Molecular Partners: Novel Therapeutic Designs Applied

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Molecular Partners in Brief



Strengthened Team, Solid Funding

- Nicolas Leupin as joined as CMO from Argenx
- Daniel Steiner assumed leadership of research department
- Seth Lewis joined Boston office to head up global IR, Comms & Strategy
- ✓ Ana Cerdeira heading up Portfolio
 Management and Global Strategy
- Well financed through mid-2021, on-track towards recurring income with expected abicipar launch in 2020 by Allergan



Burgeoning Oncology Pipeline

- MP0250 focused on MM with unique activity in patients that did not benefit from other treatments
- MP0310 (AMG 506): Collaboration with Amgen to co-develop MP0310 & first patient cohort dosed in Phase 1 trial
- New development candidate, MP0317 (FAPxCD40), added to pipeline
- ✓ First DARPin[®] candidates binding peptide-MHC passed specificity threshold



Progress Towards Approval

- ✓ BLA of abicipar accepted by FDA, MAA of abicipar validated by EMA
- ✓ >90% of patients show vision gains which were maintained in the 2nd year with q12 dosing of abicipar
- MAPLE data supports optimized manufacturing process for improved tolerability



Key Advantages of Molecular Partners

Validated source of DARPin[®] Candidates

Flexible business model to maximize product value

Deliver patient value with our strong team

Novel Therapeutic Designs

- 1. Tumor-local immune agonists
- 2. pMHC targeting platform
- 3. Next Gen T-cell engagers

Advanced and balanced Clinical Development Portfolio



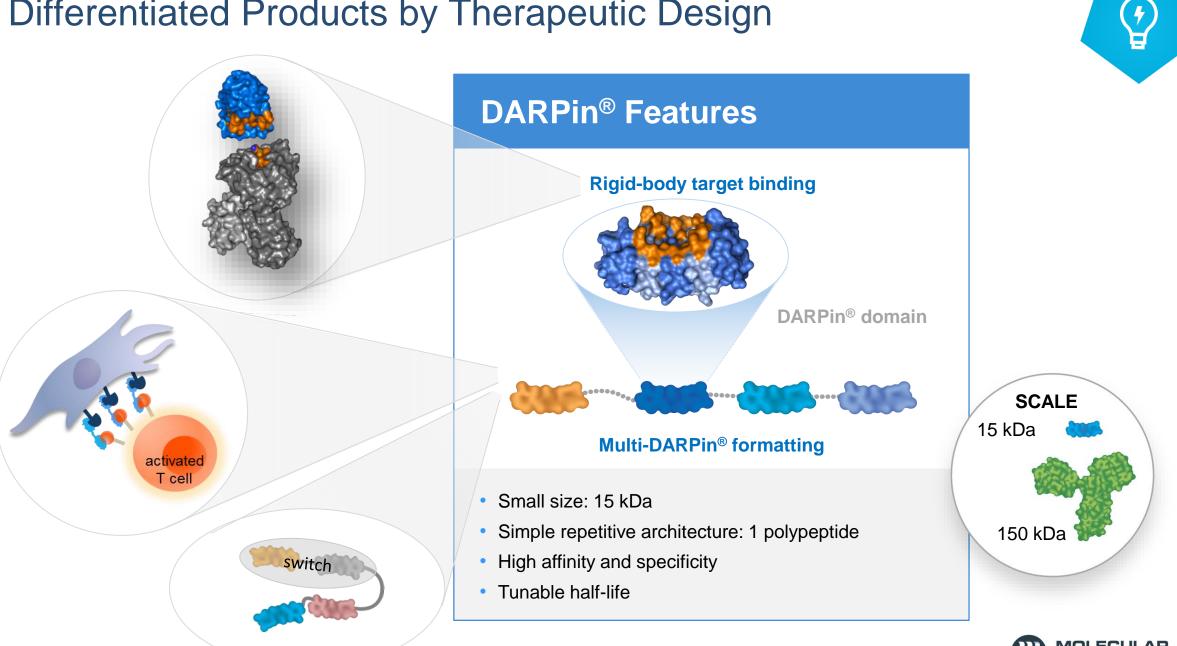
DARPin® Platform: A Validated Source for Drug Candidates



