



# Custom Built Biology for Patients

November 2022

Molecular Partners AG, Switzerland  
(SIX: MOLN, NASDAQ: MOLN)



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# Molecular Partners Highlights



## Science Highlights:

### **MP0533:** Tri-specific T-cell engager for AML

- On track to reach clinical initiation by end 2022
- Oral presentation at ASH 2022

### **MP0317:** Bi-specific CD40 local agonist

- In Phase 1 – enrollment ongoing at 3 mg/kg dose level
- Positive initial data presented at SITC

### **DARPin-radioligand therapies:**

- Deal with Novartis on 2 targets: CHF 18.6 million received, to date
- Internal research – ongoing with initial targets nominated in H1 23

### **Abicipar:**

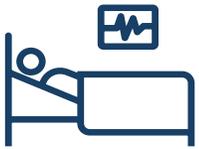
- FDA supports single safety trial for approval
- Reviewing path forward outside MP

## Operational Highlights:

- Reported cash and equivalents as of September 30, 2022: CHF ~267 million
- Consistent, disciplined spend rate
  - Runway into 2026

# Strategy: Highly Differentiated Programs, True Patient Value

## PATIENT VALUE



We aim to drive **true patient value** with an **early clinical read-out** by directly changing the course of disease

## DARPin ADVANTAGE



We leverage the advantages of **DARPin**s to provide **unique solutions** to patients with high medical need, no satisfactory solutions and well-defined disease biology

## BIOLOGY



We target **biological hypothesis** that can be tested in relevant preclinical models with translatable value – focus on oncology and virology

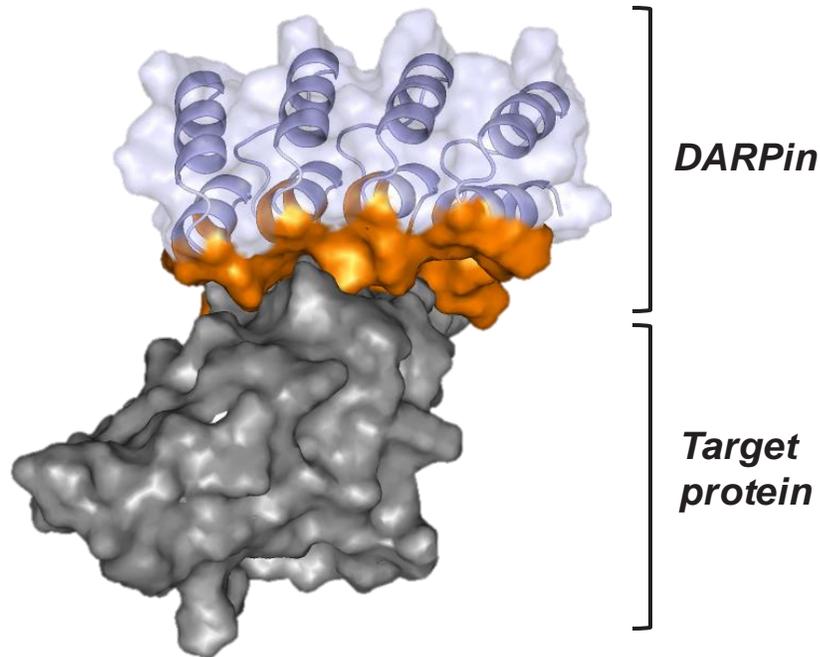
## PARTNERING



We share an open mindset and **collaborate** with world leading companies, scientists and clinicians from ideation to approval

# DARPin: The Core of our Drug Engine

DARPin are binding proteins derived from natural ankyrin repeat proteins



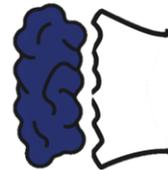
## DARPin **KEY PROPERTIES**

## DARPin **ADVANTAGE**



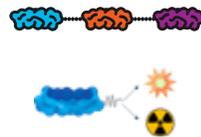
Small size  
(15 kDa)

- Deep tissue penetration
- High molar concentration



Rigid protein  
scaffold

- Ultra-high binding affinity  
and selectivity



Simple & robust  
architecture

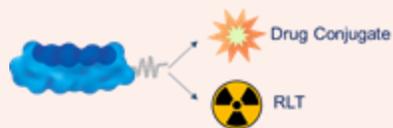
- Turn-key multispecifics
- Easy coupling of payloads

# Translating DARPin Properties into Differentiated Therapeutics

Delivery vectors  
“radical simplicity”

## RLT & DDC

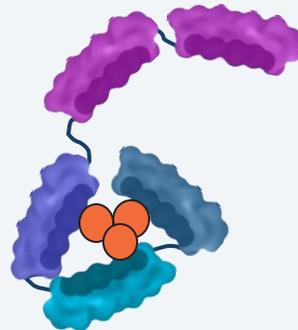
Small size: high affinity delivery, limited systemic exposure



Multi-specificity-enabled possibilities

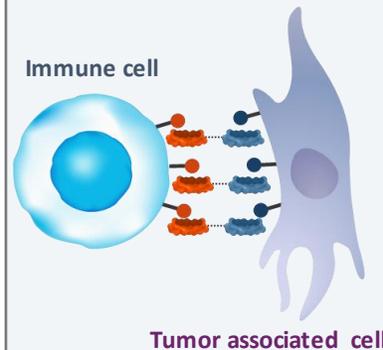
## Ensovibep

Cooperative binding to inhibit SARS-Cov-2 and prevent escape



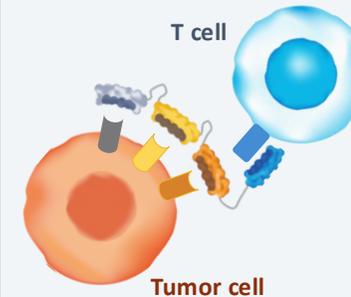
## MP0310 & MP0317

Tumor localized clustering activates effector cells in tumor



## MP0533

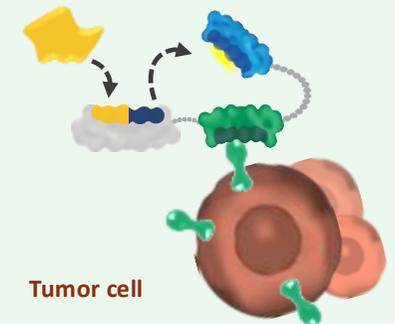
Avidity driven TCE for tumor specificity and heterogeneity



Conditional activation  
“radical complexity”

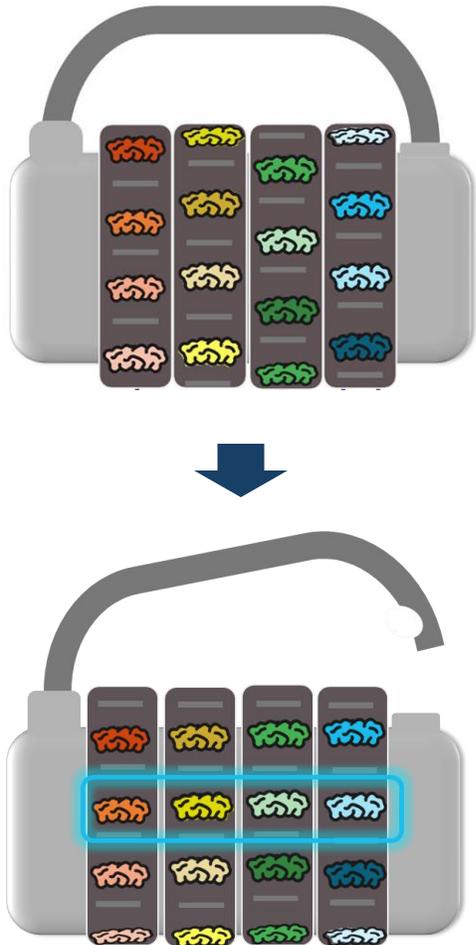
## SWITCH

Programming highly potent effectors to omit off-tumor activity



# Exploiting the Multi-DARPin Platform

*Allows screening for function sweet spot*



*Library used to generate binders against TAAs*  
**Identified functional DARPin modules to each TAA**

Recombination of DARPin modules:  
**TAA1 x TAA2 x TAA3 x ...**

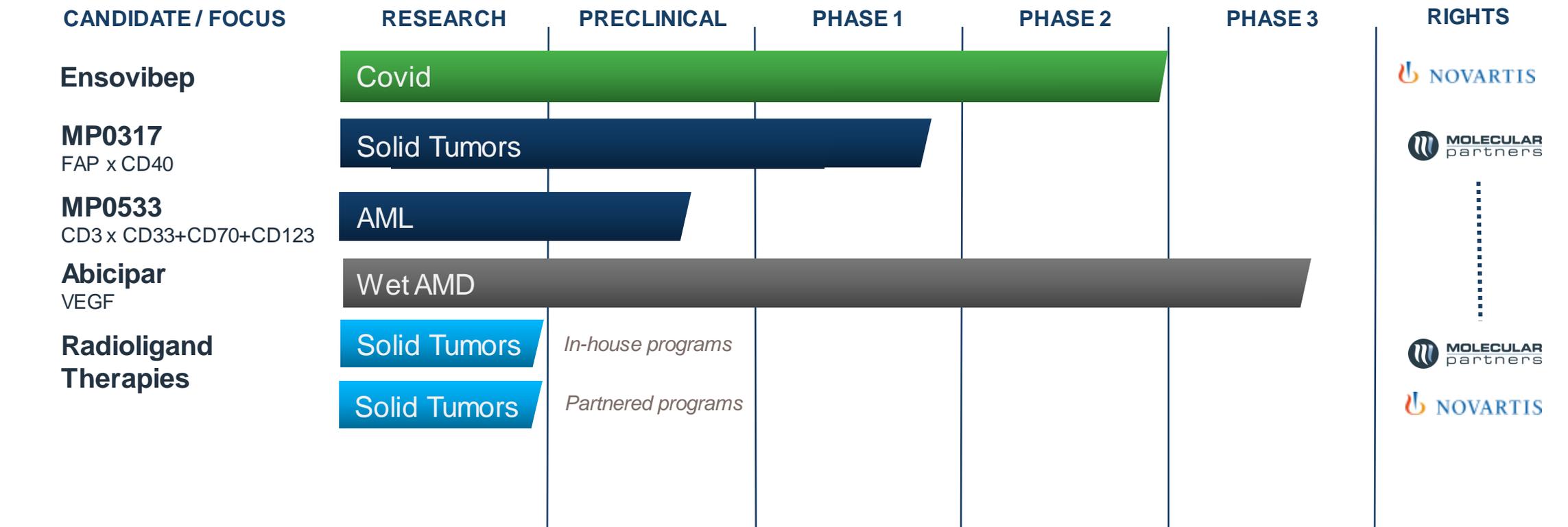
*Screening of multi-domain DARPins*  
**Functional Multi-DARPin candidates**

