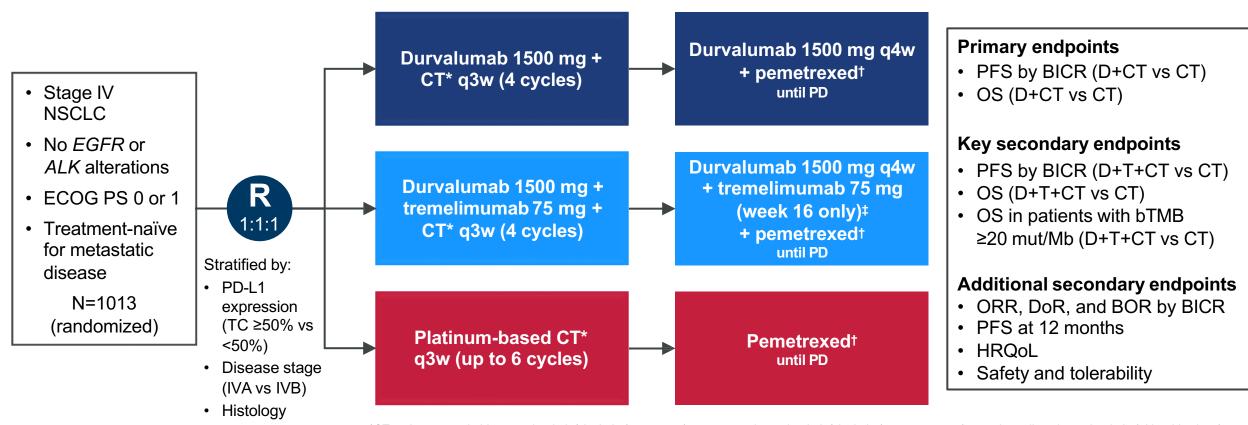
Data cut-off date: 14 June 2021

126

112

### **POSEIDON Study Design**

Phase 3, global, randomized, open-label, multicenter study

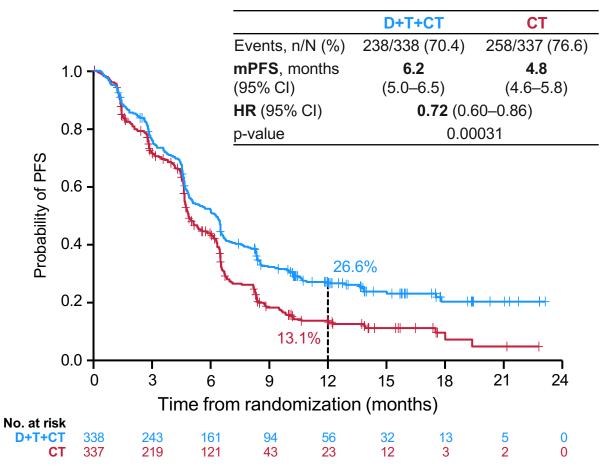


\*CT options: gemcitabine + carboplatin/cisplatin (squamous), pemetrexed + carboplatin/cisplatin (non-squamous), or nab-paclitaxel + carboplatin (either histology);

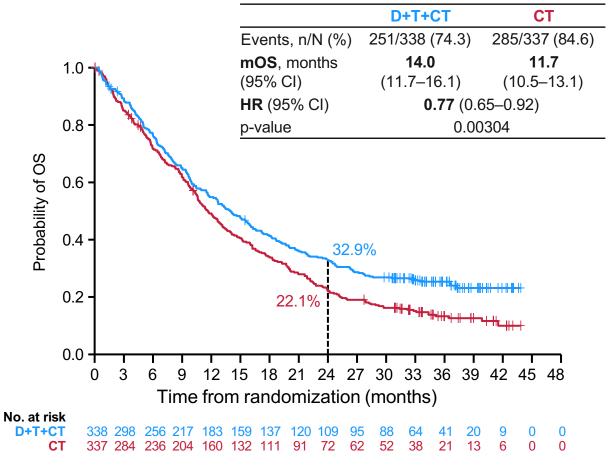
†Patients with non-squamous histology who initially received pemetrexed during first-line treatment only (if eligible); ‡Patients received an additional dose of tremelimumab post CT (5th dose)



## Durvalumab + Tremelimumab + CT vs CT: PFS and OS OS







Median follow-up in censored patients at DCO: 34.9 months (range 0–44.5)

#### **Conclusions**

- In POSEIDON, PFS was significantly improved with first-line durvalumab + CT vs CT in patients with mNSCLC, with a positive trend for OS that did not reach statistical significance
  - PFS HR 0.74 (95% CI 0.62–0.89; p=0.00093)
  - OS HR 0.86 (95% CI 0.72–1.02; p=0.07581)
- First-line durvalumab + tremelimumab + CT demonstrated statistically significant and clinically meaningful improvements in both PFS and OS vs CT in patients with mNSCLC
  - PFS HR 0.72 (95% CI 0.60–0.86; p=0.00031)
  - OS HR 0.77 (95% CI 0.65–0.92; p=0.00304)
  - OS and PFS benefit were more prominent among patients with non-squamous (than squamous) histology
- Overall, the safety profile was similar across all three arms, with no new safety signals identified. Adding tremelimumab to durvalumab + CT did not lead to a meaningful increase in treatment discontinuation
  - TRAE discontinuation rate 15.5% and 14.1% with D+T+CT and D+CT, respectively
- Durvalumab + tremelimumab + CT represents a potential new first-line treatment option for mNSCLC