- Abicipar: Ophthalmic validation
 - Demonstrated safety and activity in >1,500 patients
 - Manufacturing at commercial scale established
 - Regulatory applications accepted by FDA and EMA
- MP0250: Systemic validation
 - Long half-life (HSA DARPin binder, 12 day half-life)
 - Low immunogenicity
 - Proof of multi-DARPin® potential to engage with multiple targets simultaneously
- Novel Therapeutic Designs (NTD) applied
 - Phase 1 enrolling for MP0310 (AMG 506)



Differentiated Products by Therapeutic Design



partners

Flexible Business Model to Maximize Product Value

- Investment in proprietary pipeline to bring DARPin[®] candidates forward
- Engage in **collaborations** to maximize product candidate value
 - Academic & industry collaborations to access biology capabilities
 - Allergan is advancing abicipar in ophthalmology
 - Collaboration with Amgen to co-develop MP0310

- Cross-funding of pipeline via partnered assets
 - AGN: USD 360m in potential MS & DD royalties to mid-teens
 - AMG: USD 50m upfront payment, USD 497m in potential MS & DD royalties to high-teens



Karolinska Institutet





AMGEN

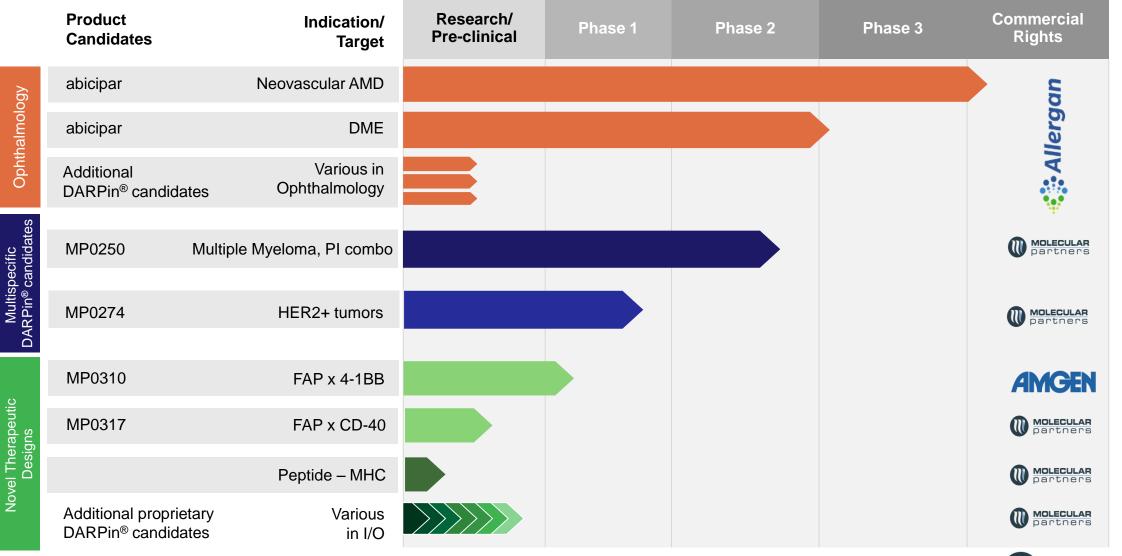
Allergan

Fully-owned assets

Biotech /

Pharma Partnership Academic Collaborations

A Balanced and Robust Portfolio

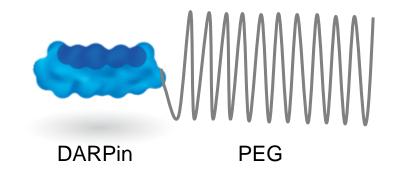




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Abicipar has the Potential to be the First Fixed 12 Week anti-VEGF



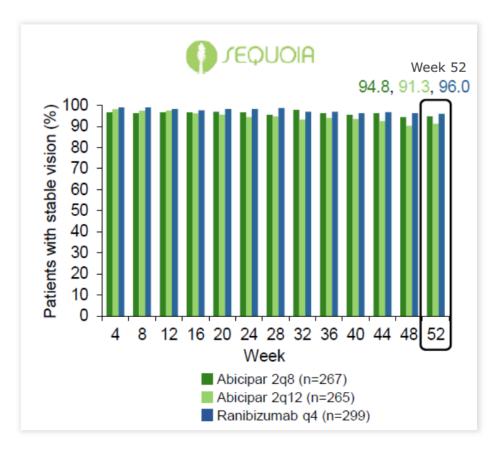


- Long-acting anti-VEGF
- Fix 12-week dosing
- Filed with FDA and EMA
- PDUFA date: summer 2020



