

Avacta Therapeutics

Expanding the reach of highly potent cancer therapies

November 2024

Forward-looking statements

This presentation contains forward-looking statements. Such statements include, but are not limited to, statements regarding the Company's research, preclinical and clinical development activities, plans and projected timelines for AVA6000 and the Avacta pipeline, plans regarding regulatory filings, our expectations regarding the relative benefits of our product candidates versus competitive therapies, and our expectations regarding the therapeutic and commercial potential of our product candidates. The words "believe," "may," "should," "will," "estimate," "promise," "plan", "continue," "anticipate," "intend," "expect," "potential" and similar expressions (including the negative thereof) are intended to identify forward-looking statements. Because such statements are subject to risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements.

Risks that contribute to the uncertain nature of the forward looking statements include: our preclinical studies and clinical trials may not be successful; the U.S. Food and Drug Administration (FDA) may not agree with our interpretation of the data from clinical trials of our product candidates; we may decide, or the FDA may require us, to conduct additional clinical trials or to modify our ongoing clinical trials; we may experience delays in the commencement, enrollment, completion or analysis of clinical testing for our product candidates, or in the reporting of data from such clinical testing, or significant issues regarding the adequacy of our clinical trial designs or the execution of our clinical trials may arise, which could result in increased costs and delays, or limit our ability to obtain regulatory approval; our product candidates may not receive regulatory approval or be successfully commercialized; unexpected adverse side effects or inadequate therapeutic efficacy of our product candidates could delay or prevent regulatory approval or commercialization; and we may not be able to obtain additional financing.

These statements are not guarantees of future performance and undue reliance should not be placed on them. Such forward-looking statements necessarily involve known and unknown risks and uncertainties, which may cause actual performance and financial results in future periods to differ materially from any projections of future performance or result expressed or implied by such forward-looking statements.

Although forward-looking statements contained in this presentation are based upon what management of the Company believes are reasonable assumptions, there can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. The Company undertakes no obligation to update forward-looking statements if circumstances or management's estimates or opinions should change except as required by applicable securities laws. The reader is cautioned not to place undue reliance on forward-looking statements.



Avacta is a clinical stage biotech focused on the pre|CISION platform

Avacta is challenging the current drug delivery methods to expand the reach of highly potent therapeutics using peptide drug conjugates

pre|CISION Platform

- Allows for targeted delivery of payload in the TME, sparing healthy tissue
- Generation of multiple follow-on candidates with unique features and payloads
- pre|CISION® platform with multiple advantages over conventional oncology ADCs

Highly Differentiated
Pipeline Targeting
Multi Billion Dollar
Markets

- **AVA6000** (FAP-Doxorubicin) reported strong clinical data in the Phase 1 dose escalation trial (AACR, 2024 and ESMO, 2024)
- AVA6103 (FAP-EXd) is a pre|CISION®-enabled conjugate of the topo I inhibitor exatecan with potential Phase 1 start in 1Q 2026
- AVA7100 is a preclinical pre|CISION®-enabled FAP-Affimer candidate
- Broad IP portfolio covering foundational pre|CISION® technology and programs

Near-Term Milestones

- AVA6000: Complete Phase 1 data in 2Q25, Phase 2 initiation in 2H25
- AVA6103: Candidate selection in 2H 2024
- AVA7100: Candidate selection in 2H 2025

Financial Position & Management Team

- AIM-listed company with cash and cash equivalents of £32.5 million as of June 30, 2024
- A process to divest the revenue-generating diagnostics division is ongoing, transforming Avacta into a pure-play therapeutics company
- Exploring opportunities for a potential dual listing on NASDAQ
- Highly experienced Management Team, Board, and Scientific Advisory Board



The Avacta Therapeutics Leadership Team



Christina Coughlin, MD, PhD

Chief Executive Officer and Head of R&D

Chris is an oncologist and immunologist, trained at the University of Pennsylvania She has >18 years of industry experience

including >30 oncology INDs and approvals across small molecules and cell therapy in oncology







Wyeth

IMMUNOCORE



Simon Bennett, DPhil

Chief Business Officer

Simon is a biochemist with more than 26 years of commercial experience in biopharmaceuticals, supporting business development and corporate development

Simon has been involved in over 80 commercial deals across geographies









Karen Harrison

Chief Operating Officer

Karen has >30 years of experience in building successful teams and delivering all operational aspects of her teams

Karen's focus is on value creation and global reach of companies, delivering transformational operational planning



Kingston University London



Michelle Morrow, PhD

Chief Scientific Officer

Michelle has >17 years of experience in in oncology research in the biotech and pharma industry

Michelle has significant experience leading discovery and preclinical research teams, including multiple INDs and approvals in oncology











Avacta technology unleashes powerful cancer-killing drugs selectively in the tumor

Cytotoxic agents remain the most powerful and effective way to kill cancer cells

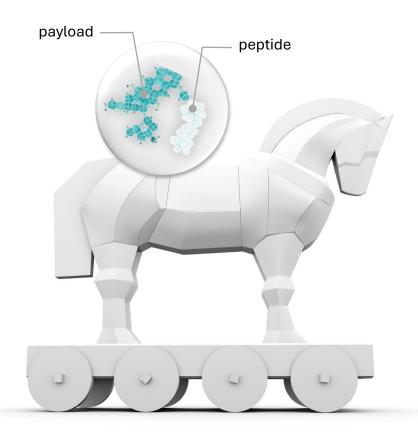
But they indiscriminately kill any dividing cells such as bone marrow, gut lining, hair follicles, skin and reproductive cells.

Avacta technology masks cytotoxic agents in a Trojan horse that is only opened at the site of the tumor

The hidden drug retains its power but is inert as it travels invisibly through the body, sparing healthy cells.

Exposure of the drug requires the activity of an enzyme (protease) expressed only in the tumor microenvironment

This enzyme concentrates the drug at the tumor site by cutting open the Trojan horse, unleashing it in its active form.



Drugs are exposed and the lethal effect is unleashed selectively in the tumor microenvironment



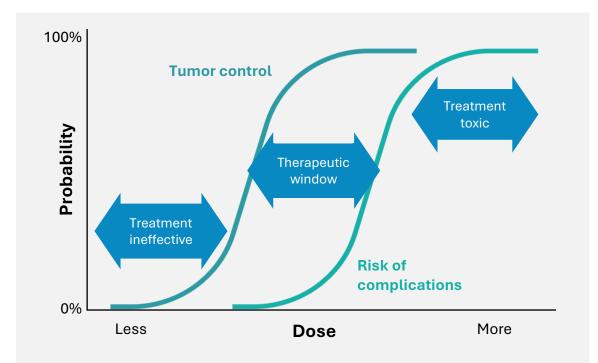
Potent cancer drugs kill indiscriminately, causing toxicity throughout the body

Therapeutic index challenge: Most cytotoxic drugs cause severe toxicity at the efficacious doses

Expanding the therapeutic index of a drug requires a higher dose delivered to the tumor while in parallel sparing normal tissues from exposure

pre|CISION® medicines are designed to mask toxic effects from normal tissues by two mechanisms:

- Limiting peripheral exposure to the released (active) payload and
- Delivering high concentrations of release payload directly in the TME



The therapeutic index of a drug is the ratio of the dose that is toxic in half of the population to the dose that exerts a therapeutic or effective response in half of the population

Expanding the therapeutic window of cancer drugs demands innovative targeting strategies directly to the tumor

