



AstraZeneca   
ESMO Poster Sessions

23 October 2023

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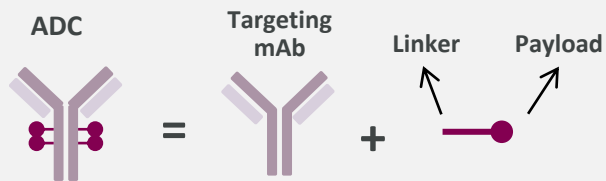
AstraZeneca



ADCs in focus

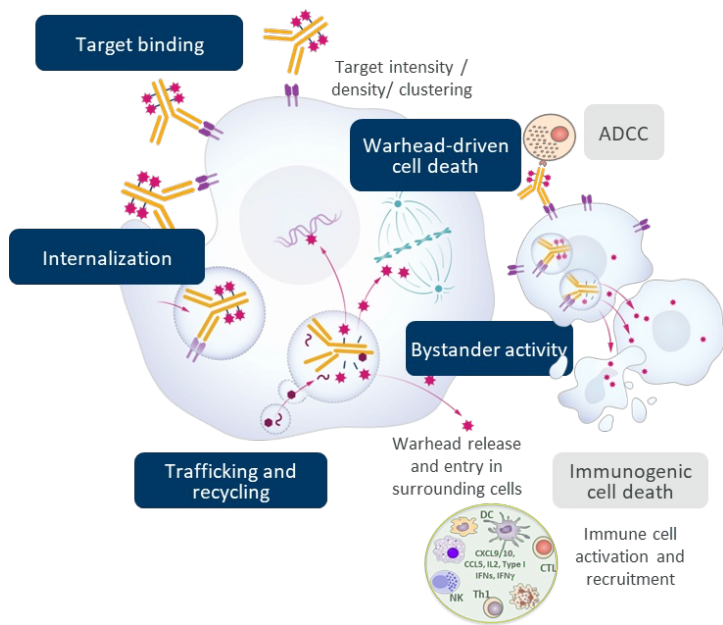
# ADC revolution: potential to replace conventional chemotherapy

## ABCs of ADCs



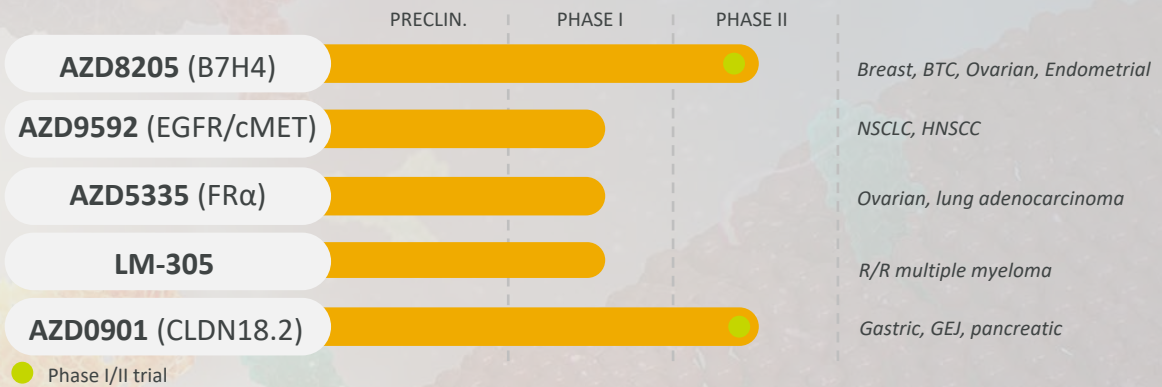
## ADCs consist of :

- (1) Highly selective mAb against a target antigen overexpressed on tumour cells relative to normal cells
- (2) Potent cytotoxic payload designed to induce target cell death
- (3) Linker connecting mAb to payload

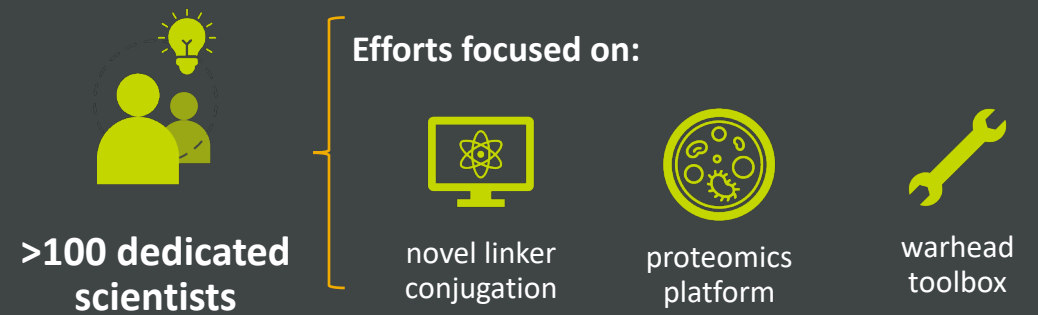


Optimised ADC technology and biology must align to build successful ADC

## AstraZeneca disclosed in-house ADC portfolio



## AstraZeneca in-house capabilities | Proprietary ADC platform



# AstraZeneca novel ADC programmes

## ADC design through optimal combinations

1

### Targets & Antibodies

*Efficient delivery of ADC payload*

2

### Conjugation chemistry & linkers

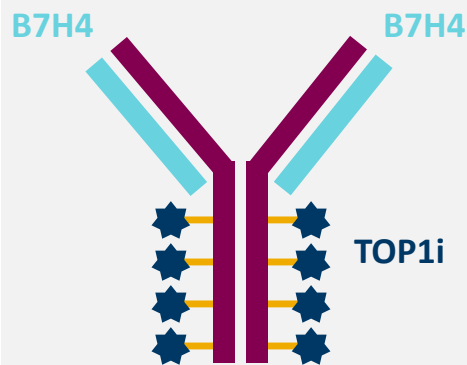
*Overcome potential off-target toxicity*

3

### Payloads

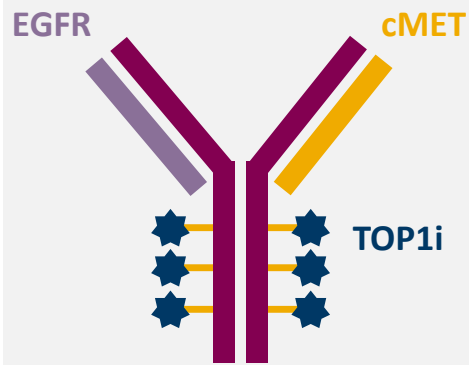
*Enable biology-driven combinations and overcome payload resistance*

#### AZD8205 (B7H4)



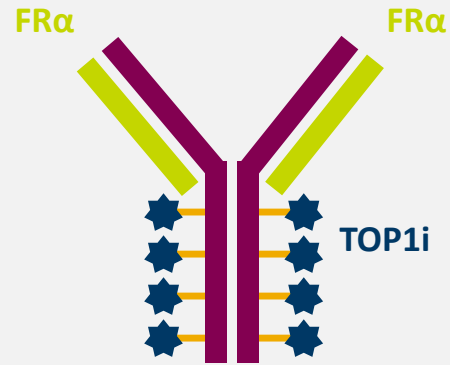
DAR 8

#### AZD9592 (EGFR/cMET)



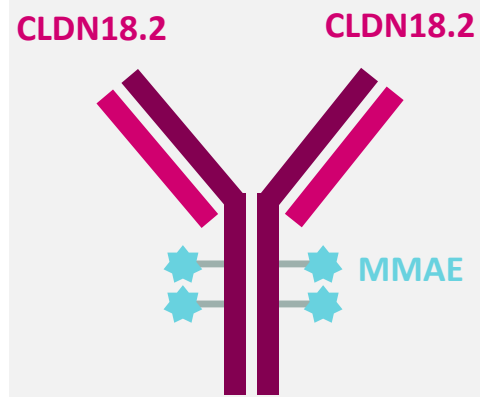
DAR 6

#### AZD5335 (FR $\alpha$ )



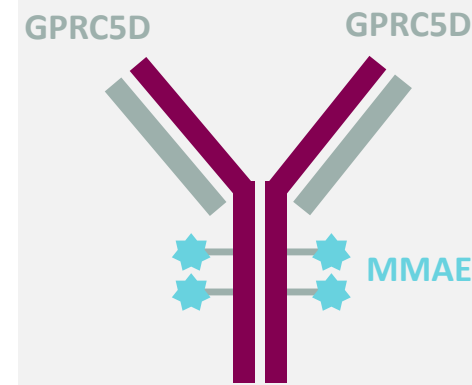
DAR 8

#### AZD0901 (CLDN18.2)



DAR 4

#### LM-305 (GPCR5D)



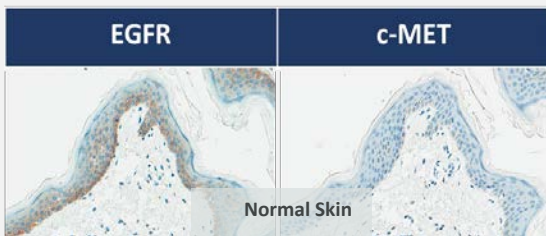
DAR 4



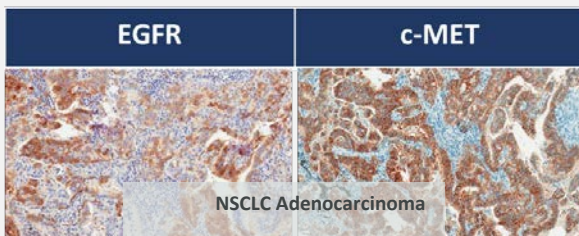
# AZD9592 (EGFR/cMET)