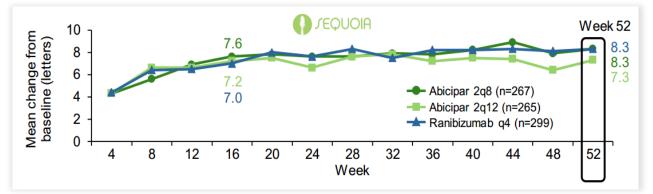


Phase 3 Efficacy Results (SEQUOIA study, 1yr data)



Primary Endpoint: STABLE VISION Abicipar Q8 and Q12 Non-Inferior to Ranibizumab Q4

Source: Allergan July, 2018 and October 2018



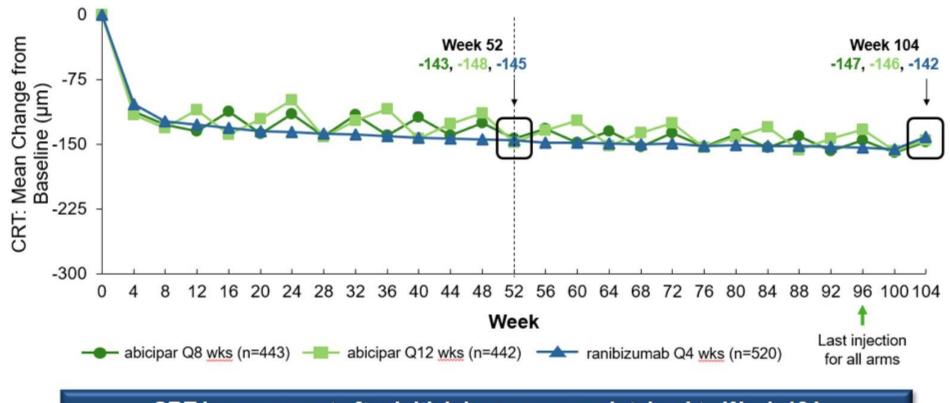
Secondary Endpoint: Change in BCVA From Baseline Abicipar Q8 and Q12 in SEQUOIA Non-Inferior to Ranibizumab



Secondary Endpoint: Change in CRT similar across in all groups



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



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

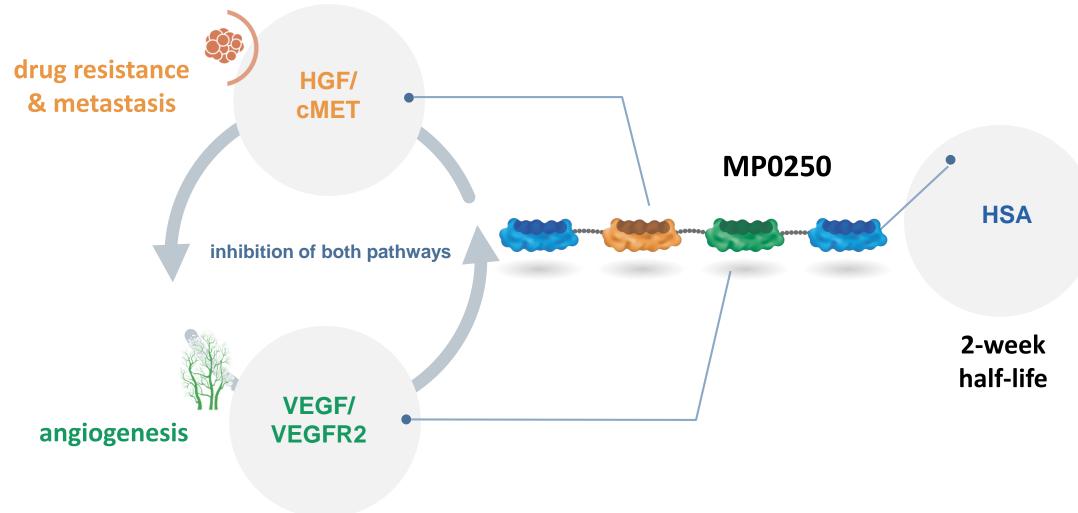
CRT = central retinal thickness

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.