**Affinity & format & half-life optimization**  
Recombination of DARPin modules

*Screening of multi-domain DARPins*  
**Multi-DARPin lead molecule**

 Multiple iterations

# Pipeline

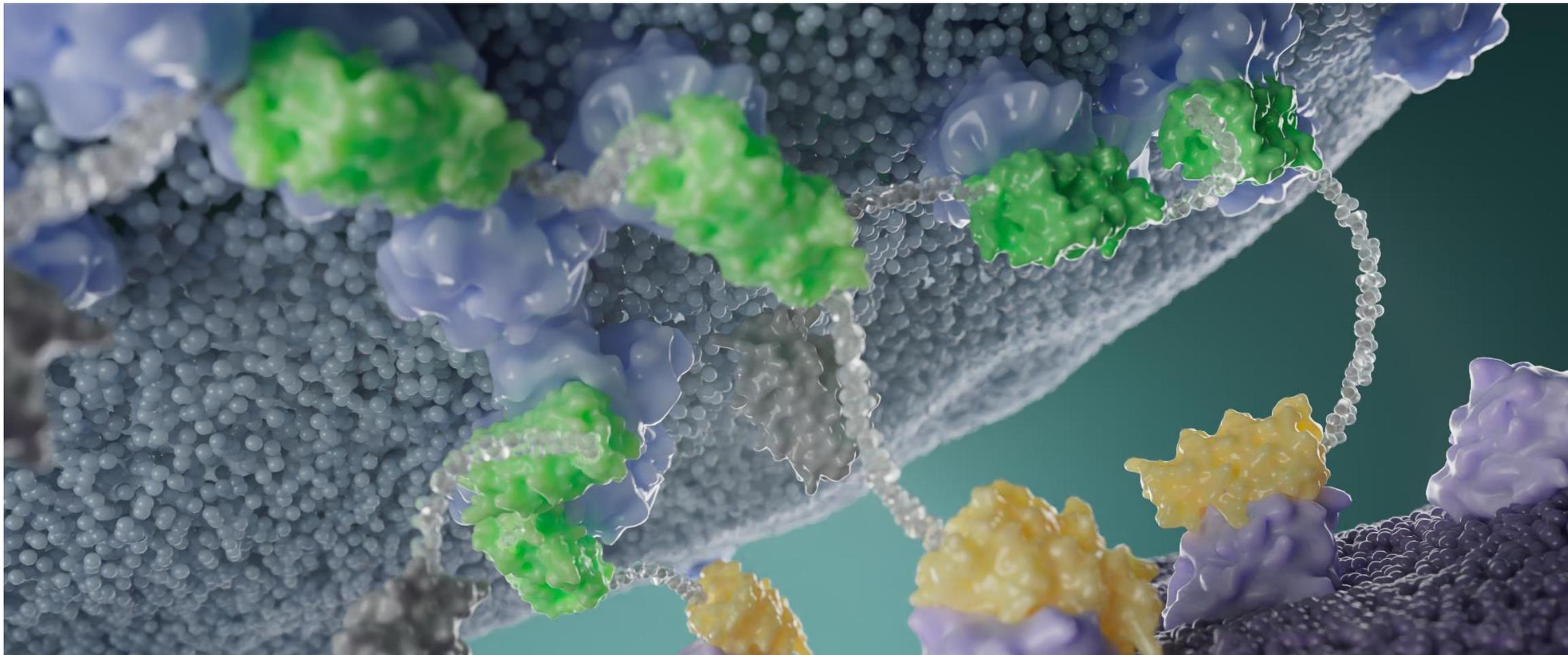


## PLATFORM DISCOVERY

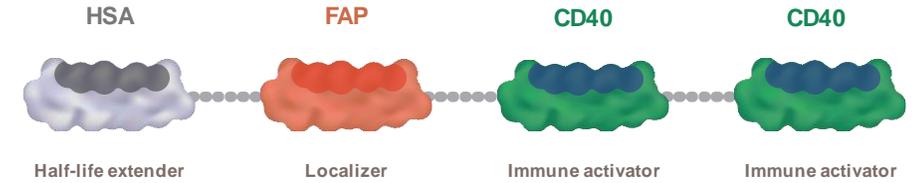
Targeted delivery; Conditional activation



# MP0317: A Phase 1 Localized CD40 Engager



# MP0317: Localized CD40 Engager



## Clinical Problem

- Immune Checkpoint Inhibitors have transformed cancer treatment, yet most patients still fail to respond
  - One cause of resistance or lack of activity is the absence of intra-tumoral immune cell activation
- Current CD40 agonists activate intra-tumoral but also peripheral immune cells, leading to dose-limiting toxicity

## DARPin Solution

- **MP0317: Long-acting DARPin co-targeting both FAP and CD40**
  - FAP is a stromal target stably expressed at high density in various tumors and absent systemically
  - CD40 requires multimerization for its activation
- **MP0317 aims for FAP-dependent CD40 multimerization for intra-tumoral immune activation w/o systemic tox**

## Reason to believe

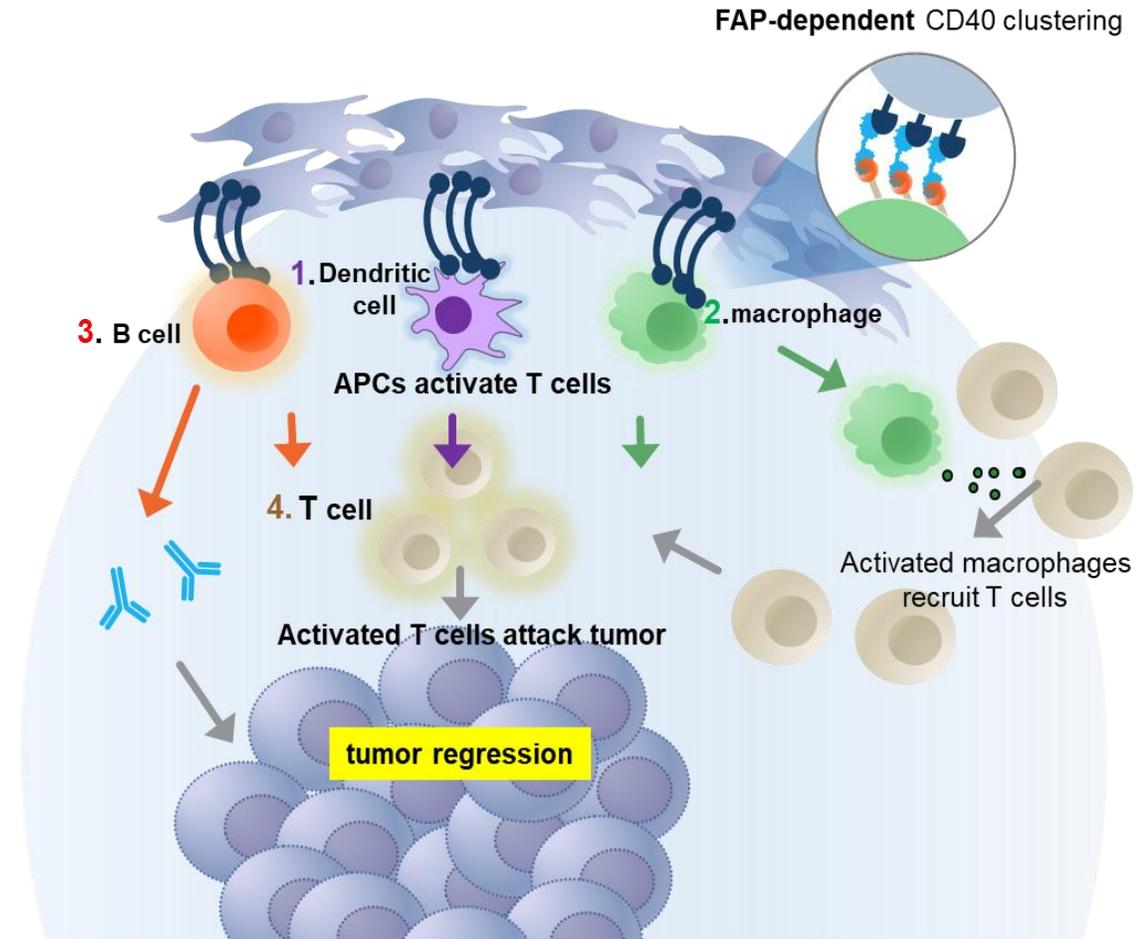
- ✓ Initial clinical data demonstrates tumor localized immune activation without systemic toxicity
- ✓ Phase 1 dose-escalation trial ongoing with MP0317 – **1 mg/kg dose reached without systemic toxicity**
  - ✓ **3mg/kg ongoing at Q3 dosing, weekly dosing ongoing at .5mg/kg**

## Next value

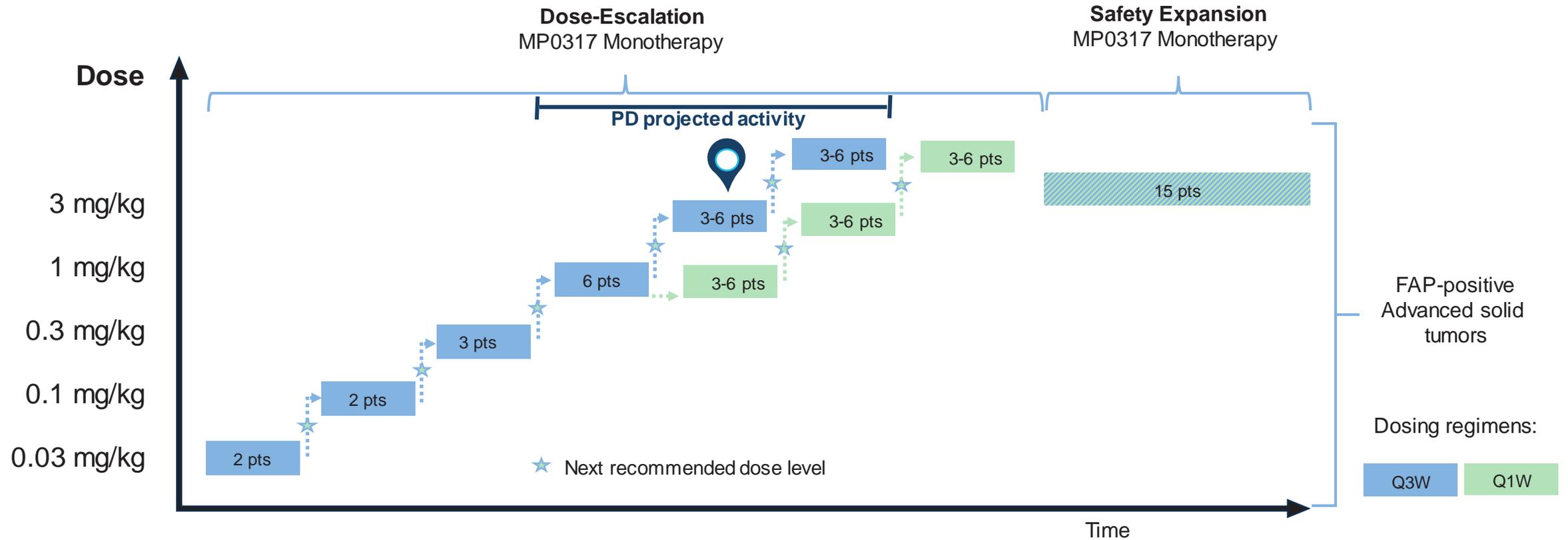
- PD markers from paired biopsies to demonstrate tumor local immune cell activation (Q1/23)
- Partnering for combination trials (H1/23)