## Rationale for EGFR-cMET ADC

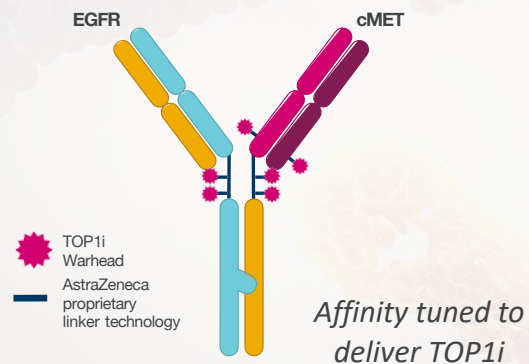
EGFR & cMET co-expression is limited in normal tissue



...but highly co-expressed in many tumor types



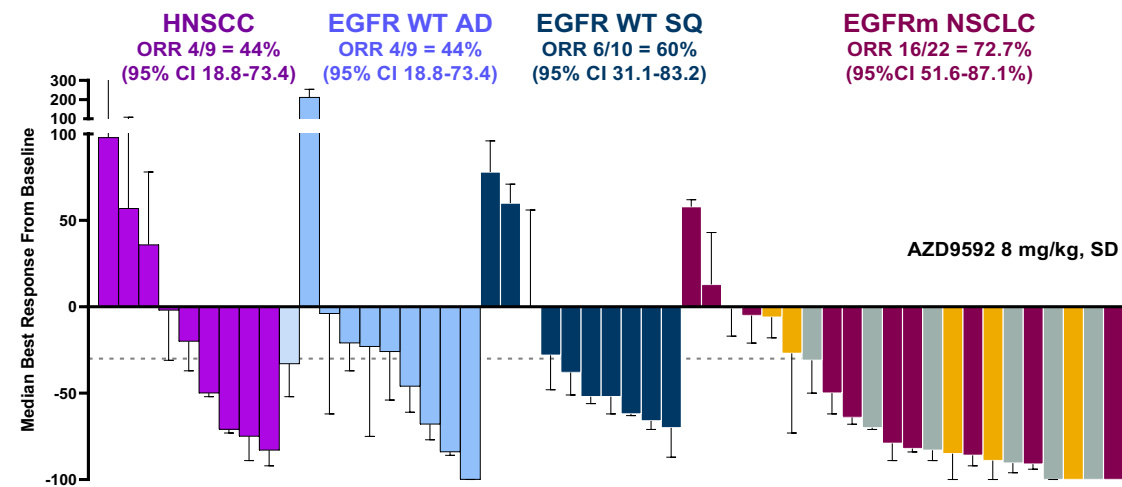
AZD5952 engineered to maximise efficacy and improve safety



Modulate affinity for EGFR  
Broaden therapeutic index, safety

Add TOP1i ADC warhead  
Direct tumor-killing by TOP1i  
Extends benefit beyond signaling-dependent tumors

ADC activity is independent of EGFR and MET driver alterations (mut/amp), oncogenic drivers, and prior treatments

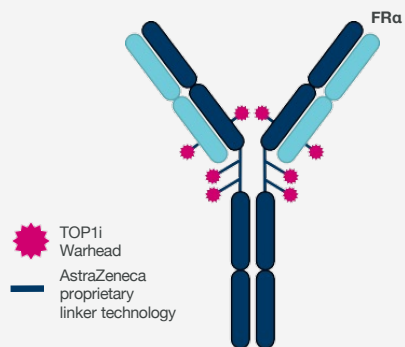


Phase I EGRET first-in-human dose-escalation and dose-expansion trial of AZD9592 in advanced solid tumours ongoing

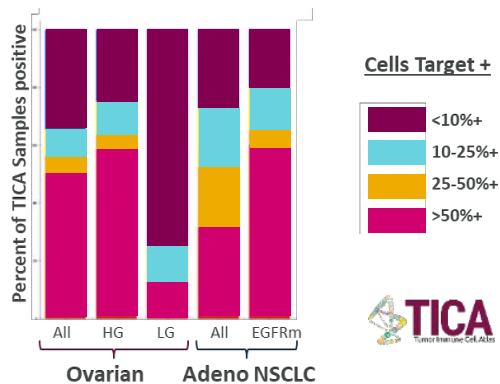


# AZD5335 (FR $\alpha$ )

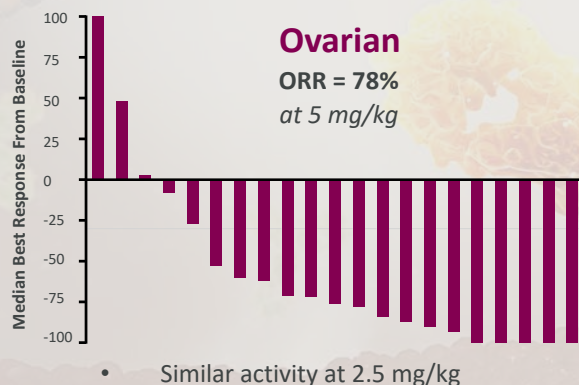
## AZD5335: FR $\alpha$ TOP1i



*FR $\alpha$  is a validated ADC target expressed in ovarian cancer and NSCLC*



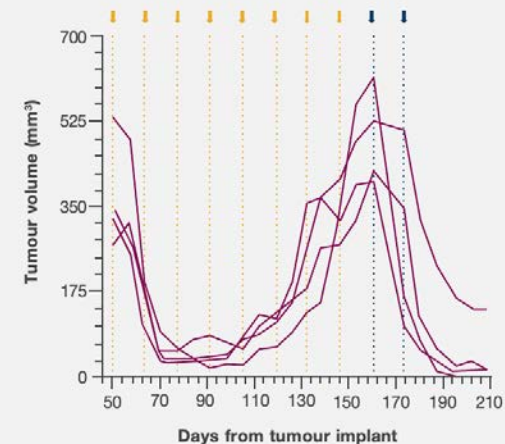
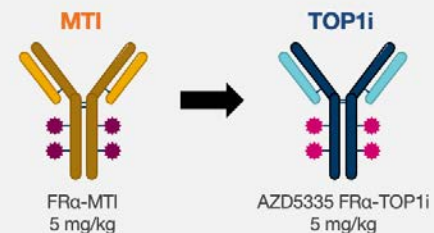
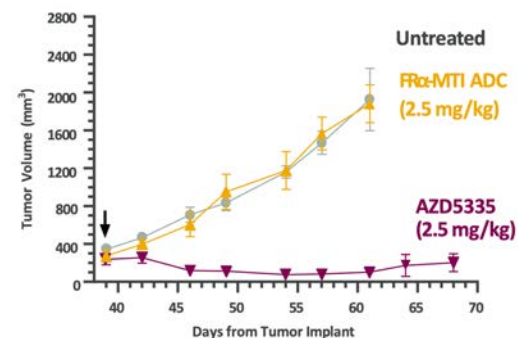
*Highly active in ovarian cancer PDXs*



**AZD5335 demonstrated superior activity over FR $\alpha$ -MTI ADC**

Elahere (FR $\alpha$ -MTI) approved in 3+ FR $\alpha$  ovarian cancer

**IHC: 2+ PDX model**



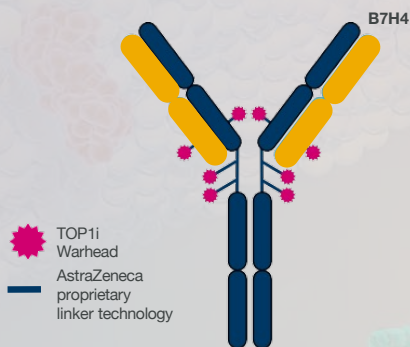
**AZD5335 is active in FR $\alpha$ -MTI-refractory CDX**

