

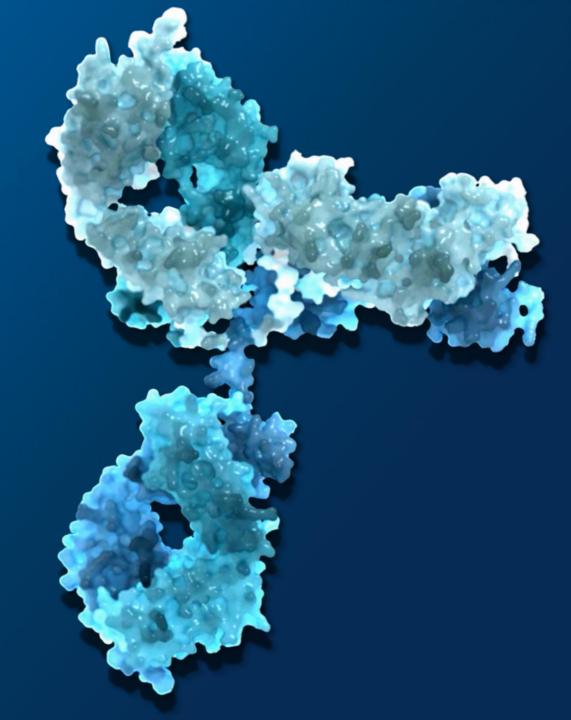
Clinical Update & Learnings for Luvelta Targeting Folate Receptor Alpha

Hans-Peter Gerber, Ph.D,

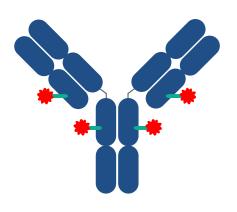
CSO

ADC World, San Diego 2024

November 5, 2024



Luveltamab Tazevibulin is a Best-in-Class FRα-Tubulin-ADC 1st to Benefit Patients with Low/Medium and High FRα Expression



Luvelta FRα Targeted ADC



DAR 4 hemiasterlin

- High potency tubulin inhibitor
- High ICD & bystander effect
- Low P-gp substrate



Linker

Utilizes proprietary, high value conjugation site to improve valine-citrulin (VC) linker stability outside the tumor



FC Domain

FcγR-deficient ADCs mitigates off-target toxicity

Source: Li & Hallam, Mol Cancer Ther 2023;22:155-67

Studied-to-date in

180+ patients
across three
indications
(ovarian cancer,
endometrial cancer,
and RAM AML)

Combinability with bevacizumab and checkpoint inhibitors

On track to be

first-to-market for
PROC patients with
low-medium FolRa

expression

Pivotal Phase 2/3
REFRαME-O1
trial currently enrolling



8 out of 10 Women with Platinum-Resistant Ovarian Cancer May be Able to Enroll in REFRαME-O1

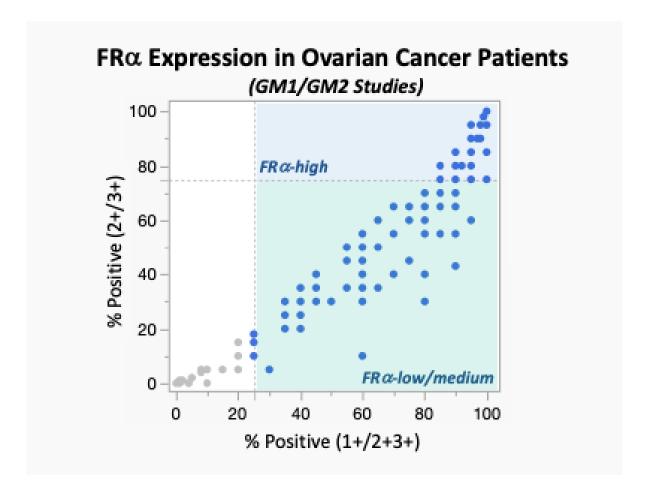
Treatment Eligibility is Driven by FolRα Biomarker Test

Luvelta has demonstrated clinical activity in PROC patients with FolRα ≥25%

Both Luvelta and FDA-approved ADC test patient $FolR\alpha$ levels via Ventana validated assay

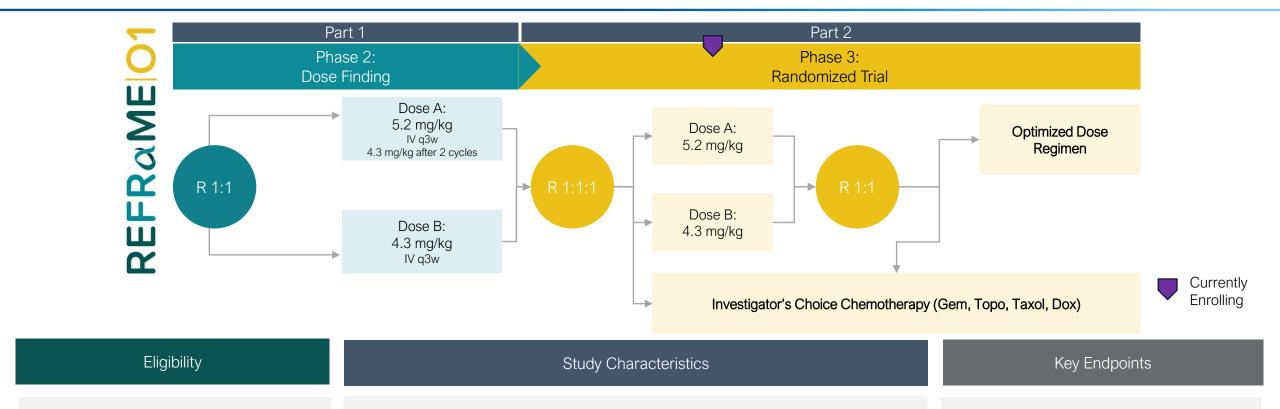
Due to high frequency of testing of $FolR\alpha$ in OC, patient expression level may be known prior to developing platinum resistance

Luvelta addresses patients with low, medium, and high FolR α expression (\geq 25% TPS with any staining intensity), which represents ~80% of PROC patients; approved ADC is limited to high FolR α (\geq 75% TPS with PS 2+, 3+ staining)



Sources: 1. ImmunoGen Third Quarter 2023 Financial Results, Nov 2023. 2. Jun 2023 ASCO oral presentation "Luveltamab tazevibulin (STRO-002), an anti-folate receptor alpha (FolRα) antibody drug conjugate (ADC), safety and efficacy in a broad distribution of FolRα expression in patients with recurrent epithelial ovarian cancer (OC): Update of STRO-002-GM1 phase 1 dose expansion cohort.".