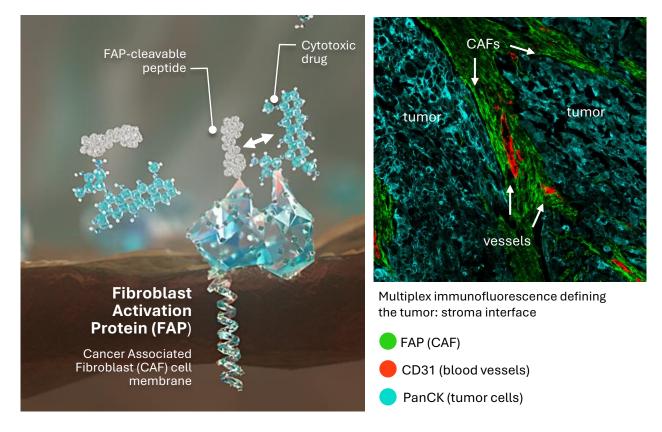


Avacta is redefining how oncology therapeutics are targeted specifically to the tumor

pre|CISION® medicines are targeted to the tumor by means of a protease, specifically expressed in the tumor microenvironment (TME), that releases the cytotoxic agent

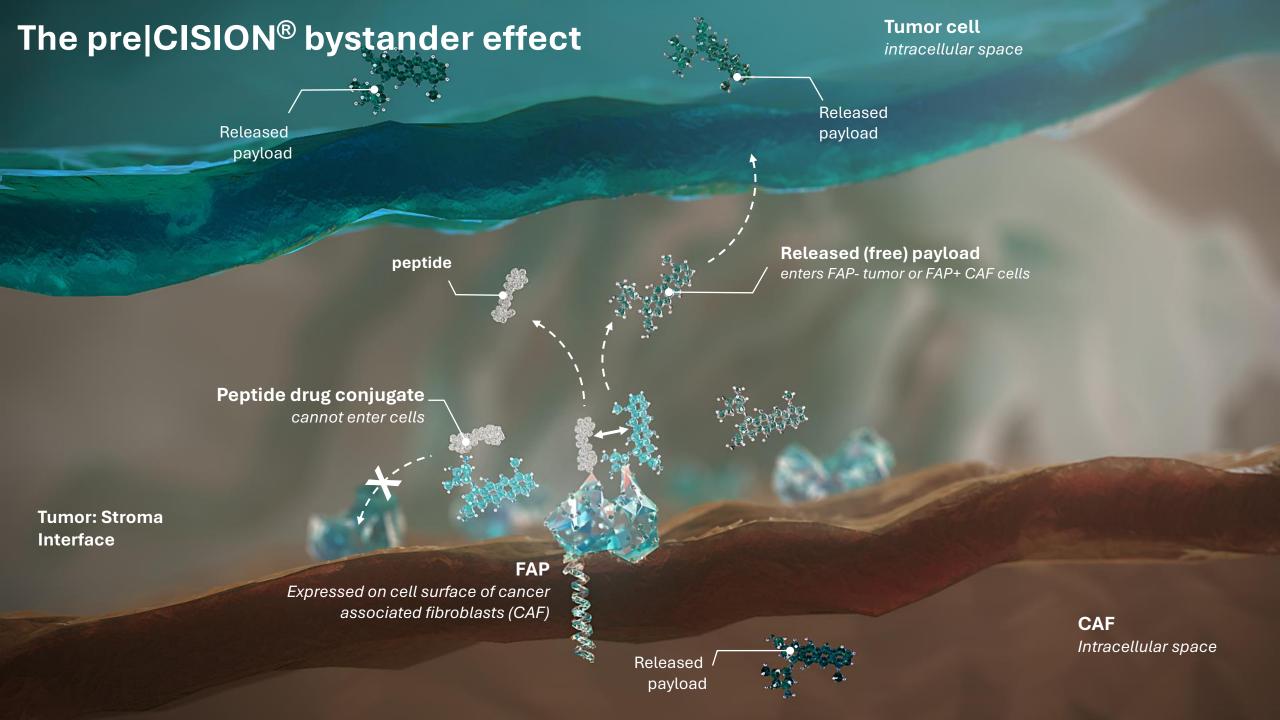
Fibroblast associated protein (FAP) is expressed by cancerassociated fibroblasts (CAFs) in many solid tumors with little to no expression in normal tissues

FAP is a protease with exquisite specificity for the **pre|CISION linker sequence** that releases the payload directly in the TME, killing tumor cells via the bystander effect



Leveraging the FAP protease in the TME represents a new approach to deliver payloads to the tumor and spare healthy tissue





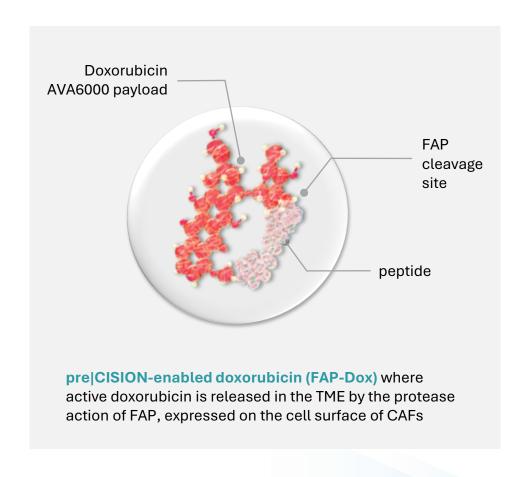
AVA6000: Avacta technology delivers cytotoxic drugs directly to the tumor while protecting healthy tissue

Foundational pre|CISION® platform technology in the peptide drug conjugate format is the basis of our first clinical asset, FAP-Dox (AVA6000)

The pre|CISION® peptide is conjugated to a cytotoxic drug to create a peptide drug conjugate (PDC), rendering the drug inert until the peptide is cleaved

Advantages

- Short plasma PK of the PDC (t_{1/2} minutes to hours)
- High tumor concentration v. plasma of released payload
- Tumor targeting is not limited by a specific moiety; effective across many FAPpositive tumor types
- Small molecule manufacturing timeline/COGMs

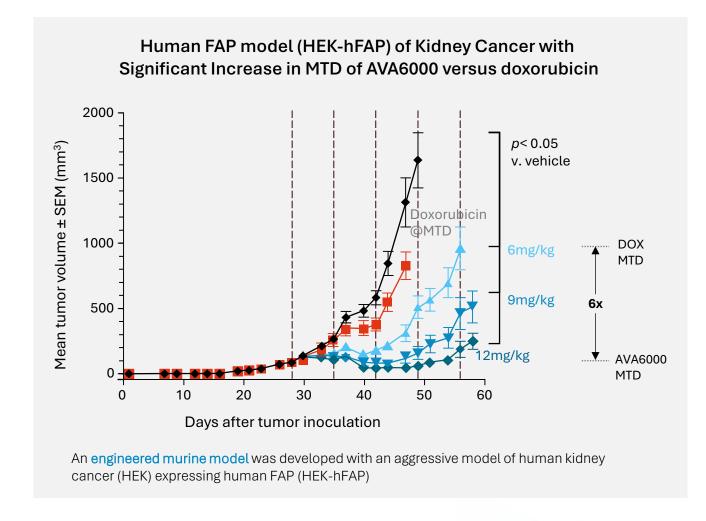




FAP-enabled doxorubicin (AVA6000) demonstrates activity

in a FAP-high model

- pre|CISION-enabled doxorubicin (FAP-Dox, AVA6000) results in a 6-fold increase in the MTD versus conventional doxorubicin
 - The MTD of doxorubicin is 2mg/kg and AVA6000 is 12 mg/kg
 - Regression of established tumors observed at MTD of AVA600
- Preclinical tumor:plasma PK studies suggest that pre|CISION-enabling results in a 10-20-fold difference in tumor exposure
 v. concurrent plasma exposure across payloads