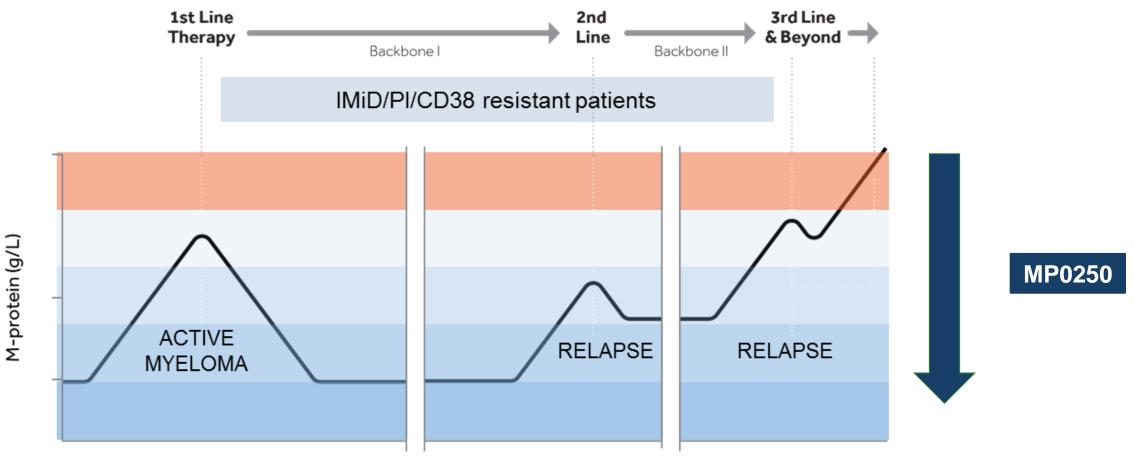


MP0250: Our First Multi-DARPin® Product Candidate





Illustrative course of disease of a MM patient*

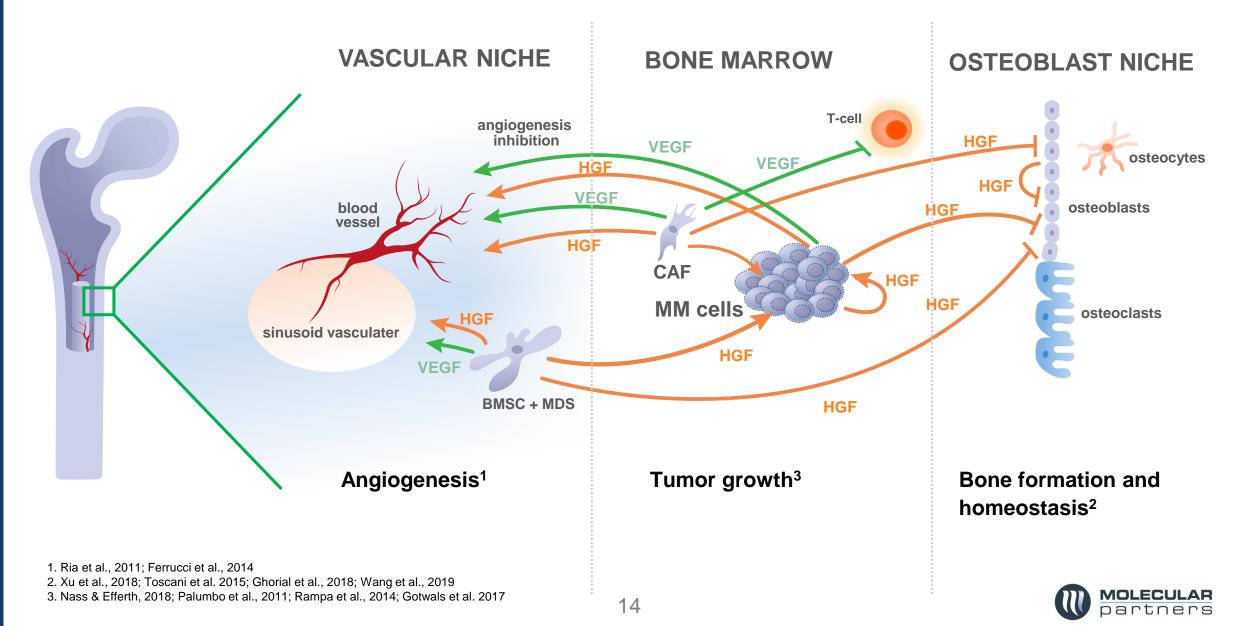


Time

* adapted from: Hajek, R. Strategies for the Treatment of Multiple Myeloma in 2013: Moving Toward the Cure. In "Multiple Myeloma: A Quick Reflection on the Fast Progress" (2013).