The REFRαME-O1 Trial



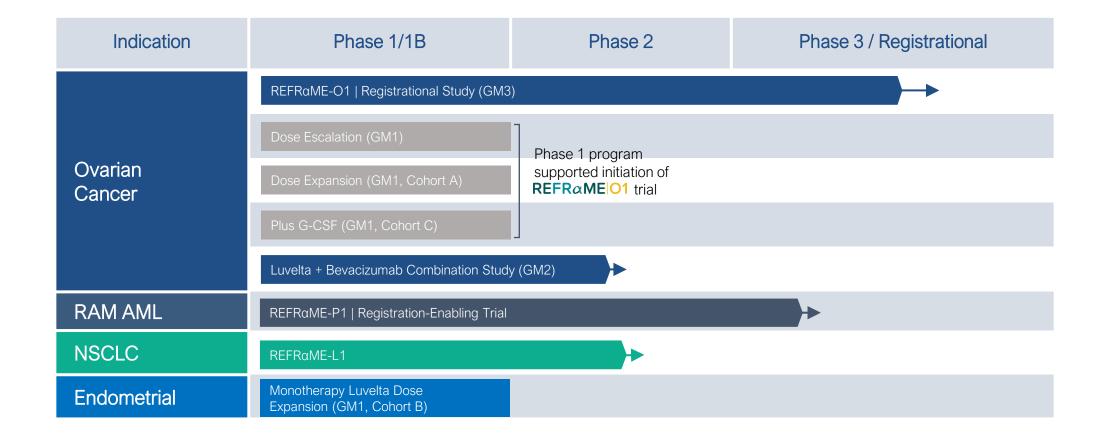
- Platinum Resistant Ovarian Cancer
- 1-3 prior lines
- ECOG PS 0-1
- Exclude primary platinum refractory
- FRα expression ≥25% by TPS
- Prior Bev unless contraindicated or not available/indicated per regional SOC

- The REFRαME-O1 trial is a global registration-enabling study
- Part 2 of the study is well under way
- Finalization of dose selection will be in the near term

- Primary analysis for full approval: PFS, OS
- Interim analysis planned to support accelerated approval: ORR, DOR
- · Safety, QoL, PK



The Luvelta Opportunity: A Pipeline-in-a-Drug with Applications in Multiple Indications, Earlier Treatment in Ovarian Cancer, and Combination Therapy

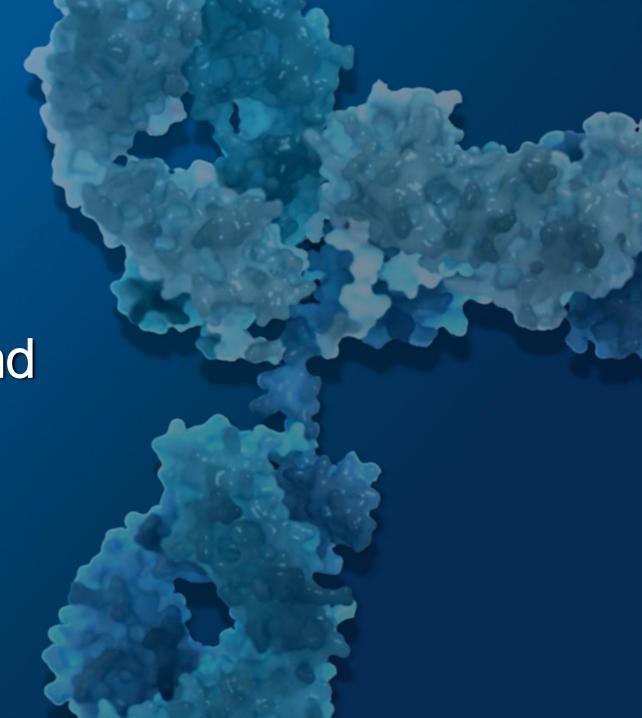


Indicates trial enrolling or planned to begin enrolling



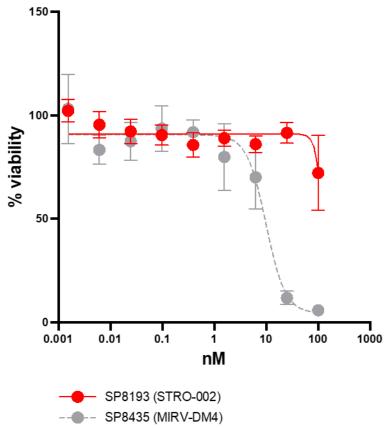


Key Advantages Luvelta: Improved Safety Profile and ADC Sequencing

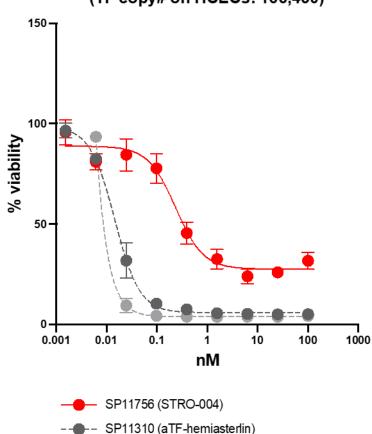


Reduced Pinocytotic Uptake into Corneal Cells *in vitro* Translates to Reduced Eye Tox





aTF ADCs (TF copy# on HCECs: 166,430)



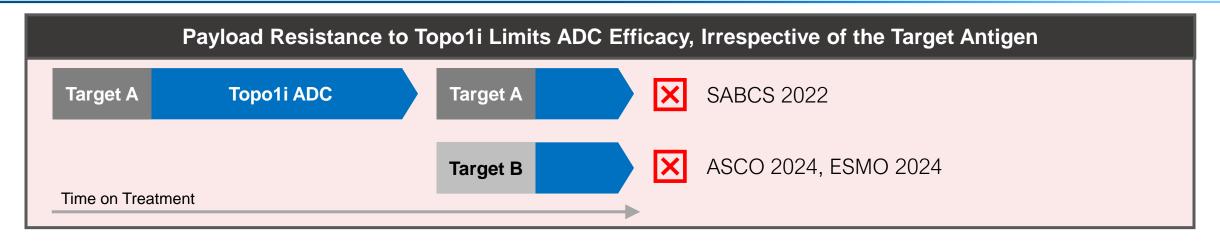
TF: No Evidence of Eye Toxicity in NHP

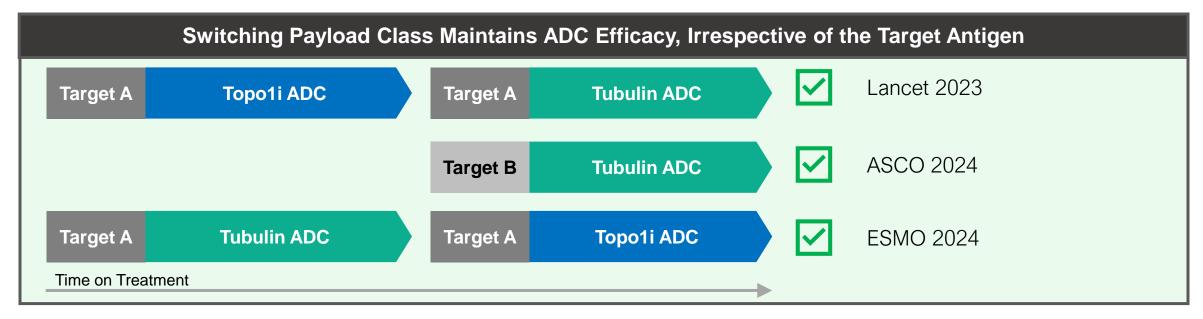
- TF-DAR8-Topo1 ADC (STRO-004)
- 50 mg/kg, Q3wksx2