Leveraging the FAP protease represents a new approach to deliver payloads to the tumor and spare healthy tissue



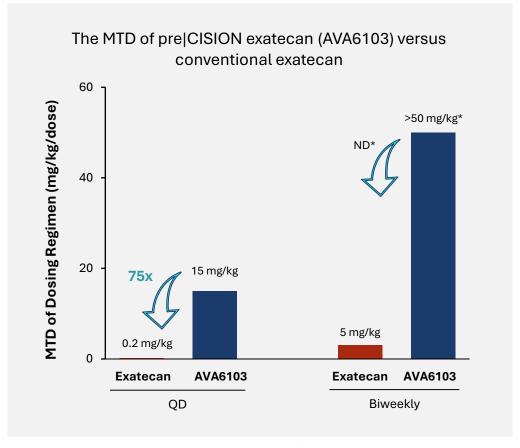
Building on a proven foundation: Advancing our platform technology to a novel payload (exatecan)

To leverage additional payloads (exatecan) and optimize therapeutic index, the properties of the FAP cleavable peptide have been advanced (FAP-EXd, AVA6103)

The tumor to plasma PK is fine-tuned through deep chemistry expertise and a computational algorithm trained using *in vitro* and *in vivo* data with multiple payloads

Advances in pre|CISION chemistry:

- 1 The capping group is modified to extend the plasma exposure of the conjugated PDC
- 2 Slowing the rate of cleavage of the drug in the TME optimizes selective delivery of the released payload only in the tumor
- 3 These changes together create a **sustained release delivery** in the TME, significantly extending the therapeutic index



*Non-tumor bearing mice were dosed in a multi-dose format with the defined schedules using either exatecan or AVA6103 administered i.v. Maximum dose tested of AVA6103 was 50 mg/kg with no toxicity noted, thus the therapeutic index of the biweekly schedule was not determined (ND)



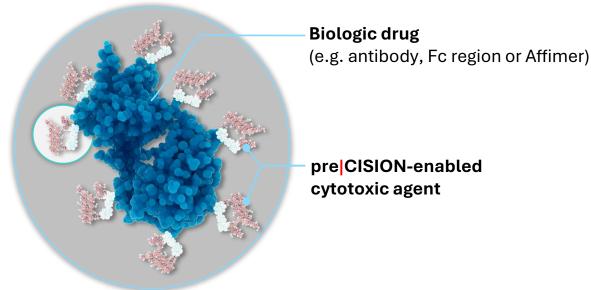
Expanding our platform technology for greater patient impact

Combining our tumor-selective masking technology with a small biologic enhances tumor targeting and broadens the cancer indications we can address

Advances:

- Modular drug delivery system with multiple formats, variable affinities, and multiple specificities with in-house screening capabilities
- Better tumor penetration with similar antigen affinity compared to an antibody
- Significantly faster and less costly to manufacture than antibody-based drugs

The FAP Affimer drug conjugate (AffDC) with pre|CISION delivery (AVA7100) will unlock patient populations with lower expression of FAP





Avacta's technology stands out with several unique advantages in a competitive market



FAP-targeted therapies will reach a broad patient population with high unmet need

Highly expressed in many solid tumors and predicts poor prognosis

Potent tumor-specific and broad-spectrum cytotoxicity

Induces tumor cell death through 'bystander killing' where conventional ADCs rely on complex cell internalization processes that address primarily antigen-positive tumor cells

Efficacy that is not reduced by acquired resistance or immune destruction

Unique targeting mechanism maintains efficacy with outgrowth of resistant tumor cell populations with a peptide that cannot be recognized by the immune system

Unprecedented safety profile

Conversion of drug specifically in the TME with tumor concentration and optimal PK of released payload protects healthy tissues from exposure to the cytotoxic drug

Faster and less costly to manufacture

Up to 10x cost of goods savings with one rapid process to manufacture peptide drug conjugates compared to antibody-based drugs

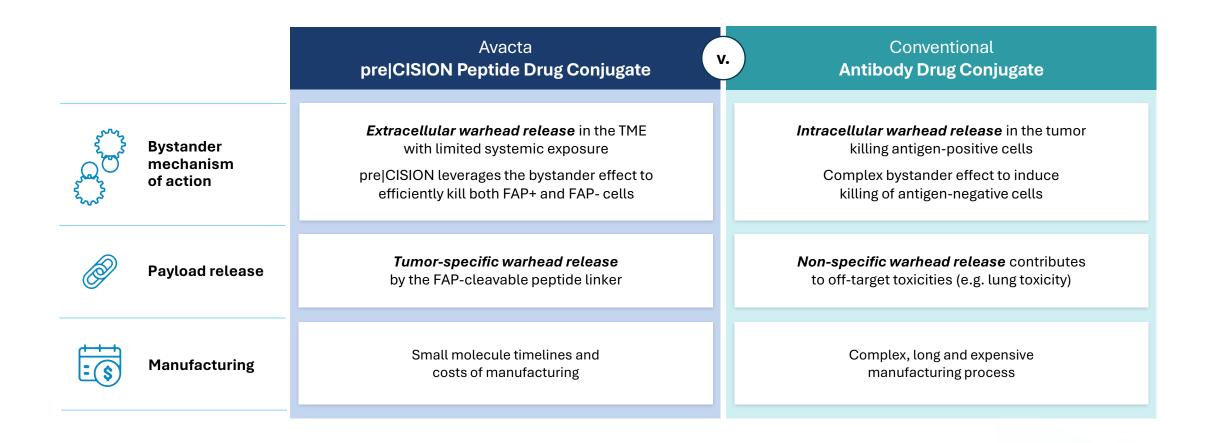


Avacta Therapeutics Pipeline

PROGRAM	PLATFORM/ WARHEAD	POTENTIAL INDICATIONS	PRECLINICAL	IND- ENABLING	PHASE 1	PHASE 2	MILESTONES
AVA6000	pre CISION Doxorubicin (FAP-Dox)	Head and Neck Cancers (HNSCC, Salivary gland Casubset) Dedifferentiated liposarcoma Breast cancer (TNBC/HER2+/HER2low)					Expansion FPI 2H 2024 Ph la/lb data 2Q 2025 (Full Ph I)
AVA6103	pre CISION Exatecan (FAP-Exd)	Triple negative breast cancer (TNBC) Gastric cancer (GC) Small cell lung cancer (SCLC) Pancreatic ductal adenocarcinoma (PDAC)					Candidate selection 2H 2024
AVA7100	pre CISION FAP Affimer (AffDC) Warhead not disclosed	Head and neck squamous cell cancers (HNSCC) Non-small cell lung cancer (NSCLC) Colorectal cancer (CRC)					Candidate selection 2H 2025



pre|CISION PDCs have key advantages over conventional ADC approaches





FAP-Dox: pre CISION-enabled doxorubicin

Phase 1 data readouts

AVA6000 Phase 1 trial design and patient population

PHASE 1: ARM 1 O3W iv 80 [54] **120** [81] **160** [108] 200 [135] **250** [169] 310 [209] 385 [260] [dox equivalent] N=4 N=6 N=8 N=4 N=7 N=6 (mg/m^2) Conventional dox escalated dose PHASE 2 [75 mg/m²] doxorubicin Efficacy assessment every 6 weeks Recommended dose for expansion (RDE) PHASE 1: ARM 2 (mg/m^2) O2W iv **160** [108] 200 [135] **250** [169] (mg/m^2) N=4 N=6 escalated dose doxorubicin

