



H1 2022 Corporate Highlights and Financials

August 26, 2022

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



Disclaimer

This presentation contains forward looking statements. Any statements contained in this presentation that do not describe historical facts may constitute forward-looking statements as that term is defined in the Private Securities Litigation Reform Act of 1995, as amended, including, without limitation, implied and express statements regarding the clinical development of Molecular Partners' current or future product candidates, including expectations regarding timing for reporting data from ongoing clinical trials or the initiation of future clinical trials, expectations regarding interactions with regulatory authorities, the potential therapeutic and clinical benefits of Molecular Partners' product candidates, the selection and development of future antiviral or other programs, or other potential business development opportunities for product candidates, and Molecular Partners' expected expenses and cash utilization for 2022 and that its current cash resources will be sufficient to fund its operations and capital expenditure requirements into 2026. These statements may be identified by words such as "anticipate", "believe", "could", "expect", "intend", "may", "plan", "potential", "will", "would" and similar expressions, although not all forward-looking statements may contain these identifying words, and are based on Molecular Partners' current beliefs and expectations. These statements involve risks and uncertainties that could cause actual results to differ materially from those reflected in such statements. Some of the key factors that could cause actual results to differ from our expectations include Molecular Partners' or its collaborators' plans to develop and potentially commercialize its product candidates; Molecular Partners' reliance on third party partners and collaborators over which it may not always have full control; Molecular Partners' ongoing and planned clinical trials and preclinical studies for its product candidates, including the timing of such trials and studies; the risk that the results of preclinical studies and clinical trials may not be predictive of future results in connection with future clinical trials; the timing of and Molecular Partners' ability to obtain and maintain regulatory approvals for its product candidates; the extent of clinical trials potentially required for Molecular Partners' product candidates; the clinical utility and ability to achieve market acceptance of Molecular Partners' product candidates; the potential impact of the COVID-19 pandemic or other geopolitical events on Molecular Partners' preclinical studies, clinical trials or operations, or the operations of third parties on which it relies; Molecular Partners' plans and development of any new indications for its product candidates; Molecular Partners' commercialization, marketing and manufacturing capabilities and strategy; Molecular Partners' intellectual property position; Molecular Partners' ability to identify and in-license additional product candidates; the adequacy of Molecular Partners' cash resources and our anticipated cash utilization; and other risks and uncertainties that are described in the Risk Factors section of Molecular Partners' Annual Report on Form 20-F for the year ended December 31, 2021 filed with the Securities and Exchange Commission (SEC) on March 15, 2022, and other filings Molecular Partners makes with the SEC. These documents are available on the Investors page of Molecular Partners' website at <http://www.molecularpartners.com>.

Any forward-looking statements speak only as of the date of this presentation and are based on information available to Molecular Partners as of the date of this presentation, and except to the extent required by law, Molecular Partners assumes no obligation to, and does not intend to, update any forward-looking statements, whether as a result of new information, future events or otherwise.

Molecular Partners H1 Highlights



Science Highlights:

MP0533: Tri-specific T-cell engager for AML

- On track to reach clinical initiation by end 2022
- Presentation at EHA 2022 Congress

MP0317: Bi-specific CD40 local agonist

- In Phase 1 – enrollment ongoing at 1 mg/kg dose level
- Publication in *Cancer Immunology Research*
- Data in H2/2022

Ensovibep: Tri-specific anti-viral in COVID-19

- Positive Phase 2 data from EMPATHY trial
- Licensed to Novartis, CHF 210 million received, to date
- EUA submitted and pending, Novartis engaging with the FDA to develop a Ph III protocol

DARPin-radioligand therapies:

- Deal with Novartis on 2 targets: CHF 18.6 million received, to date
- Internal research – ongoing

Abicipar:

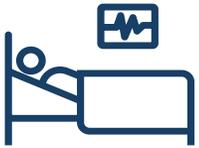
- FDA supports single safety trial for approval
- Reviewing path forward outside MP

Operational Highlights:

- Reported cash and equivalents as of June 30, 2022: CHF ~285 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