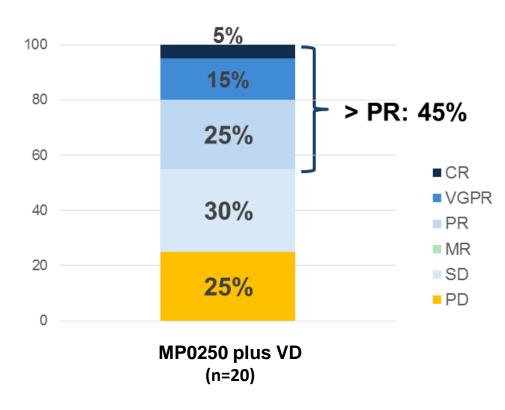


Paradigm Shift from "Chasing Clones" to Tackling Underlying Disease



MP0250: Durable & Deep Responses in Diverse MM Phenotypes

CP-201 trial: MP0250 in combination with bor/dex in R/RMM patients

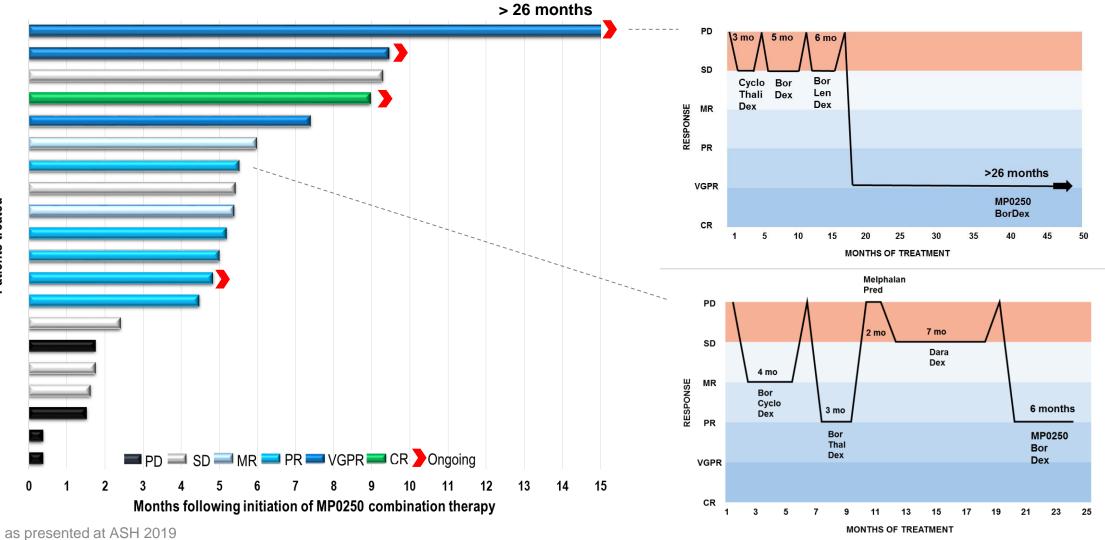


- Responses in patients who had never responded
- Heavily pretreated patients, representative of typical RRMM population; median of 4 prior lines (n=20)
- 4/6 patients coming **directly from Dara** had clinical benefit (incl. 4/5 Dara-refractory patients)
- 2 Patients with **17p deletion** progressed quickly

MP assessment based on IMWG criteria data cut-off Sep 2019 - as presented at ASH 2019