## First Line Lung Cancer Therapy with no actionable genes

#### **Chemotherapy/IO Combinations**

Carboplatin/Pemetrexed/Pembrolizumab [Keynote 189]

Carboplatin/Paclitaxel/Bevacizumab/Atezolizumab [IMPOWER 150]

Carboplatin/Paclitaxel or nab-paclitaxel/Pembrolizumab [Keynote 407]

• Cemiplimab/Chemotherapy [Empower Lung-3]

Durvalumab + Tremelimumab/Chemotherapy [Poseidon 3]

#### IO single Agent (PDL1>50%)

Pembrolizumab [Keynote 024 and 042]

Atezolizumab [IMPOWER 110]

• Cemiplimab [Empower Lung-1]

#### **Immunotherapy combinations:**

Ipilimumab and Nivolumab [Checkmate 227]

Ipilimumab and Nivolumab plus 2 cycles of chemotherapy [Checkmate 9LA]



## ORR slightly in favor of combination chemo+IO

	KN 24	KN 42	IMPW 10 TC3/IC3	KN 407	(TDC > 50%)
	(TPS > 50%)	(TPS > 50%)	(>50% and >10%)	(TPS > 50%)	(TPS > 50%)
ORR	45%	39.5%	30.7%	60.3%	61.4%
DOR	Nr (1.8-20.6 m)	20.2 m	Nr (1.8- 29.3m)	7.7 m (all patients)	11.2 m (all patients)



# Adverse Events more prevalent with Chemo/IO

	KN-42		KN-24		KN-189		KN-407	
	Pembro	СТ	Pembro	СТ	Pembro + CT	СТ	Pembro + CT	СТ
All TRAE (%)	62.7%	89.9%	76.6%	90.0%	99.8%	99.0%	98.2%	97.9%
Grade 3-5 TRAE (%)	17.8%	41%	31.2%	53.3%	67.2%	65.0%	69.8%	68.2%
Discontinuation rate (any) (%)	9%	9.4%	13.6%	10.7%	27.7%	14.9%	23.4%	11.8%
Led to death	0.2%	0%	1.3%	2.0%	6.7%	5.9%	8.3%	6.4%





## Outcomes of anti-PD-(L)1 therapy with or without chemotherapy (chemo) for first-line (1L) treatment of advanced non-small cell lung cancer (NSCLC) with PD-L1 score ≥50%: FDA Pooled Analysis

Oladimeji Akinboro<sup>1</sup>, Jonathon Vallejo<sup>1</sup>, Erica Nakajima<sup>1</sup>, Yi Ren<sup>1</sup>, Pallavi Mishra-Kalyani<sup>1</sup>, Erin Larkins<sup>1</sup>, Paz Vellanki<sup>1</sup>, Nicole Drezner<sup>1</sup>, Mathieu Luckson<sup>1</sup>, Shenghui Tang<sup>1</sup>, Martha Donoghue<sup>1,2</sup>, Richard Pazdur<sup>1,2</sup>, Julia A. Beaver<sup>1,2</sup>, Harpreet Singh<sup>1,2</sup>

<sup>1</sup>Center for Drug Evaluation and Research, U.S. Food and Drug Administration

<sup>2</sup>Oncology Center of Excellence, U.S. Food and Drug Administration

Oladimeji Akinboro, MD, MPH









## Clinical trials of first-line Chemo-IO and IO regimens included in FDA pooled analysis



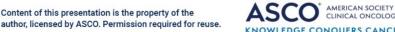
	Chemo-IO Trials	IO-only Trials		
Trial	Investigational Regimen	Trial	Investigational Regimen	
KEYNOTE-021*	Pembrolizumab + Chemo**	CheckMate 026	Nivolumab**	
KEYNOTE-189	Pembrolizumab + Chemo**	KEYNOTE-024	Pembrolizumab**	
KEYNOTE-407	Pembrolizumab + Chemo**	KEYNOTE-042	Pembrolizumab**	
IMpower150	Atezolizumab + Bevacizumab + Chemo***	IMpower110	Atezolizumab**	
IMpower130	Atezolizumab + Chemo**	CheckMate 227	Nivolumab + Ipilimumab**	
CheckMate-9LA	Nivolumab + Ipilimumab + Chemo**	EMPOWER-Lung 1	Cemiplimab**	

Abbreviations: Chemo-IO=platinum-based doublet chemotherapy immunotherapy; IO=immunotherapy.