Pipeline

CANDIDATE / FOCUS	RESEARCH	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	RIGHTS
Ensovibep	Covid					 NOVARTIS
Next-gen Covid	Future VoC*					
MP0310 FAP x 4-1BB	Solid Tumors					
MP0317 FAP x CD40	Solid Tumors					
MP0533 CD3 x CD33+CD70+CD123	AML					 MOLECULAR partners
Abicipar VEGF	wet AMD					
Radioligand Therapy	Solid Tumors					 NOVARTIS

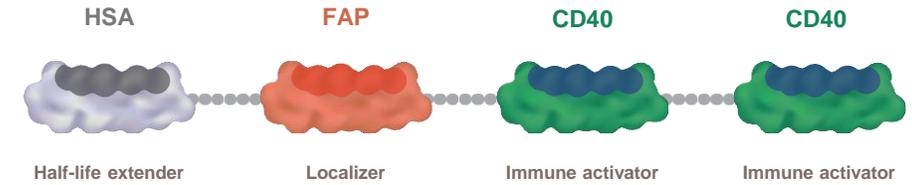
PLATFORM DISCOVERY AREAS

Radical simplicity & conditional activation

Additional infectious diseases

■ Infectious disease ■ Ophthalmology
■ Oncology ■ Discovery oncology

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**

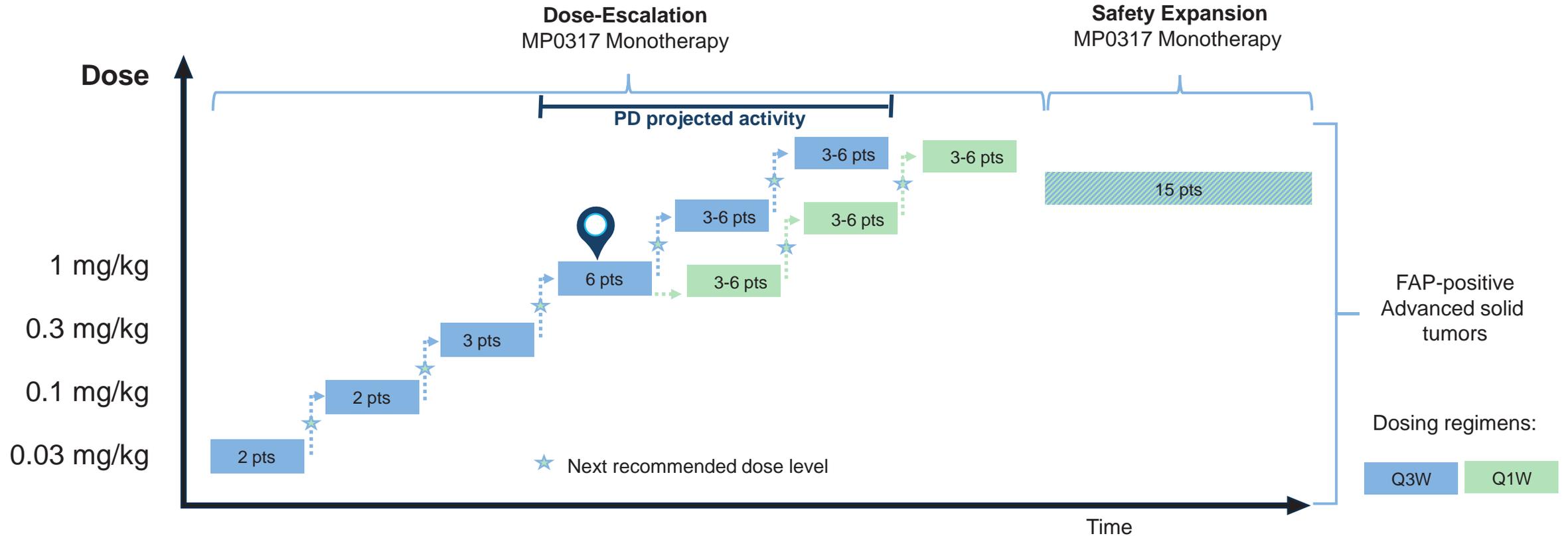
Reason to believe

- ✓ Pre-clinical data demonstrates tumor localized immune activation without systemic toxicity
- ✓ Clinical data with MP0310 (FAPx4-1BB) demonstrating tumor localization of FAP-targeting DARPin
- ✓ Phase 1 dose-escalation trial ongoing with MP0317 – **1 mg/kg dose reached without systemic toxicity**