# MP0317's Potential Promise

- **CD40 is a clinically validated target** involved in activation of antigen presenting cells (APCs)
- **MP0317 holds the promise to overcome limitations of systemic CD40 agonists** and expand therapeutic window
- **Limited direct competition** (most assets still systemic)
- **Supportive preclinical package** with single agent efficacy in a mouse FAP<sup>high</sup> tumor model
- **Encouraging early safety data supportive of partnering for combination therapies**



# MP0317-CP101 Clinical Trial Update



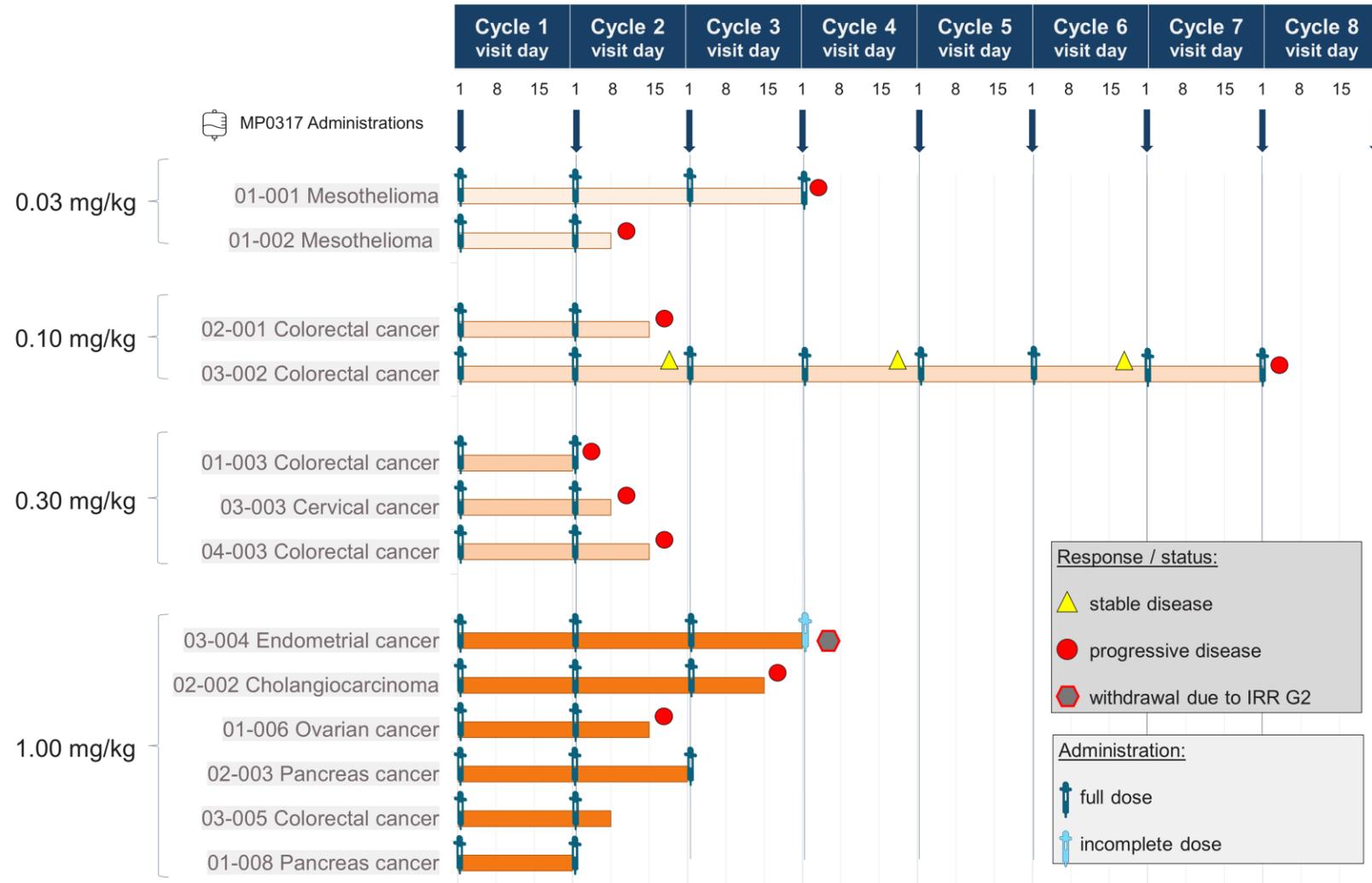
## Next:

- Communication of emerging clinical data in H2/22
- PD data on tumor-immune activation expected Q1-23
- Select partners for combination trials



Recruiting at 3 mg/kg dose

# MP0317 Dose Escalation Ongoing- Interim Clinical Data (Cohort 1-4)



Characteristic	Patients (N = 13)
Age, median (range), y	55 (35 –75)
Female (%)	7 (54)
ECOG PS, n (%)	
0	7 (54)
1	6 (46)
Median prior regimens (range)	3 (1–13)

- Patients were escalated from 0.03 mg/kg to 1 mg/kg Q3W as per protocol, with additional Q3W and Q1W cohorts recruiting

Data cut-off 04 Oct. 2022

# At Data Cut-off, MP0317 is Safe and Well-Tolerated

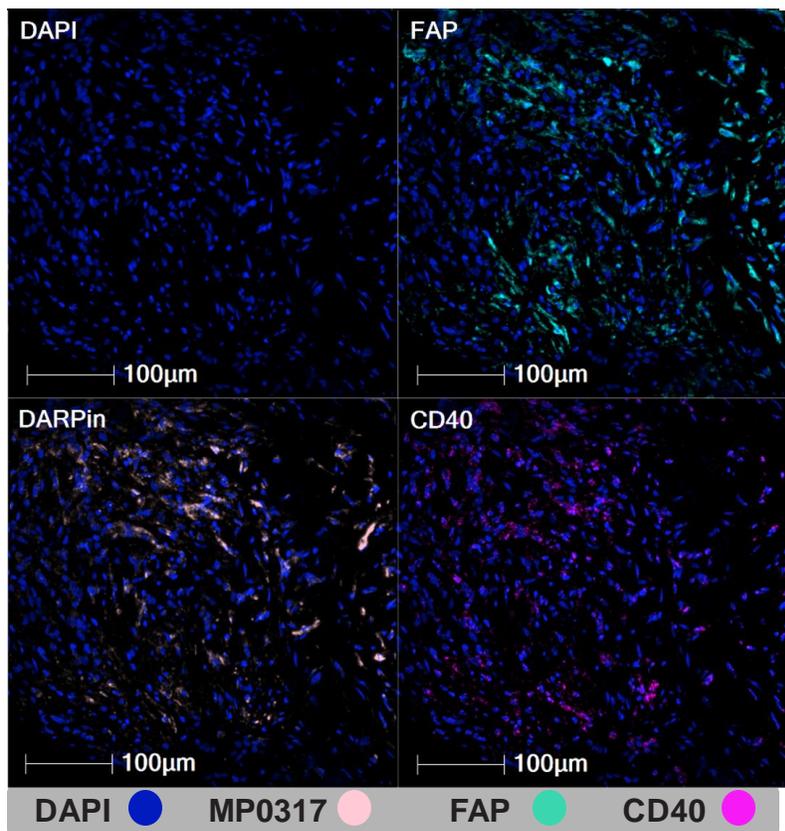
- No DLTs reported (Cohorts 1-4) & none of the grade  $\geq 3$  AEs were related to study treatment
- Of all AESIs that were pre-specified per protocol, only infusion-related reactions (IRR) were observed in more than one patient

MP0317 Dose Level	Number of Treatment-Emergent Events (Number of Patients Affected)				
	0.03 mg/kg	0.1 mg/kg	0.3 mg/kg	1 mg/kg	Total
Number of patients	2	2	3	6	13
AEs	17 (2)	20 (2)	21 (3)	27 (5)	85 (12)
Related AEs	1 (1)	10 (2)	4 (3)	17 (4)	29 (10)
Grade $\geq 3$ AEs	4 (2)	0 (0)	2 (2)	0 (0)	6 (4)
IRR AEs - all Grade 2	1 (1)	1 (1)	0 (0)	3 (1)	5 (3)
SAEs	2 (2)	0 (0)	2 (2)	1 (1)	5 (5)
Related SAEs	0 (0)	0 (0)	0 (0)	1* (1)	1 (1)

\* IRR Grade 2 with hospitalization for patient monitoring

Data cut-off 04 Oct. 2022

# MP0317 Colocalizes and Occupies FAP and CD40 in Tumor (Cohorts 1-3)



Representative multiplex immunofluorescence images of MP0317 colocalization with FAP and CD40 in a tumor verified area (pan cytokeratin positive) for subject 03-003, a cervical cancer patient dosed at 0.3 mg/kg

## DARPin target occupancy in tumor with FAP and CD40

Subject	Cohort	% FAP at baseline	% FAP occupied by MP0317	% CD40 occupied by MP0317
01-001	1	18.0	3.6	33.4
01-002	1	38.3	ND	ND
02-001	2	0.2	ND	ND
03-002	2	47.8	6.4	27.0
01-003*	3	0.2	no sample	no sample
03-003	3	22.8	26.0	47.1
04-003	3	pending	pending	pending

\*No Cycle 2 Day 8 sample collected; ND: not detected; For patient 04-003, multiplex immunofluorescence paired biopsy data are pending bioanalysis (together with cohort 4 batch)

- Multiplex immunofluorescence data show colocalization of MP0317 with FAP and CD40 in 3 out of 5 eligible paired tumor biopsies, demonstrating preferential tumor targeting through FAP, and CD40 target occupancy
- More data and orthogonal validation across PD biomarkers are required to determine a FAP threshold for patient selection

# Conclusions

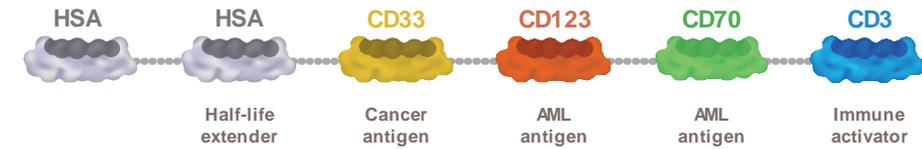
- As of Oct 2022, MP0317 is well-tolerated and shows no sign of systemic toxicity or DLT in the first 13 patients enrolled across 4 dose levels (0.03 mg/kg – 1 mg/kg Q3W)
- Emerging PK data are consistent with a half-life extended DARPin suitable for a Q3W dosing with evidence of target-mediated drug disposition, suggestive of CD40 engagement
- Preliminary biomarker data show evidence of target occupancy and PD modulation in the tumor microenvironment, consistent with the expected mode of action of tumor-localized CD40-mediated activation
- Enrollment at higher Q3W doses and at Q1W is ongoing to validate those preliminary observations and define the recommended dose for expansion