Alice Yam: Tue, 2pm, Translational

Tivdak (Tisotumab-MMAE)

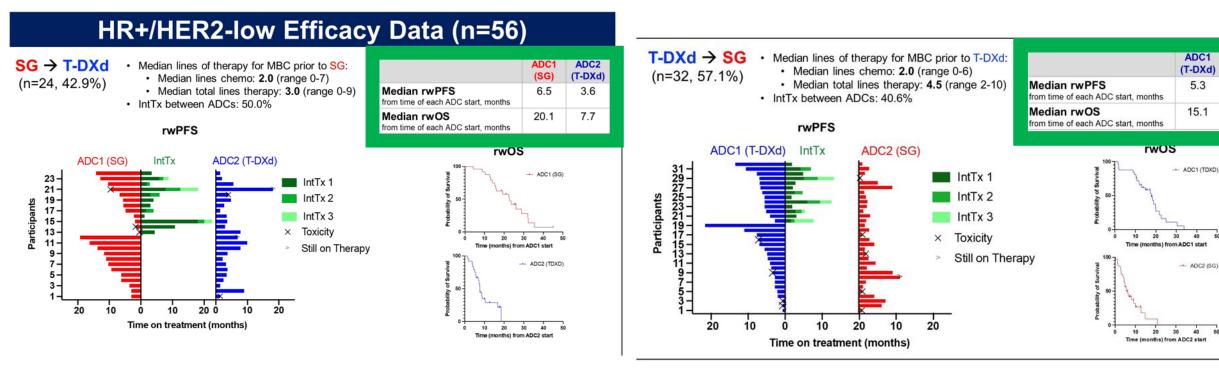
Emerging Clinical Trends: Sequential Treatment with ADCs Highlight Tubulin Inhibitor's Advantage in a Crowded Topo-1 Landscape







Emerging Clinical Trends (ASCO 2024):Payload Resistance Limits ADC Efficacy (1 of 4)



Huppert, L. ASCO 2024

ADC2

(SG)

2.1

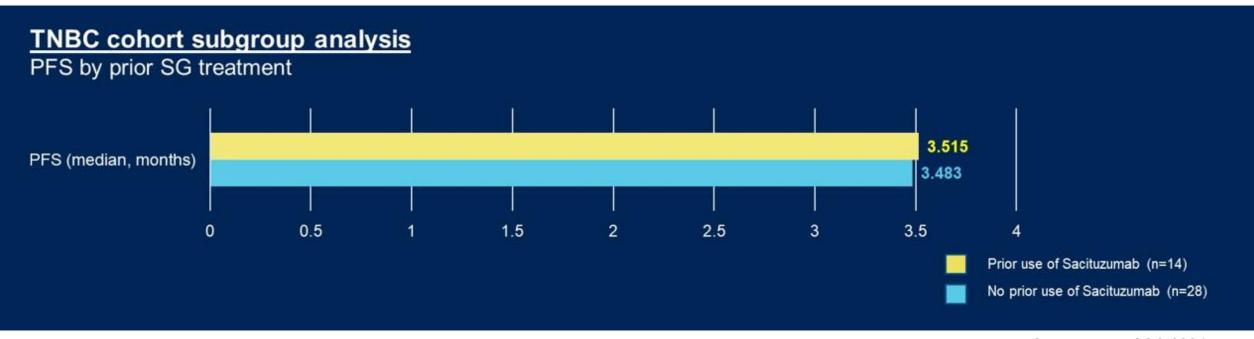
5.6

While there are patients that see significant benefit to a second Topo1-payload ADC, there is significantly shorter PFS regardless of ADC sequence (SG, Enhertu in mBC)



ASCO 2024 – Non-Overlapping Resistance Profiles: Topo1 and anti-Tubulin ADCs in Sequence

EV-202

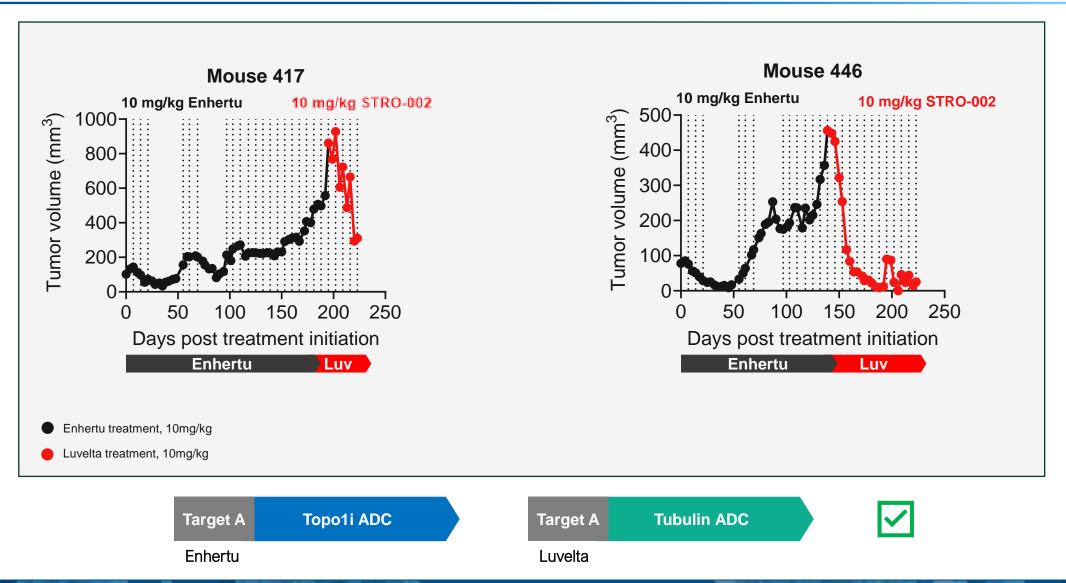


Giordano, A. ASCO 2024

Sequencing with Padcev (Nectin-4 MMAE) led to similar PFS regardless of previous SG (Trop2 SN38) treatment