**AZD5335 has best-in-class potential for over-expressing solid tumours with clear differentiation from other FR $\alpha$  ADCs**

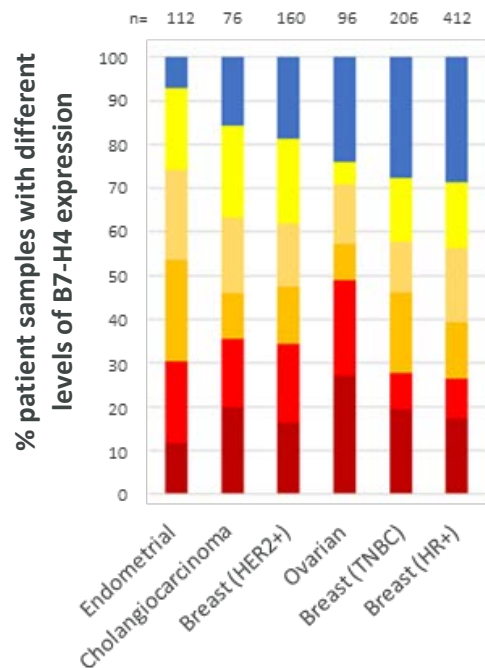


# AZD8205 (B7H4)

AZD8205: B7H4



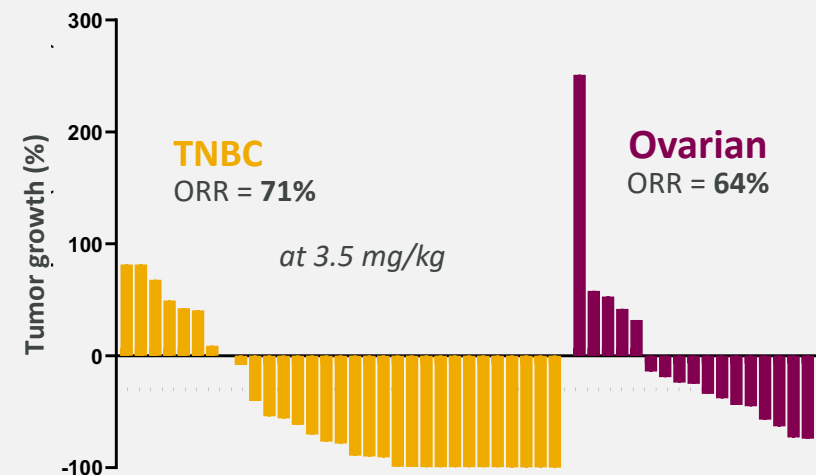
**B7H4 highly expressed in ovarian, breast, cholangiocarcinoma and endometrial**



B7-H4 expression was scored in patient samples as % tumour cells expressing B7-H4

Proportion Score	
Score	% Tumor
0	0
1	<5%
2	5-25%
3	25-50%
4	50-75%
5	75-100%

**Robust activity in patient derived xenograft models**



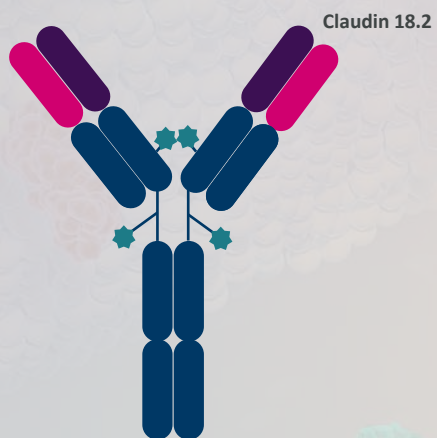
**Pre-clinical efficacy demonstrated in breast and ovarian**

**Phase I/II solid tumour dose-escalation and dose-expansion trial (breast, biliary tract, ovarian, endometrial cancers) ongoing**



# AZD0901 (Claudin 18.2)

AZD0901: Claudin 18.2

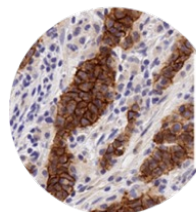


MMAE Warhead

ValCit linker

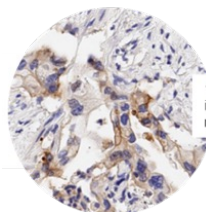
**Claudin 18.2 is expressed in gastric, pancreatic and oesophageal cancers**

Gastric cancer



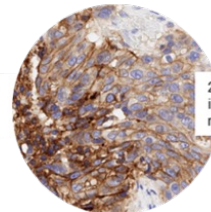
3+ intensity in tumor cell membrane, however normal epithelium is already 2+/3+

Pancreatic cancer



1-2+ intensity in tumor cell membrane

Oesophageal cancer



2+/3+ intensity in tumor cell membrane

- Expression appears to be independent of other biomarkers in gastric cancer
- Expression maintained across disease stages, including in metastatic lesions

**AZD0901 response in Claudin 18.2-positive gastric / GEJ cancer (N=8)**

**75%**

ORR (n=6/8)

**100%**

DCR (n=8/8)

**NR**

median PFS

**NR**

median OS

**AZD0901 is showing promising efficacy in 2L+ gastric cancer**





AstraZeneca



Next-wave 10 bispecifics

# LCM and next-wave bispecifics support continued IO leadership

>70%

of global growth driven by new launches:

**HIMALAYA** (unresectable HCC), **TOPAZ-1** (1L BTC), **POSEIDON** (1L NSCLC)

**Imfinzi** LCM support further expansion in key tumor areas



NSCLC

PACIFIC trials

AVANZAR

1L NSCLC

ADRIATIC

limited-stage SCLC

AEGEAN

Neo/adjuvant NSCLC



GI



GU

DUO-O

ovarian cancer

DUO-E

endometrial cancer

MATTERHORN

gastric/GEJ cancer

POTOMAC

Non-muscle invasive bladder cancer

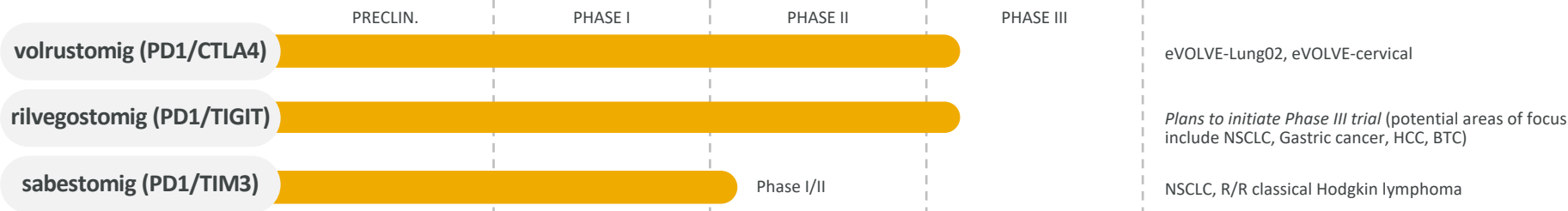
EMERALD-1

locoregional liver cancer

EMERALD-2

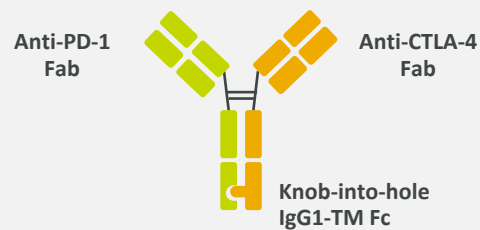
adjuvant liver cancer

Next-wave bispecifics drive IO growth beyond 2025



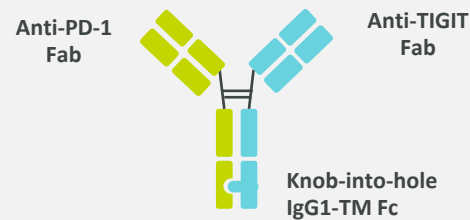
# Leading next-wave IO with novel bispecifics portfolio

## volrustomig (PD1/CTLA4)



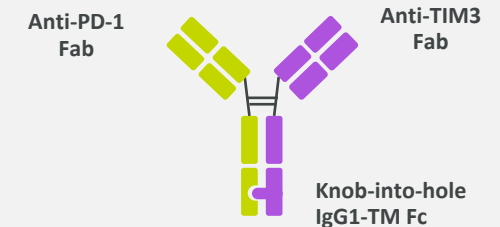
*Specifically designed to enhance CTLA-4 blockade on PD-1+ activated T-cells to widen therapeutic index*

