

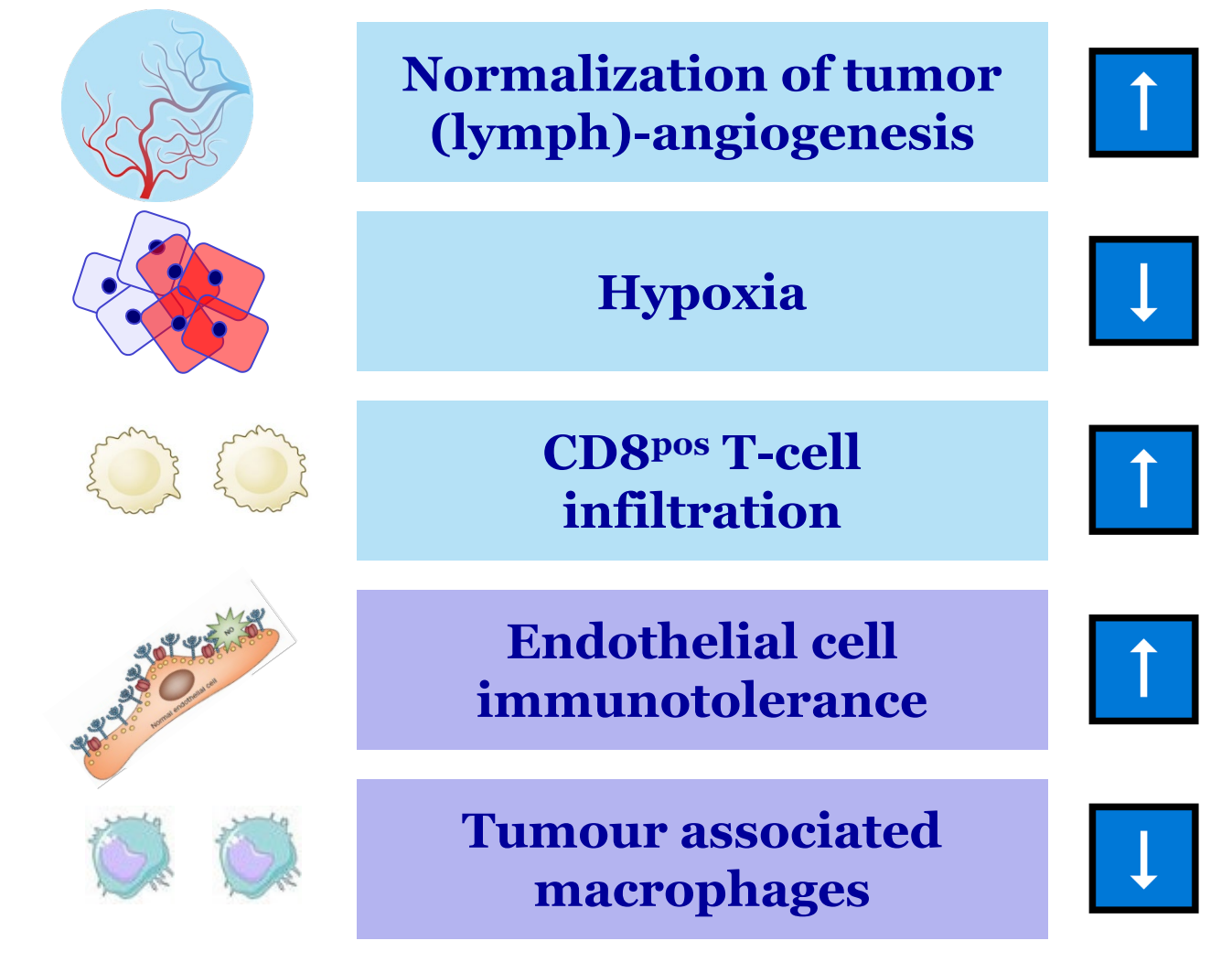
Carlos Gomez-Roca¹, Philippe Cassier², **John Friend³**, Michael Fitzgerald³, Marie Mandron⁴, Lise Davenne⁴, Cristina Costantin⁵, Philippe Rochoaix¹, Jean-Pierre Delord¹, Pierre-Benoit Ancey⁴, Oona Delpuech⁴, Celine Poussereau-Pomie⁴, Maha ayyoub¹, Christine Caux², Christophe Caux², Clara-Maria Scarlata¹, Nathan Tsoutzidis⁶, Andrea Corsi⁶, Andrea Nizzardo⁵, Alessia Tagliavini⁵, Marco Pergher⁵, & Pierre Fons⁴
¹Institut Universitaire du Cancer Toulouse-Oncopole (IUCT-O), Toulouse, France, ²Centre Léon Bérard, Lyon, France, ³Kazia Therapeutics, Sydney, Australia, ⁴Evotec, Toulouse, France, ⁵Evotec, Verona, Italy, ⁶Radiomics.bio, Liège, Belgium

Abstract #P110

EVT801: A differentiating anti-tumour approach

Targeting tumour angiogenesis with the selective VEGFR-3 inhibitor EVT801 in combination with cancer immunotherapy
Cancer Research Communications (2022) 2 (11): 1504-1519.

EVT801 activity on tumour microenvironment



Multiple cooperative modes of action

↓ Cytokines involved in MDSC frequency ↓ Myeloid-derived suppressor cells

EVT801 MoA hypothesis: by inhibiting VEGFR3^{pos} tumour blood vessels formation, EVT801 would induce tumour blood vessels normalization, reducing hypoxia and improving CD8 T-cells infiltration