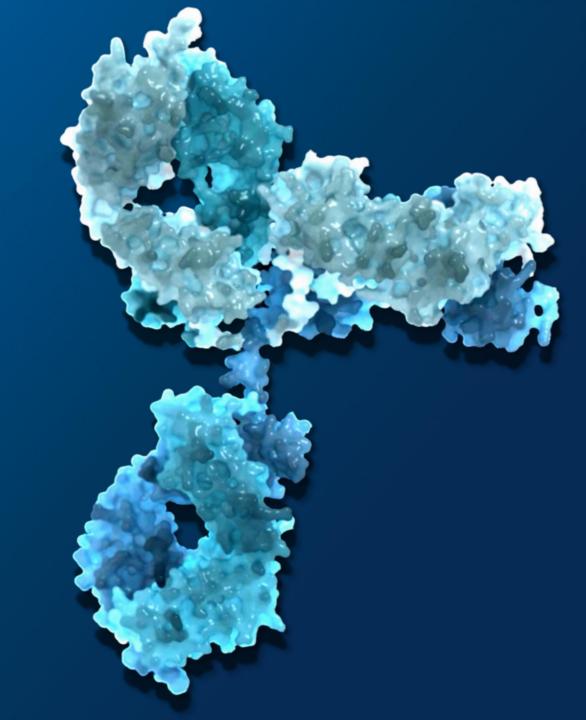


Enhertu/Topo1i ADC Resistant Cell Lines Are Responsive to Luvelta Treatment, Supporting Sequential Treatment with Tubulin-based ADCs



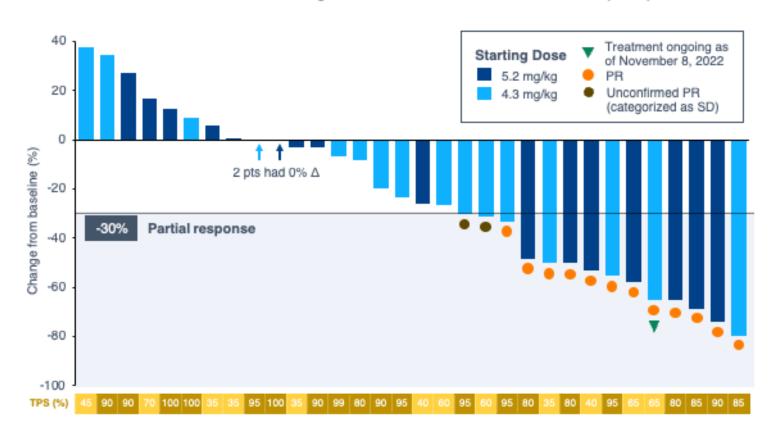


Luvelta Clinical Data Review



Luvelta Demonstrated Compelling Activity in Phase 1 Dose Expansion Study, with Anti-Tumor Activity Across 2 Doses

BOR: Maximum Reduction in Tumor Target Lesions in FolRα-Selected Patients (N=32)(1)



BOR in FRa-Selected Patients

| | Both Doses N=32 | 5.2 mg/kg N=16 | 4.3,g/kg N=16 |
|-----------|--------------------|-------------------|------------------|
| PR | 12 | 7 | 5 |
| ORR % | 37.5 | 43.8 | 31.3 |
| SD, n (%) | 14 (43.8) | 6 (37.5) | 8 (50.0) |
| DCR (2) % | 81.3% | 81.3% | 81.3% |
| PD, n (%) | 6 (18.8) | 3 (18.8) | 3 (18.8) |

Note: Data are as of November 8, 2022.

BOR, best overall response; SD, stable disease; DCR, disease control rate; PD, progressive disease.

Data set: Phase 1 Dose expansion, N=32

^{1.} Data on FolRo-selected patients who are evaluable for RECIST v1.1.

^{2.} Disease control includes SD ≥ 6 weeks.

Luvelta Monotherapy Safety Profile has been Manageable with Low Discontinuation Rate due to Neutropenia

| TEAEs (N=99) | | | |
|---------------------------------------|-----------------------------|--------------|--|
| Preferred Term | All Grade Incidence ≥35% | Grade 3+ | |
| Patients reporting at least one event | 99 (100.0%) | 86 (86.9%) | |
| Neutropenia* | 69 (69.7%) | 64 (64.6%) ‡ | |
| Nausea | 69 (69.7%) | 1 (1.0%) | |
| Fatigue | 63 (63.6%) | 12 (12.1%) ‡ | |
| Arthralgia | 57 (57.6%) | 16 (16.2%) ‡ | |
| Constipation | 53 (53.5%) | 2 (2.0%) | |
| Decreased appetite | 45 (45.5%) | 0 | |
| Abdominal pain | 44 (44.4%) | 6 (6.1%) | |
| Neuropathy** | 44 (44.4%) | 7 (7.1%) | |
| Anaemia | 39 (39.4%) | 11 (11.1%)‡ | |
| Aspartate aminotransferase increased | 38 (38.4%) | 2 (2.0%) | |
| Vomiting | 35 (35.4%) | 3 (3.0%) | |
| SAEc (NL-00) | | | |

| SAES (N=99) | | | |
|---------------------------------------|------------------------------------|------------|--|
| Preferred Term | All Grade Incidence ≥3 Subjects | Grade 3+ | |
| Patients reporting at least one event | 99 (100.0%) | 86 (86.9%) | |
| Abdominal pain | 4 (4.0%) | 3 (3.0%) | |
| Dehydration | 4 (4.0%) | 4 (4.0%) | |
| Febrile neutropenia | 4 (4.0%) | 4 (4.0%) | |
| Small intestinal obstruction | 4 (4.0%) | 4 (4.0%) | |
| Acute kidney injury | 3 (3.0%) | 2 (2.0%) | |
| Anaemia | 3 (3.0%) | 3 (3.0%) | |
| Constipation | 3 (3.0%) | 2 (2.0%) | |
| Pneumonia | 3 (3.0%) | 2 (2.0%) | |

- * Neutropenia included the following preferred terms: neutropenia, febrile neutropenia, and neutrophil count decreased.
- ** Neuropathy included the following preferred terms: neuropathy peripheral and peripheral sensory neuropathy.
- # Most common Grade 3+ TEAEs

Data as of Nov 8, 2023

Source: Internal Sutro data on file

Neutropenia

- Primarily uncomplicated (febrile neutropenia < 5%)
- Well managed with G-CSF usage
- Led to discontinuation in 1.5% of patients

Arthralgia

- Managed conservatively
- Led to discontinuation in 1.5% of patients

Peripheral Neuropathy

- Expected event with microtubule inhibitor ADCs (pre-existing and on study)
- Actively managed with protocol-specified conservative management
- Led to discontinuation in 2.9% of patients