# MP0317 Status Update and Next Steps

- Ongoing Phase I dosing escalation, expected to be completed in Q4 2022
  - No DLTs / drug-related SAEs up to Cohort 4 (1 mg/Kg)
    - Presently enrolling at 3mg/kg
  - Initiated weekly dosing in parallel to every-3-weeks
    - Presently enrolling at 0.5mg/kg
- Continue enrolment and prepare for cohort expansions
- Establish ideal combination partners for Phase II

**MP0533:  
Trispecific T-cell  
Engager for AML**

# MP0533 – Avidity-driven Selective Killing of Blasts & LSC in AML



## Clinical Problem

- AML remains a deadly disease for most patients, especially non-transplant eligible ones
- Leukemic stem cells (LSCs) play a key role in initiating and sustaining AML, while blasts drive disease intensity
- LSCs are less sensitive to chemo and their selective targeting is a challenge, lack of selective markers

## DARPin Solution

- **MP0533: DARPin binding to CD33xCD70xCD123 (optimized affinity) and CD3 (T-cell activation)**
  - Blasts and LSC co-express CD33, CD70 and CD123, while healthy cells (HSC) show mostly mono-expression
  - Killing of cells that co-express 2 or more targets, while mono expressing cells are spared
- **MP0533 is designed to preferentially kill Blasts and LSCs, opening a therapeutic window**

## Reason to believe

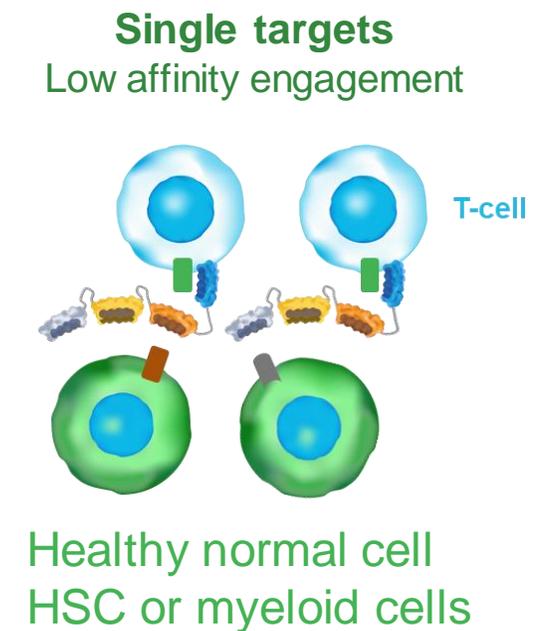
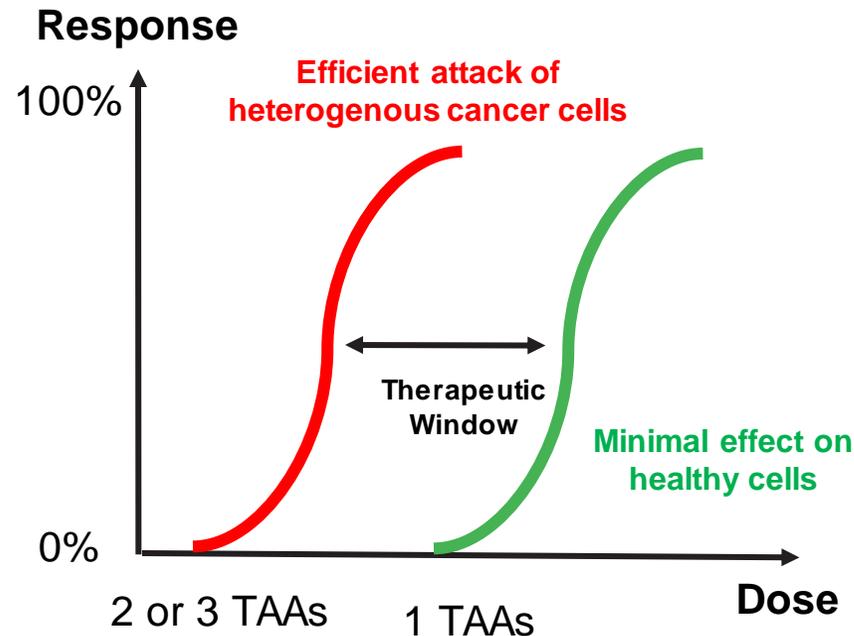
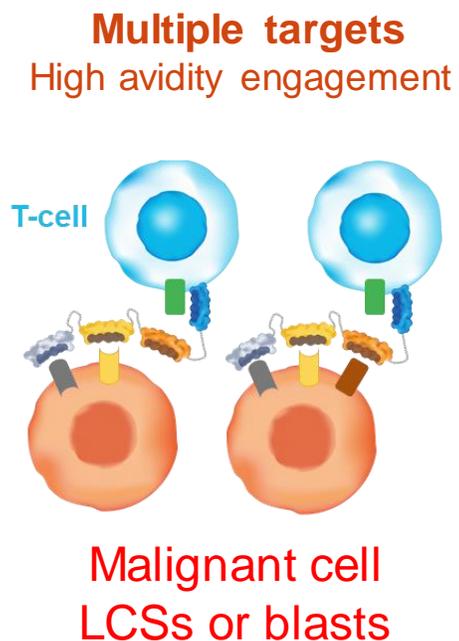
- ✓ Preclinical results from cell-based and animal models demonstrate MoA described above
- ✓ *Ex-vivo* patient samples: preferential killing of LSCs & Blasts (potentially to open therapeutic window)

## Next value

- FIH clinical studies initiating in H2/2022, mono-activity expected
- Oral Presentation accepted for ASH 2022

# Avidity-Driven Specificity Against Leukemic Stem Cells and Blasts in AML

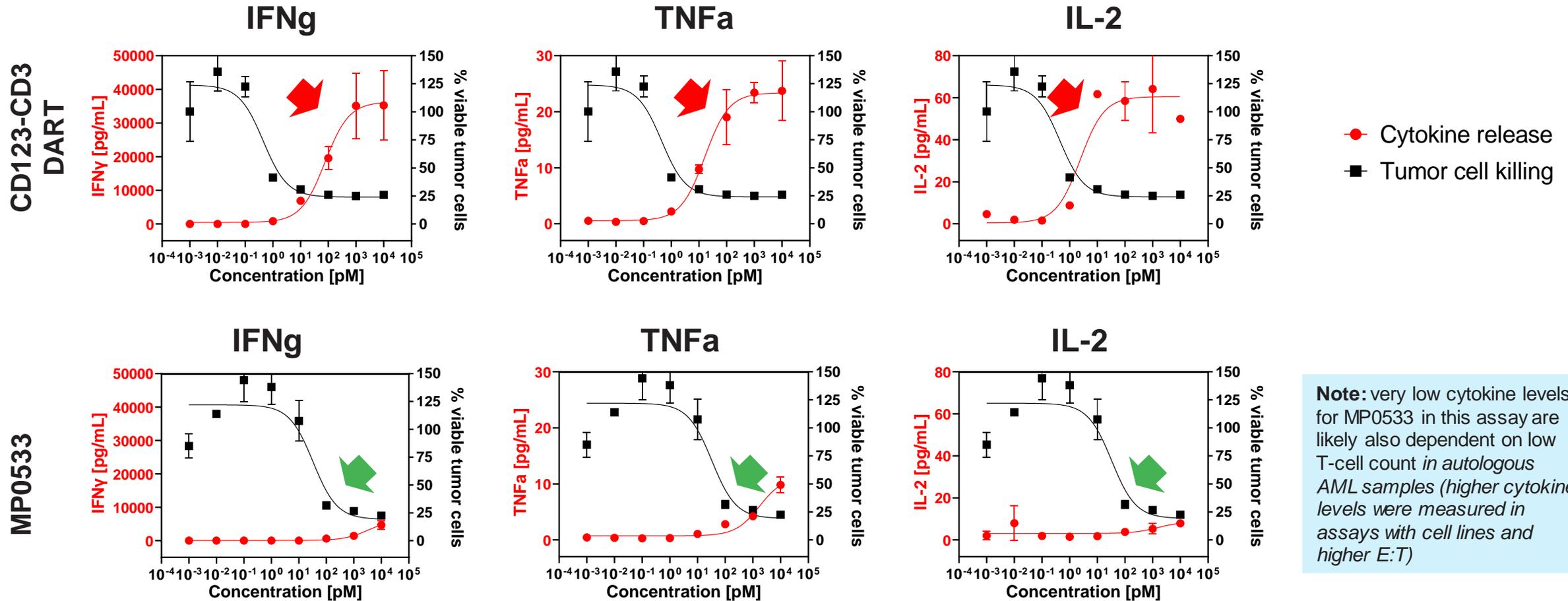
- Persistence of LSCs is the driver of relapse in AML
- Targets in AML are also on healthy cells, leading to on-target toxicity (unclean targets)
- Goal: avidity-driven killing of LSCs and blasts, with reduced killing of HSCs and other healthy cells



# Low Cytokine Release Under 'Close-to-patient' Conditions

## Primary autologous setting

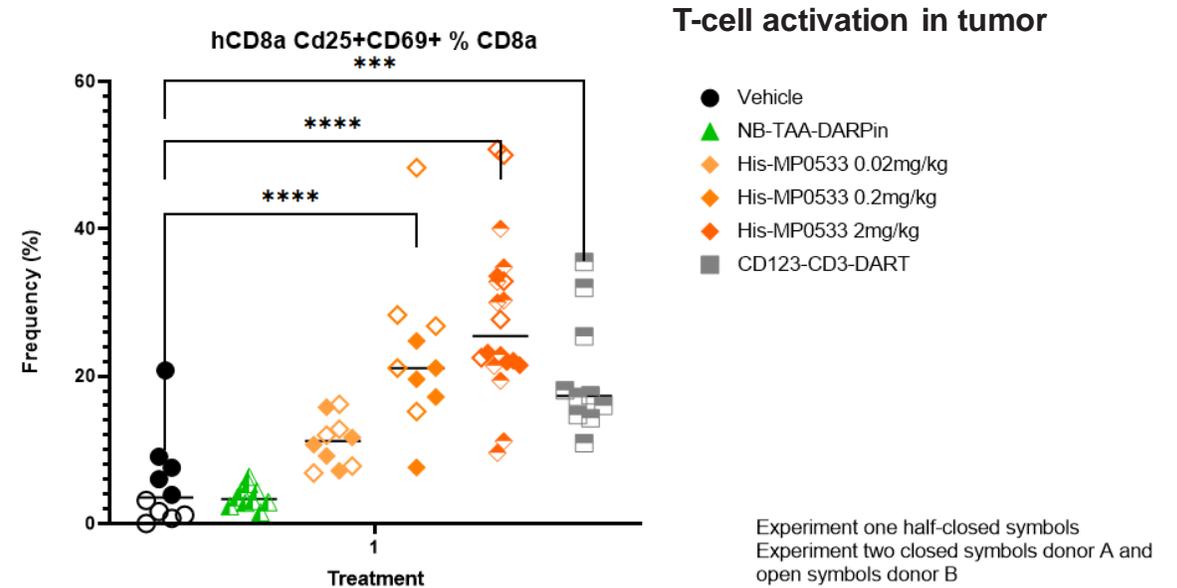
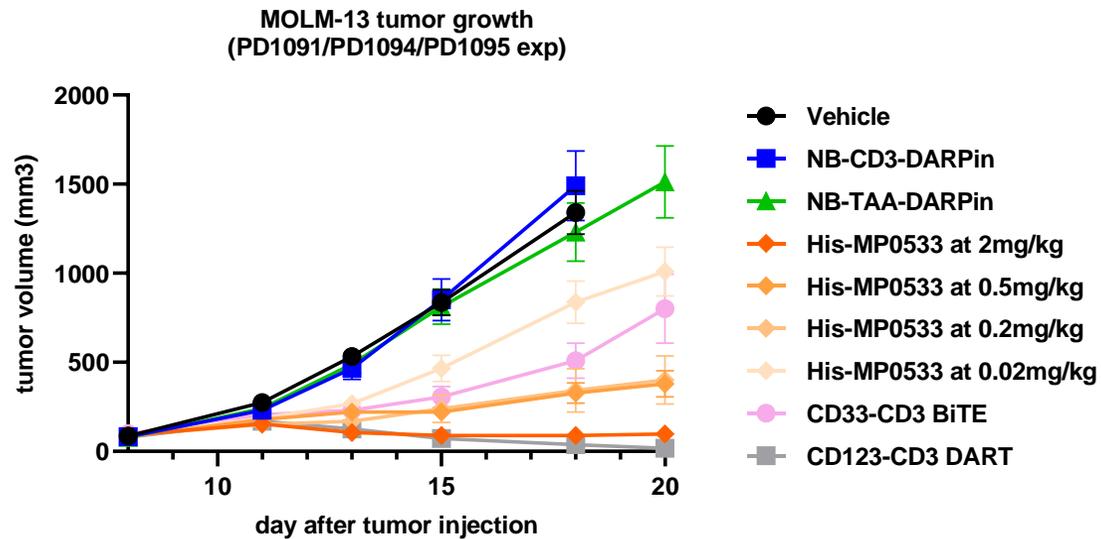
- Primary AML BMMCs (bone marrow mononuclear cells) with 80% blast content in bone marrow (E:T of  $\approx 1:20$ ); 5-day assay