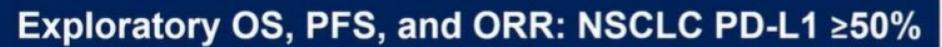




<sup>\*</sup> Cohort G

<sup>\*\*</sup> Control arms: Platinum-based doublet chemotherapy

<sup>\*\*\*</sup> Control arm in IMpower150: Bevacizumab plus platinum-based doublet chemotherapy





	Chemo-IO (N=455)		IO-alone (N=1,298)	
os				
Median, months (95% CI)	25.0 (19.0, NE)		20.9 (18.5, 23.1)	
HR (95% CI)		0.82 (0.62, 1.08)		
PFS				
Median, months (95% CI)	9.6 (8.4, 11.1)		7.1 (6.3, 8.3)	
HR (95% CI)		0.69 (0.55, 0.87)		
ORR				
% (95% CI)	61 (56, 66)		43 (41, 46)	
Odds ratio		1.2 (1.1, 1.3)		

Abbreviations: Chemo-IO=platinum-based doublet chemotherapy plus immunotherapy; CI=confidence interval; HR-hazards ratio; IO=immunotherapy; N=number; NSCLC=non-small-cell lung cancer; NE=not estimable; ORR=objective response rate; OS=overall survival; PD-L1=programmed death ligand-1; PFS=progression-free survival.









Microbiome

#### Low Benefit Conventional immunotherapy ICI alone **Patients** High Benefit High TMB **dMMR** Personalized Therapy High Benefit Tregs/MDSCs Immune Adjuvants **Predictive Biomarkers** Tumor tissue PD-L1 expression Cold tumor High Benefit TMB MMR Low Ki-67 TIL Immune Adjuvants expression Tregs/MDSCs Neoantigens Peripheral blood Low % of miRNA Exclusion Lymphocyte Tregs/MDSCs from immunotherapy (Less than 15%) Ki-67 expression Feces

## Immunotherapy resistance in NSCLC

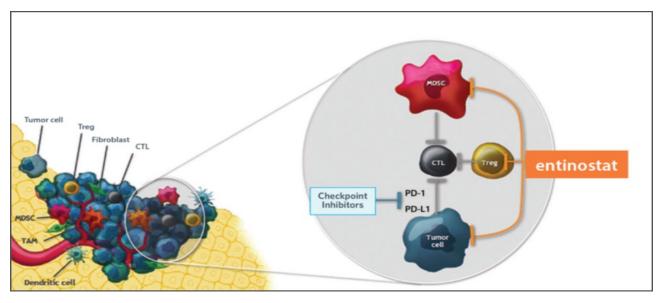
- Deacetylase Inhibitors (etinostat, vorinostat)
- Vaccines (Heat Shock Protein gp96)
- STK11/LKB1 and KEAP
- Cytokines (IL-10, IL-15)
- Adenosine pathway
- Combination checkpoints (IDO, TIM, LAG3, TIGIT)
- Adoptive T cell therapies (TILs, TILs + anti PD(L)-1, TCRs)
- B-catenin pathway



CLINICAL CANCER RESEARCH | CLINICAL TRIALS: IMMUNOTHERAPY

# Entinostat plus Pembrolizumab in Patients with Metastatic NSCLC Previously Treated with Anti-PD-(L)1 Therapy

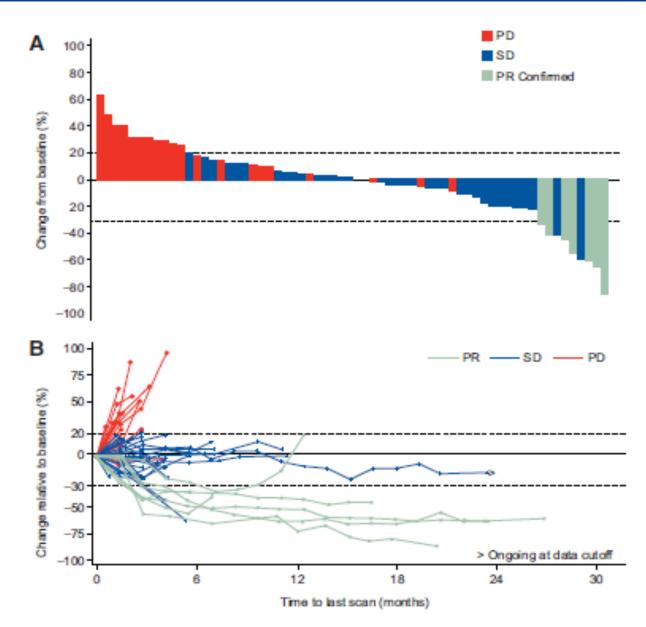
Matthew D. Hellmann<sup>1</sup>, Pasi A. Jänne<sup>2</sup>, Mateusz Opyrchal<sup>3</sup>, Navid Hafez<sup>4</sup>, Luis E. Raez<sup>5</sup>, Dmitry I. Gabrilovich<sup>6</sup>, Fang Wang<sup>6</sup>, Jane B. Trepel<sup>7</sup>, Min-Jung Lee<sup>7</sup>, Akira Yuno<sup>7</sup>, Sunmin Lee<sup>7</sup>, Susan Brouwer<sup>8</sup>, Serap Sankoh<sup>8</sup>, Lei Wang<sup>8</sup>, David Tamang<sup>8</sup>, Emmett V. Schmidt<sup>9</sup>, Michael L. Meyers<sup>8</sup>, Suresh S. Ramalingam<sup>10</sup>, Elaine Shum<sup>11</sup>, and Peter Ordentlich<sup>8</sup>