1 subject experienced grade 5 event: Probably luvelta related

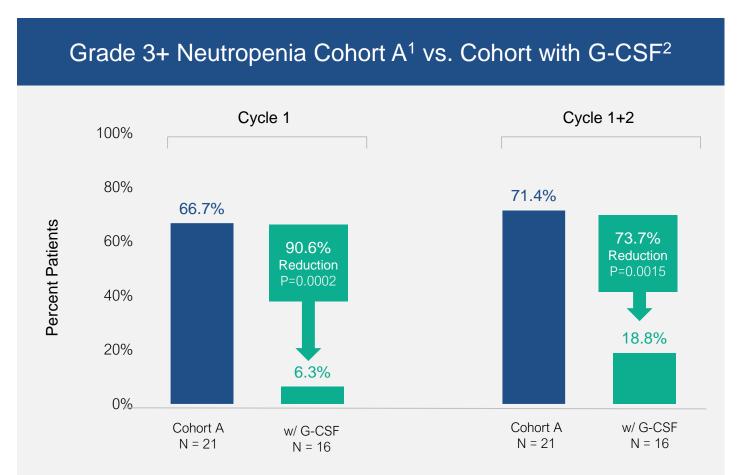
• 1 death was reported as resulting from febrile neutropenia with concurrent SAEs of septic shock, pancytopenia, and acute respiratory failure; all assessed as related to luvelta

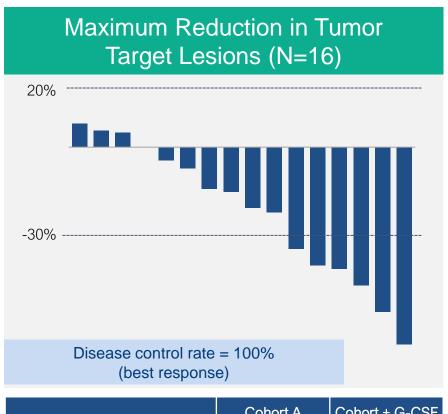
5 subjects experienced grade 5 events: Unrelated to luvelta

- 3 deaths were attributed to disease progression
- 1 death was reported as Death NOS; assessed as unrelated to luvelta
- 1 death was reported as resulting from a pulmonary infection; assessed as unrelated to luvelta



Use of Prophylactic G-CSF on Day 8 with 5.2mg/kg Dose Demonstrated Effective Reduction of Neutropenia





| Preferred Term: G3+ TEAE | Cohort A 5.2 mg/kg (N=21) | Cohort + G-CSF 5.2 mg/kg (N=16) |
|--------------------------|---------------------------------|---------------------------------------|
| Neutropenia | 76.2% | 37.5% |

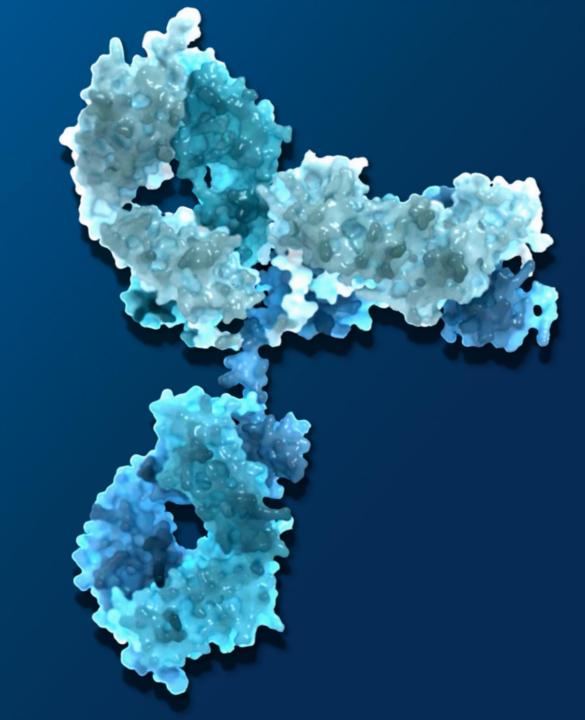


^{1 -} Cohort A patients dosed with Luvelta 5.2mg/kg.

^{2 -} Cohort with G-CSF patients started at Luvelta 5.2mg/kg + prophylactic pegfilgrastim on Day 8 Data as of Nov 08, 2023 **Sources**: Sutro Corporate Presentation Nov 2023. Internal Sutro data on file.

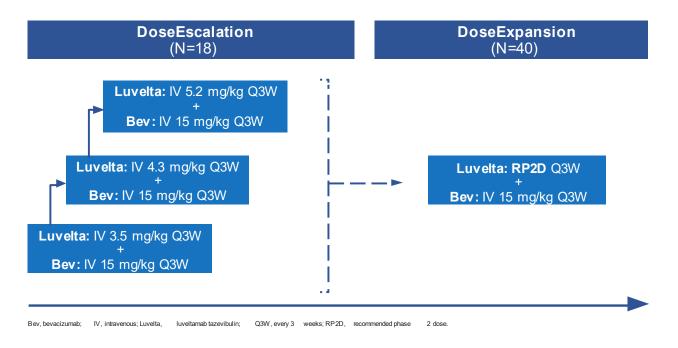


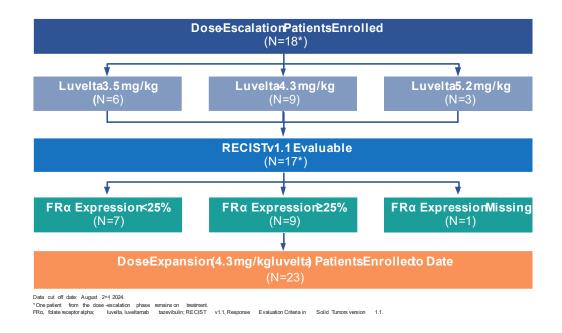
Luvelta + Bevacizumab Combination Data



Luvelta in Combination with Bevacizumab May Provide a New Treatment Option for Ovarian Cancer Patients Independent of FRa Expression Status or Prior Bevacizumab Usage

Phase 1b Dose Escalation Study Schema





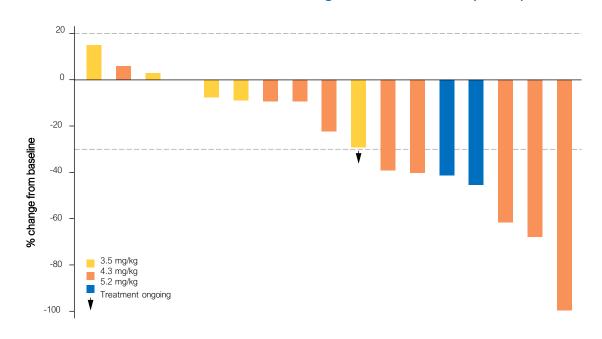
Eligibility Criteria: PSOC (with 2-4 prior regimens), PROC (with 1-4 prior regimens) or PR (with ≤2 prior regimens) disease, any FRα expression allowed, including 0% (expression is determined retrospectively), ECOG 0-1