**Note:** very low cytokine levels for MP0533 in this assay are likely also dependent on low T-cell count *in autologous AML samples* (higher cytokine levels were measured in assays with cell lines and higher E:T)

# Good *in-vivo* efficacy of His-MP0533\* in AML tumors

*In vivo* efficacy in line with competitors



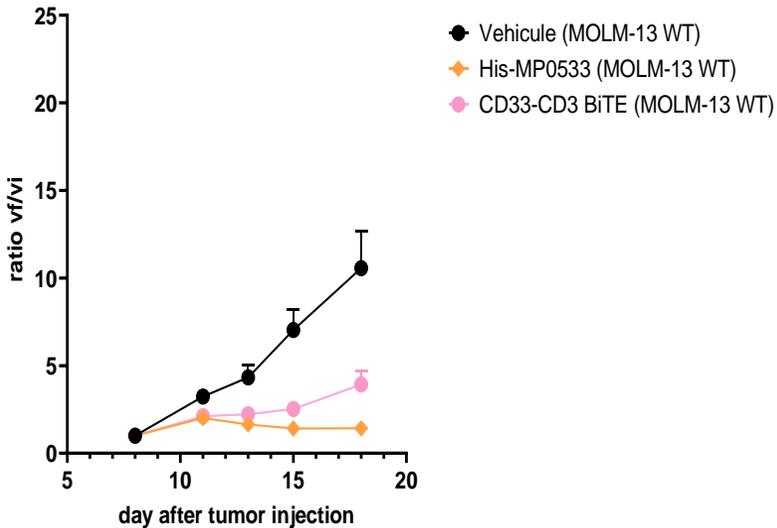
- ✓ His-MP0533 showed a significant efficacy in MOLM-13 WT tumors
- ✓ His-MP0533 induced T-cell activation in MOLM-13 tumors. Level of T-cells activation correlated with His-MP0533 efficacy *in vivo*.
- ✓ No increase of cytokines/chemokines released in mouse serum - only in tumors.
- ✓ Level of cytokines/chemokines release correlate with His-MP0533 efficacy and T-cell activation in tumors only.

\*His-MP0533 has a 6x His-tag attached during the research stage

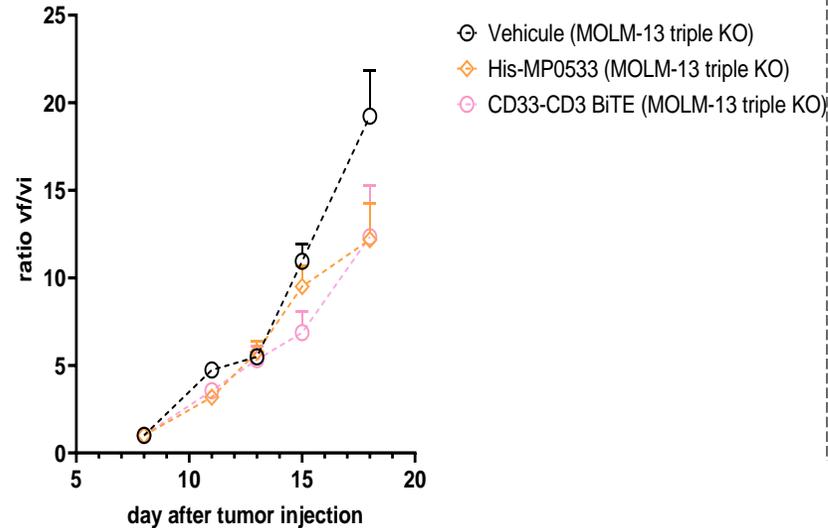
# No Off-target Killing *in vivo*

*In vivo* selectivity to TAA-expressing MOLM-13 tumors

MOLM-13 WT tumor growth  
(PD1101 exp)

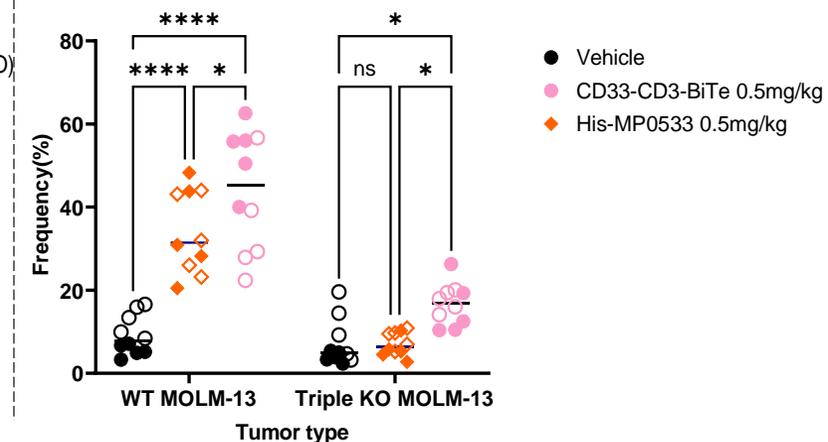


MOLM-13 KO tumor growth  
(PD1101 exp)



CD8a+CD25+CD69+ % of CD8a

T cell activation in tumor



✓ His-MP0533 showed a significant efficacy in MOLM-13 WT (wild-type) tumors

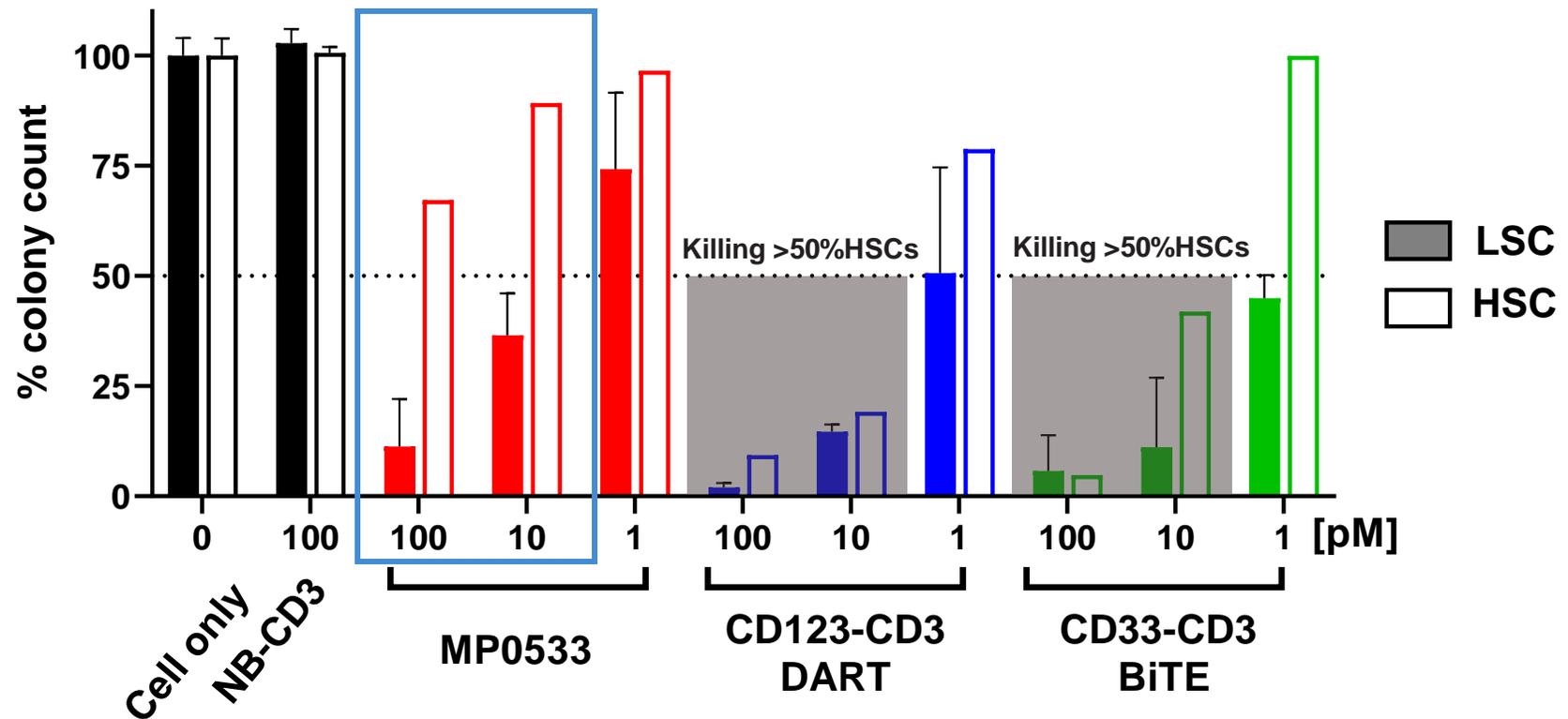
✓ But no efficacy in MOLM-13 triple KO (knock-out) tumors (growing on the same mice)

✓ His-MP0533 induced T-cell activation only in MOLM-13 WT tumors (expressing 3x TAAs)