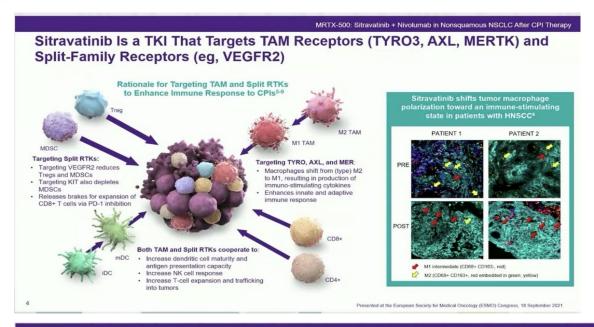


- Entinostat (ENT) is an oral class I-selective histone deacetylase inhibitor
- ENT leads to the downregulation of immunosuppressive cell types in the tumor microenvironment
- Synergy with anti-PD1 inhibition in preclinical models
- Promising activity is shown in combination with pembrolizumab in patients with melanoma and lung cancer



- Objective response rate with ENT + PEMBRO was 10% (7 of 72, 95% CI: 4-19%)
  - Median duration of response was 5.3 months
  - An additional 50% of patients achieved disease stabilization
- Median progression-free survival = 2.8 months (95% CI: 2.1-4.1)





MRTX-500: Sitravatinib + Nivolumab in Nonsquamous NSCLC After CPI Therapy

#### MRTX-500: Phase 2, Open-Label Study of Sitravatinib + Nivolumab in Patients With Nonsquamous NSCLC With Prior Clinical Benefit From Checkpoint Inhibitor Therapy

#### **Key Eligibility Criteria** (n=68)

- No actionable driver mutations
- Prior Clinical Benefit (PCB) to CPI: CR. PR. or SD ≥12

#### **Primary Endpoint:**

 Objective Response Rateb (ORR), as defined by RECIST 1.1

#### Secondary Endpoints:

- · Safety and tolerability
- · DOR
- · CBR
- · PFS · OS
- 1-year survival rate

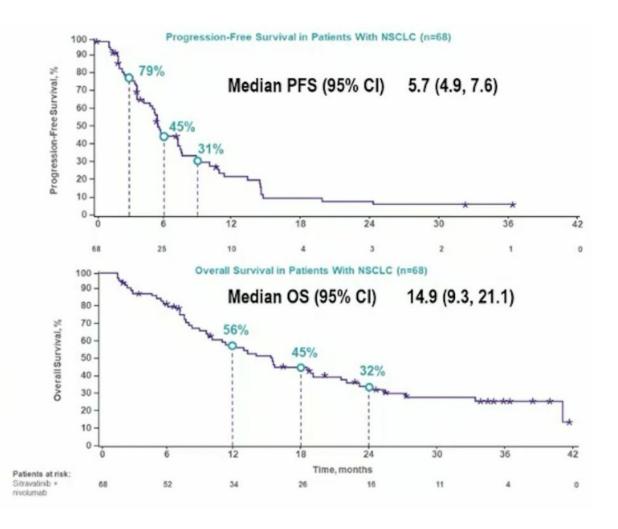
Sitravatinib 120 mg QD +

nivolumab

Here we report updated efficacy and safety with sitravatinib + nivolumab in the 2L or 3L setting in patients with nonsquamous NSCLC who have experienced clinical benefit on a prior CPI and subsequent disease progression

\*Additional cohorts included a CPI-experienced cohort that did not receive prior clinical benefit from CPI therapy (radiographic progression of disease \$12 weeks after initiation of treatment with CPI) and a CPI-naive cohort in patients that were previously treated with platinum-based chemotherapy. \*Objective response rate based on investigator assessment. Obsaing sitzwatelink tree base formulation, involumab, 240 mg Q2W or 480 mg Q4W. Treatment discontinuation could be due to feel in not limited to disease progressions, global health deleteranized, AEs, protocol violation, but to follow-up, refusal of further treatment, study fermination, or death.

Presented at the European Society for Medical Oncology (ESMO) Congress, 18 September 2021



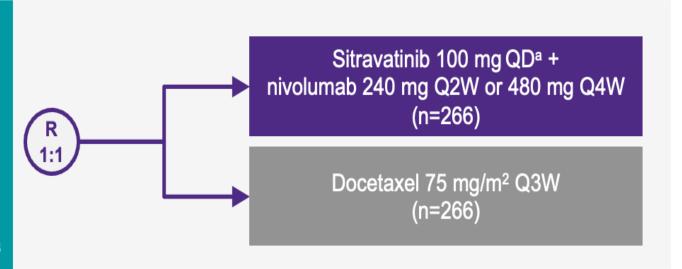
Ticiana Leal. ESMO 2021.