Next value

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

MP0317-CP101 Clinical Trial Update



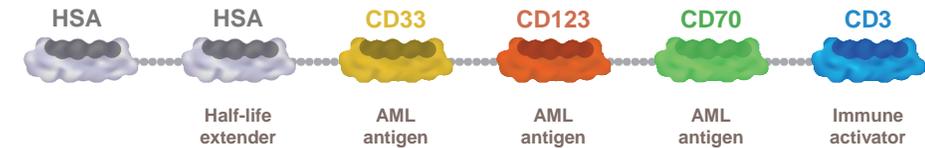
Next:

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



Recruiting at 1 mg/kg dose

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 avidity) 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

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;



ASH EVENT SAVE THE DATE

December 10, 2022

New Orleans

Investor and analyst meeting:
current findings and upcoming
milestones of MP0533



MOLECULAR
partners

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**

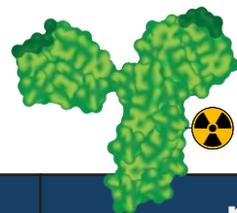
Reason to believe

- ✓ 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

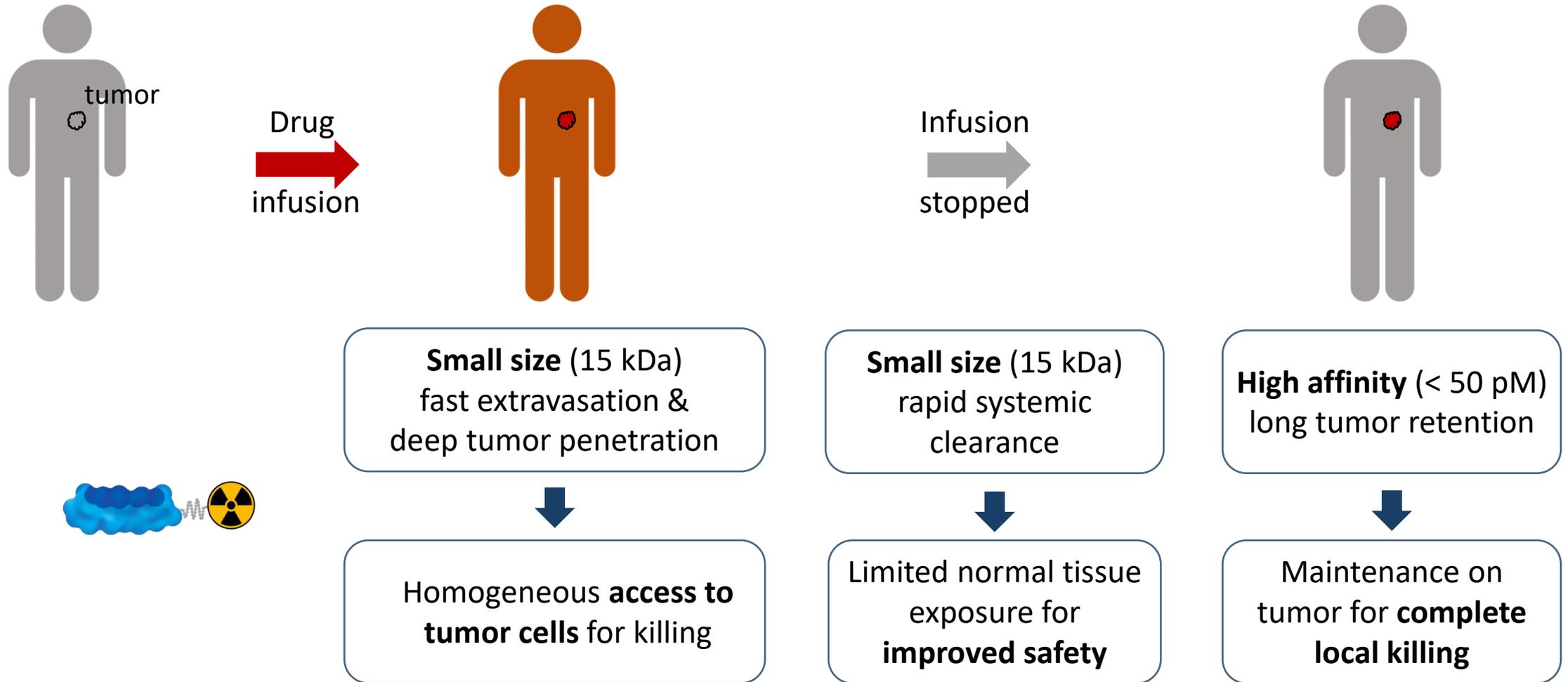
Challenges of Delivery Vectors for Radionuclides



