

A large, stylized teal geometric graphic is located on the left side of the slide. It consists of several overlapping triangles and polygons in various shades of teal, creating a sense of depth and movement. The graphic points towards the right, aligning with the main text.

**Expanding the reach of highly  
potent cancer therapies**

July 2025

# 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 Therapeutics: Pioneering a novel, differentiated class of pre|CISION<sup>®</sup> medicines to revolutionize drug delivery



## Innovative pre|CISION<sup>®</sup> Platform

- **pre|CISION<sup>®</sup>** targets delivery of payload directly in the tumor, sparing healthy tissue
- **pre|CISION<sup>®</sup>** repurposes a range of oncology drugs to significantly reduce toxicity/ side effects for patients
- Very significant market opportunity: **~90% of solid tumors potentially treatable**
- Leveraging AI to capture the full market opportunity in both wholly owned and partnered medicines and drive smarter trials



## The pre|CISION<sup>®</sup> Pipeline

- **AVA6000 (FAP-Dox)** Phase I completed: **dramatic reduction in toxicities** and **encouraging clinical activity** in salivary gland cancer (SGC) and high-grade soft tissue sarcoma (HG-STS). Initial data in expansion cohorts late in 2025 in SGC, HG-STS and triple negative breast cancer
- **AVA6103 (FAP-EXd)**: Innovative chemistry creates a **pre|CISION<sup>®</sup>-enabled sustained release delivery** of the potent topo I inhibitor exatecan directly in the tumor with planned Phase 1 start in 1Q 2026



## Company Positioning

- **AIM-listed** (#AVCT) pure-play oncology therapeutics company with new management and cash runway into Q1 2026 following the divestment of the diagnostics division
- Exploring opportunities for a potential dual listing on NASDAQ
- Experienced management team, located in both London and US
- Intention to explore licensing and partnering opportunities. Avacta is seeking a partnership to develop AVA6000

# The Avacta Leadership Team: Proven Track Record



**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.



**Brian Hahn,  
MBA**

**Chief Financial Officer**

Brian has >25 years of senior financial and operations experience in biopharma, including 15 years as CFO of GlycoMimetics, Inc., where he led the company's 2014 IPO on Nasdaq. He serves as co-chairman of the BIO Finance and Tax Committee, and has also served on the SEC Advisory Committee on Small and Emerging Companies.



**David Liebowitz,  
MD, PhD**

**Chief Medical Officer**

David is a hematologist-oncologist who trained at the University of Chicago and Emory University with >30 years of industry experience. He was previously SVP of early-stage clinical development at Inovio Pharma and held senior roles including CMO at Xencor, Vaxart, and Amgen.



**Yulii Bogatyrenko**

**Advisor, Business  
Development**

Yulii is a Principal at Biopharma C&I, leading BD efforts for Avacta. Previously, he held senior level positions in business development and commercial, including having led multiple global drug launches, and numerous industry partnerships at Pfizer/Wyeth, Bayer Healthcare and Teva Specialty Pharmaceuticals.



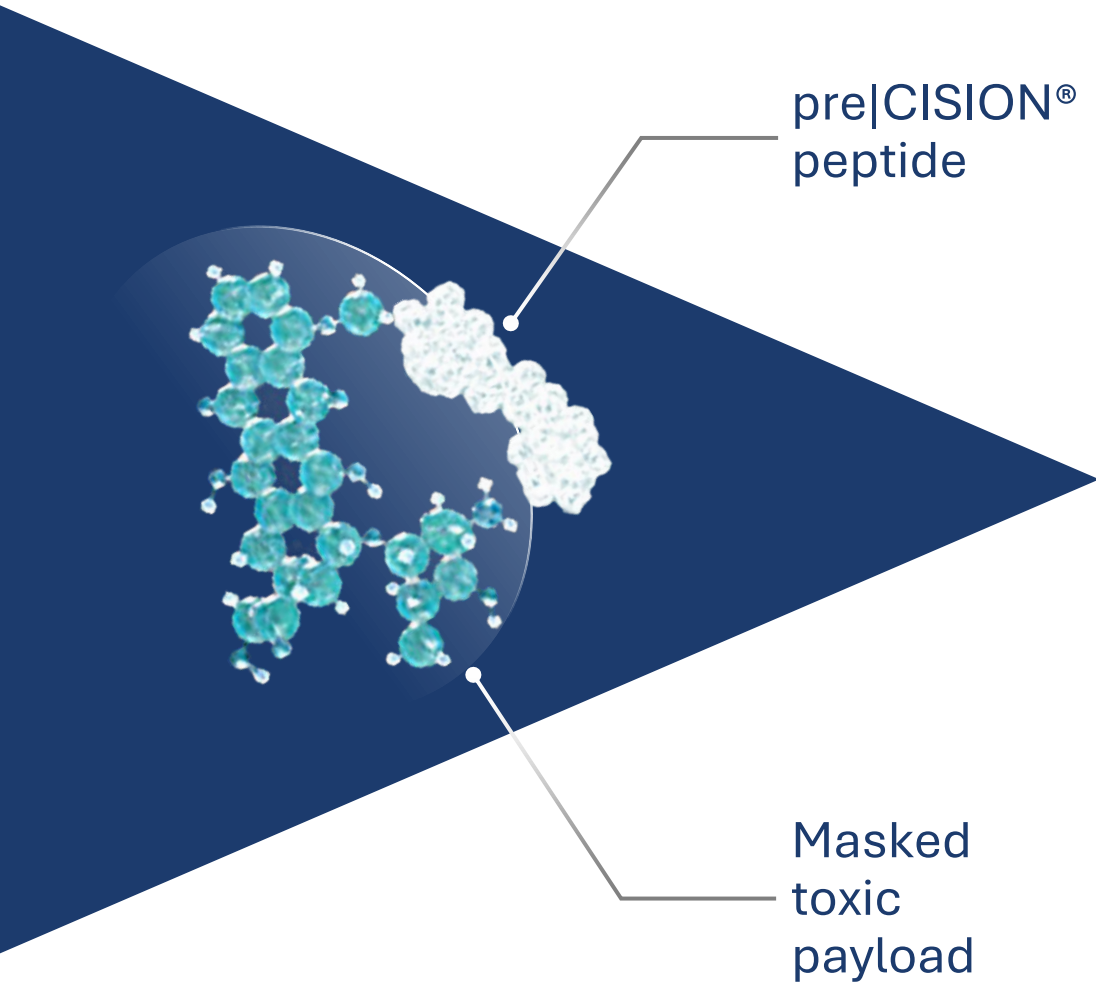
**Michelle Morrow,  
PhD**

**Chief Scientific Officer**

Michelle has >17 years of experience 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.



# pre|CISION<sup>®</sup>: FAP-Activated Drug Delivery Platform

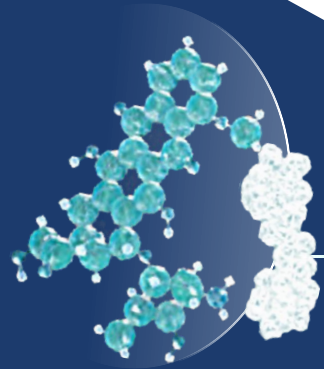


**Silent in the bloodstream.  
Active in the tumor.**

Drug release is triggered *ONLY* at the tumor site by FAP, a protein found in tumor-supporting cells

FAP: Fibroblast activation protein

# The pre|CISION<sup>®</sup> Peptide Masks the Toxic Effects of Cancer Drugs and Releases the Active Drug Directly in the Tumor



pre|CISION<sup>®</sup>  
peptide

MASKED  
Toxic payload

Masks the  
toxic effects of  
a **payload** in the  
tissues

Tumor-specific  
**payload release** with  
the FAP enzyme via the  
bystander effect

Enhances the tumor  
**exposure of payload**  
while limiting the  
blood exposure

**Enables  
prolonged treatment**  
beyond that permitted with  
conventional therapy which translates  
to enhanced survival

# FAP-Dox (AVA6000): Phase 1 Trial Delivers Key Findings



**FAP-Dox eliminates the severe cardiac toxicity of doxorubicin**

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**6-20% cardiac tox v. 0%**



**Dramatically reduces hematologic and GI toxicities of doxorubicin**

---

**Limited severe neutropenia**



**Concentrates released doxorubicin in the tumor 100-fold over plasma**

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**100:1 tumor concentration**



**Evidence of preliminary activity in salivary gland cancer and sarcoma**

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**Encouraging activity**

**Phase 1 Trial shows benefits over conventional doxorubicin**

# Succeeding where others have failed with FAP Targeting

**Traditional**  
FAP Targeting methods  
have limited success  
*via passive targeting*

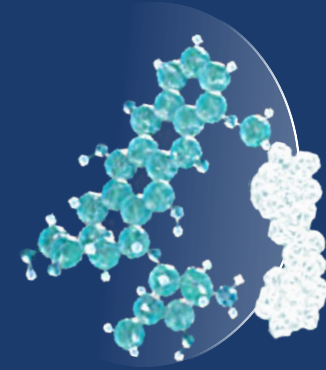


These methods only  
target the cancer  
associated fibroblasts,  
**leaving tumor cells  
untouched**

**Avacta's pre|CISION**  
FAP Targeting methods  
having tremendous success  
*via direct targeting*



By leveraging the **Bystander Effect**  
**pre|CISION medicines will**  
successfully target & kill cancer  
associated fibroblasts, and **kill**  
**FAP-negative tumor cells**



pre|CISION leverages FAP to  
activate the drug by cleaving the  
peptide in the tumor