Efficacy assessment every 8 weeks

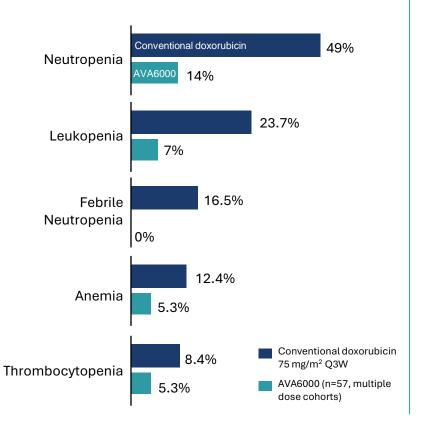
PATIENT POPULATION AND METHODS

- Patients with a diagnosis of known FAP-positive cancers, including sarcoma, pancreatic cancer, colorectal cancer, head and neck cancers
- The trial includes a mix of FAP-high (universal high expression) and FAP-mid cancer indications (heterogenous expression across patients)
- Prior therapy with any anthracycline was limited to total cumulative dose of less than 350 mg/m²
- Trial analyzed for safety (primary endpoint) and efficacy (secondary endpoint by FAP^{high} and FAP^{mid} cancer types)



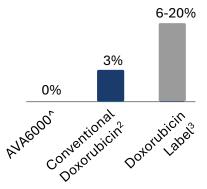
AVA6000 has reduced hematologic, cardiac and GI toxicities compared to conventional doxorubicin

AVA6000 reduces CTCAE Grade 3 or 4 bone marrow toxicity compared to conventional doxorubicin



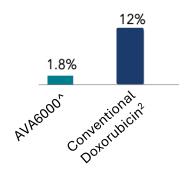
Severe cardiac toxicity

(cardiomyopathy/ cardiac dysfunction)¹



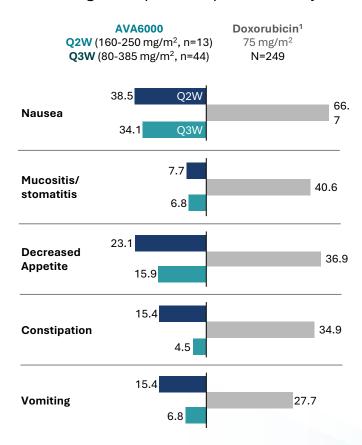
Mild cardiac toxicity

(left ventricular ejection fraction dysfunction)²

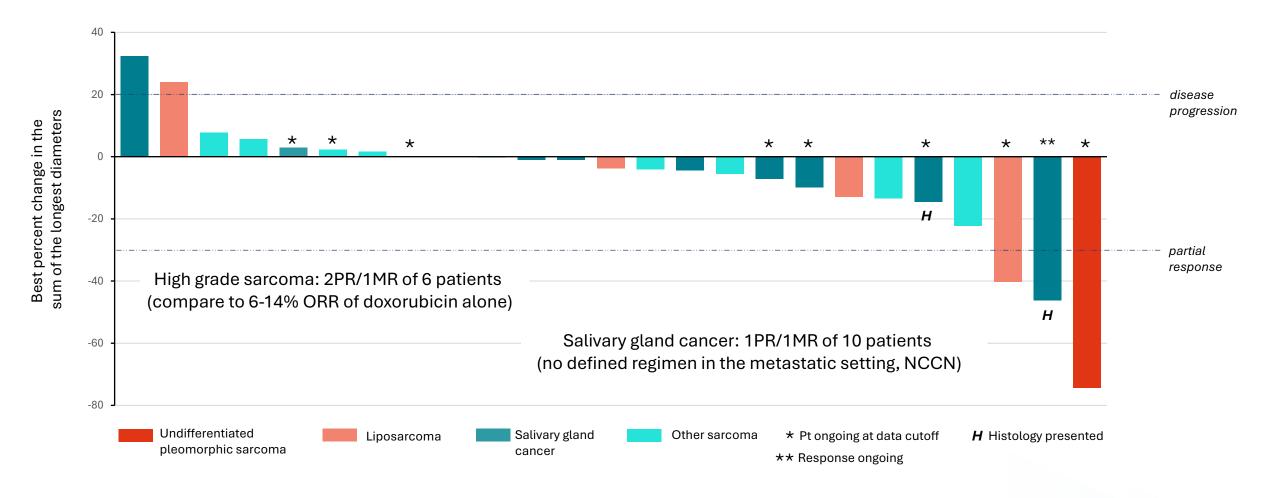


Reduced GI toxicity

comparing Q3W and Q2W shows both regimens preserve patient vitality

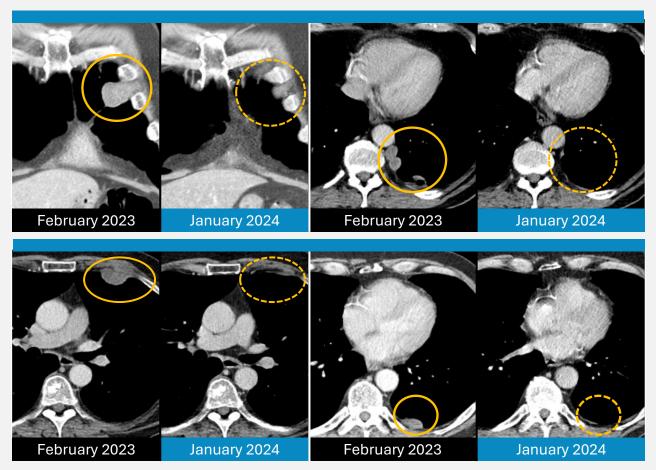


AVA6000 results in multiple RECIST responses among patients with FAP-high cancers





AVA6000: First case study highlights deepening **RECIST** response in treatment-resistance



Near complete resolution of the multiple pleural metastases

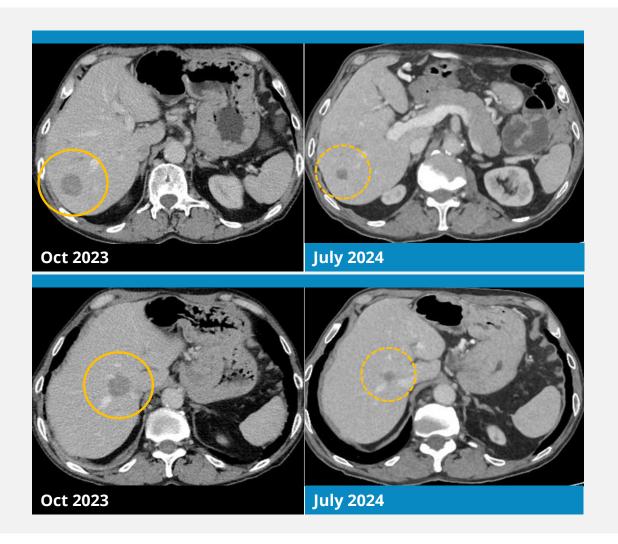
- 60-year-old male patient diagnosed with a high grade undifferentiated pleomorphic sarcoma (UPS)
- Treated initially with local control measures (surgery and radiation)
- Upon developing metastatic disease, he enrolled in in an immunotherapy clinical trial for 6 months until he experienced disease progression
- He then enrolled in the AVA6000 phase 1 trial in Feb 2023. Deep partial response, duration of response >55 weeks (data cutoff 19 Aug 2024)