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

Mono-DARPPins as Ideal Delivery Vectors for Radionuclides

Designed for efficient tumor targeting with limited systemic exposure





H1-2022 Financials

Andreas Emmenegger – CFO

H1 2022 Financial Highlights

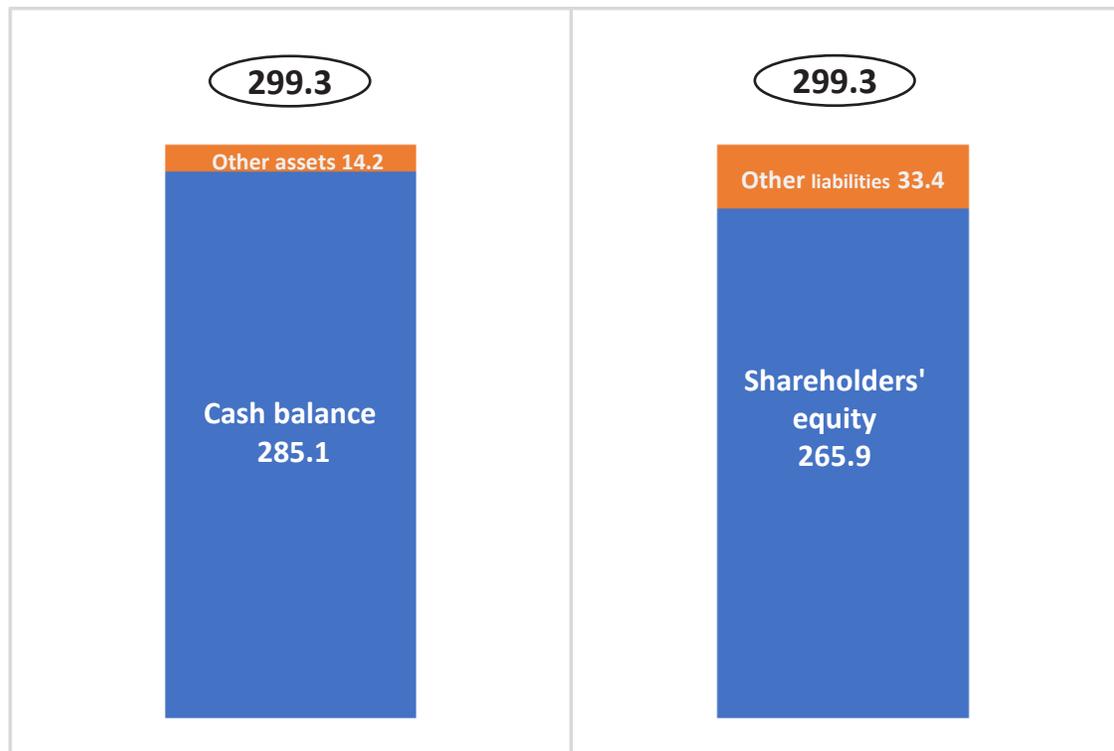
- Strong financial position with CHF 285.1 million in cash (including short term deposits) as of June 30, 2022
- Revenue of CHF 184.5 million primarily due to payment received from Novartis upon exercise of option to in-license global rights to ensovibep
- Net cash from operating activities of CHF 151.0 million in H1 2022
- Operating profit of CHF 146.3 million and net profit of CHF 148.6 million in H1 2022
- Company expected to be funded into 2026, excluding any potential payments from R&D partnerships
- Updated FY 2022 expense guidance of CHF 70-80 million
- 3.5 million treasury shares created on Aug 25, 2022