SAPPHIRE: Phase 3, Randomized, Open-Label Trial of 2L/3L Sitravatinib + Nivolumab vs Docetaxel After Progression on or Following CPI in Advanced NSCLC

## Key Eligibility Criteria (n=532)

- Advanced, nonsquamous NSCLC
- Prior PD-1/L1 therapy for ≥4 months (prior anti–CTLA-4 therapy allowed)
- Progression on or following PD-1/L1 inhibitor in combination with or following chemotherapy
- Excludes patients with known driver mutations



#### **Primary Endpoint:**

#### **Secondary Endpoints:**

OS

- PFS
- ORR
- Safety

CONQUERING THORACIC CANCERS WORLDWIDE

## STK11/LKB1, KRAS mutations and immunerelated adverse events as predictors of response to immunotherapy in lung cancer

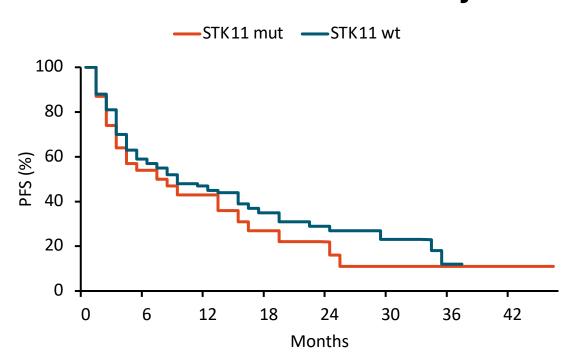
Luis E. Raez, MD¹; Richie Uba, PharmD²,³; Aaron North, PharmD²,³; Katerine Dumais, PharmD, MPH¹; Hermán W. Powery II, PharmD, BCOP¹; Gelenis Domingo, MD¹; Brian Hunis, MD¹; Paola Izquierdo, ARNP¹; Frank Gentile, PharmD, BCOP¹

<sup>1</sup>Memorial Cancer Institute, Pembroke Pines, FL; <sup>2</sup>Florida A&M University, Davie, FL; <sup>3</sup>Memorial Regional Hospital, Hollywood, FL

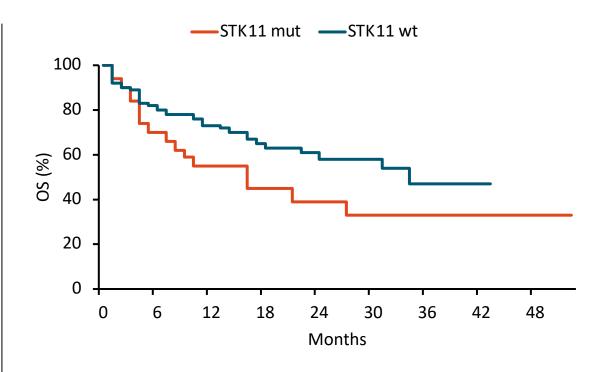
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CONQUERING THORACIC CANCERS WORLDWIDE

## Results: PFS and OS by STK11 Status



	STK11 wt n = 96	STK11 mut n = 31	HR (95% CI)	р
mPFS	6.3m	5.6m	1.35 (0.76-2.1)	0.35
12-m PFS	45%	43%	-	0.85



	STK11 wt n = 96	STK11 mut n = 31	HR (95% CI)	р
mOS	12.1m	8.6m	1.7 (1.0-3.6)	0.03
12-m OS	73%	55%	-	0.03









# Overall survival from a phase II randomized study of ramucirumab plus pembrolizumab versus standard of care for advanced non-small cell lung cancer previously treated with immunotherapy—Lung-MAP non-matched sub-study S1800A

Karen L. Reckamp, M.D.<sup>1</sup>, Mary W. Redman, PhD<sup>2</sup>, Konstantin H. Dragnev, M.D.<sup>3</sup>, Liza Villaruz, M.D.<sup>4</sup>, Bryan Faller, MD<sup>5</sup>; Tareq Al Baghdadi, MD<sup>6</sup>, Susan Hines, MD<sup>7</sup>, Lu Qian, M.S.<sup>2</sup>, Katherine Minichiello, M.S.<sup>2</sup>, David R. Gandara, M.D.<sup>8</sup>, Karen Kelly, MD<sup>8</sup>, Roy S. Herbst, M.D., Ph.D.<sup>9</sup>

<sup>1</sup>Cedars-Sinai Medical Center, Los Angeles, CA; <sup>2</sup>SWOG Statistics and Data Management Center & Fred Hutchinson Cancer Research Center, Seattle, WA; <sup>3</sup>Dartmouth-Hitchcock Norris Cotton Cancer Center, Lebanon, NH/Alliance for Clinical Trials in Cancer; <sup>4</sup>University of Pittsburgh Medical Center (UPMC) Hillman Cancer Center; <sup>5</sup>Missouri Baptist Medical Center, St. Louis, MO/Heartland NCORP; <sup>6</sup>IHA Hematology Oncology Consultants-Ann Arbor/Michigan CRC NCORP; <sup>7</sup>Novant Health Cancer Institute - Mount Airy/Southeast Clinical Oncology Research Consortium NCORP); <sup>8</sup>UC Davis Comprehensive Cancer Center, Sacramento, CA; <sup>9</sup>Yale University, New Haven, CT