**FAP Radiotherapeutic  
approaches** also leverage the  
bystander effect to kill tumor cells



# The pre|CISION<sup>®</sup> Mechanism of Action: The Bystander Effect

Tumor: Stroma  
Interface

Peptide drug conjugate  
*cannot enter cells*

Tumor cell  
*intracellular space*

Released  
payload

peptide

Released (free) payload  
*enters FAP- tumor or FAP+ CAF cells*

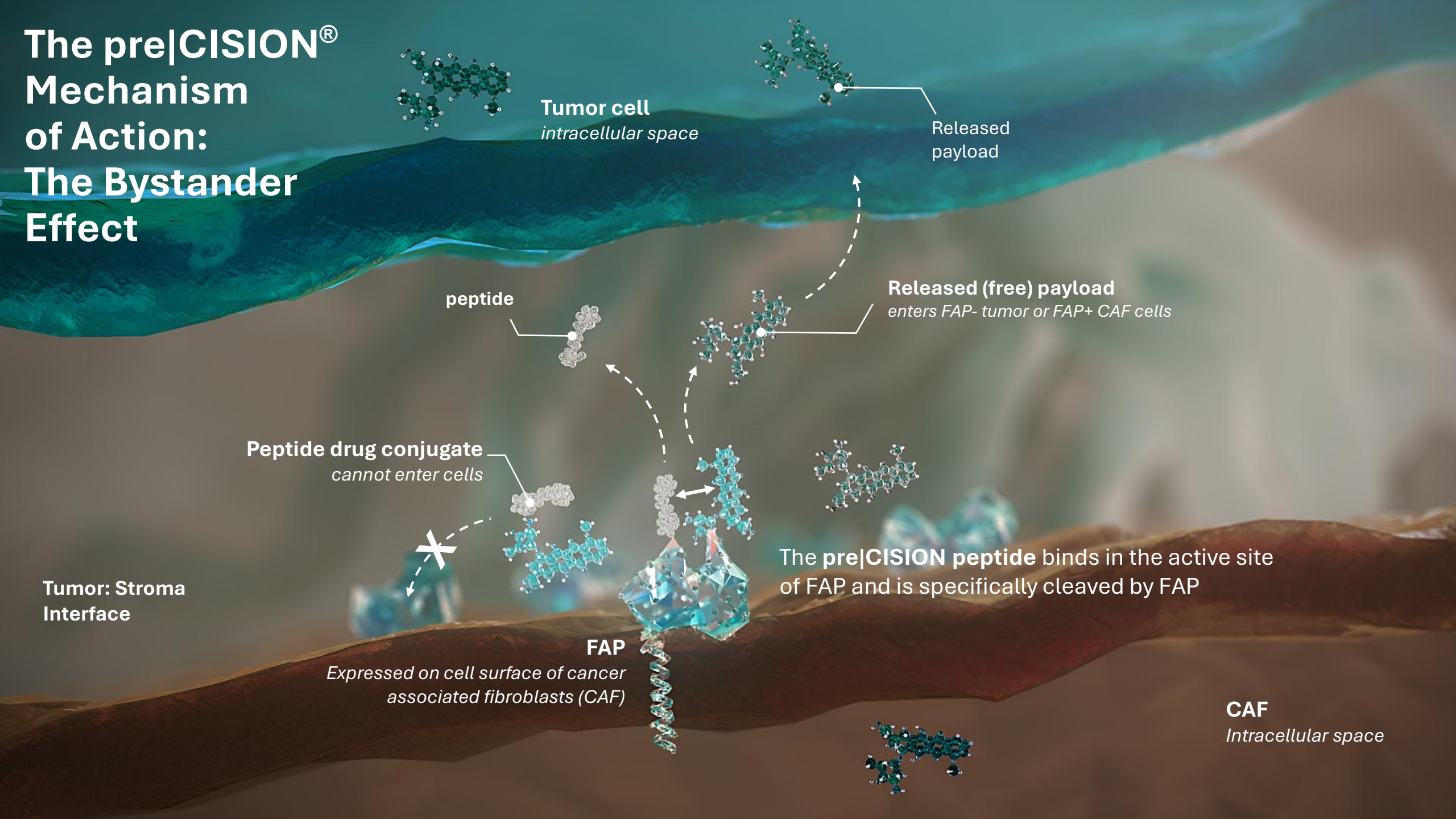
The pre|CISION peptide binds in the active site  
of FAP and is specifically cleaved by FAP

FAP

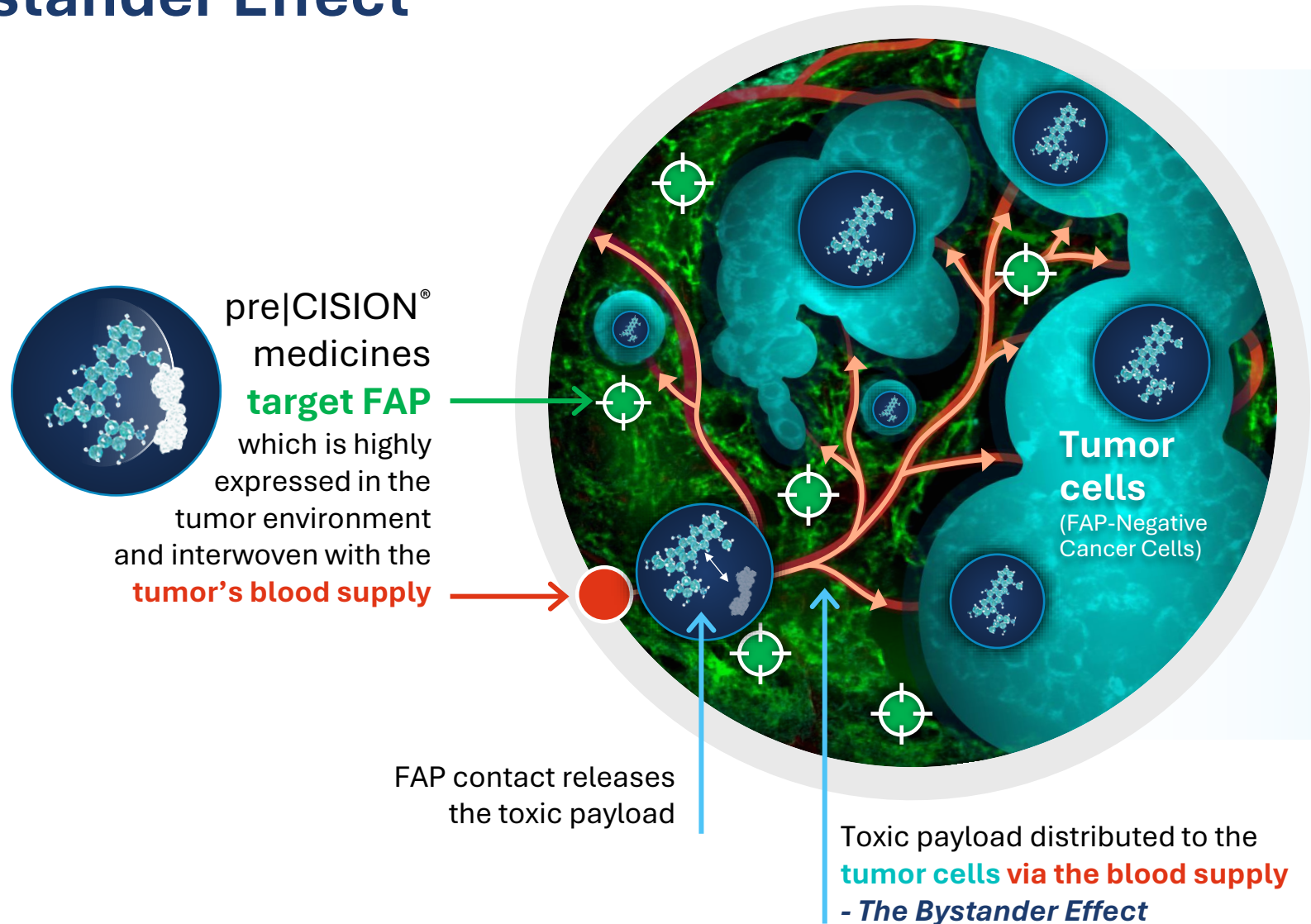
*Expressed on cell surface of cancer  
associated fibroblasts (CAF)*