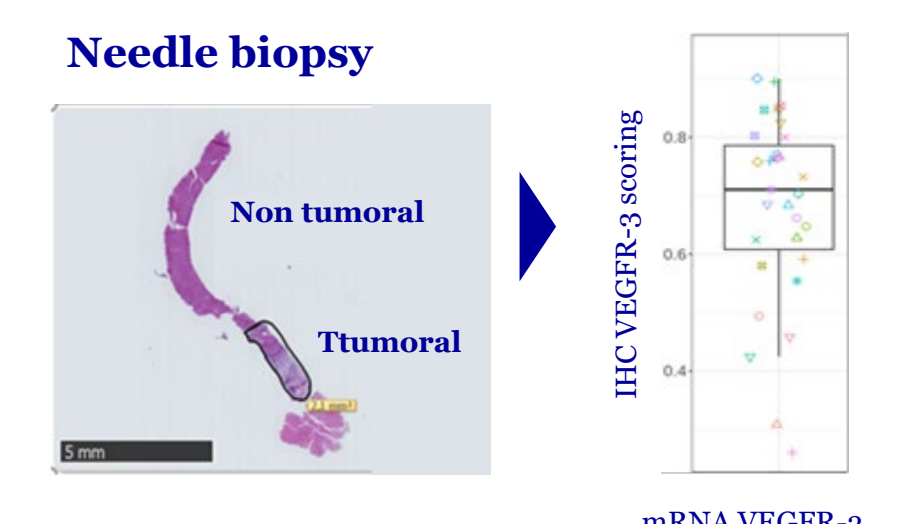
EVT801 Biomarkers strategy

Patients characterization based on VEGFR-3 expression in archival tissues and/or biopsies

- VEGFR-3 signature by IHC: VEGFR-3/CA9/CD8/CD31/PD-L1

VEGFR-3 & response to immune checkpoint therapies mRNA signatures by Fluidigm

- VEGFR-3 gene signature
- PD-1 response gene signature on archival tissues and/or biopsies

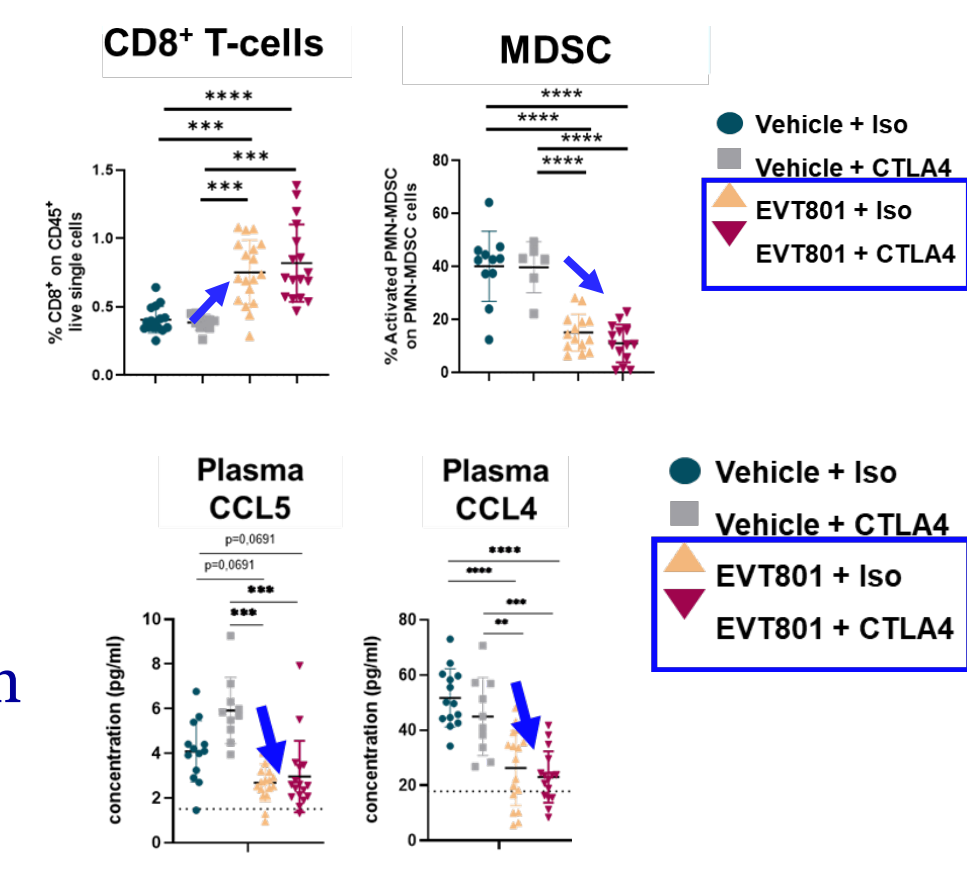


Safety biomarkers to control hypertension

- Blood pressure measurement to control that EVT801 does not induce hypertension (as demonstrated in preclinical model)

Circulating endpoint biomarkers

- **Immunomonitoring** based on CD8⁺ T-cells / MDSC ratio at C1D1 vs C2D1



- **Proteins signature** based on chemokines involved in inflammation & angiogenesis at C1D1 vs C2D1