# MP0533 Shows Larger Therapeutic Window Compared to CD123-DART and CD33-BiTE

Successfully killing leukemic stem cells (LSC, full bars) while sparing hematopoietic stem cells (HSC, empty bars) *in vitro*

**Killing of sorted CD34+ LSC or HSC by colony formation assay**  
using allogenic T-cells (E:T of 1:1, 4 d) / CFU counted after 2 weeks semi-solid media



# MP0533 Phase 1: Open Label, Multicenter Dose Escalation Study in AML or HR-MDS Patients

## Main inclusion criteria:

- Diagnosis of AML or MDS/AML according to the ELN recommendation 2022 refractory or relapsed to pretreatment with HMA (with or without venetoclax), induction chemotherapy or allogeneic HSCT
  - No active active GvHD requiring immune-suppressive therapy
  - No signs of CNS AML
  - No leucostasis
  - No use of immunosuppressive drug
- Number of patients: 20-45

## Primary endpoint:

- Safety and Tolerability

## Main secondary/ exploratory endpoints:

- Efficacy
- Pharmacokinetics
- T-cell Activation
- Cytokine Release
- Effect on LSCs

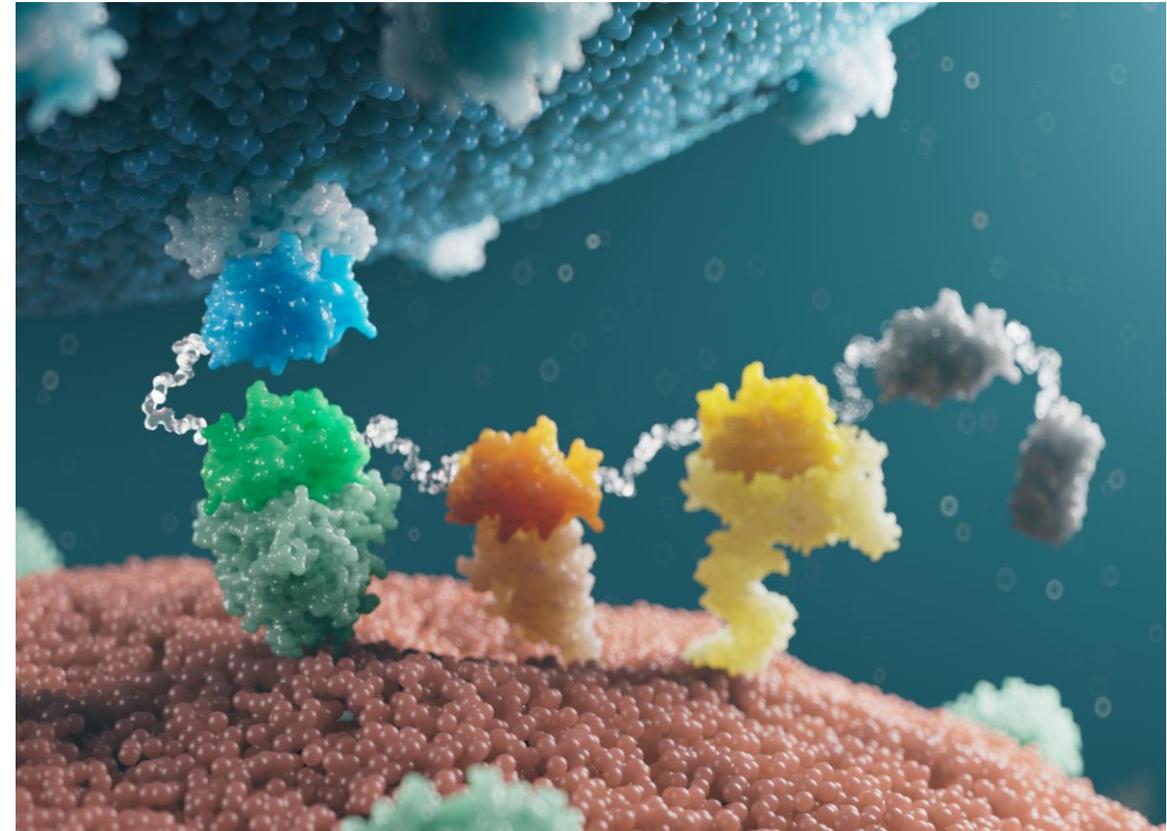
**Trial initiation planned for late 2022**

**Abbreviations:** AML = Acute myeloid leukemia; HR-MDS = high-risk myelodysplastic syndrome; ELN = European LeukemiaNet; HMA = hypomethylating agents; HSCT = Hematopoietic Stem Cell Transplantation ; GvHD = graft vs host disease; LSC = leukemic stem cells;

# MP0533: A Unique DARPin Solution for AML Patients

- ✓ **Very good progress on translational data generation path**
- ✓ **Advanced clinical interactions with KOLs and CROs will enable timely protocol completion and submission**
- ✓ **Progress requirements met:**
  - Critical data on MoA, safety & efficacy
  - TPP refinement
  - Biomarker plan
  - Competition analysis
  - CMC feasibility

➤ **Phase 1 clinical trial initiation H2 2022**





# DARPin Radio-Ligand-Therapy (RLT) and DARPin Drug-Conjugates

# DARPin-based Radioligand Therapy (RLT)



## Clinical Problem

- Radiation provides a highly effective way to kill tumor cells
  - External beam radiation is successful, however limited to well-localized tumor lesions
  - The delivery of therapeutic radionuclides by tumor-targeting vectors is a powerful methodology for the treatment of disseminated cancers, but is restricted by either low tumor accumulation and/or dose-limiting toxicities

## DARPin Solution

- **Small, mono-DARPin with ultra-high affinity to a tumor-associated antigen, coupled to a radionuclide**
  - **High tumor accumulation, limited systemic exposure, deep tumor penetration and long tumor retention**
  - Generation of optimized DARPin platform with **limited kidney toxicity**

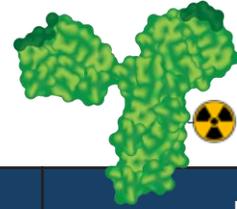
## Reason to believe

- ✓ Affinity driven tumor accumulation of small-sized / ultra-high affinity mono-DARPins in mouse tumor models
- ✓ Ongoing collaboration with Novartis, a leader in RLTs: US\$20 million up-front

## Next value

- Optimize RLT-DARPin platform for limited kidney exposure
- Validate DARPin RLT potential and select first drug candidate(s)
- Novartis: US\$560 million milestones, up to double digit royalties if drugs receive market authorization

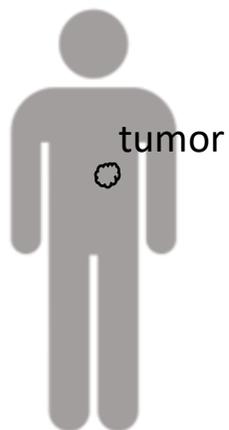
# Challenges of Delivery Vectors for Radionuclides



	mAB	LMW compounds
<b>Size</b>	150 kDa	1-2 kDa
<b>Affinity</b>	high (bivalent)	low
<b>Specificity</b>	high	limited
<b>High tumor load</b> ➤ concentration at site of action	+	+
<b>Deep tumor penetration</b> ➤ access site of action	-	+
<b>Long tumor retention</b> ➤ maintenance at site of action	+	-
<b>Limited normal tissue exposure</b> ➤ improved safety profile	-	(+)

# Mono-DARPin as Ideal Delivery Vectors for Radionuclides

Designed for efficient tumor targeting with limited systemic exposure



Drug  
infusion



Infusion  
stopped



**Small size (15 kDa)**  
fast extravasation &  
deep tumor penetration



Homogeneous **access to tumor cells** for killing

**Small size (15 kDa)**  
rapid systemic  
clearance



Limited normal tissue  
exposure for  
**improved safety**

**High affinity (< 50 pM)**  
long tumor retention



Maintenance on  
tumor for **complete local killing**



# Summary and financial guidance

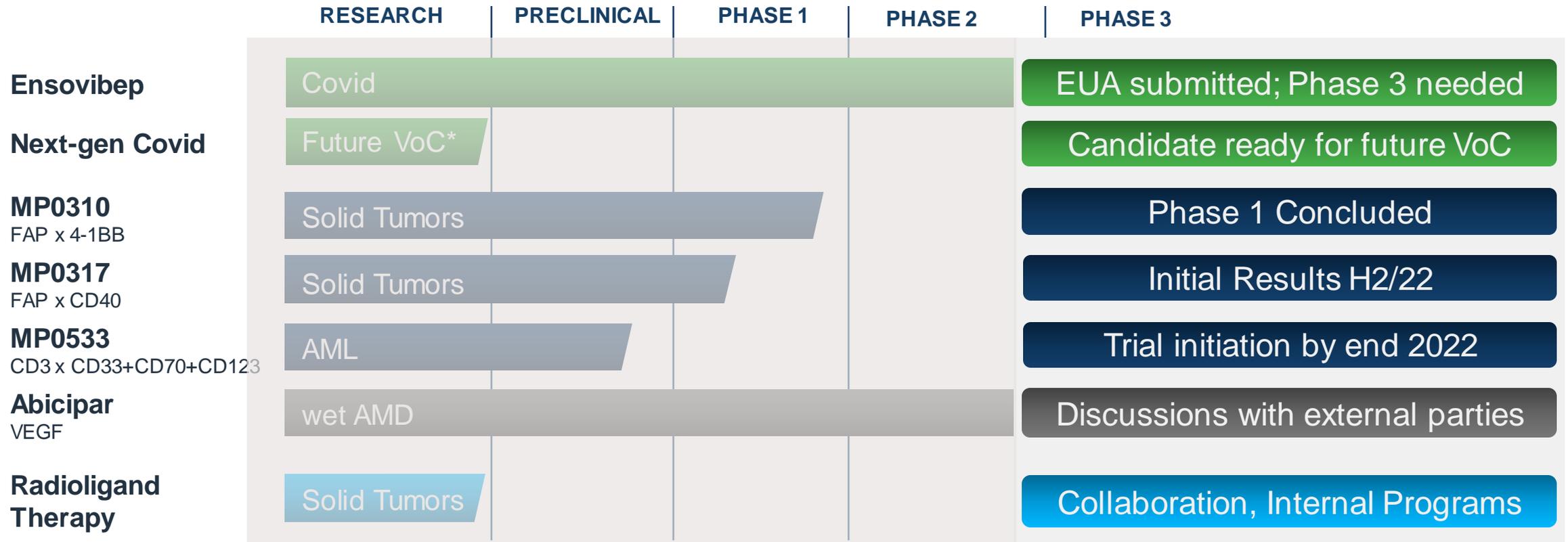
# Q3 2022 Financial Highlights

- Strong financial position with CHF 267 million in cash (incl. short term deposits) as of September 30, 2022
- Operating profit of CHF 132 million and net profit of CHF 135 million for the nine months ended September 30, 2022
- Company continues to expect to be funded into 2026, excluding any potential payments from R&D partnerships
- Updated FY 2022 expense guidance of CHF 70-75 million
- 3.5 million treasury shares created on Aug 25, 2022