Key Figures H1 2022

(CHF million, except per share and FTE data)	H1 2022	H1 2021	Change
Revenues	184.5	4.4	180.1
Total Operating expenses	(38.3)	(39.2)	0.9
Operating Result	146.3	(34.8)	181.1
Net financial result	2.3	1.2	1.1
Net result	148.6	(33.6)	182.2
Basic net result per share (in CHF)	4.6	(1.1)	5.7
Net cash used in / generated from operations	151.0	(52.5)	203.5
Cash Balance (including short-term time deposits) as of June 30	285.1	174.3	110.8
Number of FTE's as of June 30	164.0	158.3	5.7

Balance Sheet

as of June 30, 2022 (CHF million)



• Comments

- Strong and debt free balance sheet
- CHF 285.1 million cash balance (incl. time deposits) – 95% of total assets
- Equity base of CHF 265.9 million
- Other assets include PPE, prepayments as well as other receivables.
- Other liabilities include CHF 14.4 million in relation to Novartis (revenue to be recognized), CHF 5.4 million lease liability, CHF 0.4 million for accrued employee benefits plus CHF 13.1 million for other current liabilities

Financial Guidance for Full-Year 2022

- Total expenses of CHF 70-80 million for FY2022, of which around CHF 9 million non-cash effective costs
- With CHF 285.1 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



Abicipar

Abicipar – long-acting anti-VEGF in wet AMD

- **wAMD market & remaining medical need**

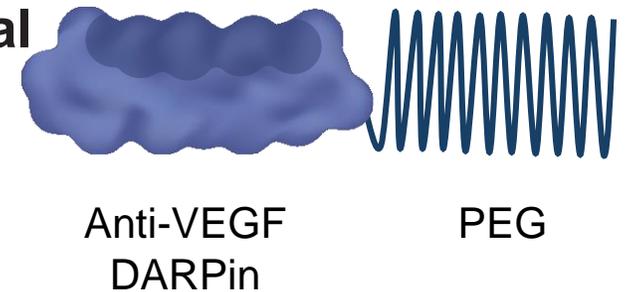
- US 10 bn\$ /year
- Competitors: Eylea & **Faricimab** – fix 8 weeks, treat and extend (T&E) to 16 week
- T&E is sub-optimal in the real-world setting: patients lose vision

- **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

- **Path forward: FDA supports single safety trial as path to approval**

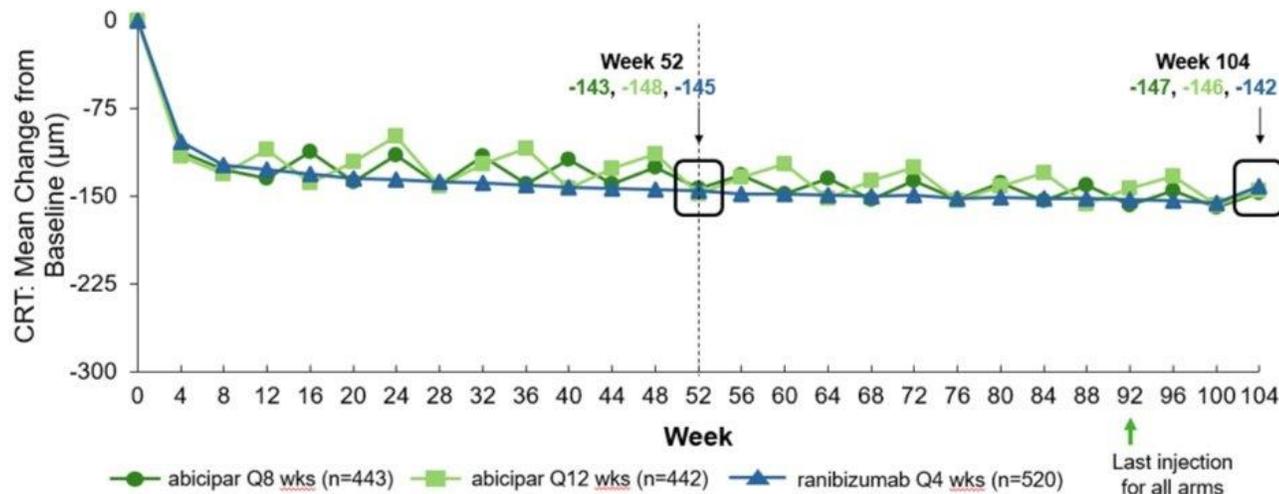
- Single safety trial vs Eylea
- 550 pts total
- 40 week read out