Circulating pharmacodynamic biomarkers

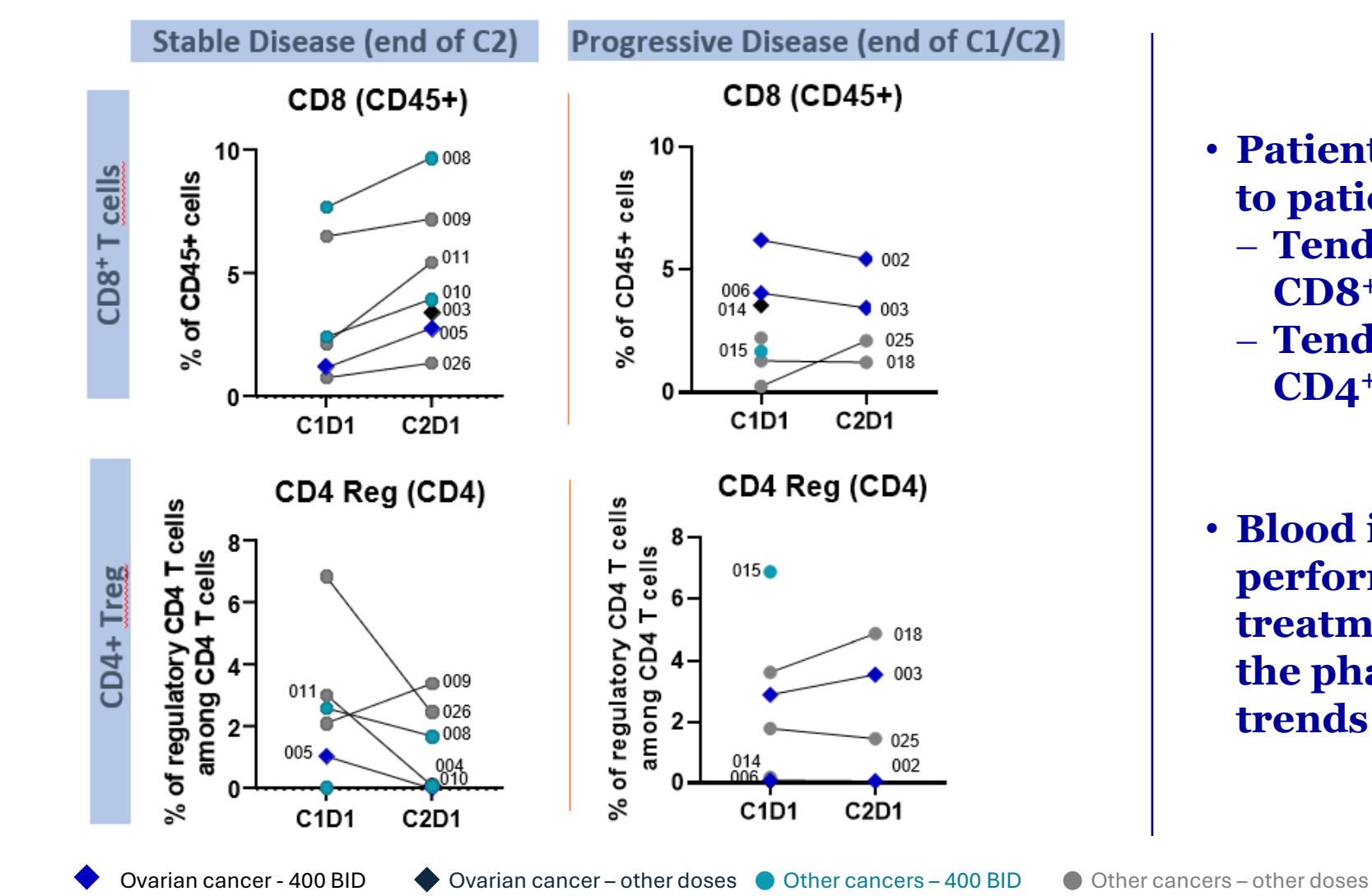
- Bulk RNA sequencing on blood cells at C1D1 vs C2D1 (Paxgene tube)

Resting samples will include

- Frozen whole blood & plasma
- Frozen PBMCs
- FFPE biopsies

Immunomonitoring: analysis on patients with Stable Disease vs Progressive disease

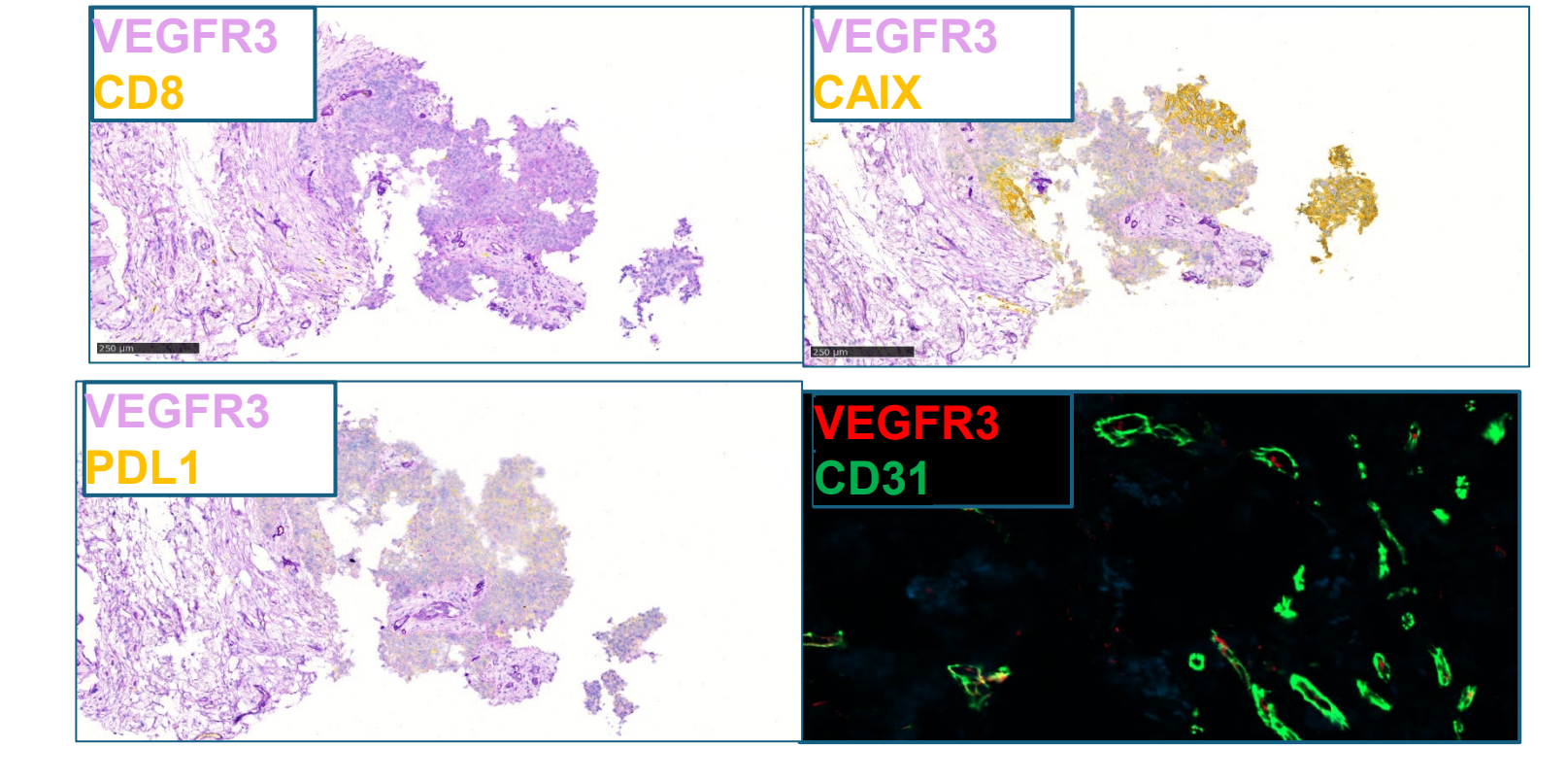
Working hypothesis: patients with stable disease have an increase of circulating CD8⁺ T-cells and a decrease of CD4⁺ Treg-cells in comparison to patients with progressive disease.