MP0250: Deep and Durable Responses



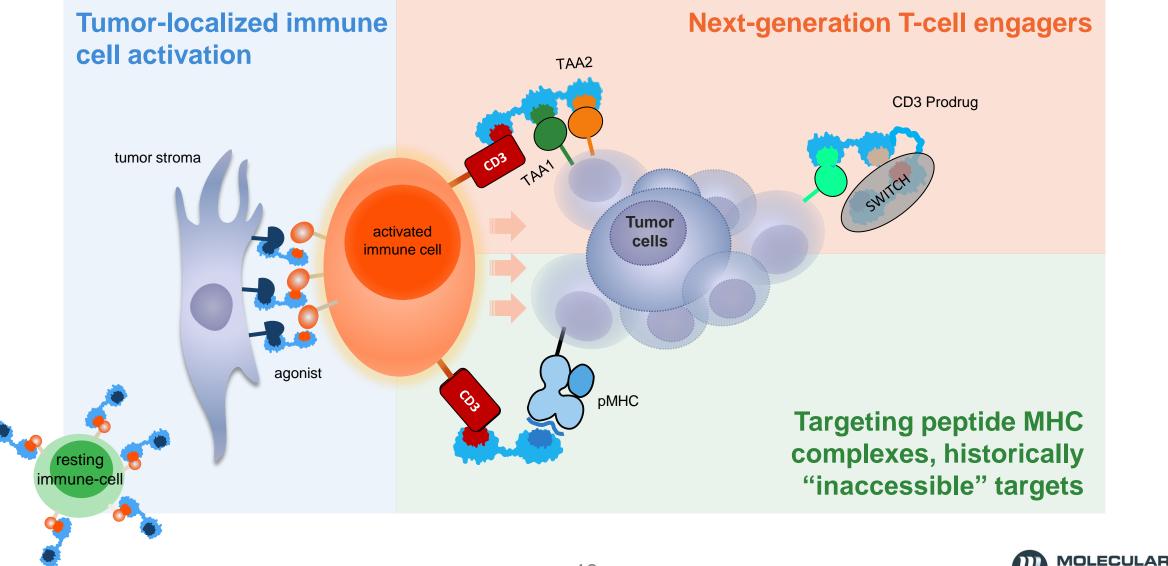
Patients treated



MOLECULAR partners

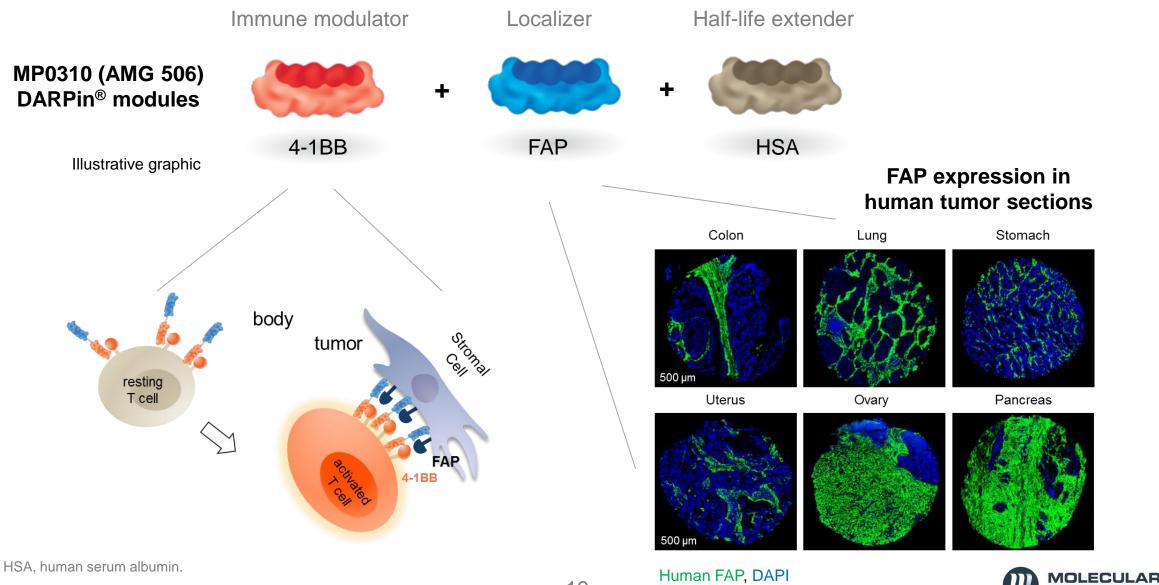
Novel Therapeutic Designs in Immuno - Oncology