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
- Inflammation causing agent identified and removed

exploring opportunities to develop Abicipar outside MP

Summary and H2 Newsflow

Ensovibep

Covid

EUA submitted; Phase 3 needed

Next-gen Covid

Future VoC*

Candidate ready for future VoC

MP0310

FAP x 4-1BB

Solid Tumors

Phase 1 Concluded

MP0317

FAP x CD40

Solid Tumors

Initial Results H2/22

MP0533

CD3 x CD33+CD70+CD123

AML

Trial initiation by end 2022

Abicipar

VEGF

wet AMD

Discussions with external parties

**Radioligand
Therapy**

Solid Tumors

Collaboration, Internal Programs





Questions

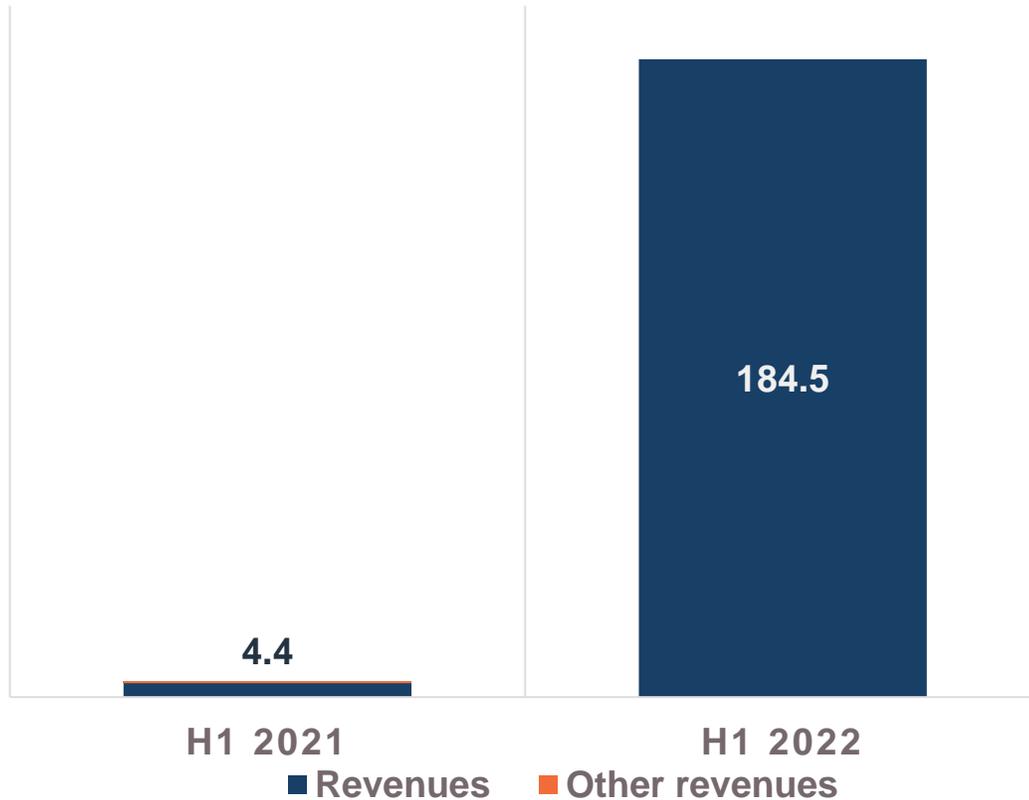




Appendix

Revenues

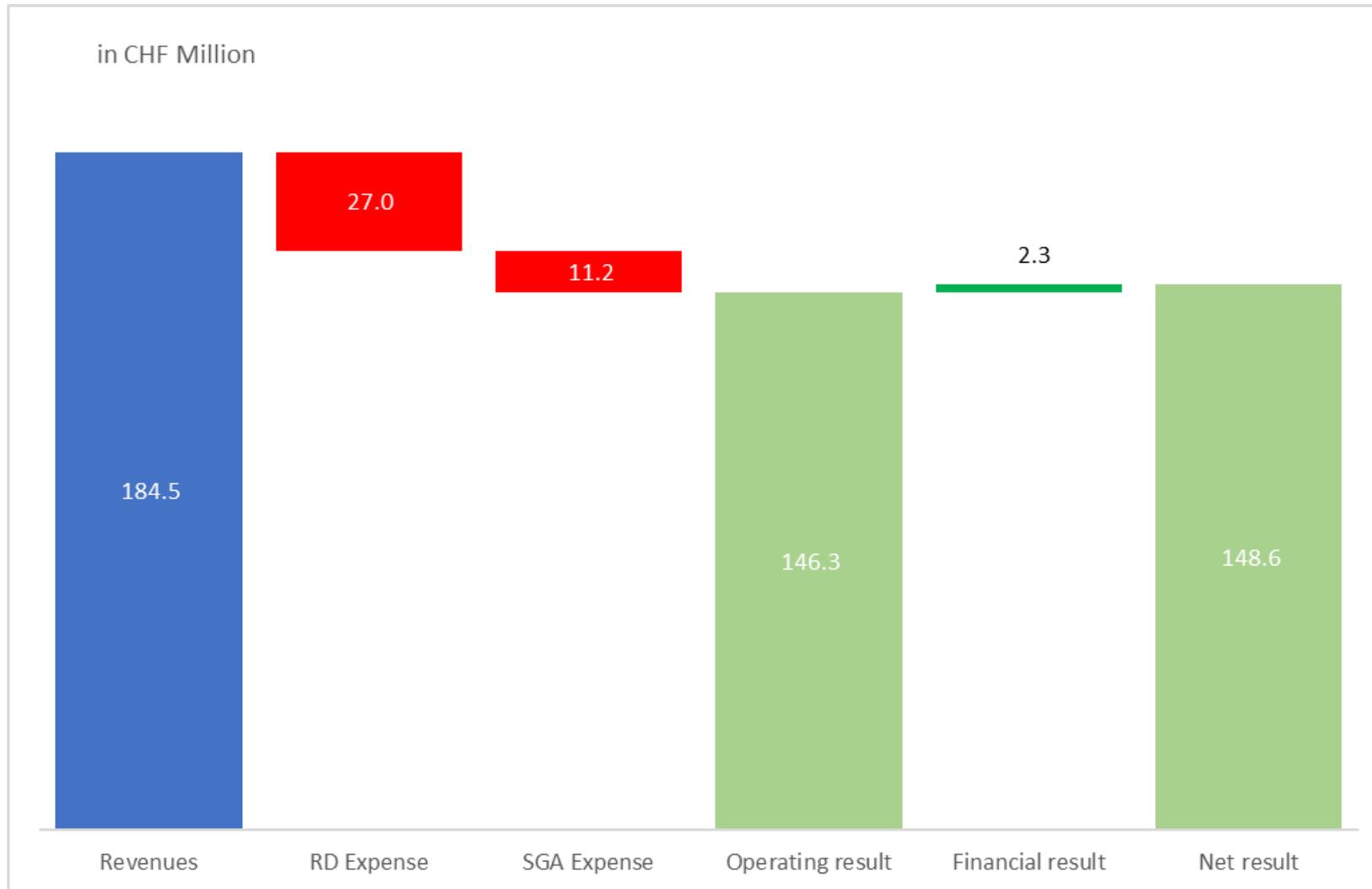
In CHF million



Comments

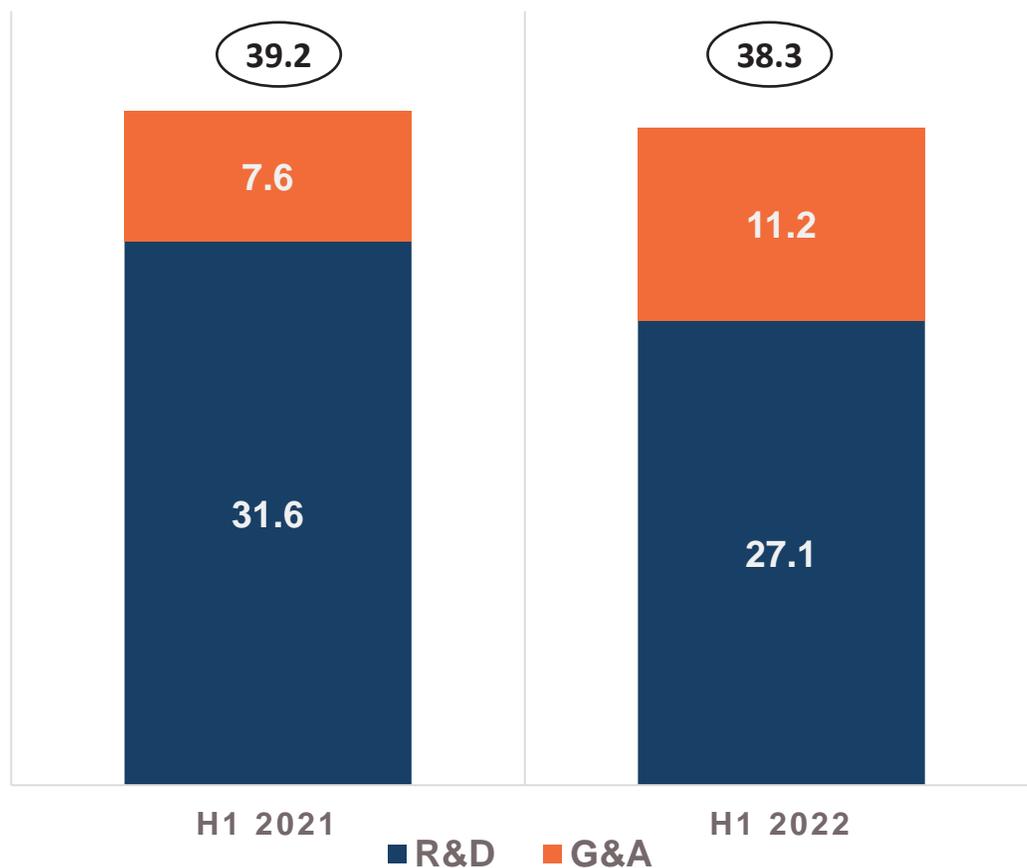
- H1 2021: CHF 4.0 million recognized out of contract liabilities related to the Amgen collaboration. CHF 0.4 million other income from Novartis collaboration
- H1 2022: CHF 167.9 from Novartis (ensovibep option exercise and NIBR collaboration), CHF 9.7 million from Amgen collaboration plus CHF 7.0 million from BAG Covid Agreement

P&L break-down



Operating Expenses

in CHF million (incl. depreciation & amortization)



Comments

- In H1 2022 main expense positions and drivers were:
 - CHF 20.5 million People related expenses
 - CHF 9.5 million external R&D costs
 - CHF 8.3 million other (consulting and professional fees, facility, D&O insurance following US listing, and general office expenses plus depreciation)
- Included are CHF 4.6 million non-cash effective costs