Data presented at ESMO 2024

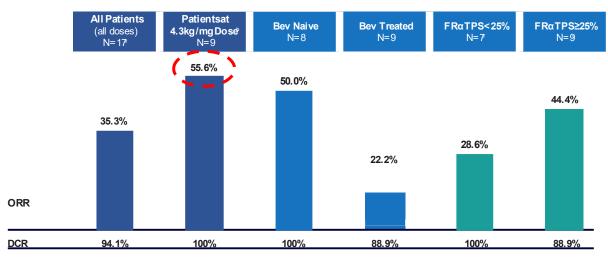


At the RP2D of 4.3 mg/kg Luvelta in Combination with Bevacizumab Demonstrated an ORR of 56%

Maximum Reduction in Target Tumor Lesions (N=17)



Response Outcomes in Dose Escalation



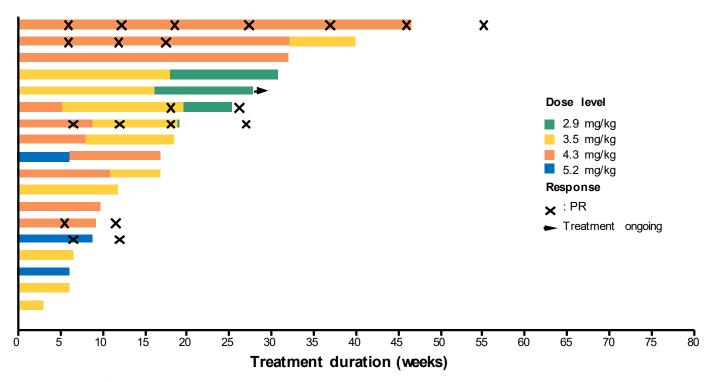
Source: Sutro ESMO 2024 Poster, data cut off: August 2nd, 2024 ^aOne patient was not evaluable for response; ^bSelected RP2D; ^cFRα expression missing for 1 patient. Responses were assessed in patients with baseline and post-treatment assessments (N=17).

RP2D – Recommended Phase 2 Dose Data presented at ESMO 2024



Predictable Safety and Compelling Duration of Treatment Seen from Phase 1 Data Across Different Doses

Figure 4. Duration of Treatment and Responses (N=18)



Data cut off date: August 2nd, 2024. PR. partial response.

| TEAEs ≥25% Incidence: N=18 | | | | |
|----------------------------|-----------|---------------------|--|--|
| N, (%) | Any Grade | Grade ≥3 | | |
| Patients with ≥1 TEAE | 18 (100) | 13 (72) | | |
| Neutropeniaª | 13 (72) | 8 ^b (44) | | |
| Constipation | 11 (61) | 1 (6) | | |
| Nausea | 11 (61) | 1 (6) | | |
| Arthralgia | 11 (61) | 0 | | |
| Asthenia | 8 (44) | 2 (11) | | |
| Abdominal Pain | 7 (39) | 1 (6) | | |
| Diarrhea | 7 (39) | 0 | | |
| Fatigue | 7 (39) | 0 | | |
| AST Increase | 6 (33) | 0 | | |
| Headache | 6 (33) | 0 | | |
| Thrombocytopenia | 5 (28) | 1 (6) | | |
| Vomiting | 5 (28) | 1 (6) | | |
| Platelet Count Decrease | 5 (28) | 1 (6) | | |
| Myalgia | 5 (28) | 0 | | |

Data cut off date: August 2nd, 2024.

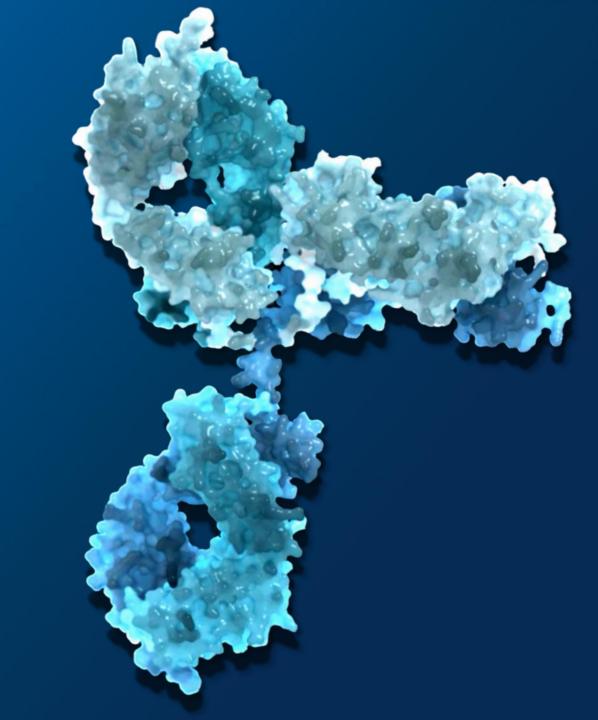
^aNeutropenia included the following preferred terms: neutropenia, febrile neutropenia, and neutrophil count decrease. ^bOf the 8 grade ≥3 neutropenia events, 1 event was febrile neutropenia.

TEAE, treatment-emergent adverse event.

Data presented at ESMO 2024

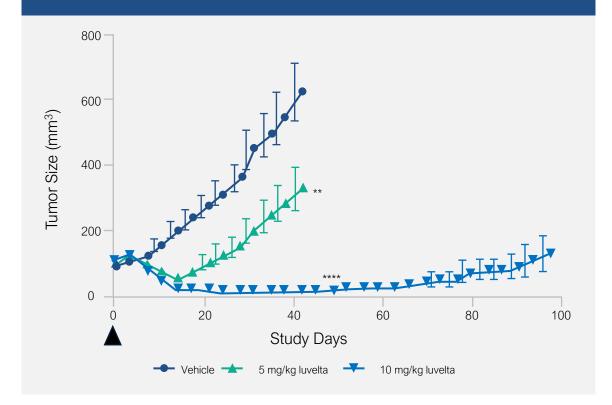


Phase 2 Study in NSCLC

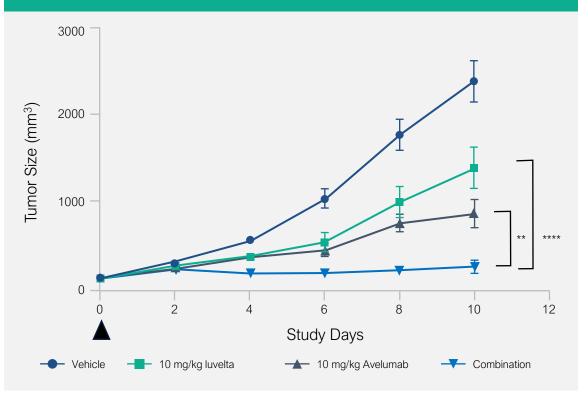


Luvelta Shows Potent Anti-tumor Activity in Preclinical Models of NSCLC





Combination of luvelta and PD-1 blockade (Avelumab) demonstrates benefit and complete tumor regression