- Patients with stable disease in comparison to patients with progressive disease:
 - Tendency of an increase of circulating CD8⁺ T-cells
 - Tendency of a decrease of circulating CD4⁺ Treg-cells.
- Blood immunomonitoring should be performed at different cycles of treatment (not only after one cycle) during the phase 2 clinical trial to confirm these trends

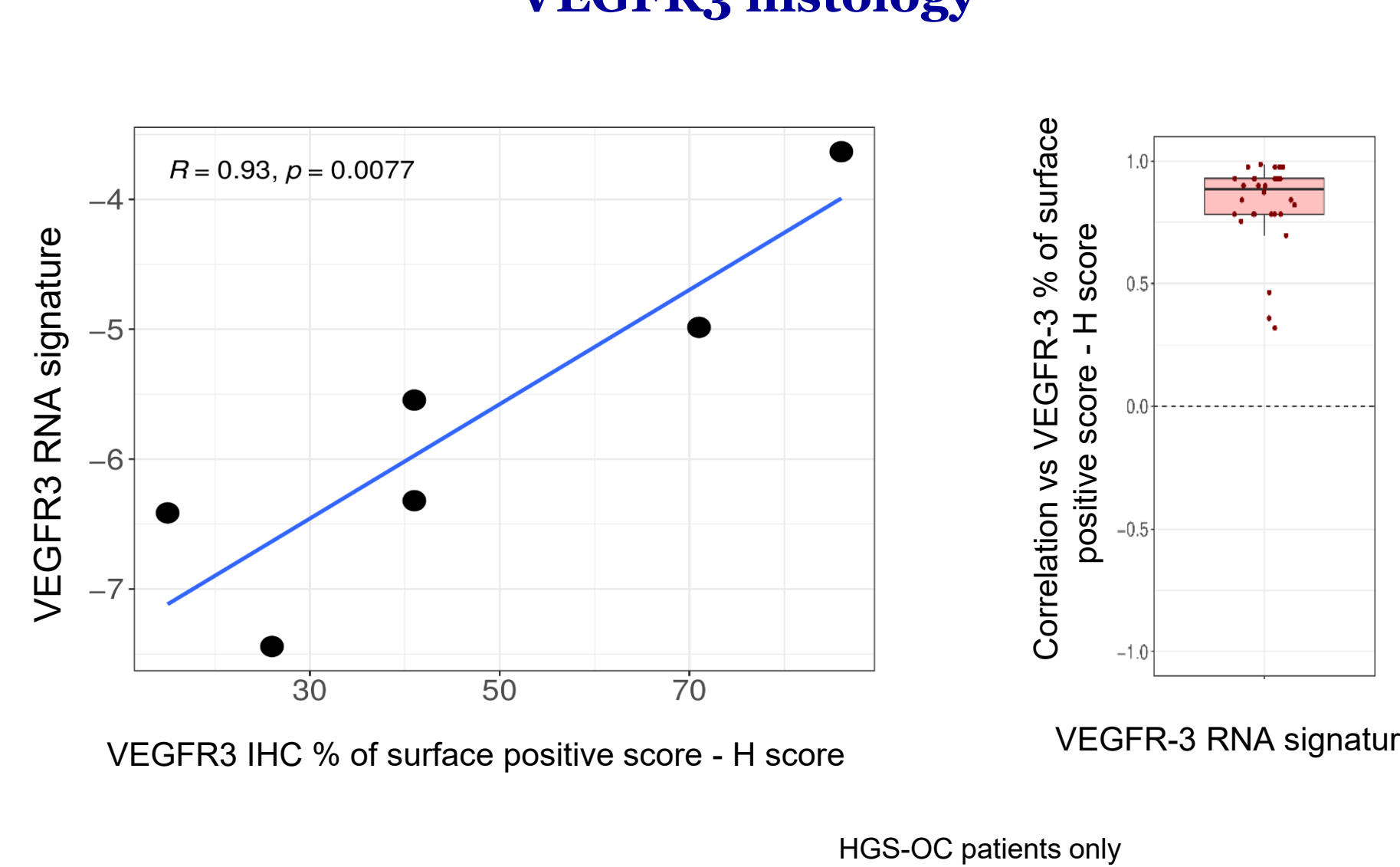
VEGFR3 expression in patients with High Grade Serous Ovarian Cancer enrolled in EVT801 clinical trial phase 1

Immunohistochemistry: a case study



	VEGFR3 H-score	CD8 quantification	CAIX quantification
Score	71	0,07	35,2
Status	High	Immune desert	High