## rilvegostomig (PD1/TIGIT)



*Designed to maximise effect of PD-1 and TIGIT blockade through cooperative binding*

## sabestomig (PD1/TIM3)



*Binds to unique TIM3 epitope and exerts differentiated T-cell and myeloid/dendritic cell engagement*



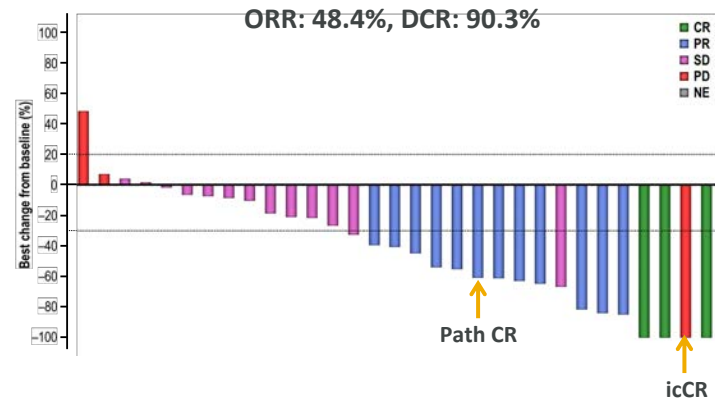
# ESMO2023: volrustomig (PD1/CTLA4) in 1L advanced ccRCC (N=65)

Volrustomig is a monovalent PD-1/CTLA-4 bispecific which achieves full PD-1 blockade and preferential CTLA-4 inhibition on activated PD-1+ T cells.

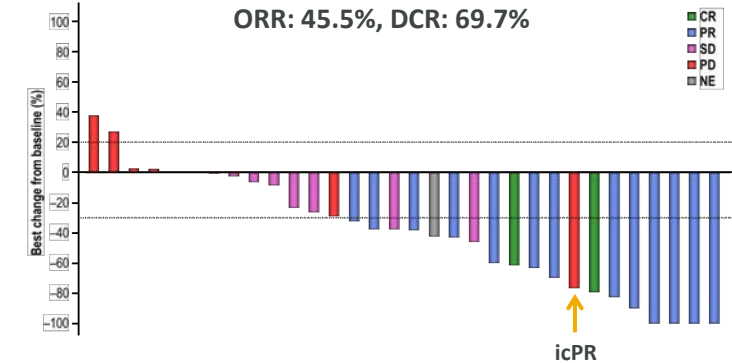
Volrustomig 750mg and 500mg Q3W demonstrated deep and durable response in treatment-naïve advanced ccRCC patients. Maturing data at 750mg show promising DOR and PFS with PFS-12 of 51.7%.

Both the 500mg and 750mg doses showed an improved safety profile compared to 1500mg. A Phase Ib combination trial of volrustomig and lenvatinib is ongoing in 1L RCC.

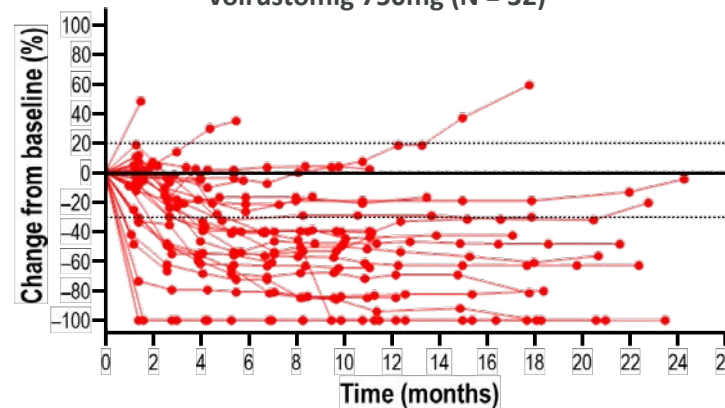
volrustomig 750mg (N = 32)



volrustomig 500mg (N = 33)

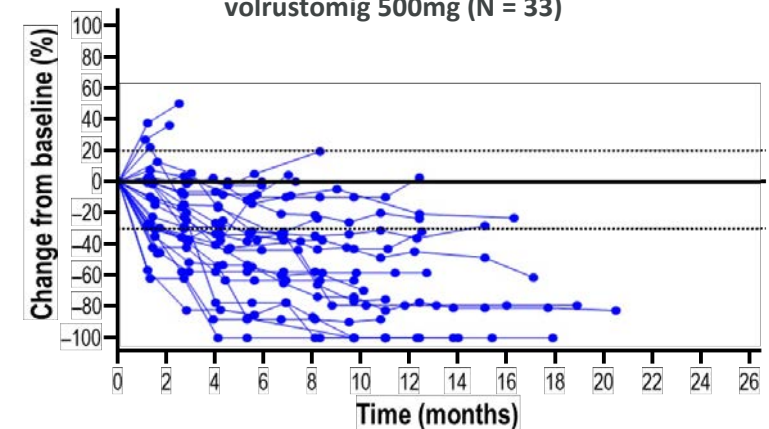


volrustomig 750mg (N = 32)



Median DoR, months (95% CI)	17.0 (9.8-NE)
Median PFS, months (95% CI)	12.3 (8.1-22.8)
PFS-12 (%)	51.7

volrustomig 500mg (N = 33)



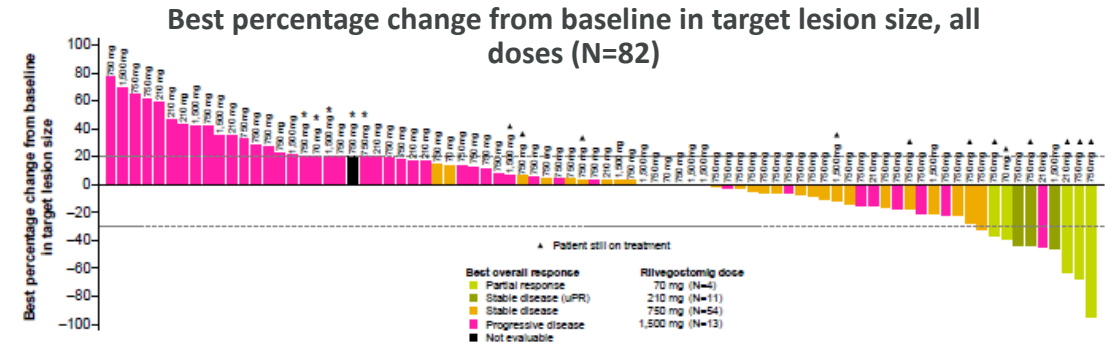
Median DoR, months (95% CI)	11.5 (5.8-NE)
Median PFS, months (95% CI)	9.7 (3.9-NE)
PFS-12 (%)	43.8



# ESMO2023: rilvegostomig in CPI-experienced mNSCLC (ARTEMIDE-01, updated data from Parts A and B)

Rilvegostomig is a bispecific targeting PD-1 and TIGIT, designed to maximise effect of PD-1 and TIGIT blockade through cooperative binding. ARTEMIDE-01 is an ongoing dose-escalation and dose-expansion trial to evaluate the safety and efficacy of rilvegostomig in patients with Stg. III or IV NSCLC.

Updated data from Parts A and B at ESMO 2023 show rilvegostomig was well tolerated across all doses with no DLTs observed during dose escalation. Antitumour activity was observed in heavily pre-treated patients with CPI-resistant mNSCLC. Expansion (Part C) and dose optimisation (Part D) in CPI-naïve patients with NSCLC are currently enrolling.

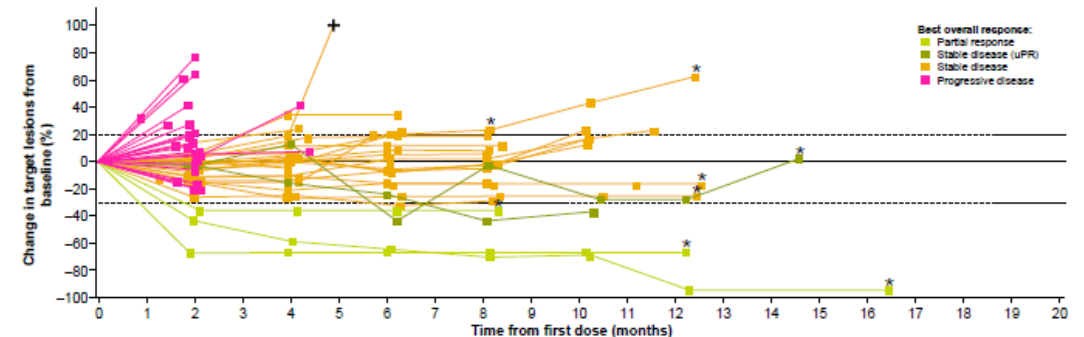


RECIST version 1.1.