CAF

*Intracellular space*



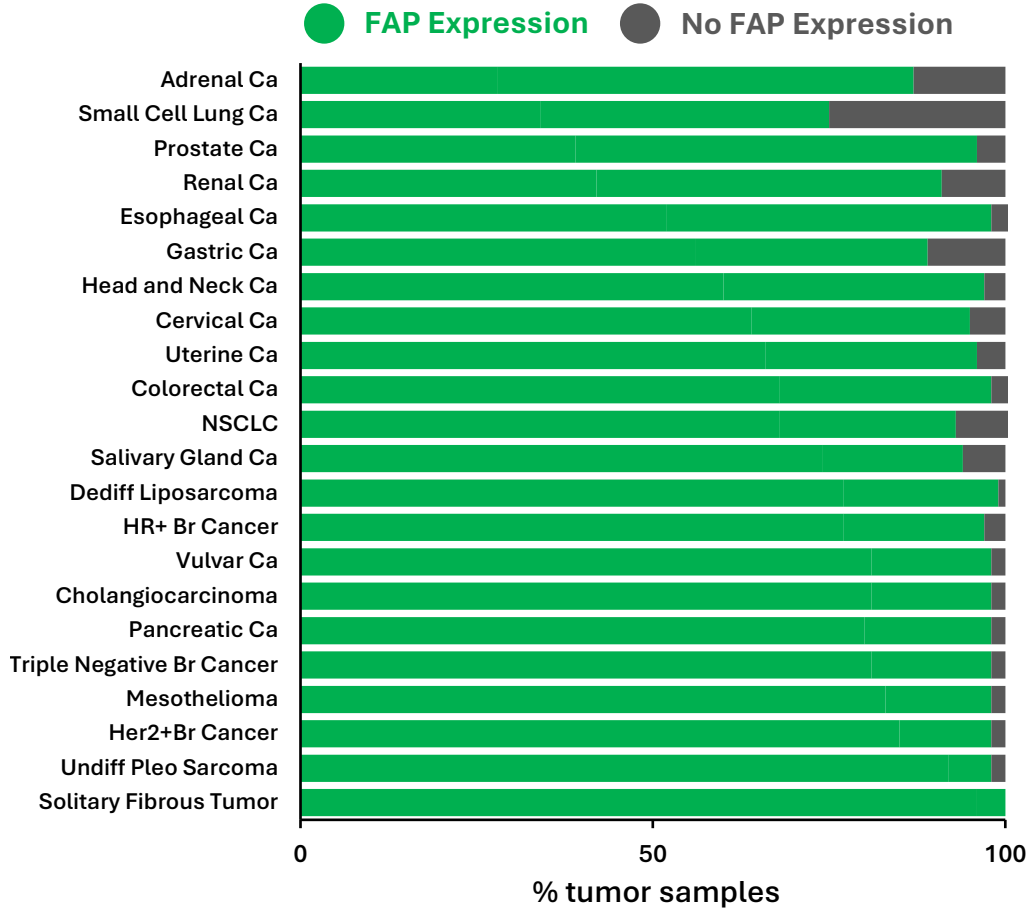
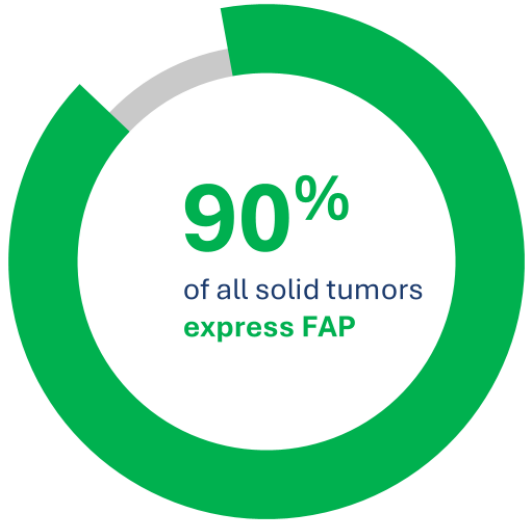
# The pre|CISION<sup>®</sup> Bystander Effect



**Leveraging FAP in the tumor environment represents a new approach to deliver toxic payloads to the tumor and spare healthy tissue**

# Widespread FAP Expression Across Tumors

## Supports Broad pre|CISION® Platform Market Opportunity



### "TEMPUS

Collaboration

Avacta's first two medicines have the **potential to impact over a million lives per year**

# FAP-Dox (AVA6000): pre|CISION-enabled doxorubicin

Phase 1 results and path forward

# Rationale for Doxorubicin as the First pre|CISION® Payload

1

Doxorubicin is an **approved oncology drug** with a prolonged half life of 35 hrs & known activity in 3 solid tumor indications:

1. Breast cancer
2. Soft tissue sarcomas
3. A subset of head & neck cancer, and salivary gland cancer

2

Higher lifetime doses of Doxorubicin cause severe **cardiomyopathy** (known rate of 6-20%).

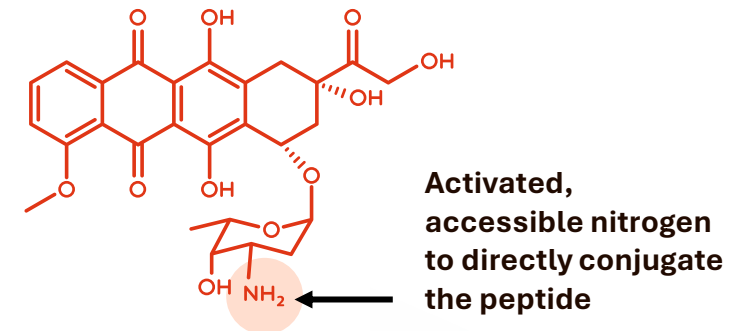
**Limits dosing in the clinic**

Successful implementation of pre|CISION w/ Doxorubicin **should severely reduce or eliminate this toxicity**

3

The **early chemistry** of pre|CISION required an **activated & accessible nitrogen** to link the peptide which does not occur in most drugs

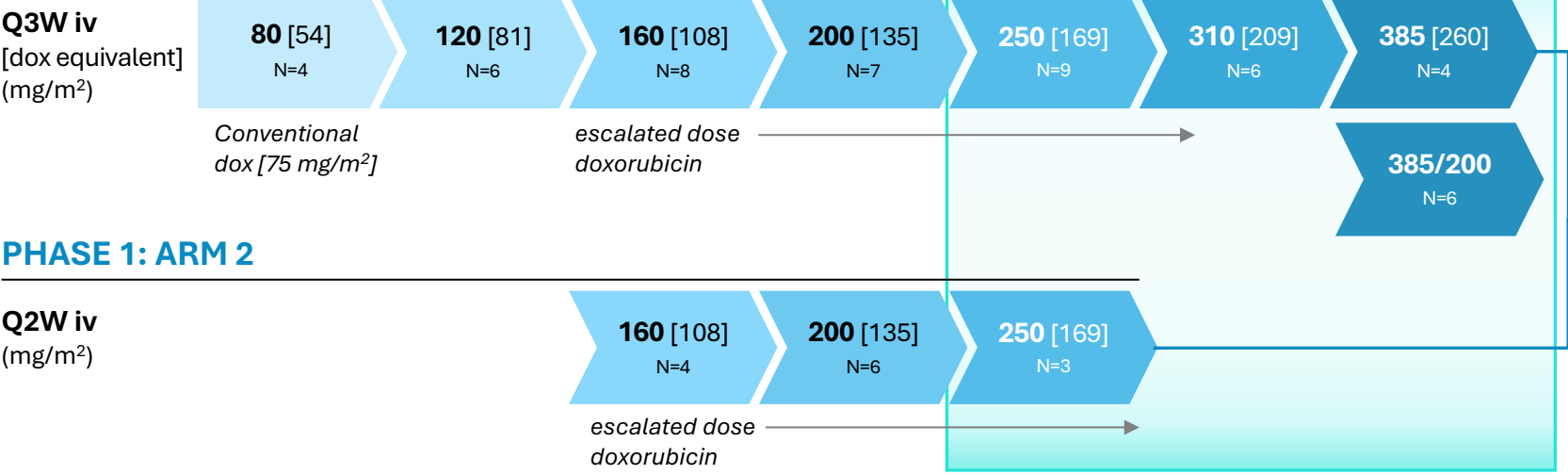
**Doxorubicin chemical structure**





# FAP-Dox (AVA6000) Phase 1 Trial Design and Patient Population

## PHASE 1: ARM 1



## EXPANSION COHORTS (PHASE 1B)

**Triple Negative Breast Cancer**  
PD-L1-negative, BRCAwt

**High-grade Soft Tissue Sarcoma**  
(UPS,DDLPS, 1L/2L)

**Salivary Gland Cancer**  
(SGC), any histology, 1L/2L

## PHASE 1 DOSE ESCALATION: PATIENT POPULATION AND METHODS

- |  |  |   |  |
|--|--|---|--|
| <b>Patients</b><br>FAP-positive cancers including: <ul style="list-style-type: none"><li>• Sarcoma</li><li>• Pancreatic</li><li>• Colorectal</li><li>• Head &amp; neck</li></ul> | <b>Expression levels</b> <ul style="list-style-type: none"><li>• FAP-high (uniform expression)</li><li>• FAP-mid (heterogeneous)</li></ul> | <b>Anthracycline limits</b> <ul style="list-style-type: none"><li>• Prior <math>\leq 350</math> mg/m<sup>2</sup></li><li>• Trial max <math>\leq 550</math> mg/m<sup>2</sup></li></ul> | <b>Primary Endpoint</b> <ul style="list-style-type: none"><li>• Safety (primary)</li></ul> <b>Secondary Endpoint</b> <ul style="list-style-type: none"><li>• Efficacy by FAP level (secondary)</li></ul> |
|--|--|---|--|