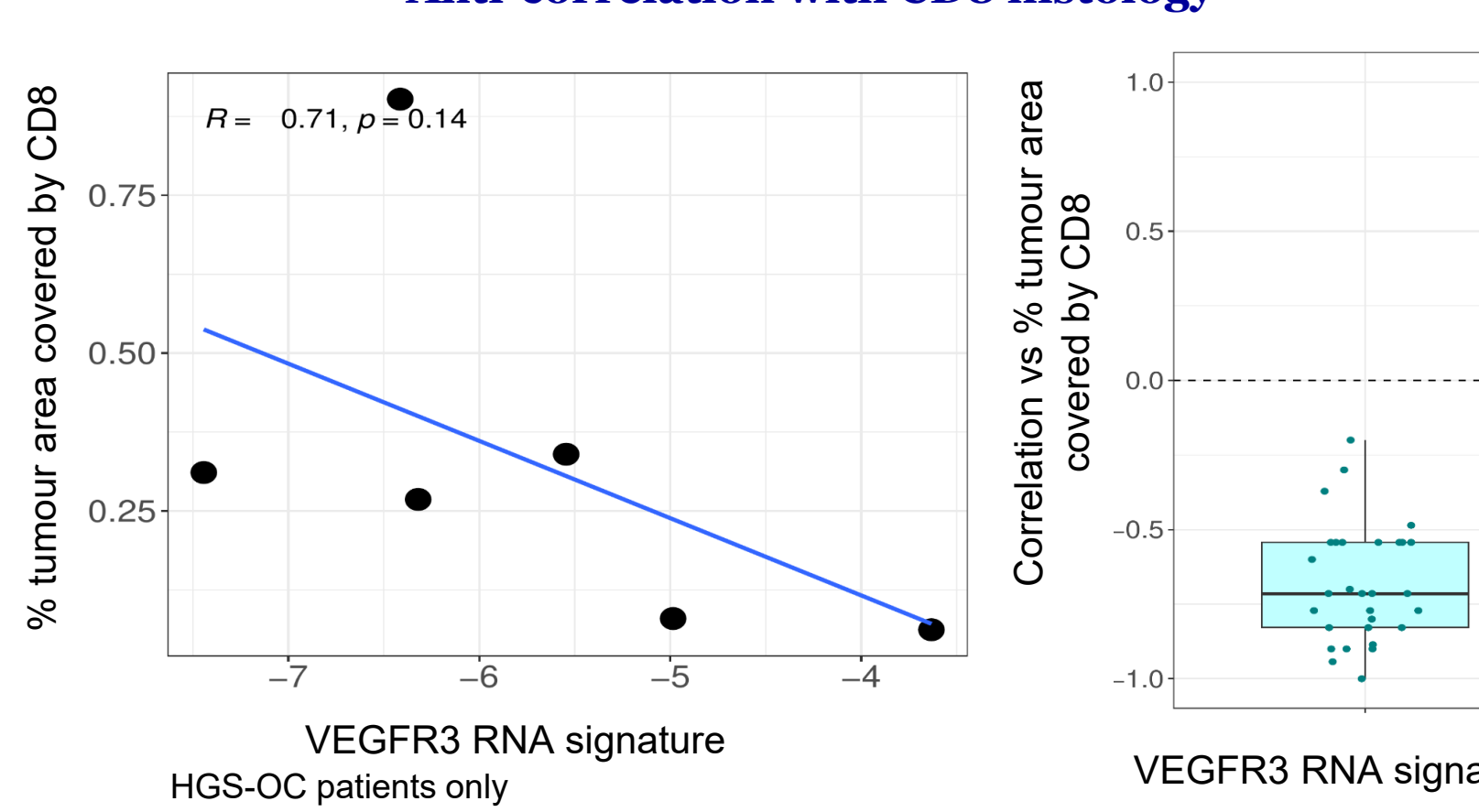
Aggregated VEGFR3 gene signature correlation with VEGFR3 histology



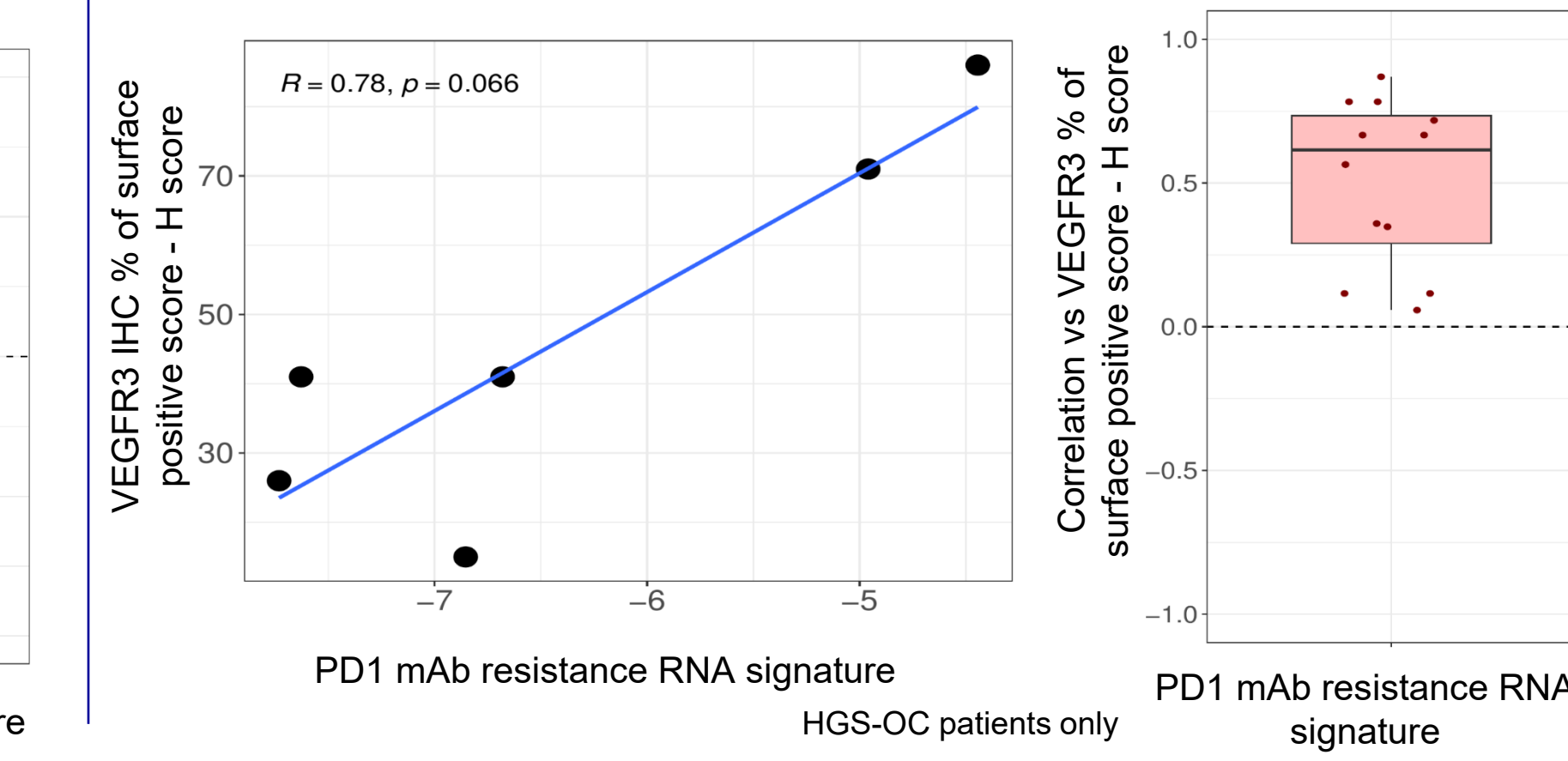
High correlation between VEGFR3 staining by histology and VEGFR3 gene signature allowing to compare RNA signatures with other histology readouts