\*Imputed data: If best percentage change cannot be calculated due to missing data (including if the patient has no TLs at baseline), a value of +20% is imputed in the following situations: if a patient has no post-baseline assessment and has died, if a patient has new lesions or progression of NTLs or TLs, or if a patient has withdrawn due to PD and has no evaluable TL data before or at PD.

NTL, non-target lesion; PD, progressive disease; RECIST, Response Evaluation Criteria in Solid Tumours; TL, target lesion; uPR, unconfirmed partial response

Percentage change from baseline in target lesion size over time at RP2D (750mg Q3W, Parts A and B; N=54)



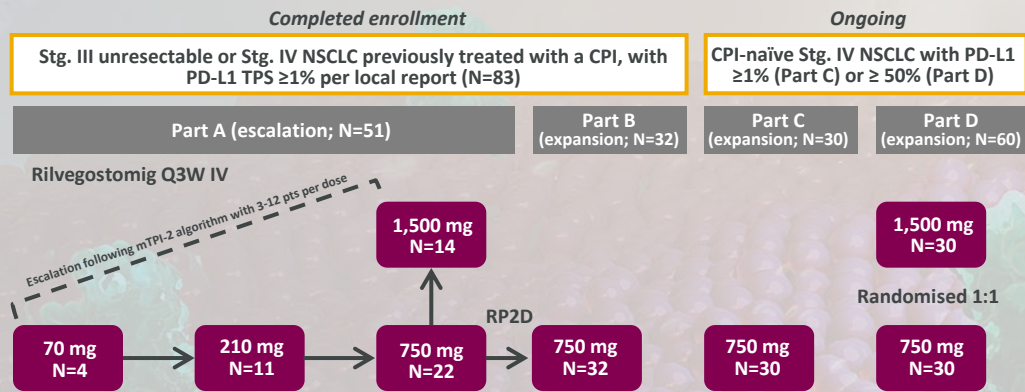
RECIST version 1.1.

+Percentage change from baseline in tumour lesion size exceeds +100%. Spider plot truncated for the patient at this point.

\*Represents patient still on treatment (n=8/54).

RP2D, recommended phase 2 dose; Q3W, every three weeks; uPR, unconfirmed partial response

ARTEMIDE-01 Trial Design

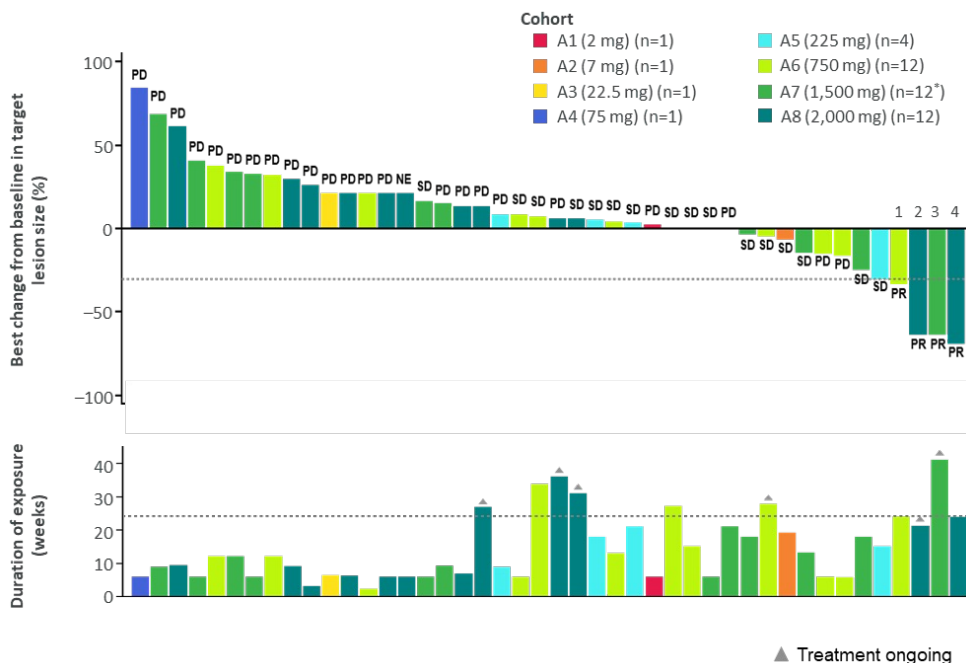


# ESMO2023: sabestomig in patients with Stg IIIB-IV NSCLC with prior PD-L1 therapy

Sabestomig is specifically designed to bind to PD-1 and a unique TIM-3 epitope and is believed to act through:

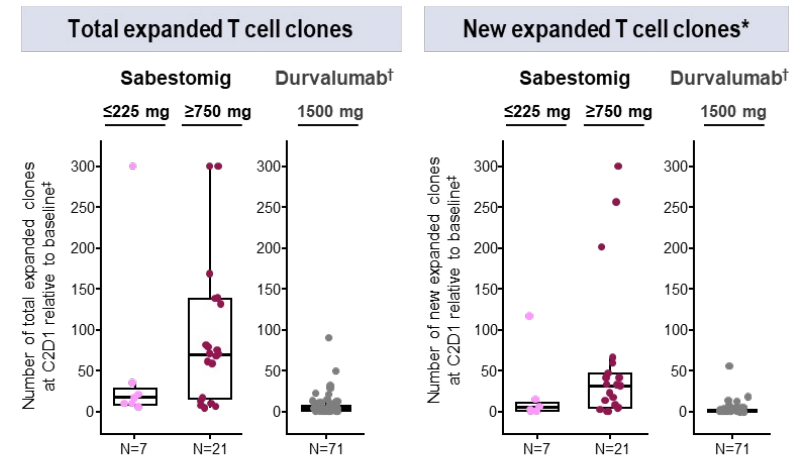
- I. Targeting PD-1 and TIM-3 to reinvigorate T-cell function and improve anti-tumour response
- II. Targeting TIM-3 to increase tumour cell phagocytosis and antigen presentation

In first-in-human data presented at ESMO 2023, sabestomig was well tolerated with no dose limiting toxicities and showed clinical activity in Stg. IIIB-IV 2L+ NSCLC patients with primary or acquired resistance to anti-PDL1.



Responses observed at biologically active doses ( $\geq 750\text{mg}$ , n=36) in patients with PD-L1 resistant NSCLC, including **four patients with cPR**

Sabestomig drives **expansion of existing and new T cell clones in periphery**, consistent with TIM-3 MoAs



T cell clonal expansion analysis using TCR sequencing. \*New expanded T cell clones = unique clones not detected at baseline. <sup>†</sup> Cohort was durvalumab + olaparib to represent anti-PD-L1 effect. \* Y axis ceiling applied.





AstraZeneca 

Lung Cancer strategy &

FLAURA2

# AstraZeneca in NSCLC

	resectable Stg. I-III	unresectable Stg. I-II	unresectable Stg. III	1L	metastatic 2L+
Est. epi (G7)	~200K	~30K	~70K	~350K	~290K
IO sensitive c.70%	Imfinzi AEGEAN	Imfinzi w/ SBRT PACIFIC-4	CRT → Imfinzi PACIFIC	Imfinzi + Imjudo + CTx POSEIDON	Imfinzi + ceralasertib LATIFY
	volrustomig + CTx NEOCOAST-2		CRT + Imfinzi PACIFIC-2	Dato-DXd + IO TROPION-Lung08/TROPION-Lung07/AVANZAR	Dato-DXd TROPION-Lung01
EGFRm c.16%	Tagrisso ADAURA	Imfinzi w/ SBRT PACIFIC-4	Imfinzi combos PACIFIC-8, -9 improvements across PD-L1 spectrum	Enhertu + IO + CTx DESTINY-Lung03	AZD9592 (EGFR/cMET ADC) EGRET
	Tagrisso neoADAURA		CRT → Tagrisso LAURA	volrustomig + CTx eVOLVE-Lung02	sabestomig (PD1/TIM3)
Other tumor drivers c.12%		Imfinzi w/ SBRT PACIFIC-4		rilvegostomig (PD1/TIGIT) ARTEMIDE-1	
			CRT → Imfinzi PACIFIC	Tagrisso FLAURA	savolitinib + Tagrisso SAFFRON/SAVANNAH
HER2m c.2%		Imfinzi w/ SBRT PACIFIC-4		Tagrisso + CTx FLAURA2	AZD9592 (EGFR/cMET ADC) EGRET
				Enhertu DESTINY-Lung04	Dato-DXd TROPION-Lung01 TROPION-Lung05
				Enhertu DESTINY-Lung02	

/// established SoC

- Establishing *Tagrisso* as backbone TKI in *EGFRm*
- *Imfinzi* leading IO in unresectable
- Advancing best-in-class ADCs to replace systemic chemotherapy
- Delivering next-wave bispecifics to improve on PD1/PD-L1
- Developing novel combinations, including IO + ADCs
- Investing behind new technologies and platforms, including cell therapy and testing/screening

**Ambition for >50% of all treated lung cancer patients to be eligible for an AstraZeneca medicine by the year 2030**

Est epi (G7) = estimated epidemiology across G7 (US, EU5, JP); Stg. = stage; CTx = chemotherapy; SBRT = stereotactic body radiation therapy; CRT = chemoradiotherapy; pembro = pembrolizumab; IO = immunotherapy; ADC = antibody-drug conjugate; PD1 = programmed cell death protein 1; EGFR = epidermal growth factor receptor; c-MET = mesenchymal-epithelial transition factor; TIGIT = T-cell immunoreceptor with immunoglobulin and ITIM domains; CTLA4 = cytotoxic T-lymphocyte associated protein 4; TIM3 = T-cell immunoglobulin and mucin domain-containing protein 3; SoC = standard of care; TKI = tyrosine kinase inhibitor.