Response continued to deepen over the course of treatment with AVA6000

Banerji et al. 2024 AACR Annual Meeting, April 2024; Twelves et al. ESMO Annual Meeting, Sept 2024

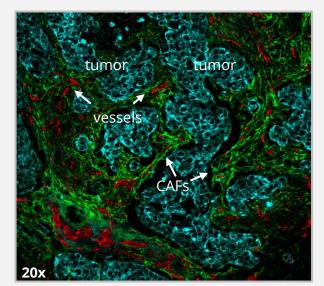


AVA6000: Second case study highlights response with FAP-negative tumor cells



Durable RECIST response in the setting of FAP-negative tumor cells

- 79 yo male with SGC (ductal histology). Prior therapy: triptorelin/ bicalutamide followed by disease progression
- Enrolled in the AVA6000 trial (Oct 2023) in the 385 mg/m2 Q3W cohort; highest level of intratumoral doxorubicin of any patient at 24 hours postdose
- Confirmed partial response at 12 weeks; duration of response >18 weeks. Pt discontinued after reaching lifetime max of doxorubicin exposure; PR continuing in follow-up



Tumor cells are negative for FAP (aqua)

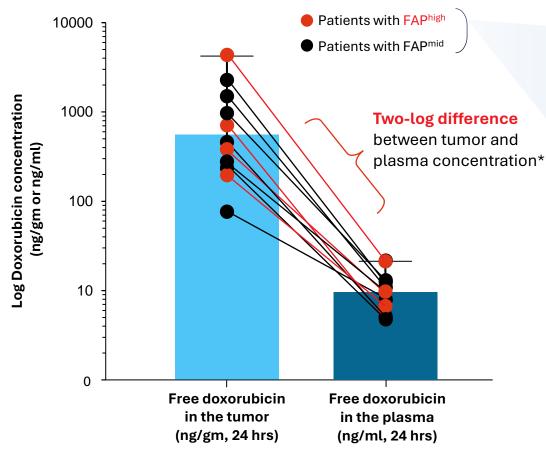
FAP-positive Cancer Associated Fibroblast (CAF) populations (green) at the tumor-stroma interface with vessels co-localized in stroma (red)

- PanCK (tumor)
- CD31 (blood vessels)
 - FAP (CAFs)



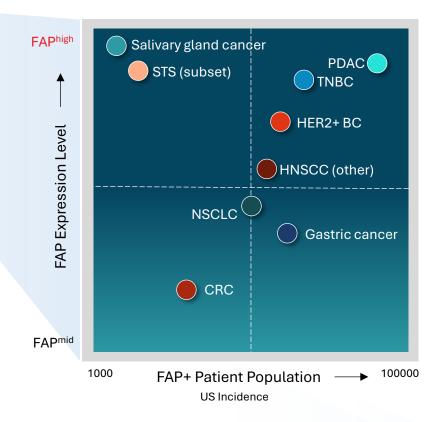
Concentration of doxorubicin in the tumor regardless of FAP level opens multiple indications





*In contrast, traditional ADC have reported 3-8x concentration in the TME Baneriji et al. 2024 AACR Annual Meeting

Patient Populations Addressable by pre|CISION technology (with other payloads)



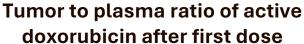
CRC: colorectal cancer, HNSCC: squamous cell cancer of the head/neck, PDAC: pancreatic ductal adenocarcinoma, NSCLC: non-small cell lung cancer, TNBC: triple negative breast cancer

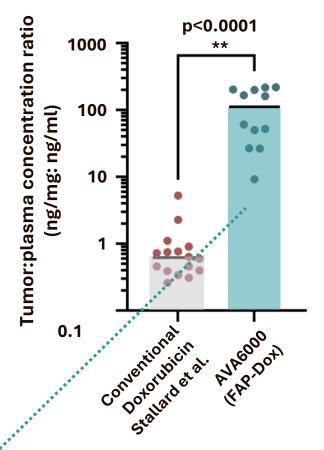


Conventional doxorubicin demonstrates limited concentration in the TME

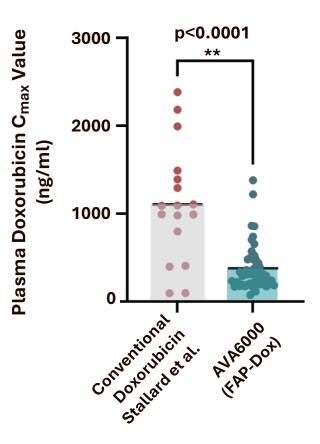
- The tumor concentration data with AVA6000 at 24 hours post-dose is compared with conventional doxorubicin at 1 hour post-dose, with a published study of tumor exposure with doxorubicin (25 mg flat dose)
- The ratio of tumor to plasma doxorubicin with conventional dosing is approximately 1 vs. 100 with AVA6000
- In parallel, the median Cmax of conventional doxorubicin in this study is higher than that observed with AVA6000

AVA6000 concentrates doxorubicin in the TME at 24 hours post-dose





C_{max} of doxorubicin following first dose



Tumor:plasma doxorubicin concentrations compared between the Br Ca trial and AVA6000 trial where the BC trial (1 hr post-dosing, 25 mg dose) and AVA6000 trial (24 hr post-dosing), median ratio indicated. Conventional dox assessed with early biopsy timepoint (~1 hour post-dose) but after Tmax (20 min) where variability of tumor: plasma very high. Cmax of both conventional doxorubicin and released doxorubicin compared. Stats per Mann Whitney U test.



[^]Stallard et al. 1990. Distribution of doxorubicin to normal breast and tumour tissue in patients undergoing mastectomy. Cancer Chemother Pharmacol. 1990;25(4):286-90. doi: 10.1007/BF00684887~

Pre|CISION enabling results in four fundamental PK changes with doxorubicin

Reduced plasma exposure with released doxorubicin

Released doxorubicin from AVA6000 has a lower plasma Cmax (77.9-92.5% reduction) and lower AUC (4.8-77%) across dose levels

Enhanced tumor exposure v. conventional doxorubicin

Tumor exposure to released doxorubicin is higher at 24 hours than that seen with conventional doxorubicin at 1 hour (100:1 v. 1:1)

pre|CISON peptide 3 doxorubicin

Significant reduction in the volume of distribution of released doxorubicin

Released doxorubicin from AVA6000 demonstrates a 40% reduction in the volume of distribution v. conventional dose doxorubicin