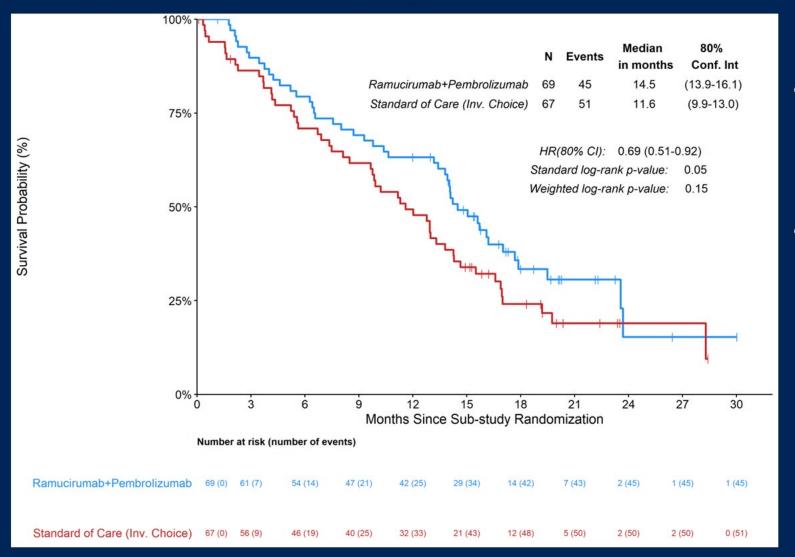








## Overall survival



 Median OS for RP 14.5 months v. SOC 11.6 months

HR= 0.69; SLR p-value 0.05

#### Standard of care therapy received:

- Docetaxel + Ramucirumab (n = 45)
- Docetaxel (n = 3)
- Gemcitabine (n = 12)
- Pemetrexed (n = 1)
- No treatment (n = 6)











## **COSMIC-021 Study Design for NSCLC Cohorts**

#### **Key Eligibility Criteria**

- Stage IV non-squamous NSCLC with radiographic progression on or after one prior ICI for metastatic disease
- ≤2 prior lines of systemic anticancer therapy\*
- Patients with known EGFR, ALK, ROS1, or BRAF V600E tumor mutations excluded



Cohort 20<sup>‡</sup>
Cabozantinib 60 mg QD PO
(N=30)

Tumor assessment per RECIST v1.1 by investigator every 6 weeks for the first year and every 12 weeks thereafter

**Primary endpoint:** ORR per RECIST v1.1 by investigator

Secondary endpoint: Safety (AEs, SAEs, AESIs)

**Exploratory endpoints:** DOR, PFS per RECIST v1.1 by investigator, OS

SAEs, serious adverse events; AESIs, adverse events of special interest







<sup>\*</sup>Prior treatment with platinum-based chemotherapy was not required. †Patients were initially enrolled to cohort 7 (n=35). Following an initial assessment of clinical activity, subsequent patients were randomized between cohorts 7 and 20. ‡Patients in cohort 20 may receive combination therapy after radiographic disease progression per RECIST v1.1 by the investigator.

## **Efficacy Summary**

		Cabozantinib				
	All patients (N=81)	PD-L1 <1% (n=19)	PD-L1 ≥1% (n=41)	PD-L1 unknown (n=21)	(N=31)*	
ORR, n (%)	15 (19)	2 (11)	8 (20)	5 (24)	2 (6)	
Best overall response, n (%)						
Complete response	0	0	0	0	0	
Partial response	15 (19)	2 (11)	8 (20)	5 (24)	2 (6)	
Stable disease	50 (62)	12 (63)	25 (61)	13 (62)	18 (58)	
Progressive disease	13 (16)	3 (16)	8 (20)	2 (10)	6 (19)	
Missing / not evaluable	3 (4)	2 (11)	0	1 (5)	5 (16)	
Disease control rate, n (%)	65 (80)	14 (74)	33 (80)	18 (86)	20 (65)	
PFS, mo (95% CI)	4.5 (3.5–5.6)	4.0 (2.6–5.6)	4.7 (2.7–5.6)	5.4 (2.9–10.9)	3.4 (1.4–5.6)	
Median DOR, mo (95% CI)	5.8 (4.2–6.9)	3.4 (2.6-NE)	6.5 (3.5-NE)	6.2 (4.2–NE)	10.6 (6.3-NE) <sup>†</sup>	
OS, mo (95% CI)	13.8 (7.2–15.7)	6.8 (5.1–15.4)	10.4 (5.9–17.1)	17.4 (9.4–NE)	9.4 (4.5–11.7)	

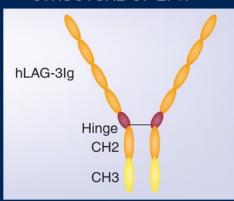
<sup>\*</sup>Eight patients in the cabozantinib alone cohort were crossed over to receive cabozantinib plus atezolizumab after experiencing disease progression; the efficacy data of these patients are not reported in this presentation except for OS. †The DOR of the 2 responders was 6.3 and 14.8 months.