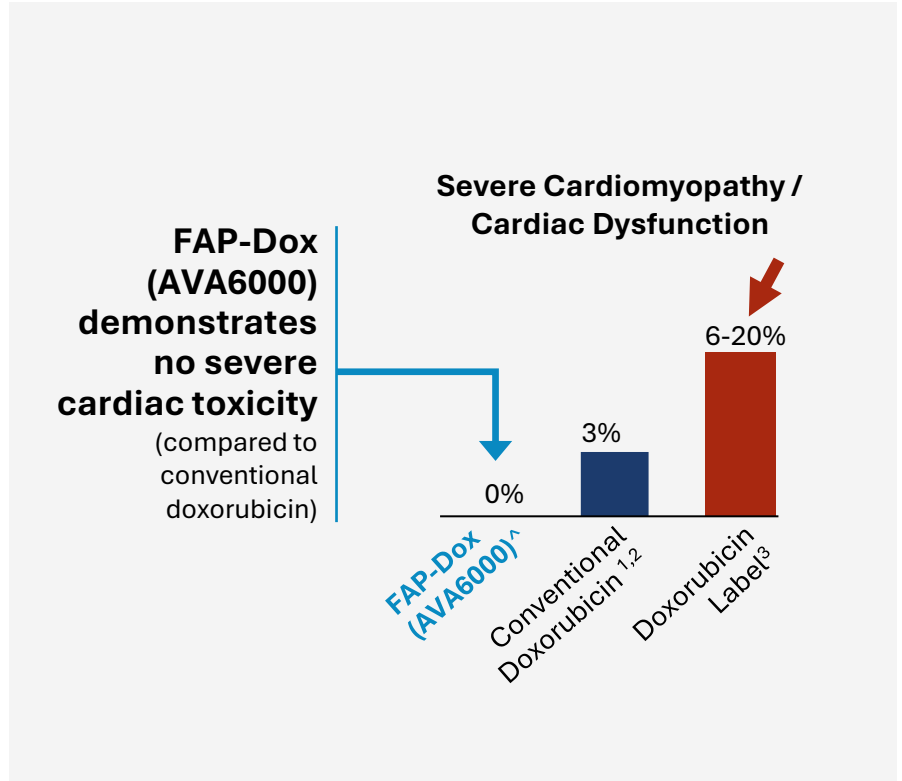
# pre|CISION<sup>®</sup> Eliminates the Severe Cardiac Toxicity of Doxorubicin

FAP-Dox has **no severe cardiac toxicity** despite doses approaching 4x the MTD of conventional doxorubicin (75 mg/m<sup>2</sup>)

**Alopecia** is generally limited to hair thinning (grade 1) and not complete hair loss

**Bone marrow toxicities** are dramatically reduced when comparing FAP-Dox versus conventional dose doxorubicin

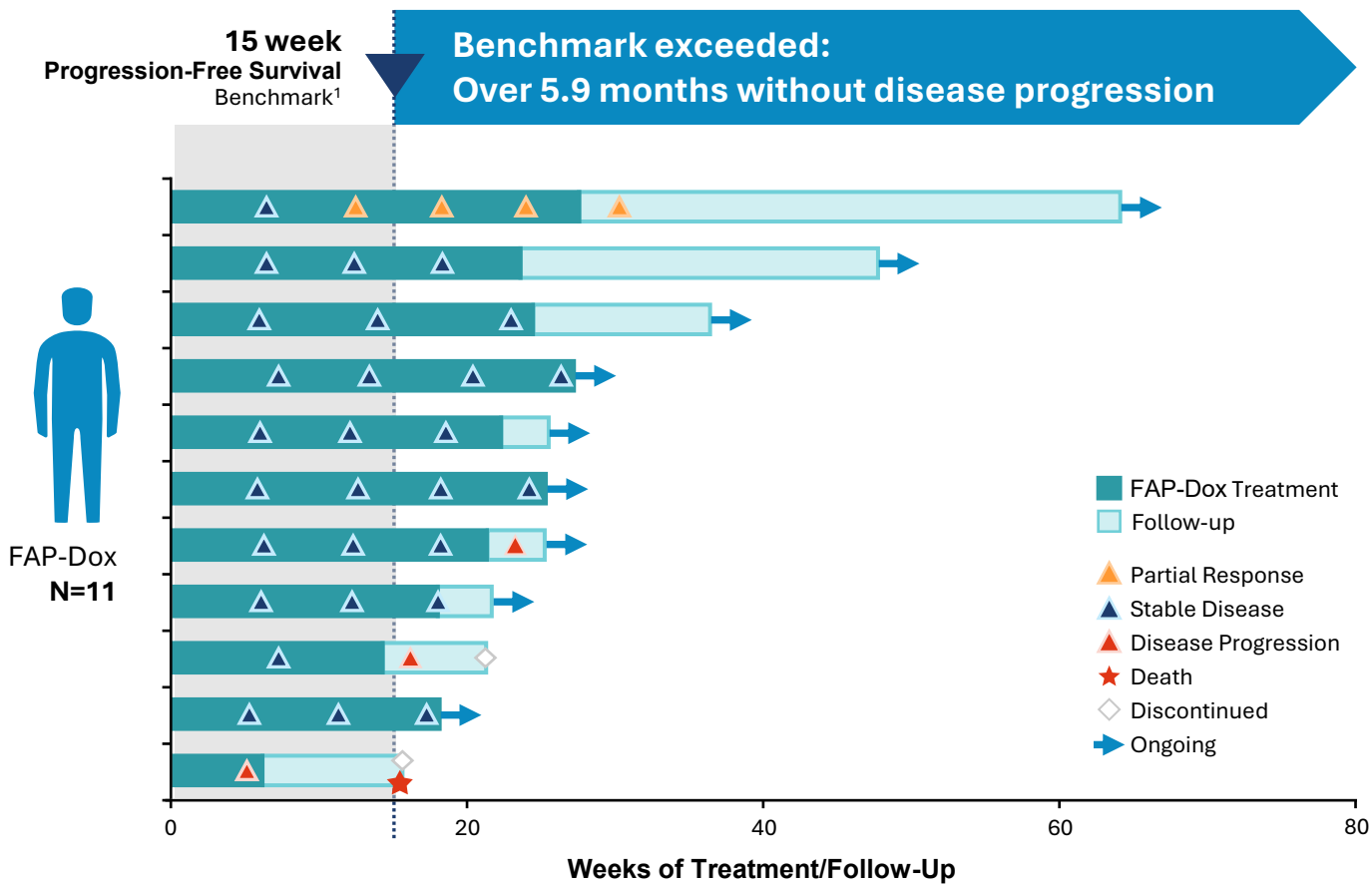
There are no reports of ADC-linked **toxicities associated w/ non-specific release of the payload** (no pneumonitis, ocular toxicity or liver toxicity)



Conventional doxorubicin at the cumulative doses we are using is known to cause severe cardiac dysfunction in 6-20% of patients. **FAP-Dox has eliminated this toxicity**

# FAP-Dox Durability & KOL Confidence in Salivary Gland Cancer

Patient's Treatment Duration and Response with FAP-Dox



**“FAP-Dox would completely become standard of care for Adenoid Cystic Carcinoma (ACC), your comparator is lenvatinib which has 12% ORR and horrible toxicity ...”**

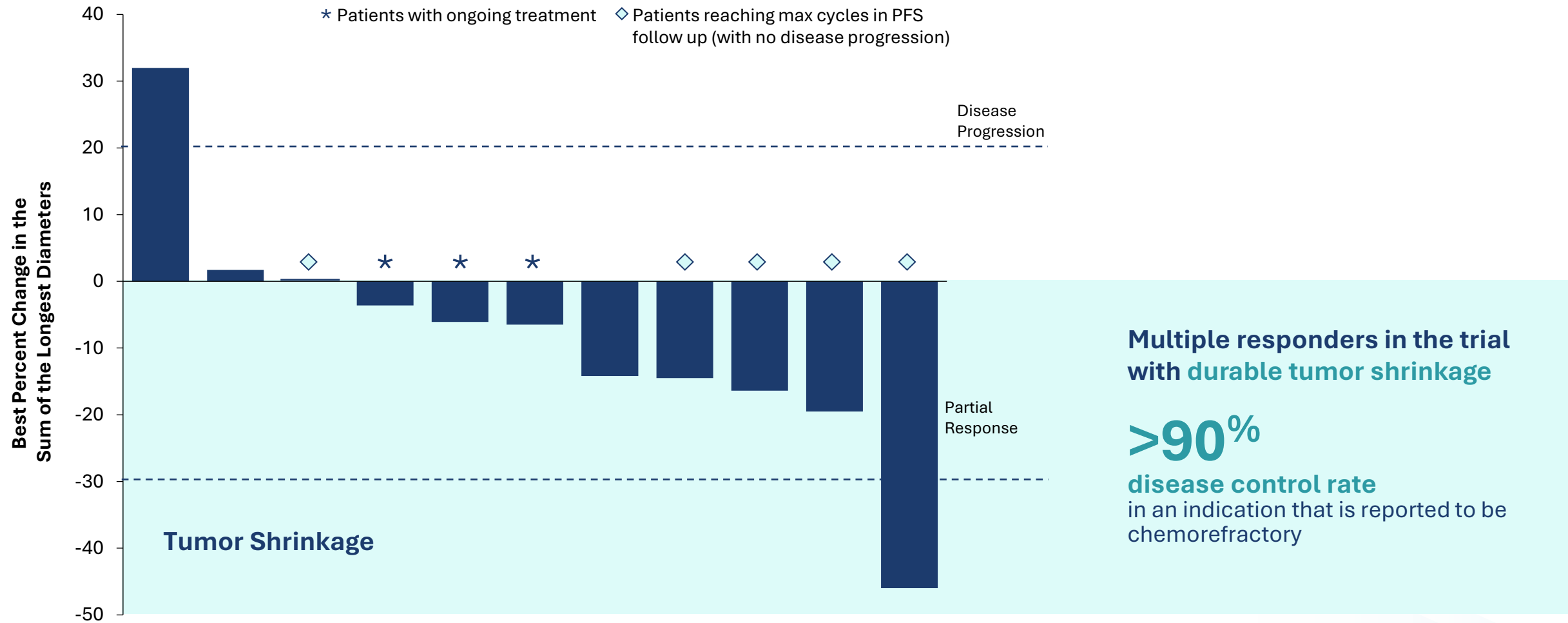
*Consultant in Medical Oncology  
NHS Foundation Trust*

**“ ... I’d use this very widely in 2L+ for patients who hadn’t received it yet... there’s no approved therapy in this space and with this data there’s no reason not to prescribe this ... ”**