Collaboration partners: Daiichi Sankyo (*Enhertu*, Dato-DXd), Compugen (rilvegostomig).



# WCLC23: FLAURA2 (Tagrisso + CTx) demonstrates statistically significant, clinically meaningful improvement

FLAURA2 offers unsurpassed efficacy with a novel regimen that builds on clinician experience with *Tagrisso* and chemotherapy.

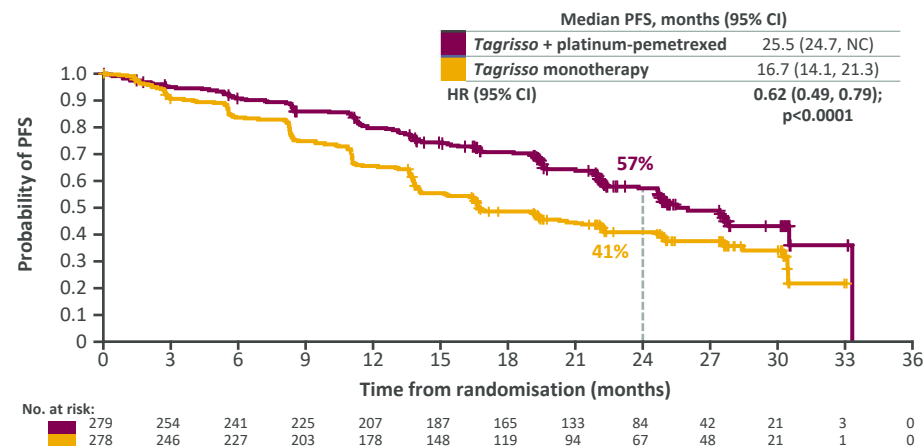
*Tagrisso* monotherapy is standard of care for 1L EGFRm NSCLC. However, despite the observed benefits, most patients will progress following treatment leaving an opportunity for additional 1L treatments.

Data from FLAURA2 demonstrated that *Tagrisso* combined with platinum-pemetrexed resulted in a statistically significant and clinically meaningful improvement in PFS over *Tagrisso* monotherapy in patients with 1L EGFRm advanced NSCLC.

In addition, the safety profiles were as expected for each treatment and were manageable with standard medical practice, with only 11% discontinuing *Tagrisso* in the combination arm.

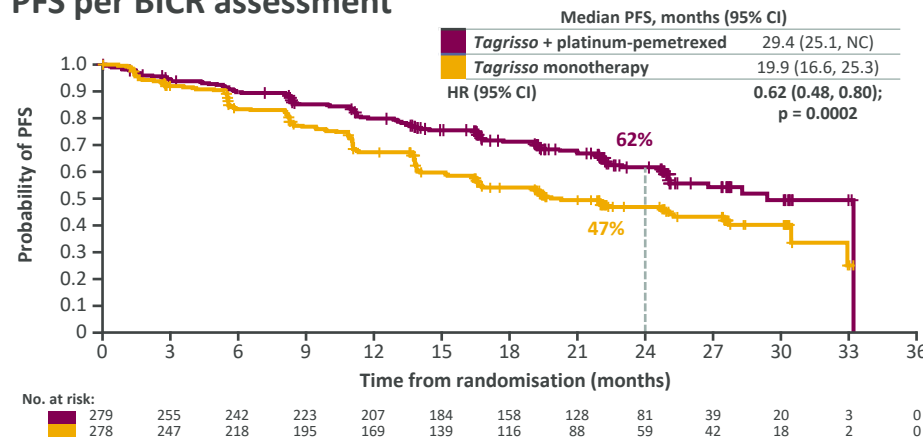
Follow-up continues for PFS2 and OS.

PFS per investigator assessment



mPFS improvement of **8.8 months** per investigator assessment with **HR 0.62**

PFS per BICR assessment

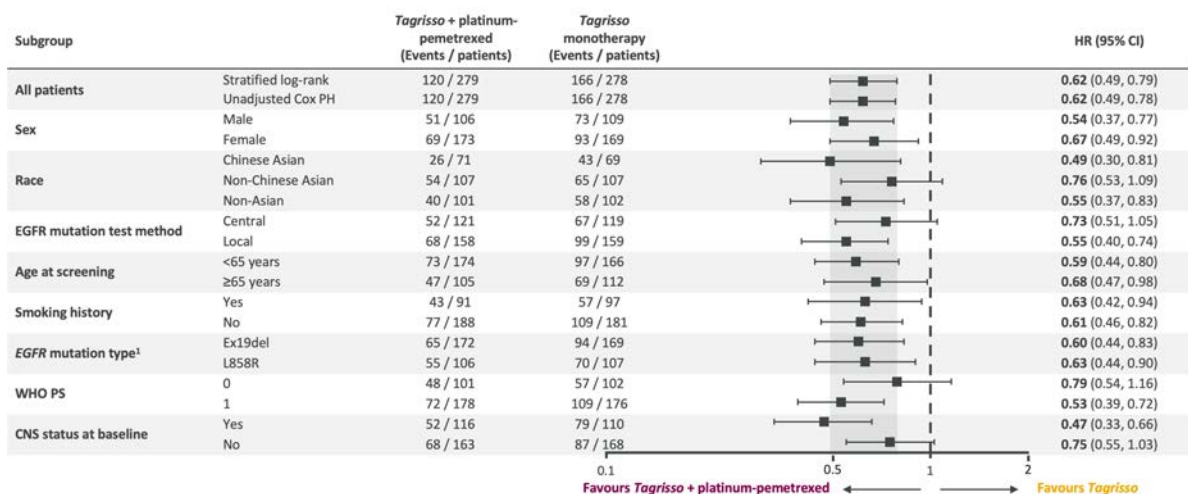


mPFS improvement of **9.5 months** per BICR assessment with **HR 0.62**



# WCLC23: FLAURA2 (Tagrisso + CTx) demonstrates statistically significant, clinically meaningful improvement

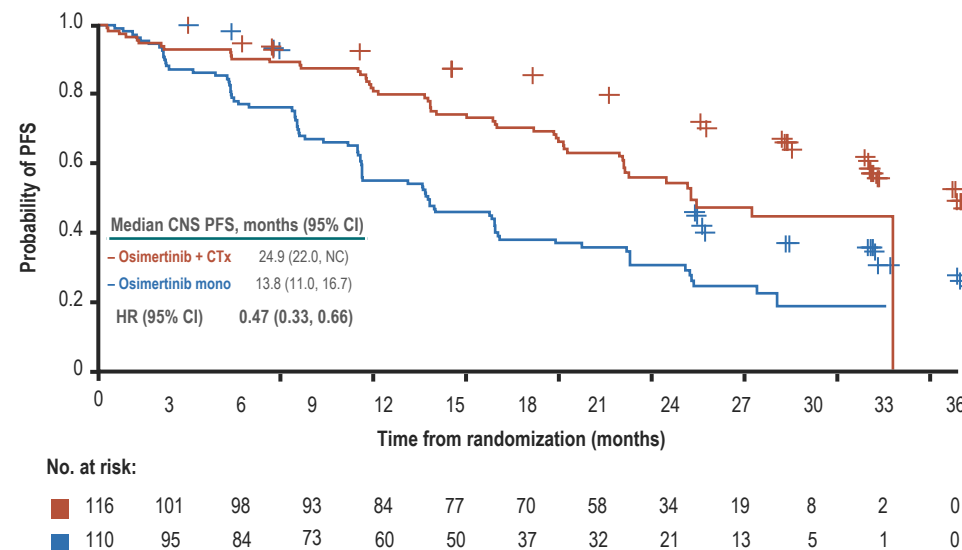
## PFS across pre-defined subgroups



## New at ESMO 2023: FLAURA2 in CNS metastases

CNS ORR 59% (cFAS, N=222) and 48% (cEFR, N=78)

### PFS per investigator in pts with CNS metastases\* at baseline



PFS benefits were consistent across all pre-defined patient subgroups, including in the **~40% of patients with CNS metastases** at baseline as assessed by MRI


Data cut-off: 03 April 2023. 1. For EGFR mutation type, patients with both Ex19del and L858R were included in Ex19del group.