Correlation between VEGFR3 and immune profile in patients with High Grade Serous Ovarian Cancer enrolled in EVT801 clinical trial phase 1

Individual and aggregated VEGFR3 gene signature Anti-correlation with CD8 histology



Individual and aggregated PD1 mAb resistance gene signature correlation with VEGFR3 histology



Inverse correlation between VEGFR3 expression & CD8 expression
Positive correlation between VEGFR3 expression & PD1 mAb response signature

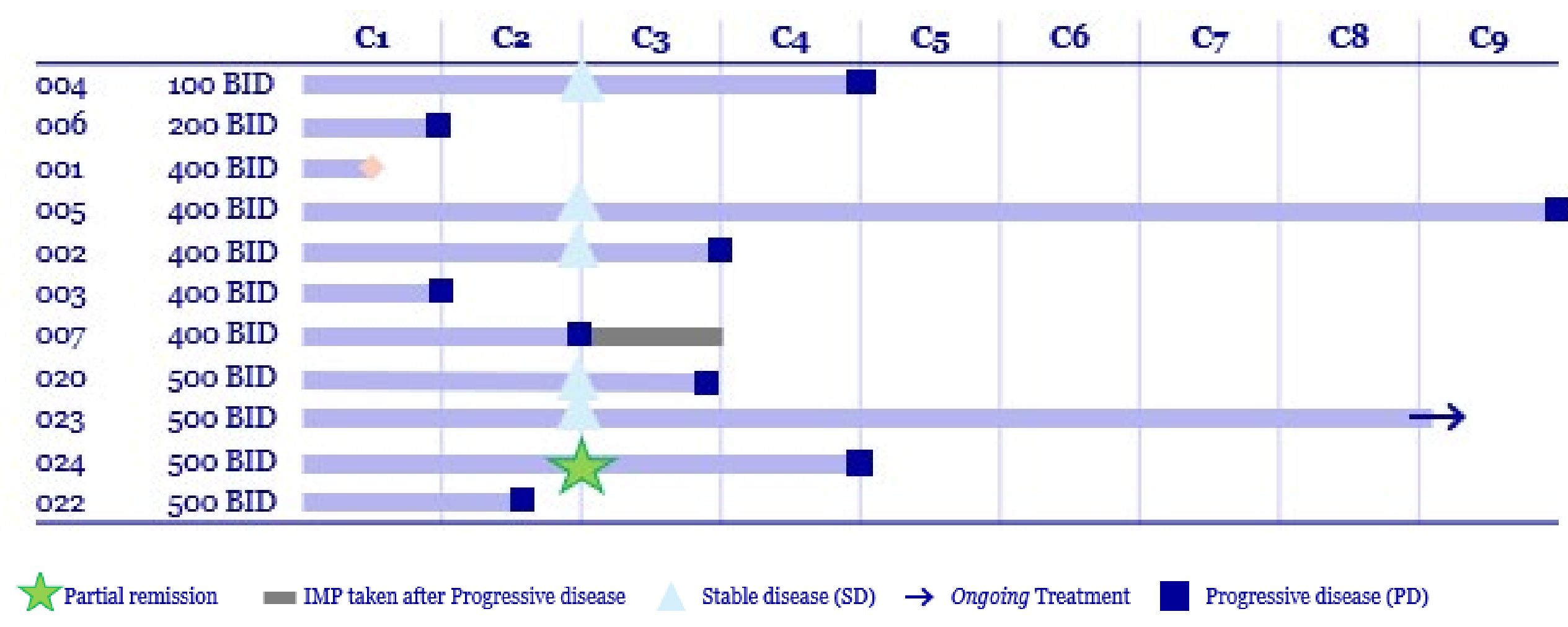
Conclusion and next steps

- **Stage 1 is complete - primary and secondary endpoints achieved:**
 - 32 patients included in the study with 26 patients treated
 - 6 dosing cohorts completed ranging from 50mg QD to 500mg BID
 - MTD identified as 500mg BID with 400mg BID being RP2D as monotherapy
 - Patients with eleven different cancer types (ex. colon, renal cell, pancreatic) were enrolled in the study, with advanced ovarian cancer being the most prevalent indication (11 patients).
 - Number of patients have remained on treatment for two or more cycles with 9 reaching cycle 3 or greater (two reached cycle 9)
- **EVT801 was well tolerated across all doses with majority of toxicities being mild to moderate and transient in nature:**
 - Reinforces the safety profile of EVT801 observed during the preclinical toxicology studies
- **Biomarkers have shown strong VEGFR3 expression in some indications, and we have observed encouraging clinical activity in High Grade Serous ovarian cancer**
- **Next clinical trial will be pivotal to:**
 - Consolidate safety data at RP2D and our hypotheses on EVT801 mode of action
 - Validate High Grade Serous Ovarian Cancer as indication of choice for clinical trial phase 2 for standalone therapy or in combination with standard-of-care