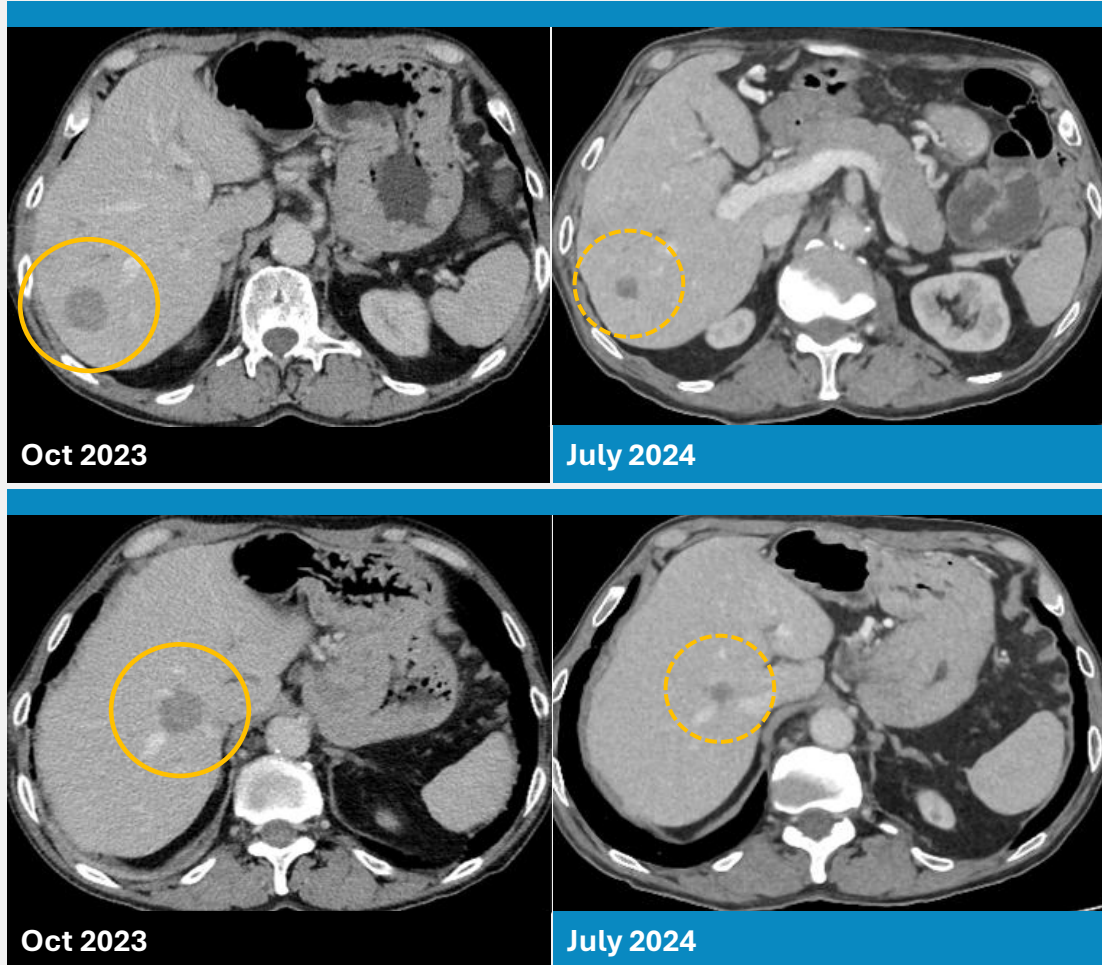
*Professor of Clinical Medicine  
UCSF*



# FAP-Dox: Preliminary Data Demonstrate Durable Tumor Shrinkage in Patients with Salivary Gland Cancers

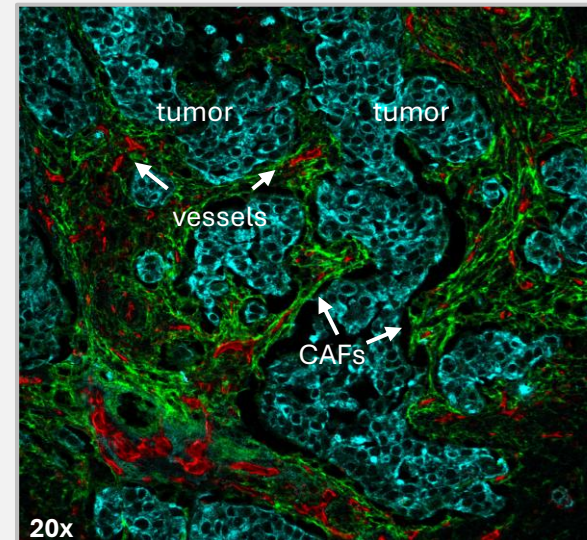


# FAP-Dox (AVA6000): Deep prolonged PR in Salivary Gland Cancer



## 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/m<sup>2</sup> Q3W cohort; highest level of intratumoral doxorubicin of any patient at 24 hours post-dose
- 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

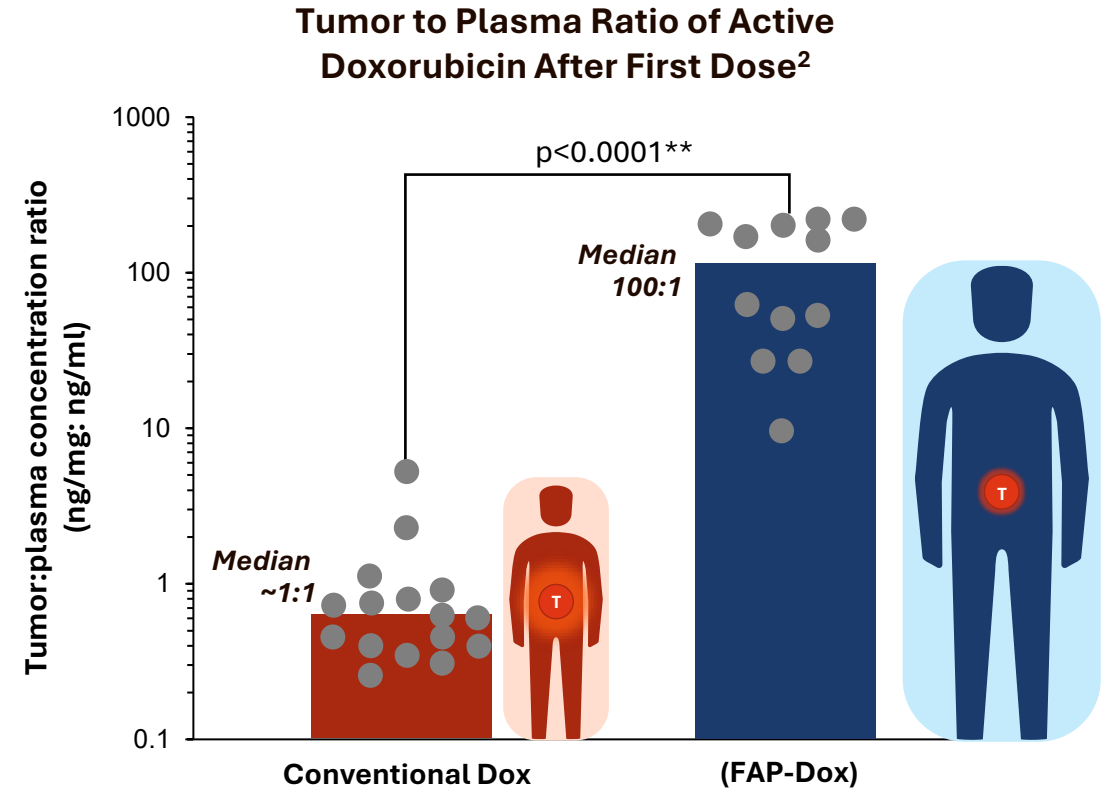
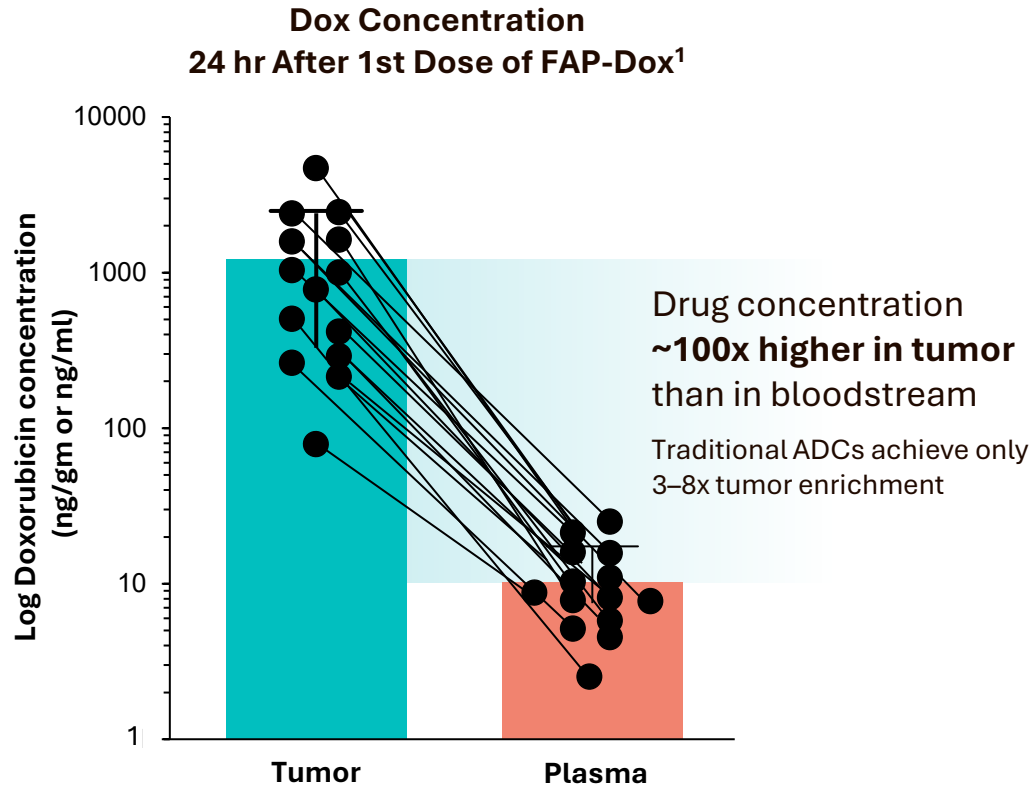