## Eftilagimod alpha (efti) – soluble LAG-3

#### STRUCTURE OF EFTI4



- MoA: efti (figure, left) is a soluble LAG-3 protein (LAG-3 domains fused to human IgG backbone)
  targeting a subset of MHC class II molecules to mediate antigen presenting cells (APCs) and
  CD8 T-cell activation (figure below left).
- **Difference to Anti-LAG-3:** Efti does not bind to the LAG-3 on the T cell (figure, below right).
- Rationale: efti activates APCs, leading to an increase in activated T cells, potentially reducing the number of non-responders to PD-1/PD-L1 antagonists.
- In preclinical models, the antitumor activity of PD-1 antagonists was synergistically enhanced when combined with efti<sup>1</sup>.
- Recommended phase II dose of 30 mg efti s.c. every two weeks was determined in phase I studies<sup>2,3</sup>.

MoA: mechanism of action

PD-1/PD-L1: programmed death-(ligand) 1

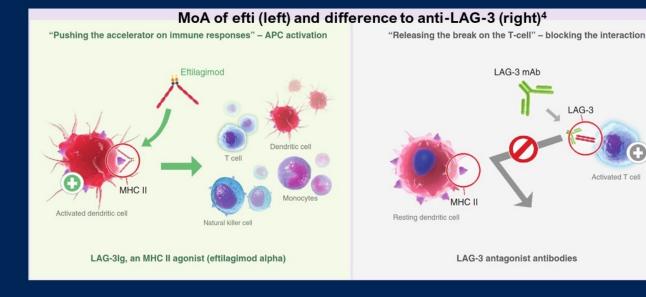
s.c.: subcutaneous

<sup>1</sup> Internal data, Immutep, not yet published.

<sup>2</sup> Brignone C, Clin Cancer Res. 2009;15: 6225- 6231.

<sup>3</sup> Atkinson V, J Immunoth Cancer. 2020; 8(2):e001681.

<sup>4</sup> Dirix L, Triebel F. Future Oncol. 2019;15(17):1963-1973.





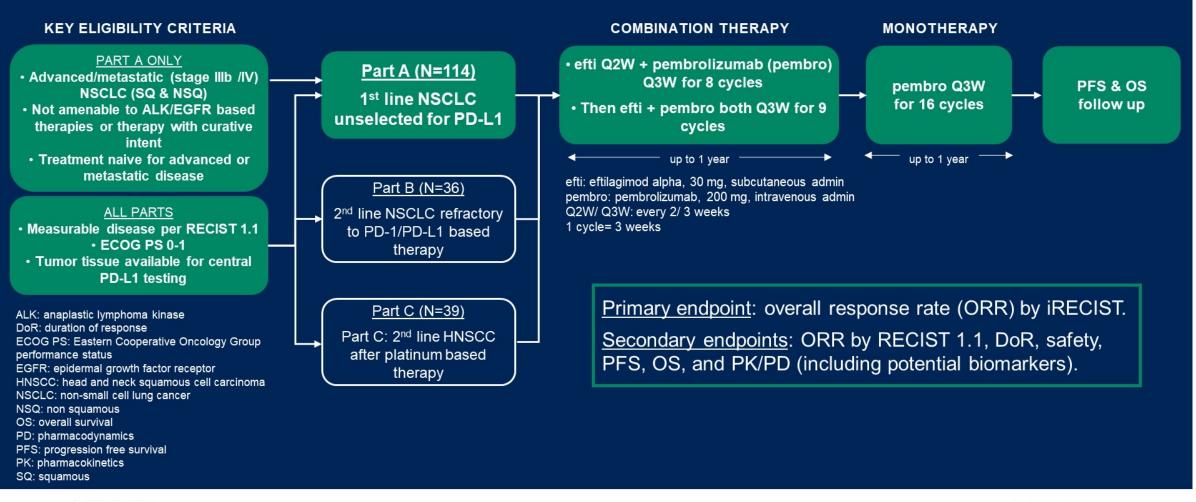






## **Trial Design – TACTI-002**

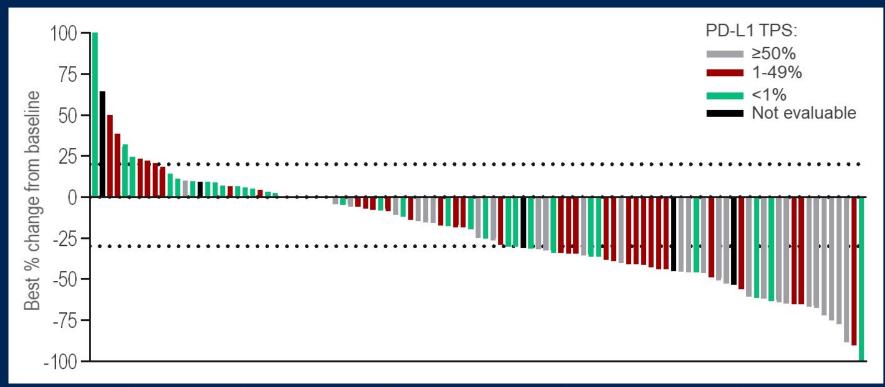
TACTI-002 is a Phase II, multinational, open label trial with patients from 3 indications unselected for PD-L1.