Applying our Therapeutic DARPin® Designs



partners

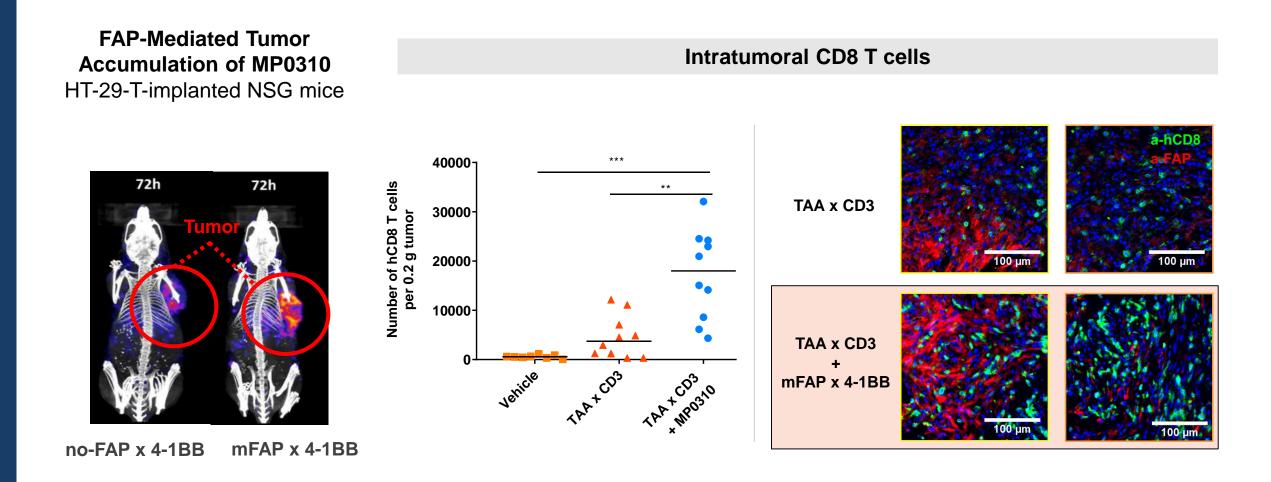
MP0310 (AMG 506; FAP x 4-1BB): Activating T cells in the Tumor



19

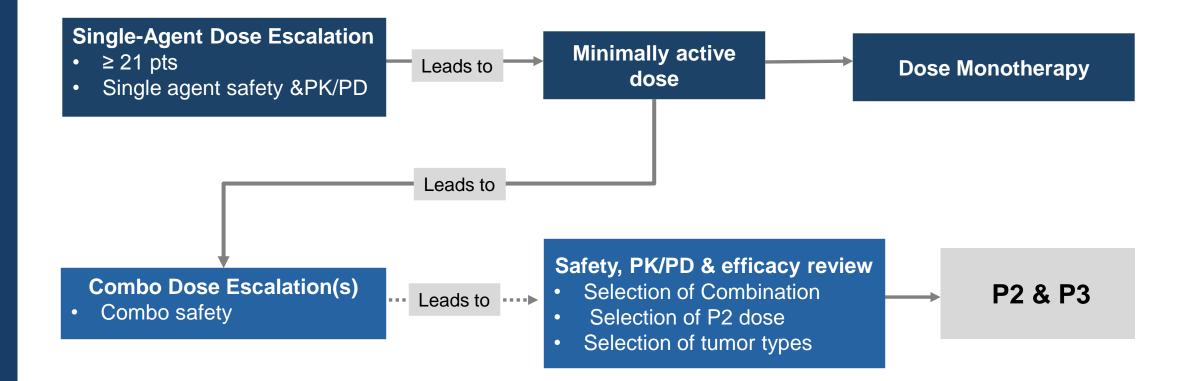
partners

Combined Therapy with MP0310 and TAA x CD3 Bi-Specific Results in Significant Increase of Intratumoral CD8+ T Cells