### Tumor cells are negative for FAP (aqua)

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

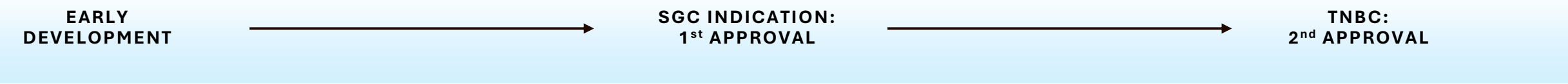
- PanCK (tumor)
- CD31 (blood vessels)
- FAP (CAFs)

# pre|CISION®: FAP-Dox Demonstrates Superior Tumor Targeting

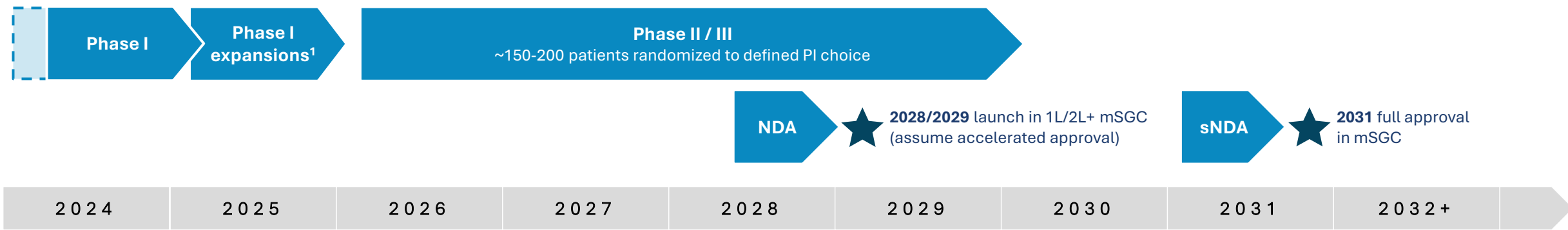


**FAP-Dox tumor targeting far exceeds conventional dox.**  
It achieves 100× higher concentration in the tumor vs. conventional dox,  
which shows no tumor targeting (~1:1 tumor:plasma)

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

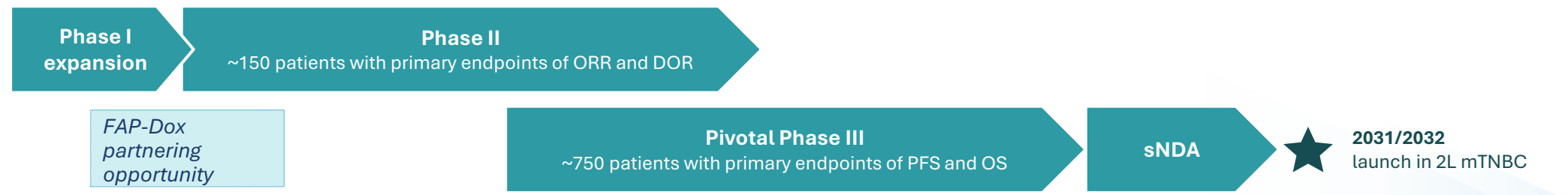


## Salivary gland cancer (SGC) Indication






## Triple Negative Breast Cancer (TNBC)

PD-L1-negative and BRCAwt



# Commercial Analysis of FAP-Dox Reveals Advantages to the Initial Orphan Indication Supporting the Breast Cancer Indication

	Salivary Gland Cancer (SGC)		Triple Negative Breast Cancer (TNBC)		HR+ and HER2+ Breast Cancer
Addressable Population	 <p><b>1L/2L Indication</b>  <b>~1000/yr (US) 2500/yr global</b>  FAP-Dox is indicated after hormonal therapy</p>		 <p><b>1L/2L (US population estimates)</b>  <b>~5000/yr</b>      <i>–or–</i>      <b>~15000/yr</b>  (doxorubicin naïve)      (doxorubicin pretreated)</p>		 <p><b>Label expansion opportunities</b>  to adjuvant/neoadjuvant therapy and additional subsets of metastatic breast cancer</p>
Pricing Implications	<b>Advantages of first indication:</b> <ul style="list-style-type: none"> <li>Orphan pricing</li> <li>Avoids the IRA</li> </ul>		<b>Unlikely to see diminution in orphan price</b> given Trodelvy® pricing in this indication		Similar to TNBC Indication
	<div>USA</div> <div>GLOBAL</div>		<div>USA</div> <div>GLOBAL</div>		
Launch Timing	<b>Late 2028/early 2029</b> <div>2031</div>		<div>2031</div> <div>2032</div>		<b>2033-2035</b> (Global)
US-only Peak Revenue	<div>~\$127 M (early)</div> <div>~\$250 M (later)</div>		<div>~\$740M (doxorubicin naïve population only)</div> <div>~\$1.5B</div>		<b>Analysis ongoing</b>

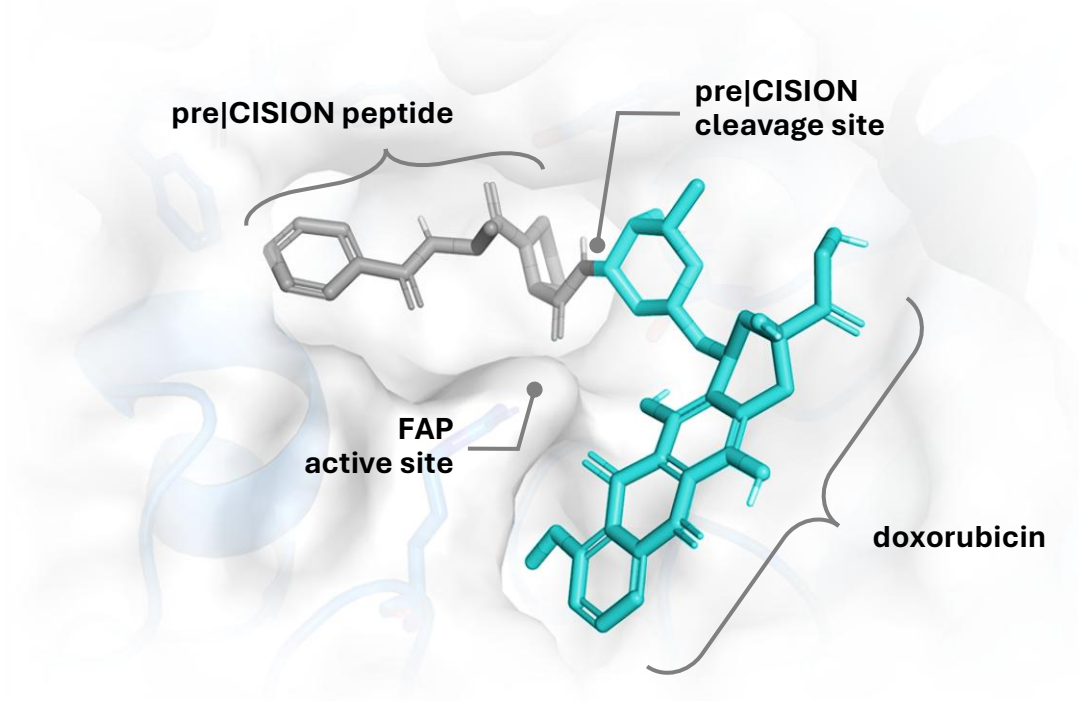
# FAP-Exd (AVA6103): pre|CISION-enabled exatecan