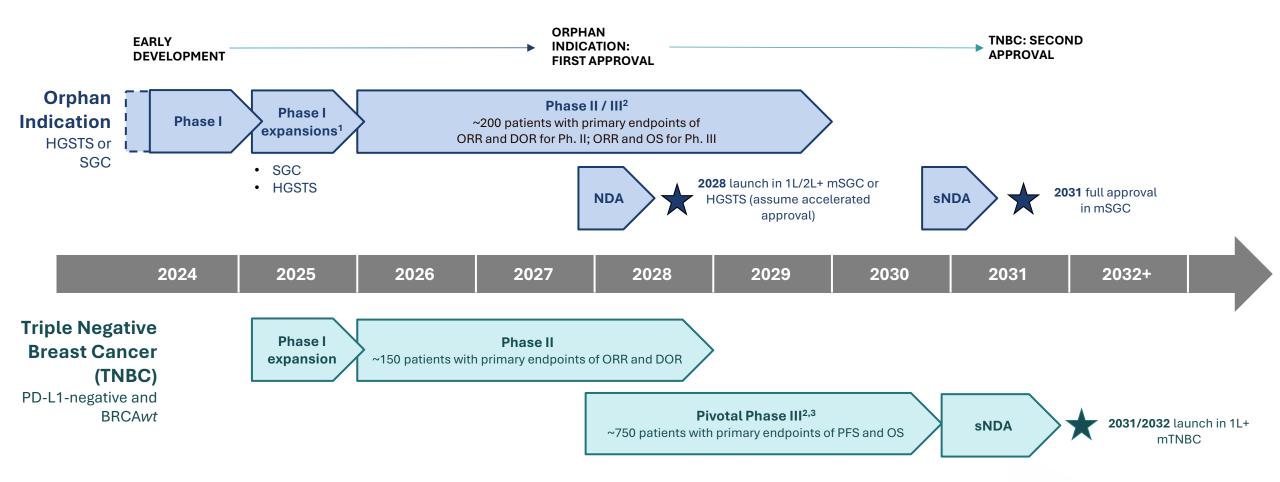
Extended plasma half-life of released doxorubicin

The plasma half-life of released doxorubicin is extended by up to 40% compared to conventional doxorubicin

pre|CISION-enabled doxorubicin has extended tumor exposure with limited plasma and normal tissue exposure, suggesting a sustained release mechanism can be developed



AVA6000 Clinical Development: Rapid route to market in orphan indication with TNBC to expand the label



¹Proposed indications include the three solid tumor types with FAP expression and demonstrated activity of doxorubicin: salivary gland cancer (SGC), high grade soft tissue sarcoma (HG-STS), and breast cancer (the TNBC subset). Phase I expansion will include 1L/2L mSGC, 1L/2L HG-STS and up to 3L PD-L1 negative 1L+ mTNBC patients; ²Proposed clinical trial lengths were based on comparable trials testing ADCs in oncology (e.g., Phase I/II: NCT03742102 / NCT01848834 / NCT02447003 and Phase III: NCT02574455 / NCT02819518, CT.gov references); ²Phase III trial initiation may occur before completion of Phase I/II



FAP-EXd: pre CISION-enabled exatecan

Peptide Drug Conjugate

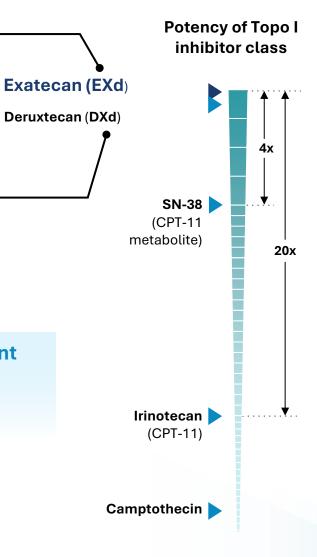
Exatecan is an ideal payload for the next evolution of the pre|CISION platform

Exatecan (EXd) is the most potent topo I inhibitor with single agent activity in Ph 2 trials in several key FAP-positive indications (breast, gastric, small cell lung cancer)

Deruxtecan (DXd) has similar potency but lower membrane permeability compared with exatecan (EXd) and is a highly successful ADC warhead

 When attached to trastuzumab (EnhertuTM), the only ADC shown to have significant bystander effect or anti-TROP1 (DATO-DXd)

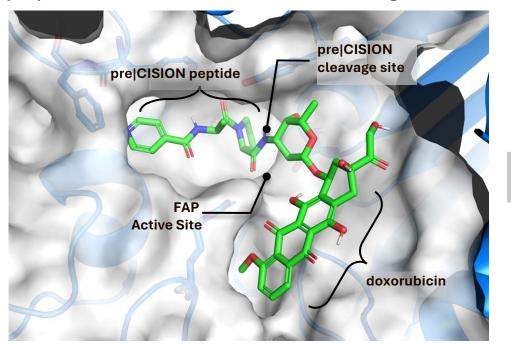
- Exatecan failed in the clinic due to a limited therapeutic index and significant PK issues
 - Short half-life of ~9 hours which is insufficient for the effective inhibition of the topoisomerase I enzyme
 - The evolution of the preCISION platform chemistry can optimize both therapeutic index as well as the PK liability



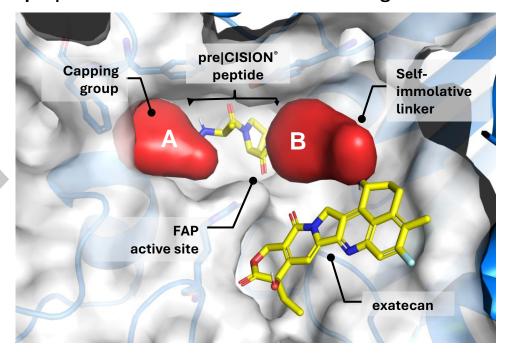


Two key chemistry advances optimize exatecan delivery to create AVA6103

pre|CISION-Doxorubicin in the FAP Docking Model



pre|CISION-Exatecan in the FAP Docking Model

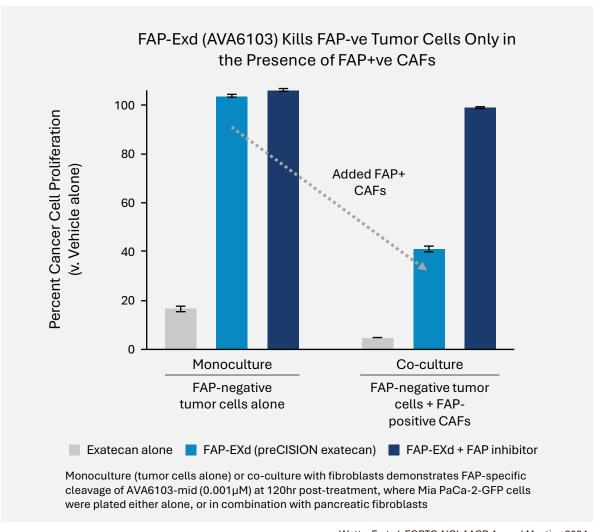


Extended plasma PK (A) of the conjugate and slowed warhead release (B) will result in a sustained release delivery mechanism in the tumor with very limited systemic exposure





FAP-EXd (AVA6103): Effective killing of FAP-negative tumor cells in the bystander assay

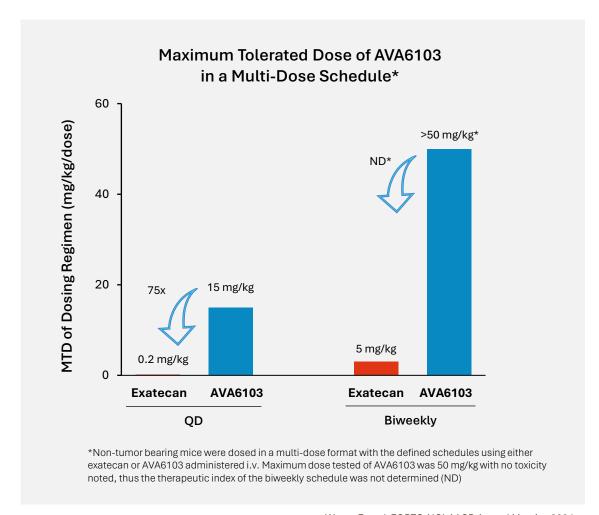


- In a bystander effect model, pancreatic cancer cells (PDAC, FAP-negative) were tested alone (monoculture), or in combination with FAP+ pancreatic fibroblasts (co-culture)
- FAP-EXd exhibits no activity in monoculture (PDAC, FAP-negative)
- With the addition of FAP-positive fibroblasts, FAP-EXd is cleaved by FAP to release exatecan, greatly reducing cancer cell proliferation (co-culture)
- The bystander effect is achieved with FAP-negative tumor cell death