NSCLC PDX model with single dose luvelta monotherapy

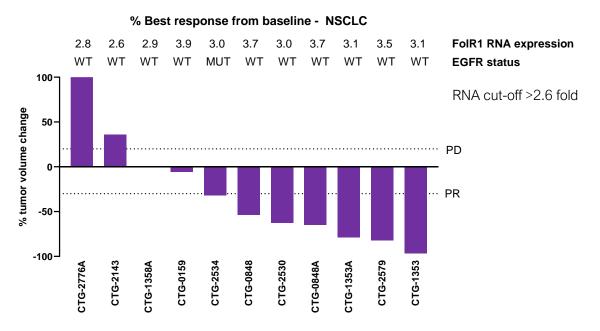
Syngeneic mouse tumor model (MC38) expressing hFRa

Sources: Apr 2022 AACR Abstract #5591, Anti-FRα ADC STRO-002 induces immunogenic cell death (ICD) to enhance anti-tumor activity Internal Sutro pre-clinical data on file.



Luvelta Demonstrates Compelling Efficacy in Both NSCLC and PROC Preclinical Mouse PDX Models

21-FR-E24 and 24-FR-E34 combined



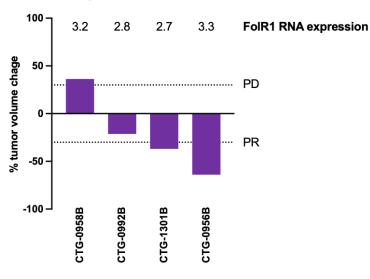
Luvelta 10 mg/kg (Q7Dx4-8)

| Best Response based on RECIST | Vehicle Control | Luvelta 10 mg/kg (Q7Dx4-8) |
|----------------------------------|-----------------|----------------------------|
| Complete Response (CR) | 0 | 9 |
| Partial Response (PR) | 0 | 55 |
| Stable Disease (SD) | 9 | 18 |
| Progressive Disease (PD) | 91 | 18 |

FRa high (RNA>2.6 fold) subset - ORR: 64%; DCR: 82%

24-FR-E34





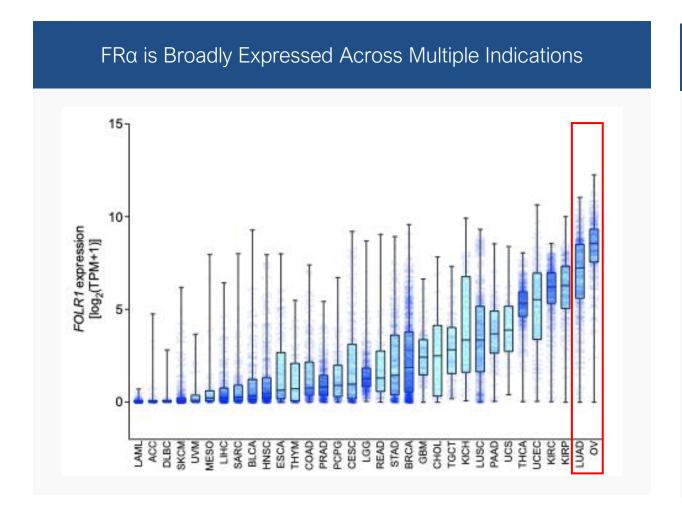
Luvelta 10mg/kg (Q7Dx4-8)

| Best Response based on RECIST (%) | Vehicle Control | Luvelta 10 mg/kg (Q7D) |
|-----------------------------------|-----------------|------------------------|
| Complete Response (CR) | 0 | 0 |
| Partial Response (PR) | 0 | 50 |
| Stable Disease (SD) | 25 | 25 |
| Progressive Disease (PD) | 75 | 25 |

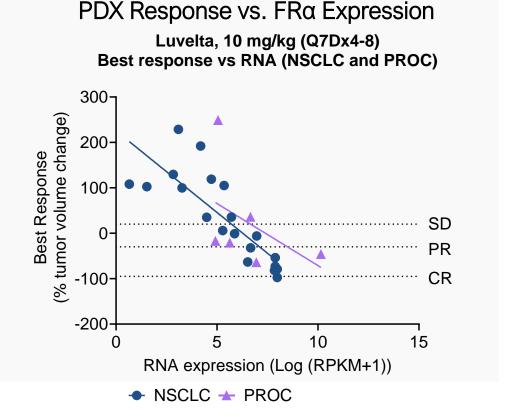
Luvelta - ORR: 50%; DCR: 75%



Luvelta: Potential to Change the Treatment Landscape for Patients with FRα Expressing Cancer



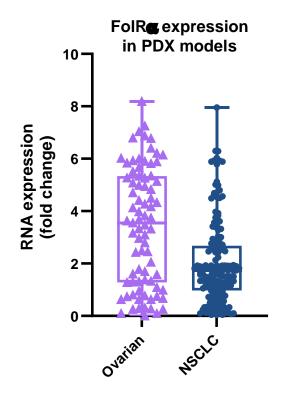




Source: The Cancer Genome Atlas (TGCA), National Cancer Institute (NCI) and the National Human Genome Research Institute. https://www.cancer.gov/ccg/research/genome-sequencing/tcga



FolRα Expression in PDX Models may Reflect the Clinically Relevant Target Patient Population Size: 30% of NSCLC Patients May Respond to Luvelta



FolRa expression in PDX models

| FoLRα RNA Expression (Fold) | Ovarian (n=79) | NSCLC (n=202) |
|--------------------------------|-------------------|------------------|
| Minimum | 0.0003 | 0.05 |
| 25% Percentile | 1.278 | 0.9683 |
| Median | 3.555 | 1.726 |
| 75% Percentile | 5.333 | 2.677 |
| Maximum | 8.190 | 7.956 |
| % Models ≥ 2.7 | 60% | 25% |

FolRα prevalence in cancer patients

| Frequency of labeled epithelial cells | Ovarian (n=79) | Lung (n=202) |
|---------------------------------------|-------------------|-----------------|
| 0 | 9/90 (10%) | 25/97(25.8%) |
| < 10% | 3/90 (3.3%) | 32/97 (33%) |
| 11 – 49% | 7/90 (7.8%) | 8/97 (8.2%) |
| 49 – 89% | 13/90 (14.4%) | 18/97 (18.6%) |
| ~ 100% | 58/90 (64.4%) | 14/97 (14.4%) |

IHC testing was performed using a research grade assay

- Comparable ORR in PROC and NSCLC PDX models with clinically relevant FolRα levels
- % ORR in PROC PDX models is similar to clinical ORR
- ORR in PDX models may be predictive of clinical response