Potent Topoisomerase I Peptide Drug Conjugate

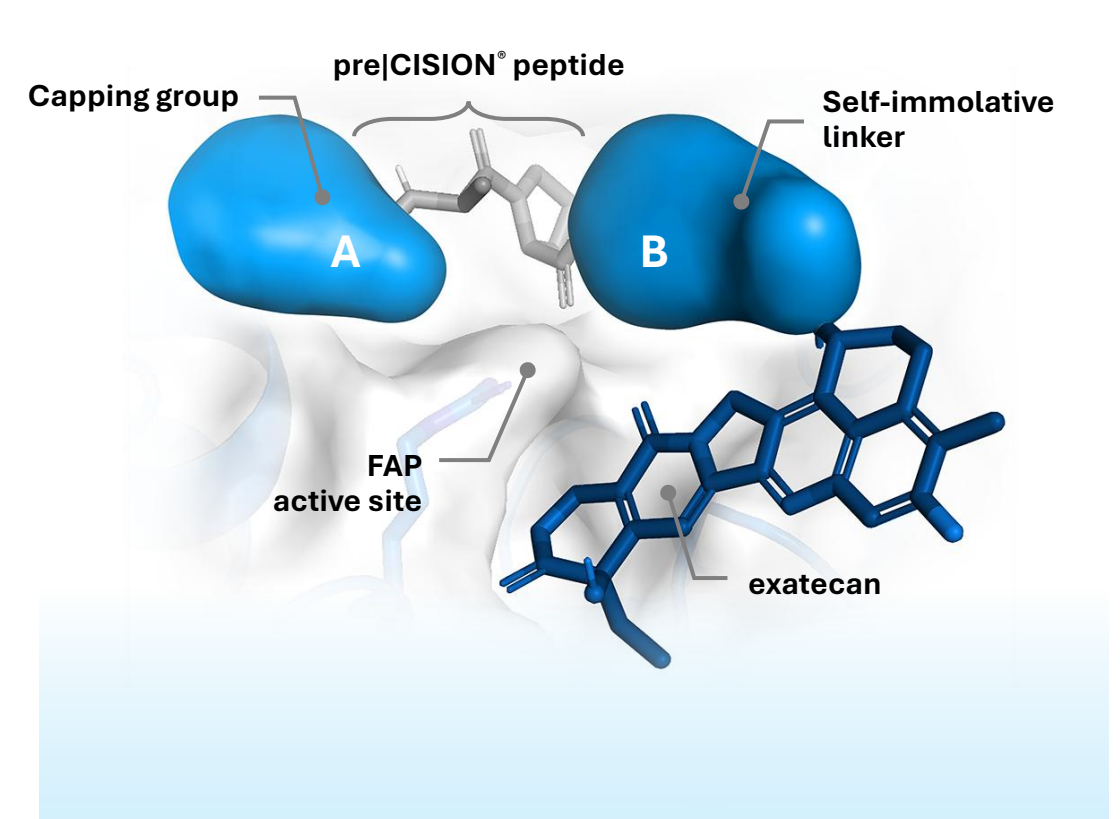


# FAP-EXd (AVA6103): Sustained Tumor Release of a Highly Potent Payload via the pre|CISION Platform

pre|CISION-Dox (FAP-Dox) in the FAP Docking Model



pre|CISION-Exd (FAP-EXd) in the FAP Docking Model



**pre|CISION Sustained Release Mechanism:** Delivery of payloads with a short half-life for prolonged periods of time directly in the tumor

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

1

**Exatecan (EXd) is the most potent topo I inhibitor w/ single agent activity** in Ph 2 trials in several key FAP-positive indications

2

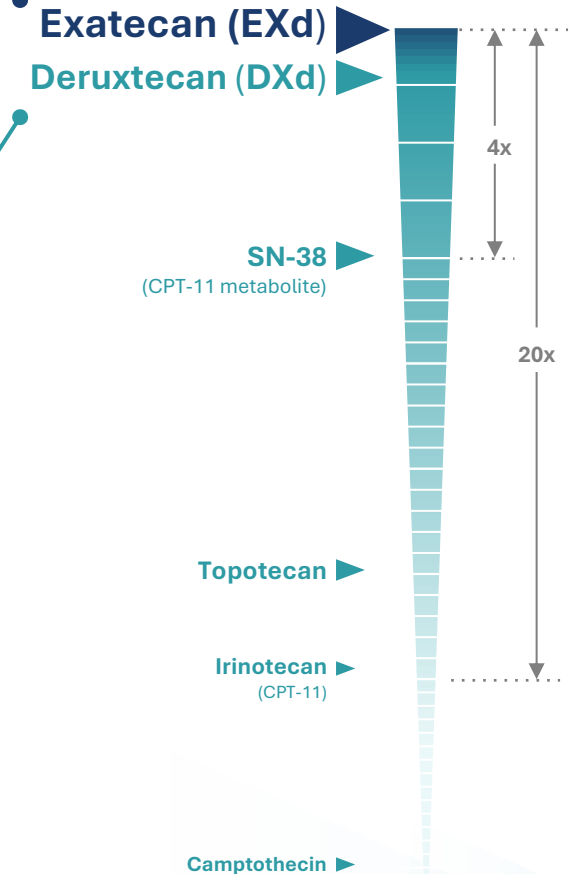
**Deruxtecan (DXd) has similar potency and is an APPROVED highly successful ADC (Enhertu®),** however with a lower membrane permeability compared with exatecan

3

**Exatecan (EXd) previously failed in the clinic due to a limited therapeutic index & significant PK issues**

- Short half-life of ~9 hours which is insufficient for the effective inhibition of the topoisomerase I enzyme

## Drug Potency Scale of Topo I inhibitor class



Kumazawa, E. et al. Potent and broad antitumor effects of DX-8951f, a water-soluble camptothecin derivative, against various human tumors xenografted in nude mice. Cancer Chemother Pharmacol 42, 210–220 (1998). <https://doi.org/10.1007/s002800050807> | Esteva, F (2003). A Phase II Study of Intravenous Exatecan Mesylate (DX-8951f) Administered Daily for 5 Days Every 3 Weeks to Patients with Metastatic Breast Carcinoma. Cancer 98(5):900-906. | Abou-Alfa GK et al. Randomized phase III study of exatecan and gemcitabine compared with gemcitabine alone in untreated advanced pancreatic cancer. J Clin Oncol. 2006 Sep 20;24(27):4441-7. doi: 10.1200/JCO.2006.07.0201.



# FAP-EXd (AVA6103) Optimizes Tumor-Specific Delivery with Key Attributes

1

## Optimized Dosing of exatecan

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The **maximum tolerated dose of FAP-EXd is 75x that of conventional exatecan** (30x molar ratio of pure payload) allowing greater tumor concentration

2

## FAP-EXd is inert in the absence of FAP

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**FAP-EXd is completely inert in the absence of FAP+ CAFs** unless FAP+ CAFs are present

3

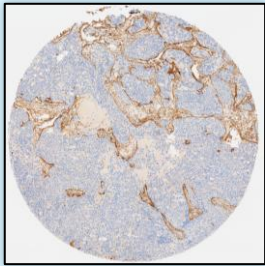
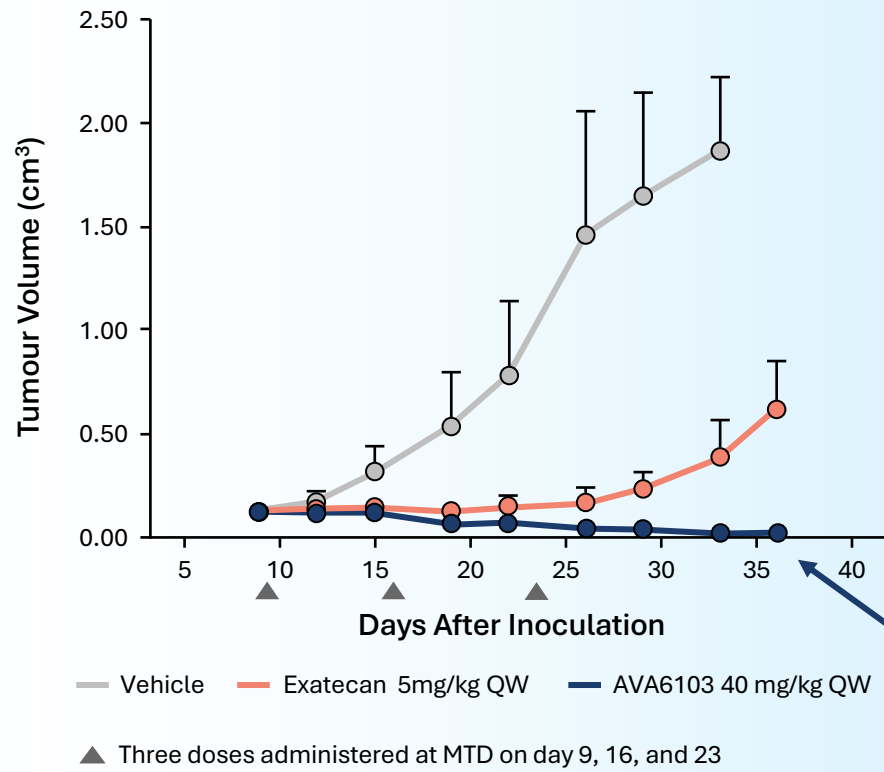
## FAP-EXd optimizes sustained tumor release

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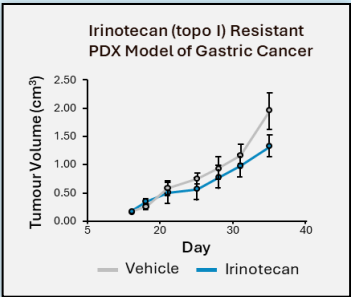
We observe **high tumor levels of both PDC and released exatecan over multiple days**, whereas conventional exatecan disappears from circulation and the tumor in hours

# FAP-EXd Demonstrates Complete Responses in a Topo I-resistant PDX Model of Gastric with FAP Expression Only on Murine CAFs