Therapeutic Index: The MTD of AVA6103 Is 75-fold higher than that of conventional exatecan

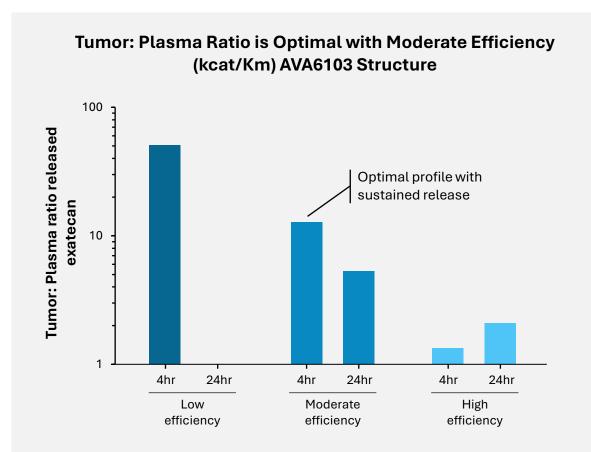


Watts, E et al. EORTC-NCI-AACR Annual Meeting 2024

- Frequent exatecan dosing in prior clinical trials was designed to optimize inhibition of the topoisomerase I enzyme
 - More frequent dosing to extend the inhibition of the topo I enzyme for a prolonged (>24 hr) period was toxic in the clinic
 - Activity was observed in the clinic with the QDx5 regimen
- To demonstrate the MTD of AVA6103, the molecule with the mid level of FAP efficiency (kcat/Km) was selected (AVA6103-mid)
- Dosing in the QD regimen was limited at 15 mg/kg (AVA6103) compared to the MTD of exatecan alone is $0.2 \, \text{mg/kg}$



Complete Regression of the Aggressive HEK-hFAP Tumors with FAP-EXd (AVA6103)



Released (free) exatecan warhead present intratumorally versus plasma concentration is plotted in a ratio at 4hr and 24hr when treating with three different compounds with different kcat/Km value in a patient derived xenograft (PDX) model

Complete Regression with FAP-EXd Dosing in Established **HEK-hFAP Tumors** — Vehicle 2.5 - FAP-EXd (AVA6103, at MTD, s.c.) Mean tumor volume (cm³) Exatecan (at MTD, s.c.) 2.0 1.5 1.0 FAP-EXd leads to complete regressions 0.5 30 15 20 35 50 Days after tumor inoculation FAP-EXd (AVA6103) was dosed in animals bearing established HEK-FAP tumors (100 mm³ tumor size at dosing). HEK-hFAP is a highly aggressive tumor model engineered to expressed human FAP



Watts, E et al. EORTC-NCI-AACR Annual Meeting 2024

AVA6103: Phase 1 basket trial in indications with FAP expression and Topo I inhibitor sensitivity

	Triple Negative Breast Cancer (TNBC)	Gastric Cancer (GC)	Pancreatic Ductal Adenocarcinoma (PDAC)	Small Cell Lung Cancer (SCLC)
FAP Expression [^]	High stromal content with 50% weak and 50% strong FAP staining	High stromal content with 50% weak and 50% strong FAP staining	Very high stromal content with >80% strong FAP staining	Higher stromal content associated with poor prognosis
Topol Inhibitor Activity^	T-DXd and exatecan (Ph 2) single agent responses	T-DXd and exatecan (Ph 2) with single agent responses	Irinotecan with activity in multiple regimens used in standard practice	Topotecan with single agent activity in this disease setting compared with CAV
Unmet Need	Monotherapy chemotherapy generally used in the PD-L1-ve setting with unmet need	Irinotecan with some activity, indication primarily sees combination chemotherapy in 1L	High unmet need; few agents approved	CPI with approvals New agents opportunity available

[^]Indication selection will be informed by our collaboration with Tempus AI using real-world data evidence of FAP expression and Topo I sensitivity



AVA6103 Clinical Development Planning

		EARLY DEVELOPMENT			
		PHASE 1: DOSE ESCALATION	PHASE 1: EXPANSION COHORTS	PHASE 2 and 3 TRIALS	LIFE CYCLE ADDITIONAL INDICATIONS
	Timing	Ph I escalation Initiating ~Q1 2026	Ph I expansions Initiating Anticipated Q1 2027	Anticipated 2027/2028	Post-approval planning
0	Trial Designs	Two dose escalation arms: Monotherapy dose escalation in basket trial with 4 FAP-positive indications: TNBC, Gastric Ca, PDAC, SCLC	Initiate RDE cohorts to assess disease-specific safety and efficacy parameters Expansions in disease-specific cohorts to begin in 2H 2026 AVA6103 Monotherapy	Phase 2 trial of AVA6103 in selected indication based on results in expansion cohorts with Phase 3 to enroll in staggered timing Ideally in an indication with high unmet need (multiple options)	Topo I mechanism is relevant in multiple disease settings with FAP expression and further indications can be added following the initial approval of AVA6103
	Rationale	Dose escalation proceeds to define the RDE at the Q3W schedule	RDE Expansions in indications with high FAP expression and sensitivity to the topo I inhibitor MOA	AVA6103 is indicated for the treatment of patients with FAP+ and topo I sensitive disease – selection of initial indication for approval based on expansion cohorts	Multiple options for further development of FAP-EXd – selection will be based on data observations in the Phase 1 and expansions



pre|CISION Biologic Drug Conjugates:

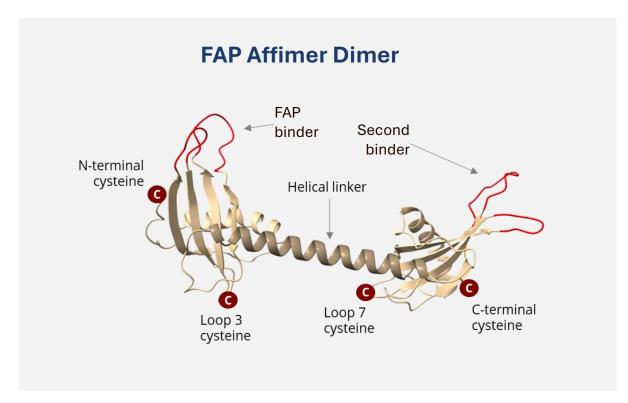
Affimer Drug Conjugates

pre CISION Affimer Diug Conjugate: Mechanism of Action pre|CISION FAP Affimer peptide Released Payload (extracellular) **FAP** CAF Tumor-specific and membrane-bound protease expressed in the CAF population (cell membrane) Released CAF Payload (intracellular) (intracellular space)

Affimers are engineered to optimize payload conjugation and delivery

FAP Affimer Drug Conjugate Engineering Steps

- FAP binders were selected for AVA7100 program inability to internalize and lack of FAP enzyme inhibition
- Affimer dimers have one or two binding specificities (e.g., FAP and albumin) to bind a TME antigen and extend PK
- Engineer the desired Affimer binding affinity with known ranges of ~10nM (monomer) to 10pM (dimer with one target antigen)
- Cysteines are engineered into 4 locations in an **Affimer dimer** to enable a DAR of 4:1 with a size that is 1/5th of an antibody