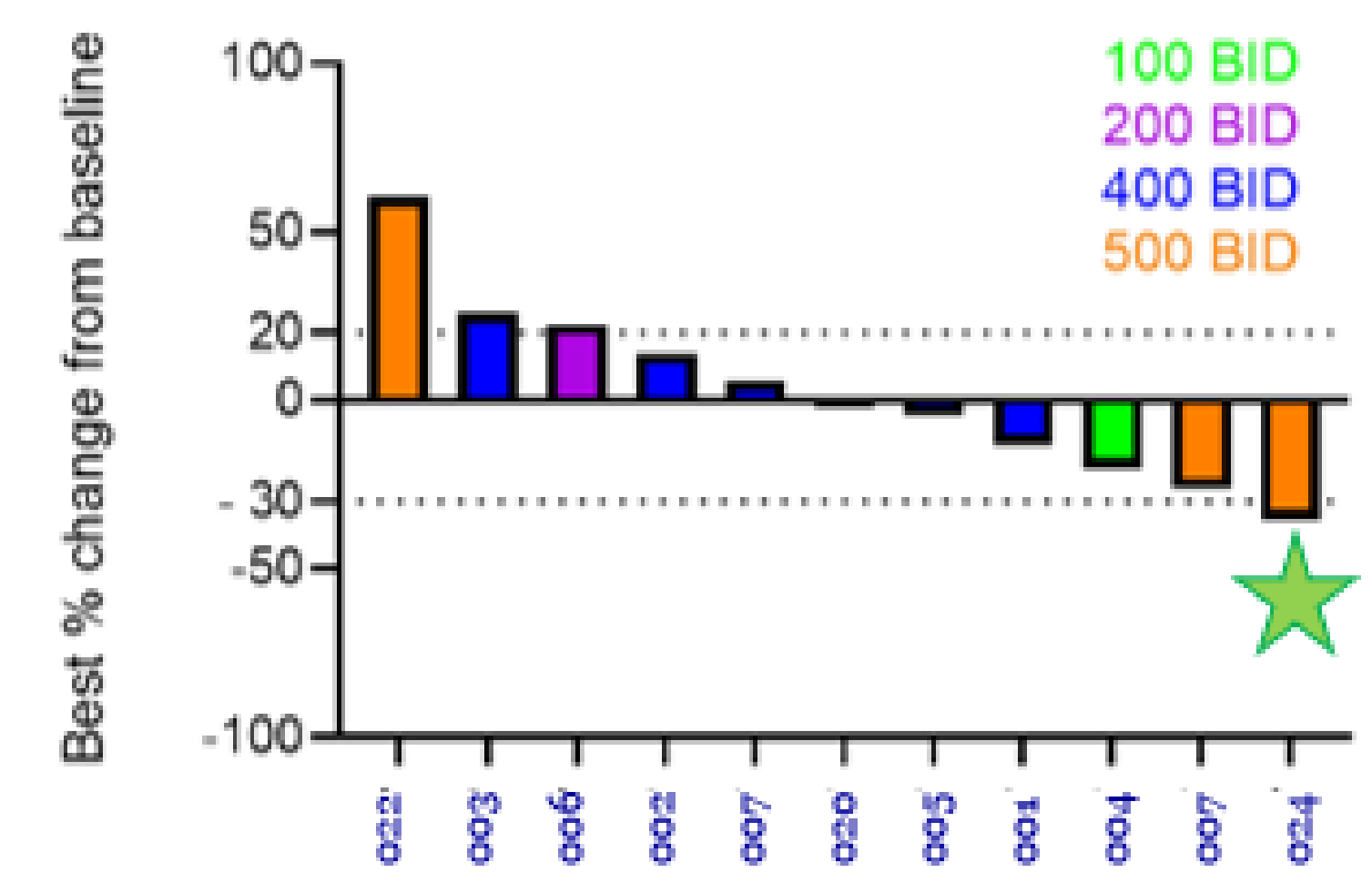
Overview of patient's follow-up Focus on Ovarian cancer patients

- 11 patients with ovarian cancer (10 with high grade serous ovarian cancer (HGS-OC) and 1 with low grade serous ovarian cancer) that have received multiple lines of previous treatments were included among the 32 patients enrolled.
- This represents a consequent subpopulation with the same disease that allows to perform statistical analysis on clinical and biomarkers data
- To date, samples of 6 of these patients have been analyzed for biomarkers

Number of cycles of treatment Status on 11th of September 2024



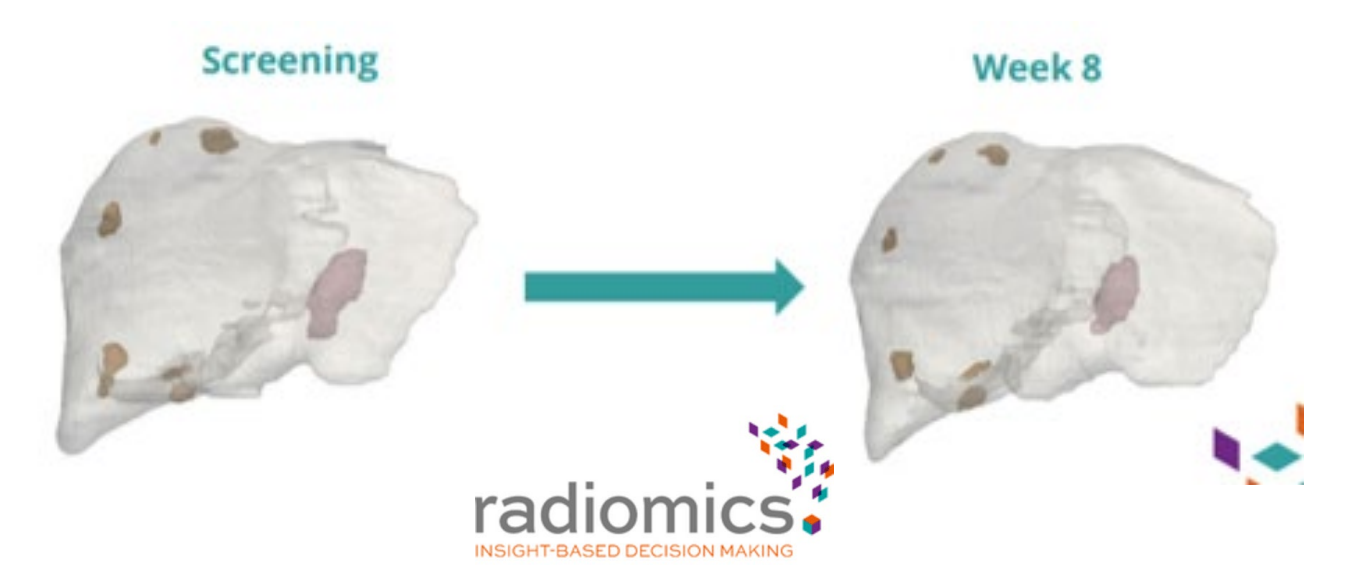
Tumor best responses plot



- These 11 patients with ovarian cancer had an average age of 67 years (range: 56-76) and a median time from diagnosis of nine years.
- Forty-six percent (46%) of the ovarian cancer patients had stable disease or better for at least three cycles of EVT801 therapy.
- Patient 024 had a partial response (-39% decrease) at the end of cycle 2

Case study: Analysis of patient 024 - 3D renderings by Radiomics.org

The 3D renderings show the evolution of the lesions from screening to week 8 with a significant reduction of volume