## Efficacy – Waterfall plot<sup>1</sup> – TACTI-002



<sup>1</sup> all patients with ≥1 post-baseline CT scan n=103; <sup>2</sup> PD-L1 assessed by central assessment (Dako kit); n=79; <sup>3</sup> local assessment included due to non evaluable central assessment results, n=19; <sup>4</sup> no results available for neither central nor local testing, n=5.

- 2 complete responses and 19.4% of patients with a target lesion decrease ≥50%.
- 68/103 (66.0%) of patients with a post-baseline assessment had a decrease in target lesions.

Data cut-off date: April 15, 2022

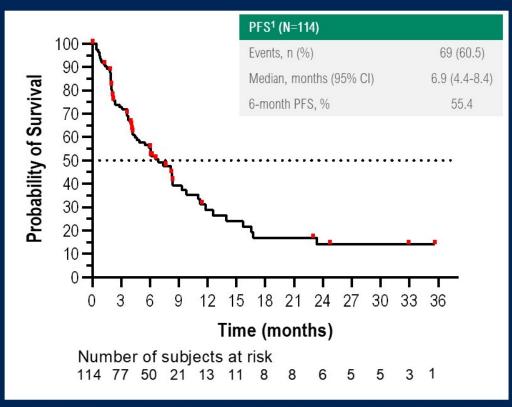






## Efficacy – Interim Progression Free Survival<sup>1</sup> (PFS) – TACTI-002

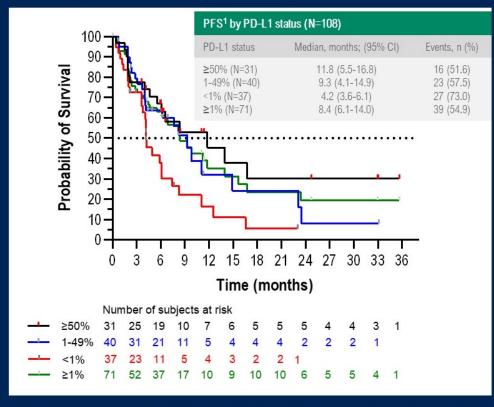
#### PFS<sup>1</sup> ITT (N=114)



• Interim median PFS¹ in the ITT (unselected for PD-L1) was 6.9 (95% CI: 4.4.-8.4) months.

by iRECIST.
 central (N=87) & local (N=21) as previously described on slide 9.

PFS<sup>1</sup> by PD-L1 status<sup>2</sup> (N=108)



• Interim median PFS¹ in PD-L1 ≥1% was 8.4 (95% CI: 6.1-14.0) months and 11.8 (5.5-16.8) months in PD-L1 ≥50%.

Data cut-off date: April 15, 2022

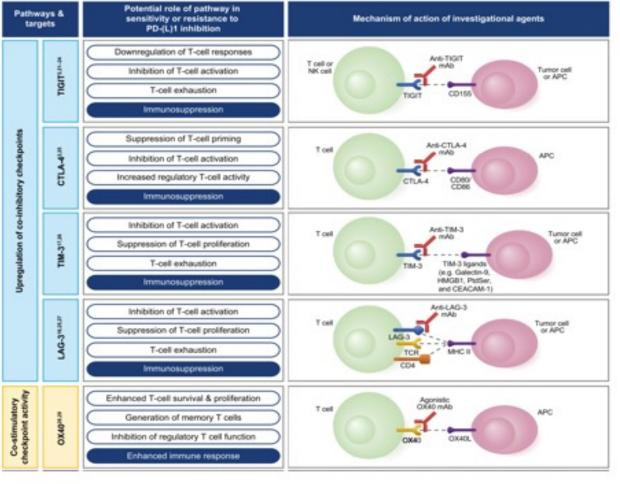


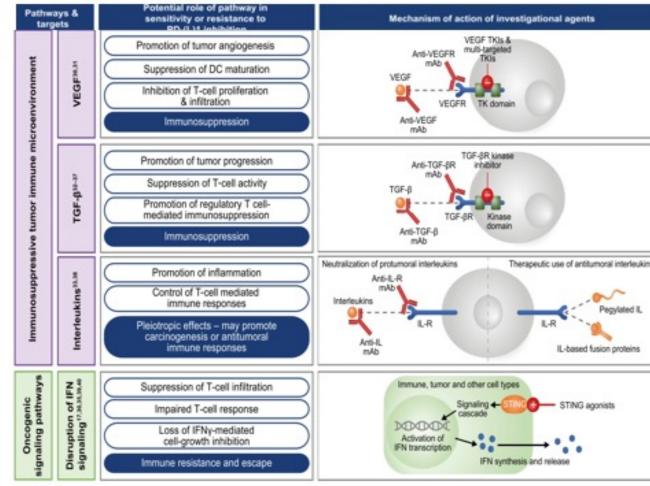






# Potential pathways contributing to sensitivity and resistance to PD-(L)1 inhibitors in NSCLC







# Thanks