REFRαME-L1 Trial in NSCLC Has Initiated

A Phase 2, Open-label Study Evaluating STRO-002, an Anti-folate Receptor Alpha (FRα) Antibody Drug Conjugate, in Subjects with Previously treated Advanced or Metastatic Non-small Cell Lung Cancer Expressing FRα

Key Inclusion Criteria:

- mNSCLC (adenocarcinoma or adenosquamous)
- Positive for FolRα expression
- Received ≥ 2 but no more than 4 prior lines of systemic treatments for NSCLC
- PS 0-1
- Measurable Disease per RECIST v1.1

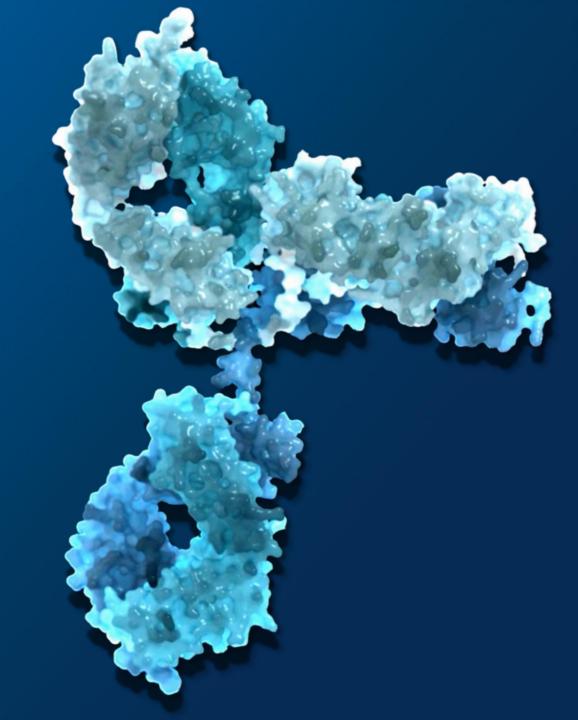
STRO-002 4.3 mg/kg q3w Treatment until RECIST disease progression of unacceptable toxicity

- N=43
- Primary Endpoint: Efficacy
- Secondary Endpoints: Safety and PK
- Intra-patient dose escalation to 5.2 mg/kg after Cycle 4 in eligible subjects





Luvelta in Endometrial Cancer



STRO-002-GM1: Phase 1 Dose-Expansion Cohort of Luvelta in Recurrent Endometrial Cancer

Key Inclusion and Exclusion Criteria

- Epithelial endometrial cancer
 - Excluded: leiomyosarcoma, stromal sarcomas and carcinosarcomas
- ≥1% FolRα expression by central IHC
- Recurrent disease
 - ≥1 platinum-based chemotherapy or 1 immunotherapy-based regimen
 - ≤3 prior regimens
- At least 1 target lesion

17 Patients Enrolled

Luvelta Dosing Schedule

- Q3W cycles
- 5.2 mg/kg unless prior pelvic XRT, then 4.3 mg/kg X 2 cycles with option to dose escalate to 5.2 mg/kg

Endpoints

- Safety
- PK
- Anti-tumor activity assessed by ORR, DOR and PFS by RECIST v1.1
- CA-125

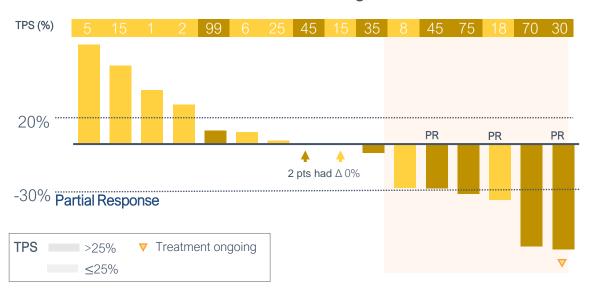
ClinicalTrials.gov NCT03748186

DOR, duration of response; IHC, immunohistochemistry; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PK, pharmacokinetic; Q3W, every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumors; XRT, radiotherapy.



Luvelta Showed Early Evidence Anti-tumor Activity in FRa Expressing EC

Maximum Reduction in Target Lesions*



Anti-tumor Activity*

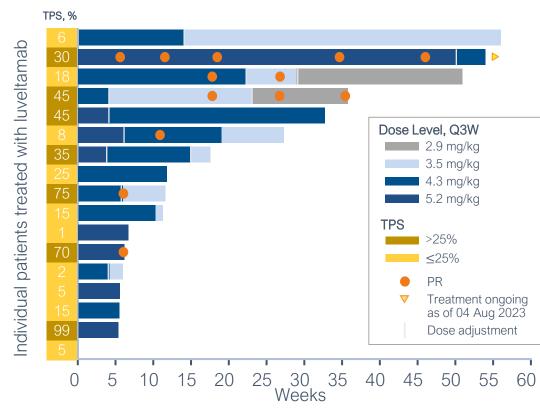
| n (%) | Overall FRα ≥1% (N=16) | FRα ≤25% (n=9) | FRα >25% (n=7) |
|-------|------------------------|----------------|----------------|
| PR | 3 (19) | 1 (11) | 2 (29) |
| SD† | 8 (50) | 4 (44) | 4 (57) |
| PD | 5 (31) | 4 (44) | 1 (14) |
| DCR | 11 (69) | 5 (56) | 6 (86) |

†3 unconfirmed PRs

• Data cutoff: 04 August 2023. *n=16 response evaluable patients. DCR, disease control rate; EC, endometrial cancer; PR, partial response;

• Q3W, every 3 weeks; TPS, tumor proportion score.

Treatment Duration and Dose Modifications



- Median exposure (range): 12 (3–38) weeks
- 5 of 17 (29%) patients received ≥5 cycles
- Median follow-up: 10.1 months



Acknowledgements

We thank the patients who participated in the study, their families, and the investigators and clinical research staff from the study centers

Clinical Leads

Ana Oaknin, Vall d'Hebron, Barcelona, Spain (EC) Wendel Naumann, Charlotte, NC Bradley Monk, University of Arizona, AZ (OVCA)

Sutro Clinical
Anne Borgman
Craig Berman
Kris Treanor
Anna Butturini
Jennifer Oliver
Kwadwo Bediago

CMC

Judy Hsii
Upstream Process Development
Downstream Process Development
Analytical Development
MSAT Team
Manufacturing Team

SMT

Jane Chung
David Pauling
Barbara Leyman
Venkatesh Srinivasan
Bill Newell

R&D Alice Yam Gang Yin Werner Rubas Guifen Xu Brian Vuillemenot Dan Calarese Helena Kiefel Adam Galan Krishna Bajjuri Xiaofan Li Jeff Hanson Miao Wen **Cuong Tran** Robert Yuan



Thank you!