FAP-EXd (AVA6103) Treatment Results in Complete Responses in a low-FAP Model

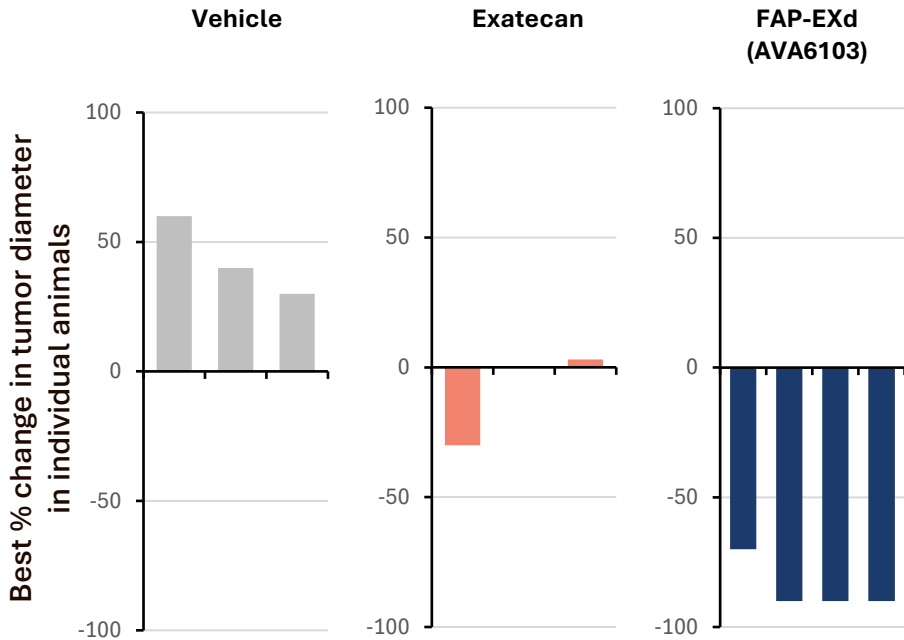


Murine FAP expression on infiltrating CAFs with tumor cells negative for FAP



Durable complete responses with FAP-EXd weeks after dosing completed

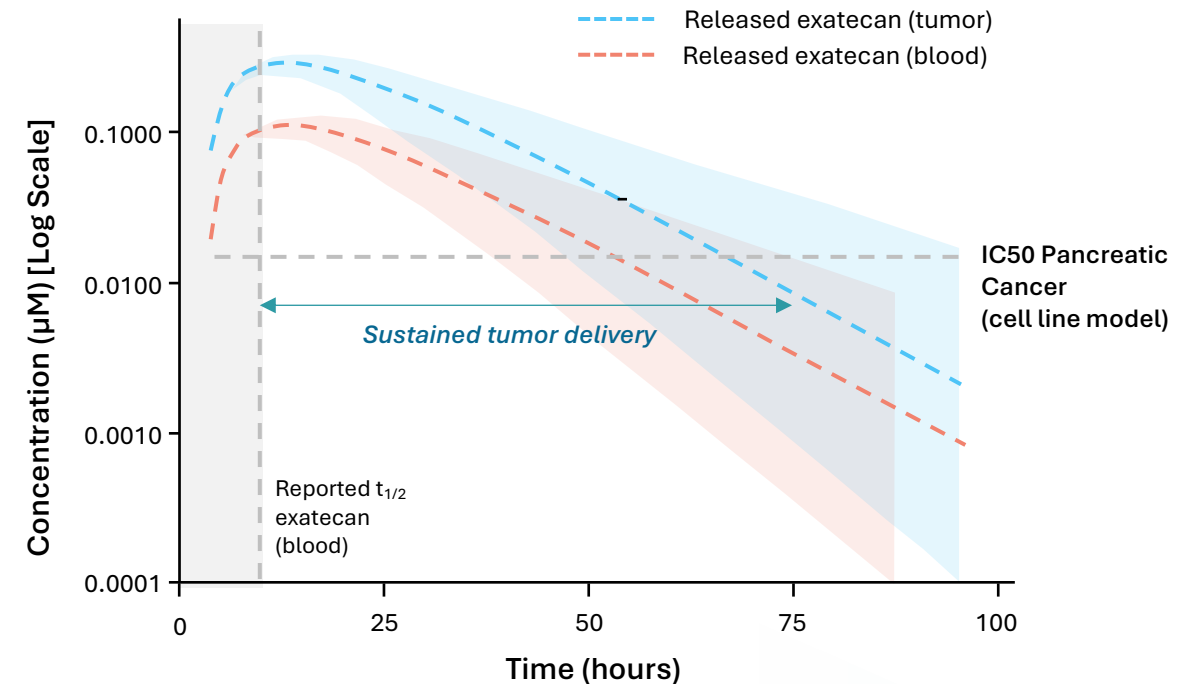
FAP-EXd (AVA6103) Results in Complete Responses



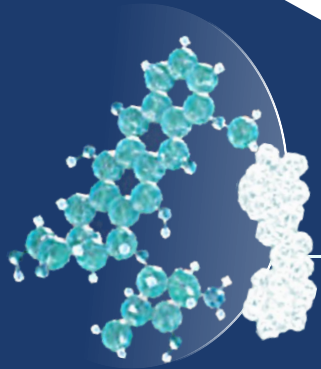
# Tumor & Plasma PK with AVA6103 Demonstrate Sustained Tumor Release Resulting in 2-3 Days Above the IC50 in the Tumor

Modeling of Tumor & Plasma Concentration at low-dose AVA6103 suggests prolonged tumor exposure

- 1 Tumor and plasma PK studies demonstrate a highly favorable ratio when comparing concentrations of released exatecan
- 2 Using these data, **longitudinal PK simulations of released exatecan** demonstrate tumor exposure predicted above the IC50 concentration for **over 60 hours** following a single low dose (15 mg/kg) of FAP-EXd



# FAP-EXd (AVA6103) Represents a Large Market Opportunity



pre|CISION®  
peptide

FAP-EXd  
(AVA6103)

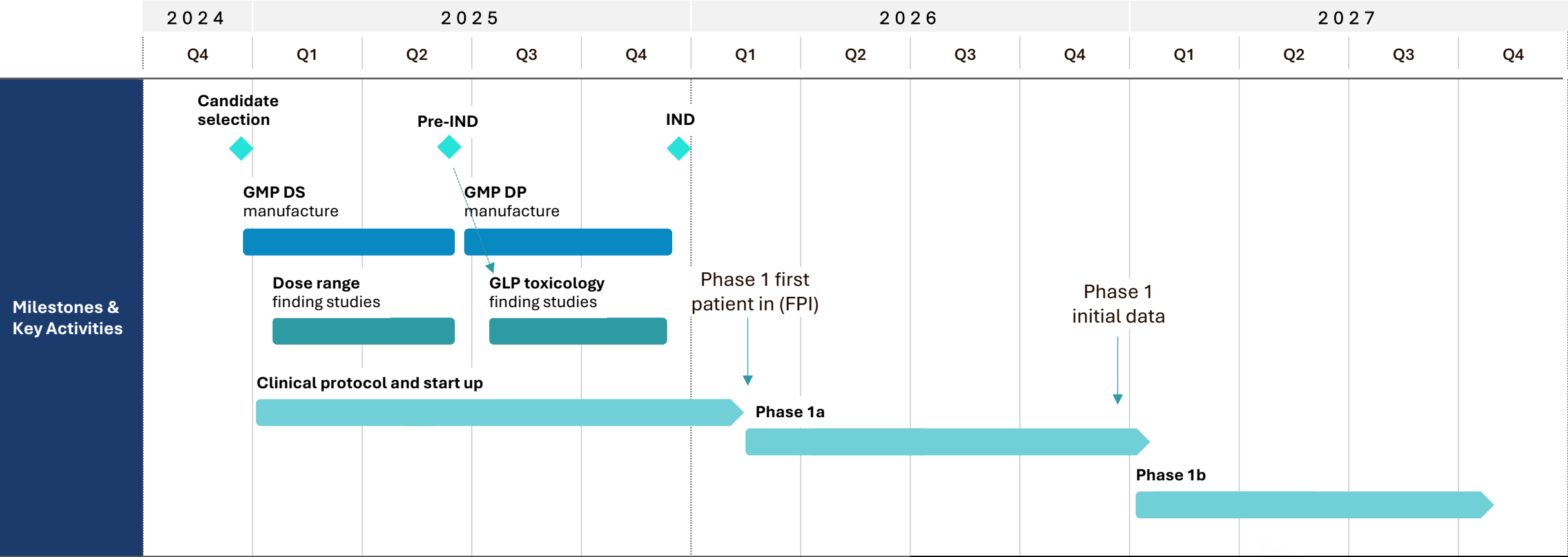
The topoisomerase I inhibitor chemo mechanism is **used widely in oncology**

**There are approved topo I inhibitors** with much lower potency (topotecan and irinotecan)

Leveraging the Tempus collaboration to **identify optimal indications** (SLFN11 and FAP modeling)

**Multiple large market opportunities for FAP-Exd include** pancreatic cancer, gastric cancer, small cell and non-small cell lung cancer, breast cancer, among others

# FAP-EXd (AVA6103) Planned for Phase 1 to Initiate in Q1 2026



# pre|CISION: 3 IP Families Align with the Product Pipeline

## pre|CISION® Platform Foundational IP

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The background platform IP of the **pre|CISION® FAP-cleavable peptide drug conjugates** is owned by Bach Bio with an exclusive license to Avacta. Patent expiry in 2035

**FAP-Dox (AVA6000)** will be further protected with formulation, manufacturing, patient population and dosing IP. US Orphan drug designation with regulatory exclusivity

## pre|CISION® Sustained Release Program IP

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The **sustained release pre|CISION® mechanism** delivers payloads with precisely tunable kinetics

**FAP-EXd (AVA6103):** First program developed by Avacta with a novel, sustained released mechanism of action based on the FAP-cleavable peptide. The Program IP is owned by Avacta, based on the foundational patents with Program patent expiry in 2045

## pre|CISION® Biologic Drug Conjugate IP

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The background platform IP of the pre|CISION® FAP-cleavable biologic drug conjugates is co-owned by Avacta and Tufts with an exclusive sublicense to Avacta via Bach Bio. Patent expiry in 2041

**Avacta holds an enviable IP position** with multiple families and new foundational IP around the sustained release mechanism of pre|CISION delivery

Thank You



**Avacta**  
THERAPEUTICS