AlphaFold Structure of a FAP Affimer Dimer with engineered cysteines

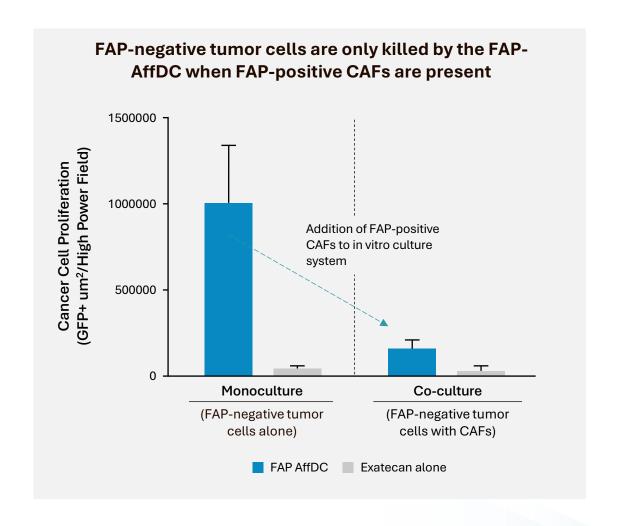
Nobel prize winning predictive algorithm for protein structure modeling (Nobel prize awarded October, 2024)



FAP AffDC kill tumor cells only when FAP+ CAFs are present

FAP expression in CAFs Predicts for Response in FAP-negative Tumor Models

- The cytotoxic activity and bystander effect of the FAP pre|CISION Affimer DC (AffDC) were demonstrated in a bystander effect in vitro study with FAP-positive CAFs and FAP-negative pancreatic tumor cells (PDAC)
- FAP AffDC are capable of killing FAP-negative tumor cells only when FAP-positive CAFs are present. In the absence of the CAF population, the FAP AffDC are inert
- The FAP AffDC only exhibits cytotoxic activity against the FAP-negative PDAC cancer cell line when FAP-positive CAFs are present





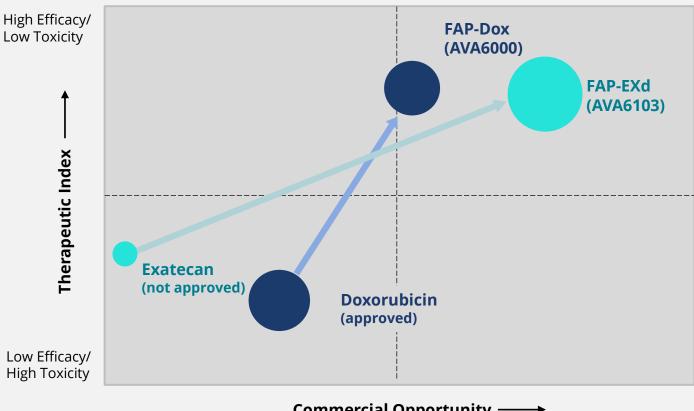
Seizing the market opportunity: Payloads as a commercial success

pre|CISION®-enabling results in a significant increase in the therapeutic index for doxorubicin with three potential indications

Exatecan has a very challenging therapeutic index, severe toxicities that limits dosing and a short half life, however there is robust evidence for monotherapy activity

We expect FAP-EXd (AVA6103) to be highly active in a number of indications where there is observed activity of other topoisomerase I inhibitors (e.g. breast cancer, gastric, small cell lung cancer)

We believe that pre|CISION-enabling can transform this pavload (exatecan) to a highly successful anti-cancer drug



Commercial Opportunity -

Size of bubble represents the estimated absolute patient number in the addressable population with Multiple, planned approvals in the clinical development planning tools

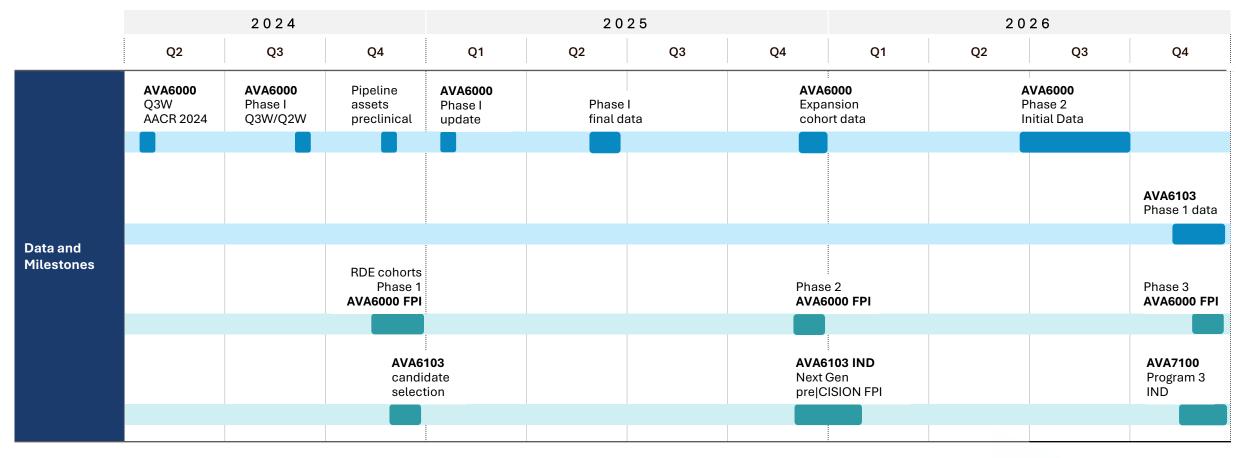


Avacta Therapeutics: Milestones and Highlights

Program	Corporate Milestone				
	Complete Q3W Dose escalation trial	~			
	Initiate Q2W Dose Escalation	~			
AV/AC000	Orphan Designation in Soft Tissue Sarcoma	~			
AVA6000 pre CISION FAP-enabled doxorubicin	Presentation of Q3W Dose Escalation Results (AACR 2024)	~			
uoxorubiciii	Identify RDE and Open Phase 1b Expansions in 3 Indications	2H 2024			
	Present Full Dose Escalation Results	2Q 2025			
	Phase 2 Trial in Selected Indication	2H 2025			
Pinalina assats: prolCISION	Candidate Selection of pre CISION FAP-EXd (AVA6103) program	2H 2024			
Pipeline assets: pre CISION	FAP Affimer pre CISION drug conjugate (AffDC, AVA7100) candidate selection	2H 2025			
Pipeline, including Affimer Drug Conjugate	Full Pipeline revealed	~			



Avacta: Data Outputs and Milestones









Seizing the market opportunity: Strong Intellectual Property (IP) position and laser focus

Strong IP Position

Avacta has exclusive rights to the pre|CISION® and the Affimer® technology, including the collective IP of each individually and the combined franchise

Laser Focus on Tx

Avacta is focused on the transition to a pure-play therapeutics Company, leveraging the clinical success of the pre|CISION ® platform technology

Broad Applicability

Avacta's pre|CISION technology has the potential to address many solid tumor indications with high unmet need, with a substantial market opportunity

Strong CMC Position

Our significant learnings in manufacturing has led to new IP and knowhow in the platform and opens up larger trials with enhanced drug supply



AVACTA THERAPEUTICS