# Financial Guidance for Full-Year 2022

- Total expenses of CHF 70-75 million for FY2022, of which around CHF 9 million non-cash effective costs
- With CHF 267 million cash at hand (incl. short-term time deposits) and no debt, the Company is funded into 2026, excluding any potential receipts from R&D partners
- Guidance subject to progress and changes of pipeline as well as financial markets

# Summary and H2 Newsflow



Cash into 2026



Molecular Partners AG  
Wagistrasse 14  
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# Molecular Partners Leadership



**Patrick Amstutz, PhD**  
*Chief Executive Officer*



**Andreas Emmenegger**  
*Chief Financial Officer*



**Michael Pitzner**  
*General Counsel, SVP Legal*



**Michael Stumpp, PhD**  
*EVP, Projects*



**Renate Gloggner**  
*EVP, People and Community*



**Daniel Steiner, PhD**  
*SVP Research*



**Nicolas Leupin, MD, PhD**  
*Chief Medical Officer*

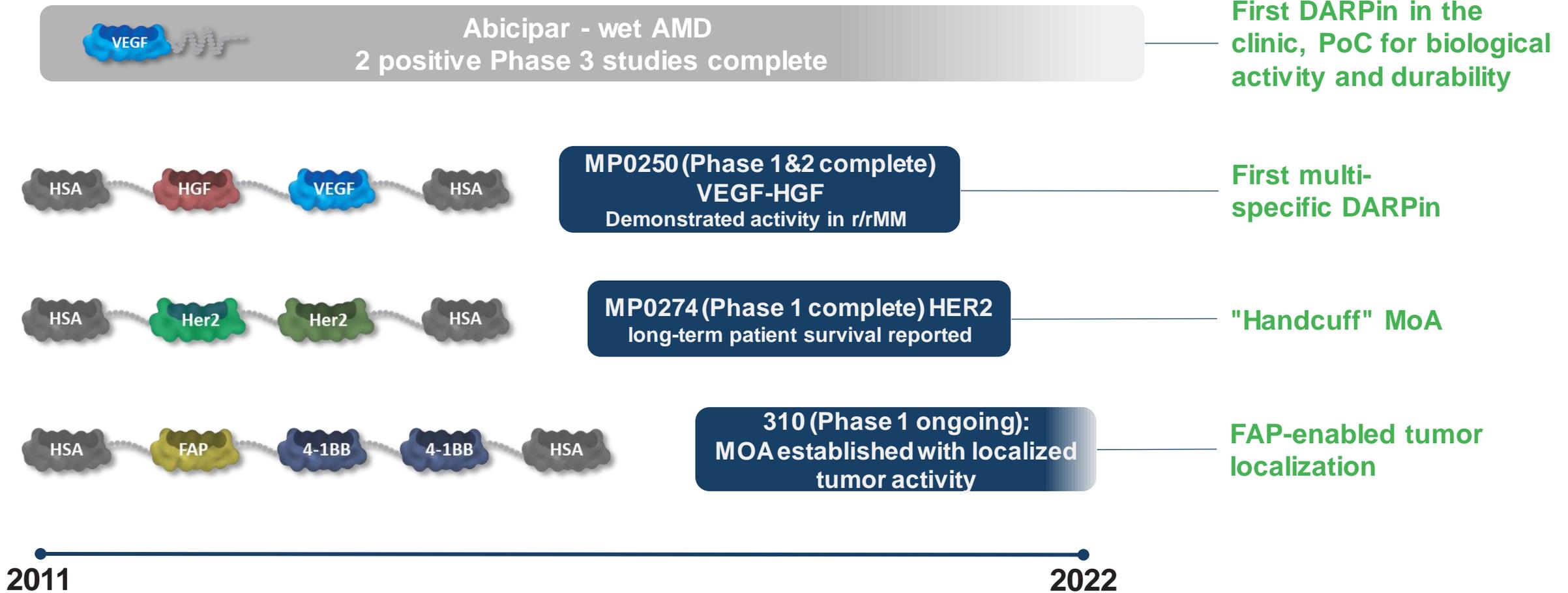


**Alexander Zürcher, PhD**  
*Chief Operating Officer*



**Anne Goubier, DVM, PhD**  
*SVP, Head of Biology*

# Established Assets for External Collaboration

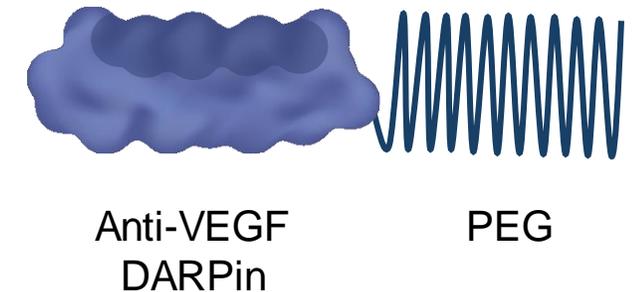




**Abicipar**

# Abicipar – Long-acting Anti-VEGF in Wet AMD

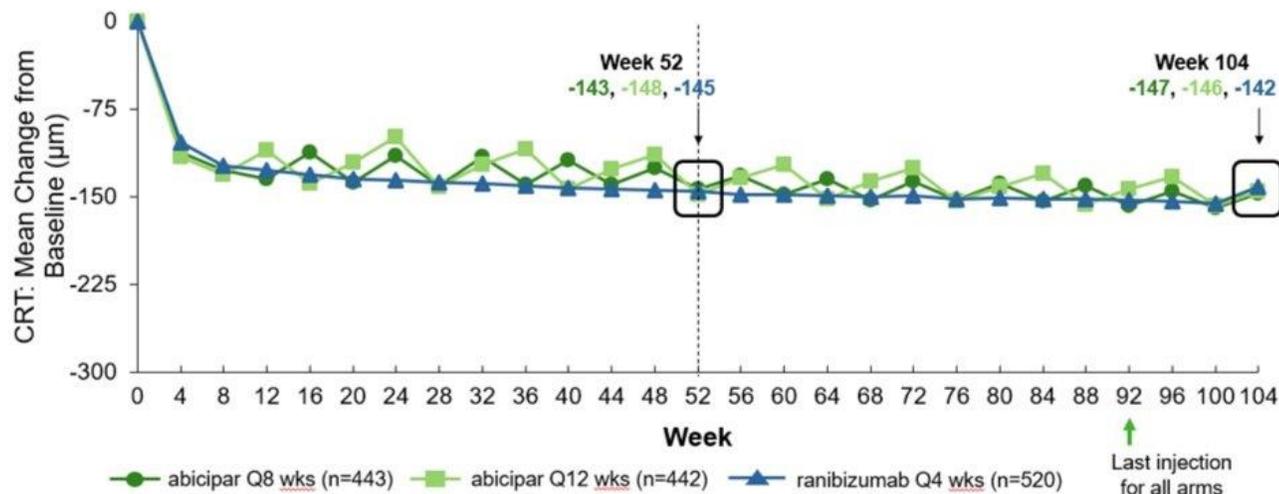
- **wAMD market & remaining medical need**
  - US 10 bn\$ /year
  - Competitors: Eylea & **Faricimab** – fix 8 weeks, treat and extend (T&E) to 16 week
  - T&E is sub-optimal in the real-world setting: patients lose vision
- **Abicipar history, value and path forward**
  - Abicipar has two successful Ph3 trials (Cedar, Sequoia; 2019); non-inferiority with 12-week dosing
  - Abicipar was returned to MP last year (2021), following an FDA CRL in 2020 (15% inflammation)
  - Potential inflammation causing agent identified in preclinical studies and to be removed for future clinical studies (2021/22)
- **Path forward: FDA supports single safety trial as path to approval**
  - Single safety trial vs Eylea
  - 550 pts total
  - 40 week read out



# Abicipar Non-inferiority Shown in CEDAR & SEQUOIA (Phase 3)

## Secondary Endpoint: Mean Change in CRT From Baseline at Weeks 52 and 104

Phase III CEDAR & SEQUOIA



**CRT improvement after initial doses were maintained to Week 104 with quarterly abicipar injections (10) vs. monthly ranibizumab injections (25)**

CRT = central retinal thickness

*Abicipar is under investigation and the safety and efficacy of this product have not been established.*

1. Khurana RN, et al. Presented at AAO 2019 Annual Meeting in San Francisco, CA, USA; Oct 12-15, 2019.

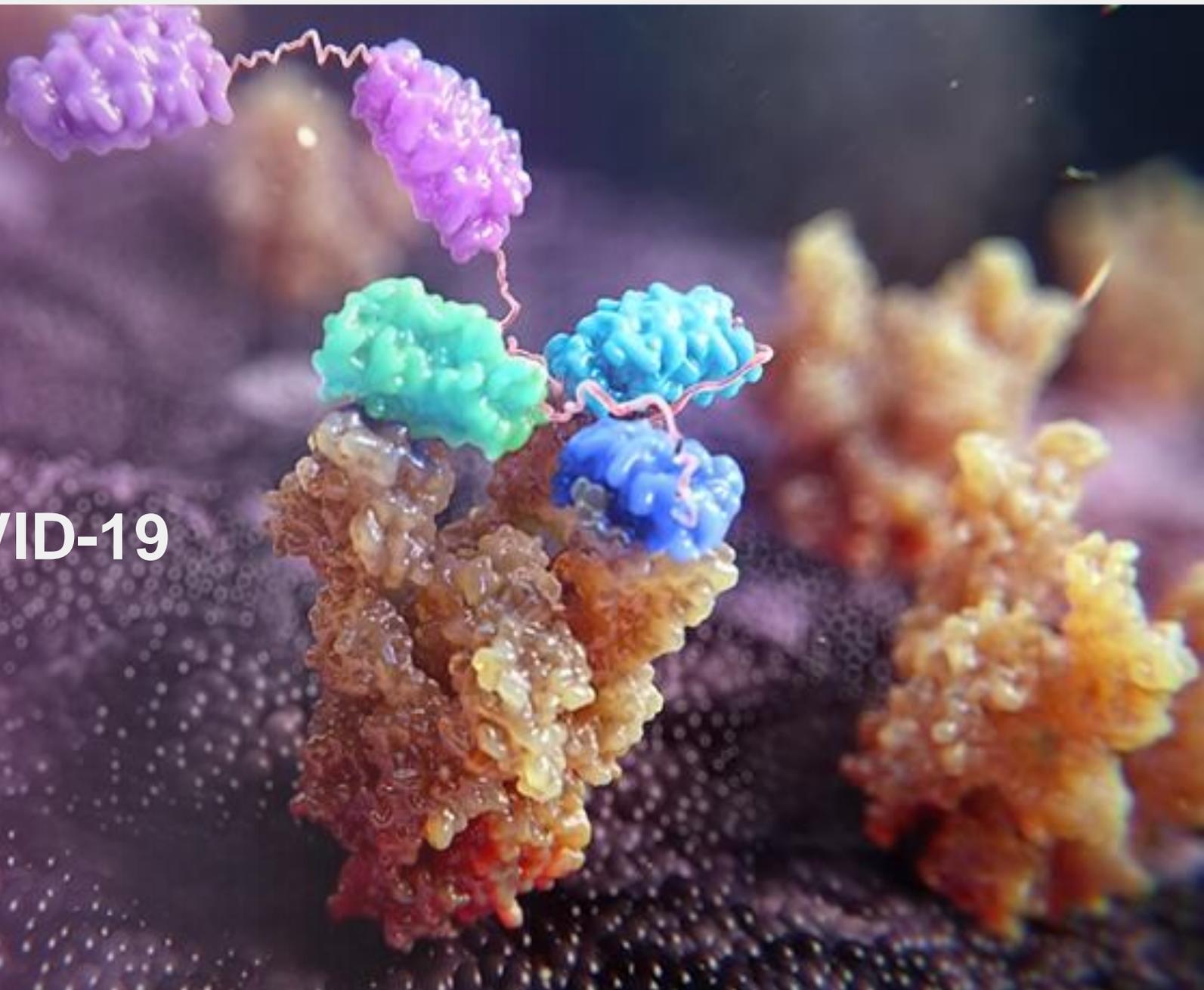
- Abicipar as effective as Lucentis
  - 10 injections instead of 25 (2 y)
  - CRT “biomarker” for activity
- Fixed Q12w regimen proven
  - Potential to simplify visits
- Side effect profile (15% inflammation) lead to CRL
- **Potential inflammation causing agent identified and to be removed**