AstraZeneca   
Breast cancer strategy

# AstraZeneca in Breast Cancer

 established SoC	Early			Metastatic			
	Neoadjuvant	Adjuvant		1st line	2nd line	3rd line	4th line +
Est. epi (G7)	540k			125k	90k	65k	55k
<b>HER2-positive</b> 15-20%	<i>Enhertu</i> ± THP <b>DESTINY-Breast11</b>	NST → residual disease → <i>Enhertu</i> <b>DESTINY-Breast05</b>		<i>Enhertu</i> ± pertuzumab <b>DESTINY-Breast09</b>	<i>Enhertu</i> <b>DESTINY-Breast03</b>	<i>Enhertu</i> <b>DESTINY-Breast02</b>	
<b>HR-positive</b> 65-75% --- <i>HER2-low</i> 1+, 2+ 60%		Low risk Good outcomes with current SoC  CTx → camizestrant (± CDK4/6i) <b>CAMBRIA-2</b>  CTx → AI (± CDK4/6i) 2-5 yrs → camizestrant <b>CAMBRIA-1</b>	<b>RECRURENCE</b>	camizestrant + CDK4/6i <b>SERENA-4</b>  <i>ESR1m</i> AI + CDK4/6i → camizestrant + CDK4/6i <b>SERENA-6</b>	<i>capi</i> vasertib + <i>Faslodex</i> <b>CAPitello291</b>	Dato-DXd <b>TROPION-Breast01</b>	
<b>TNBC</b> 10-15% --- <i>HER2-low</i> 1+, 2+ 35%		NST → residual disease → Dato-DXd ± <i>Imfinzi</i> <b>TROPION-Breast03</b>			<i>capi</i> vasertib + paclitaxel <b>CAPitello290</b>	<i>HER2-low</i>	<i>Enhertu</i> <b>DESTINY-Breast04</b> <i>HER2-low</i> IHC 1+, 2+
<b>gBRCAm</b> 5% of HR-positive 15% of TNBC		CTx → <i>Lynparza</i> <b>OlympiA</b>		PD-L1- 60% Dato-DXd <b>TROPION-Breast02</b>		<i>Lynparza</i> <b>OlympiAD</b>	

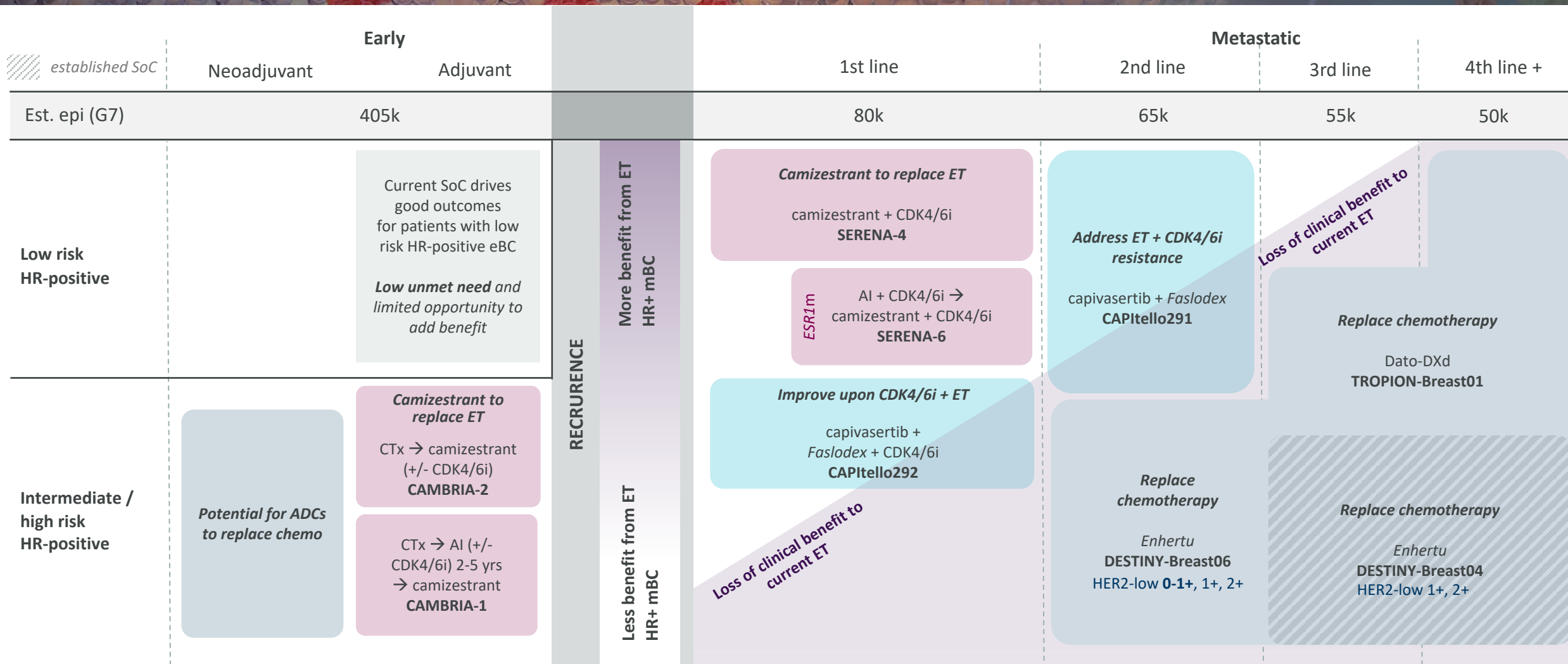
All numbers are approximate. Illustrative settings and populations, not to scale.

1/2/3/4L = 1st/2nd/3rd/ 4th-line; est epi (G7)= estimated epidemiology across G7 (US, EU5, JP for drug treated patients). HER2 = human epidermal growth factor receptor 2; THP = docetaxel, trastuzumab, and pertuzumab; NST = neoadjuvant systemic treatment; HR = hormone receptor; SoC = standard of care; CTx = chemotherapy; AI = aromatase inhibitor; CDK4/6i = cyclin-dependent kinase 4 and 6 inhibitor; yrs = years; ESR1m = estrogen receptor 1 gene mutation; Dato-DXd = datopotamab deruxtecan; TNBC = triple negative breast cancer; PD-L1 = programmed cell death ligand 1; gBRCAm = germline BRCA-mutated.

Collaboration partners: Daiichi Sankyo (*Enhertu*, Dato-DXd), Merck & Co., Inc. (*Lynparza*).



# AstraZeneca in HR-positive Breast Cancer



All numbers are approximate. Illustrative settings and populations, not to scale.