The volumetric analysis shows a partial response from screening to week 8

Lesion	Screening	Week 8 (Week 8-to/to)	
Liver lesions	4,83 cm3	3,16 cm3	-34,5 %
Abdominal lymph node	7,22 cm3	4,47 cm3	-38,2 %
Total	12,06 cm3	7,63 cm3	-36,7 %

- Potential disease response = -39%
- Some of the quantified radiomics features are clearly impacted by the treatment
- Following EVT801 treatment:
 - o The lesions became more homogenous & less dense intensity-wise
 - o The lesions became more compact

NCT05114668: EVT801 in Phase I clinical trial KZA-o801-101

Approvals from regulatory bodies obtained in September 2021

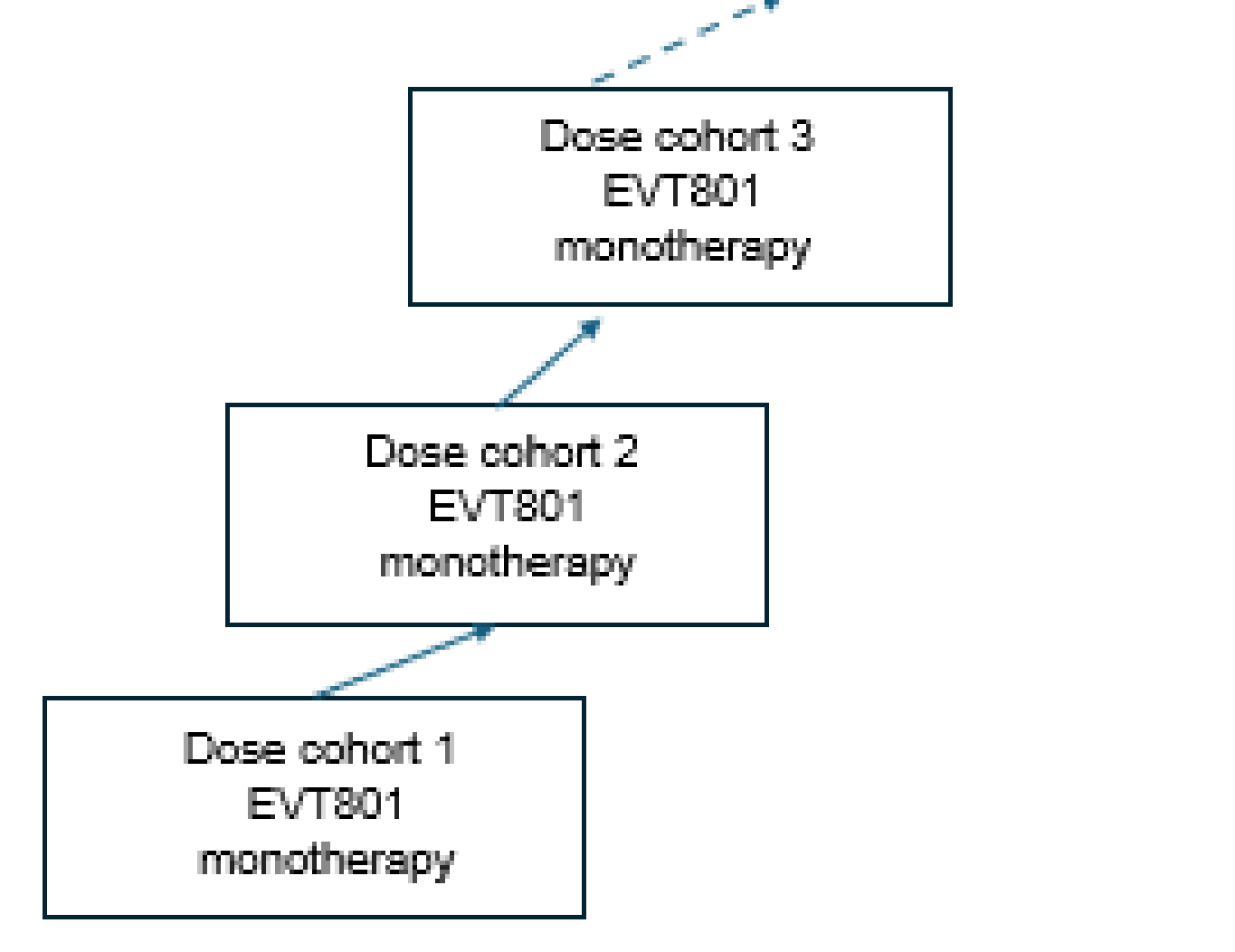
- First-Patient-In in Oct 2021
- 2 clinical sites in France :
 - Toulouse (IUCT): PI = Dr Gomez-Roca
 - Lyon (CLB): PI = Dr Philippe Cassier

- 32 patients enrolled in stage 1
 - 6 screening failed
 - 26 patients treated
 - 6 cohorts at different doses
 - 50mg QD to 500mg BID
 - 11 patients with ovarian carcinoma

Clinical trial design

A Phase 1, First-in-Human, Open-Label Study to Assess the Safety, Tolerability and Pharmacokinetics of EVT801 in Patients with Advanced Solid Tumours

STAGE 1 Monotherapy dose escalation n=48



- Up to 8 cohorts
- Single-patient cohorts initially; expand to 3+3 when toxicity is encountered
- Mixed population of advanced solid tumours
- Doses from 50 QD to 800 BID



Clinical trial main objectives

- **Primary Objective:**
 - To evaluate the safety and tolerability of EVT801 in subjects with advanced or metastatic solid tumours.
 - To determine the maximum tolerated dose (MTD) and / or a recommended Phase 2 dose (RP2D) of EVT801 when administered daily to subjects with advanced or metastatic solid tumours.
- **Secondary Objectives:**
 - To characterize the pharmacokinetics (PK) of EVT801 following administration in an oral capsule formulation.
 - To identify active metabolites of EVT801 in plasma.
 - To determine preliminary anti-tumour activity of EVT801 via assessment of overall response rate (ORR).
- **Exploratory Objectives:**
 - To calculate progression-free survival (PFS) and overall survival (OS) for patients treated with EVT801.
 - To identify biomarkers for EVT801 patient characterization in blood and/or in tissue
 - To investigate potential mode of action and pharmacodynamics biomarkers of EVT801
 - To correlate progressive disease (PD) response and overall response rate (ORR) to VEGFR3 expression in tumour samples.

Based on protocol v5.0 dated 25 Nov 2023