**exploring opportunities to develop Abicipar outside MP**



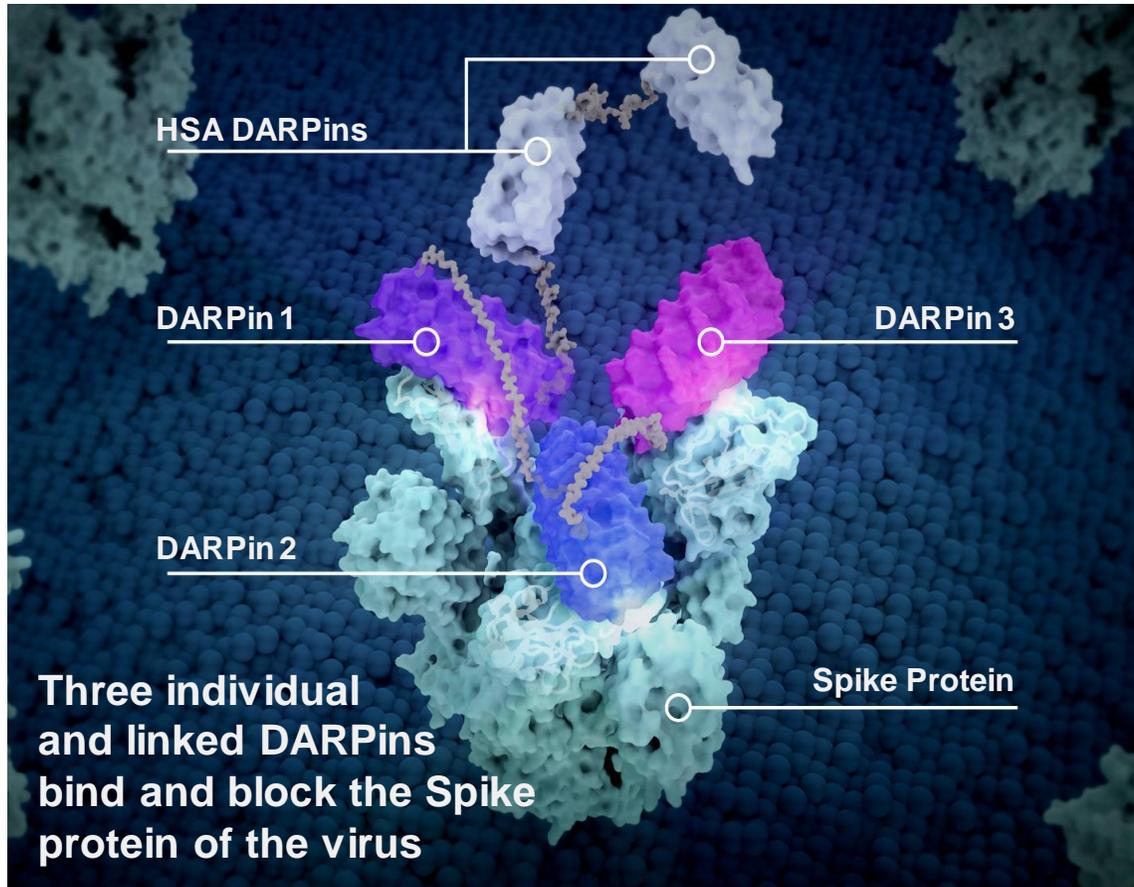
**Ensovibep:**

**Advancement of COVID-19  
Clinical Program**



# Structure and Features of Ensovibep Neutralizing the SARS-CoV-2 Spike Protein

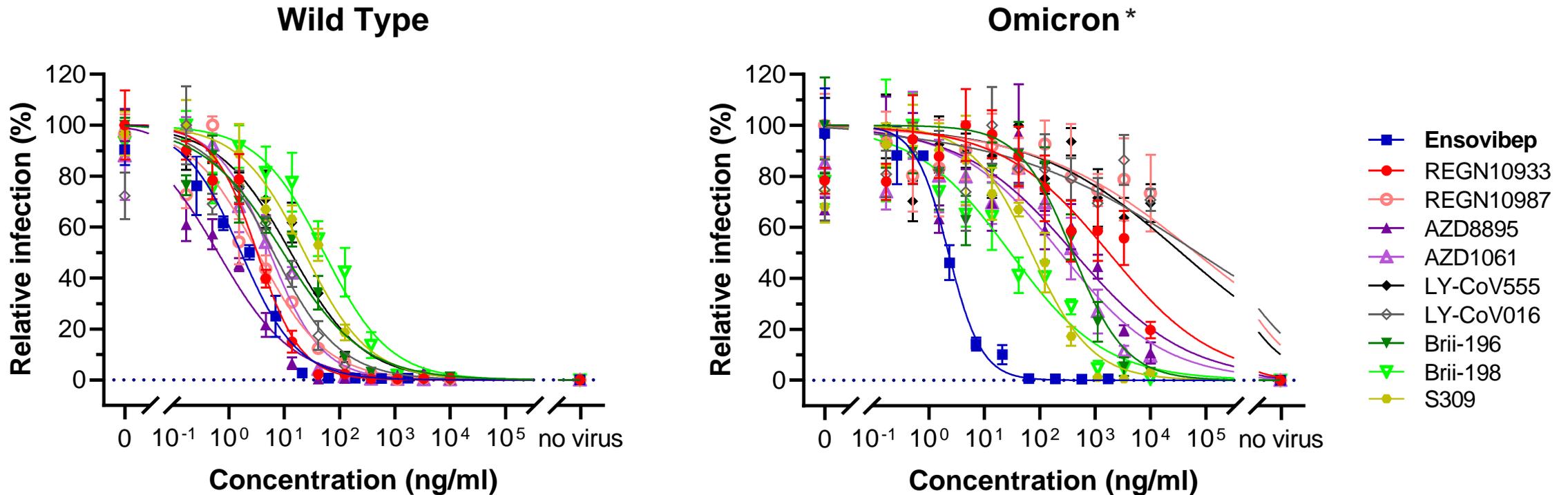
## 3D model of a DARPin molecule



## Characteristics

- High potency: high binding affinity and avidity leads to one of the highest anti-viral potencies reported to date
- Pan variant activity: cooperative binding of different sites allows blocking of all described variants of concern, so far
- Simple administration: long-half life, high solubility and low dose activity can allow for single administration via i.v., i.v. bolus, or s.c. injection
- Supply: microbial manufacturing in *E.Coli*, large scale GMP established at Sandoz

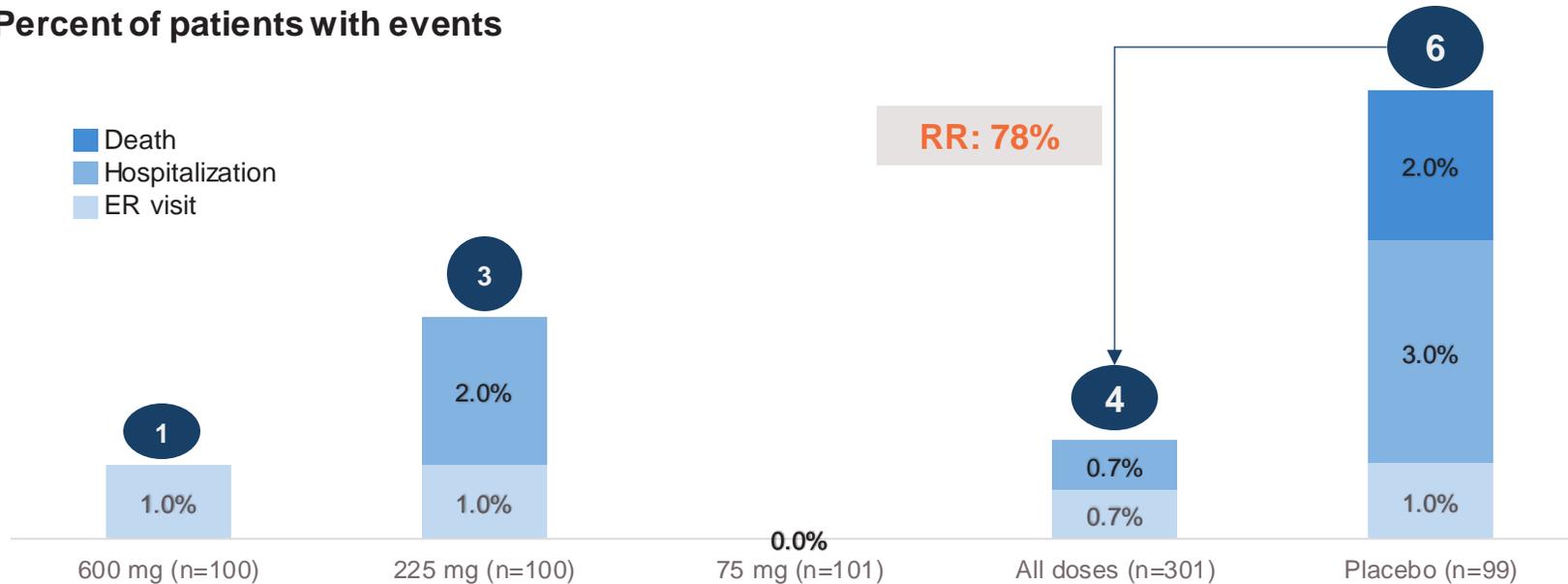
# Ensovibep Shows Multi-variant Activity



# Primary Endpoint (Viral reduction) Supported by Secondary Endpoint in Reductions in Hospitalization and/or ER Visit, or Death

## Patients with hospitalization and/or ER visit related to COVID-19 or death

### Percent of patients with events



Numbers indicate absolute number of patients

### Note:

In the hierarchy of ER-visit/hospitalization/death- patients are counted in the highest category

- ER visits exclude those resulting in hospitalization/ death
- Hospitalizations exclude those that resulted in death