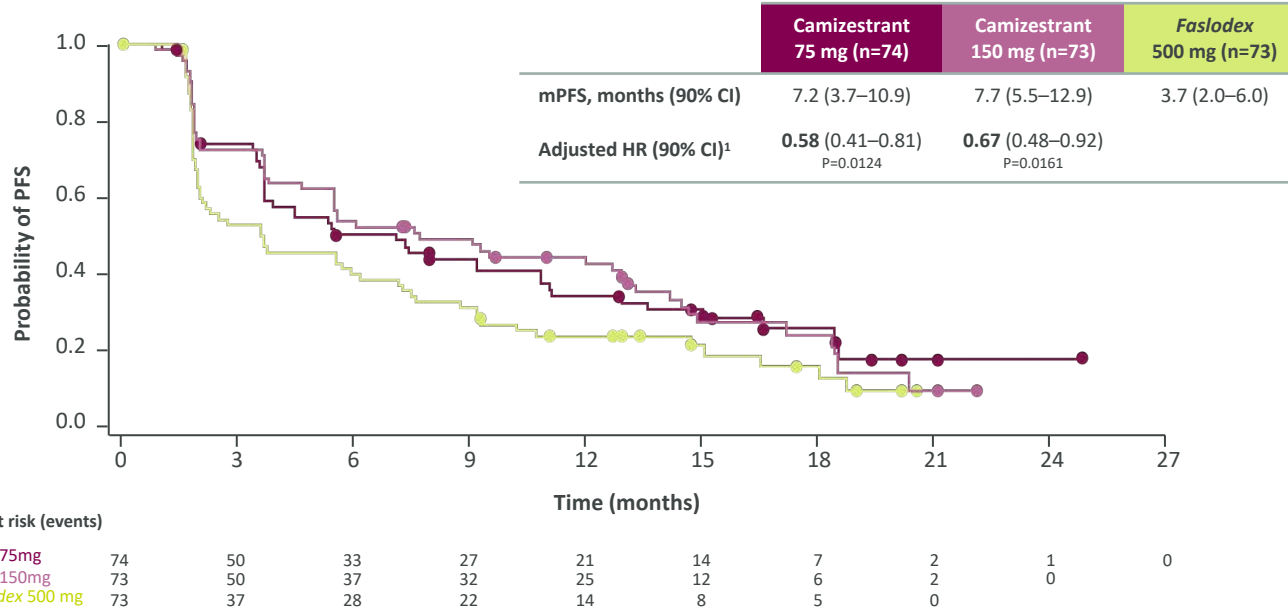
HR = hormone receptor; est epi (G7) = estimated epidemiology across G7 (US, EU5, JP for drug treated patients); SoC = standard of care; ADC = antibody drug conjugate; ET = endocrine therapy; CTx = chemotherapy; AI = aromatase inhibitor; CDK4/6i = cyclin-dependent kinase 4 and 6 inhibitor; yrs = years; ESR1m = estrogen receptor 1 gene mutation; ER = estrogen receptor; Dato-DXd = datopotamab deruxtecan.

Collaboration partners: Daiichi Sankyo (Enhertu, Dato-DXd).



# Camizestrant: Next-generation oral SERD set to reimagine treatment in both early and advanced HR+ breast cancer

## SERENA-2: Phase II trial in advanced ER+ HER2- breast cancer<sup>1</sup>



TRAE, n (%)	Camizestrant 75 mg (n=74)	Faslodex 500 mg (n=73)
Any AE	57 (77)	50 (68.5)
Grade ≥3 AE	1 (1.4)	1 (1.4)
AE leading to discontinuation of treatment	2 (2.7)	0

## Ongoing Phase III trials (>2024)

### Adjuvant treatment for early breast cancer

#### CAMBRIA-1

Pts at high risk of recurrence

Locoregional tx ± CTx

ET ± CDK4/6i

2-5 years

Cami

#### CAMBRIA-2

Pts at high or intermediate risk of recurrence

Locoregional tx ± CTx

Cami ± CDK4/6i

### 1st line treatment for advanced breast cancer

#### SERENA-6

Pts with detected *ESR1m* before progression

AI + CDK4/6i

*ESR1m* detected

Cami + CDK4/6i

#### SERENA-4

Pts with no prior treatment for aBC

Cami + CDK4/6i

1. Oliveira M et al. Presented at San Antonio Breast Cancer Symposium, December 6–10, 2022; 2. HR adjusted for prior use of CDK4/6i and liver/lung metastases.

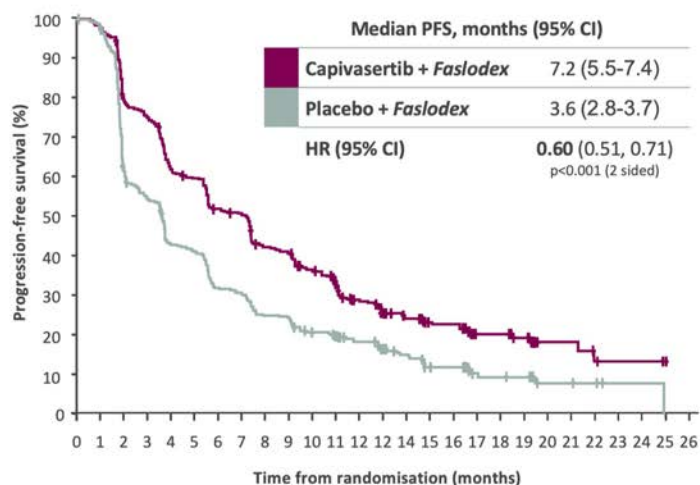
SERD = selective estrogen receptor degrader; HR+ = hormone receptor positive; ER = oestrogen receptor; HER2- = human epidermal growth factor receptor 2 negative; (m)PFS = (median) progression-free survival; no. = number; cami = camizestrant; HR = hazard ratio; CI = confidence interval; (TR)AE = (treatment related) adverse event; pts = patients; tx = treatment; CTx = chemotherapy; ET = endocrine therapy; CDK4/6i = cyclin-dependent kinases 4 and 6 inhibitor; *ESR1m* = oestrogen receptor alpha mutated; aBC = advanced breast cancer.



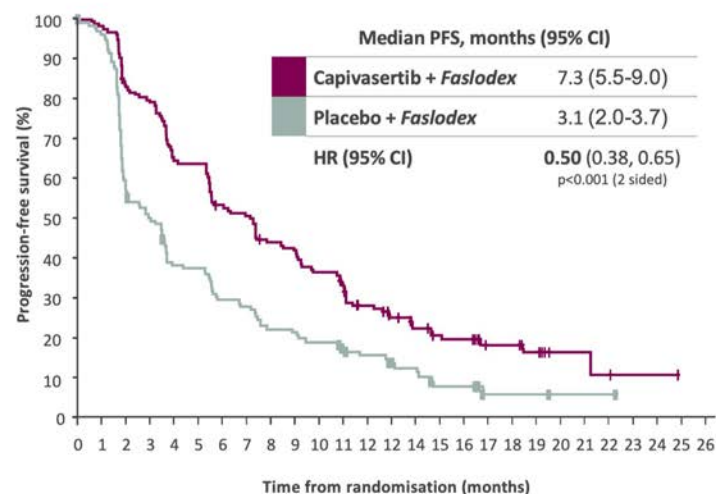
# CAPItello-291: First Phase III for potential first-in-class AKT inhibitor capivasertib<sup>1</sup>

Statistically significant and clinically meaningful improvements in PFS with capivasertib + *Faslodex* in both overall and AKT pathway-altered populations

Overall population (n=708)



AKT pathway-altered population (n=289)



Capivasertib + *Faslodex* (n=355) | Placebo + *Faslodex* (n=350)

AE, n (%)	Capivasertib + <i>Faslodex</i> (n=355)		Placebo + <i>Faslodex</i> (n=350)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Any AE	343 (96.6)	148 (41.7)	288 (82.3)	54 (15.4)
Diarrhoea <sup>2</sup>	257 (72.4)	33 (9.3)	71 (20.3)	1 (0.3)
Rash <sup>2</sup>	135 (38.0)	43 (12.1)	25 (7.1)	1 (0.3)
Nausea	123 (34.6)	3 (0.8)	54 (15.4)	2 (0.6)
Fatigue	74 (20.8)	2 (0.6)	45 (12.9)	2 (0.6)
Vomiting	73 (20.6)	6 (1.7)	17 (4.9)	2 (0.6)
Headache	60 (16.9)	1 (0.3)	43 (12.3)	2 (0.6)
Hyperglycaemia <sup>2</sup>	60 (16.9)	8 (2.3)	14 (4.0)	1 (0.3)
Decreased appetite	59 (16.6)	1 (0.1)	22 (6.3)	2 (0.6)
Serious AE	57 (16.1)		28 (8.0)	
AE leading to death <sup>3</sup>	4 (1.1)		1 (0.3)	
AE leading to discontinuation	46 (13.0)		8 (2.3)	

Overall safety profile of capivasertib + *Faslodex* consistent with that observed in previous trials evaluating this combination

Granted Priority Review in the US for patients with advanced HR-positive breast cancer

1. Turner NC et al. N Engl J Med. 2023;388(22):2058–2070; 2. Group terms (preferred terms): diarrhoea (diarrhea, frequent bowel movements, gastrointestinal hypermotility); rash (rash, rash macular, rash maculo-papular, rash papular, rash pruritic) and hyperglycaemia (blood glucose increased, hyperglycaemia); 3. Grade 5 events included acute myocardial infarction, cerebral hemorrhage, pneumonia aspiration and sepsis (all n=1) in the capivasertib + *Faslodex* group and COVID-19 (n=1) in the placebo + *Faslodex* group. No grade 5 events were classified as related to capivasertib/placebo by local investigator. The safety analysis population included all patients who received at least one dose of the study drug. AKT = protein kinase B; PFS = progression-free survival; CI = confidence interval; HR = hazard ratio; no. = number; AE = adverse event; HR = hormone receptor.