MP0310 (AMG 506) Clinical Study Design

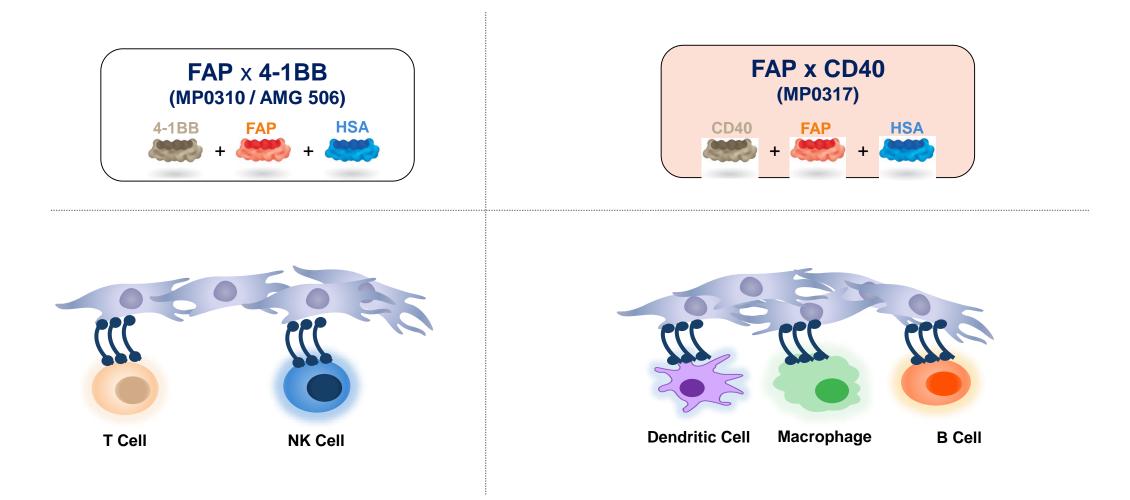


Dose escalation ongoing

• Expected to start MP0310 (AMG 506) combination trials in 2020

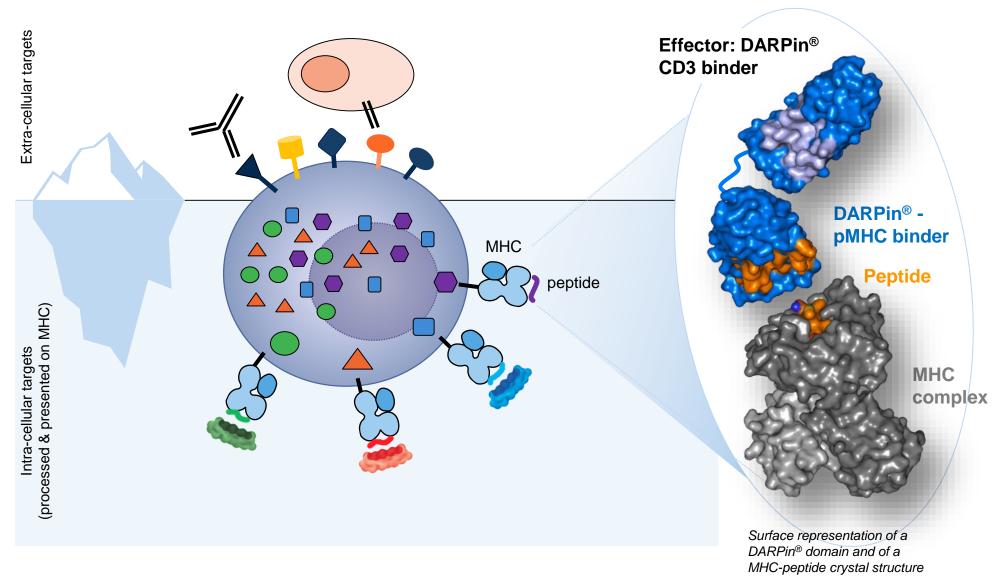


Expanding from Adaptive to Innate Principles: CD40 agonists





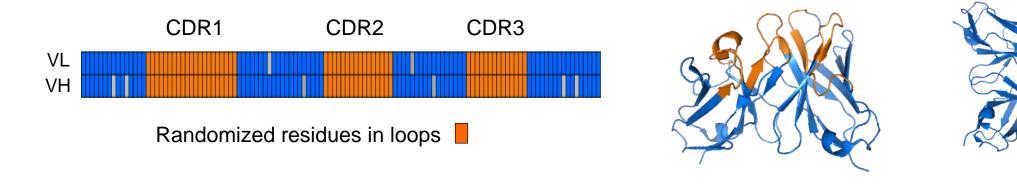
pMHC: Approach for "Inaccessible" Highly Selective Targets



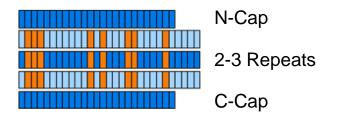


Leveraging DARPin[®] Features for pMHC

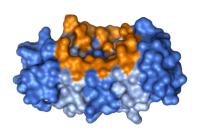
Antibody (Ig-) Domain: binding via flexible loops

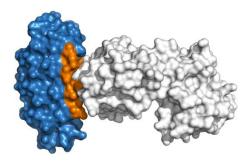


DARPin[®] Domain: binding via rigid surface



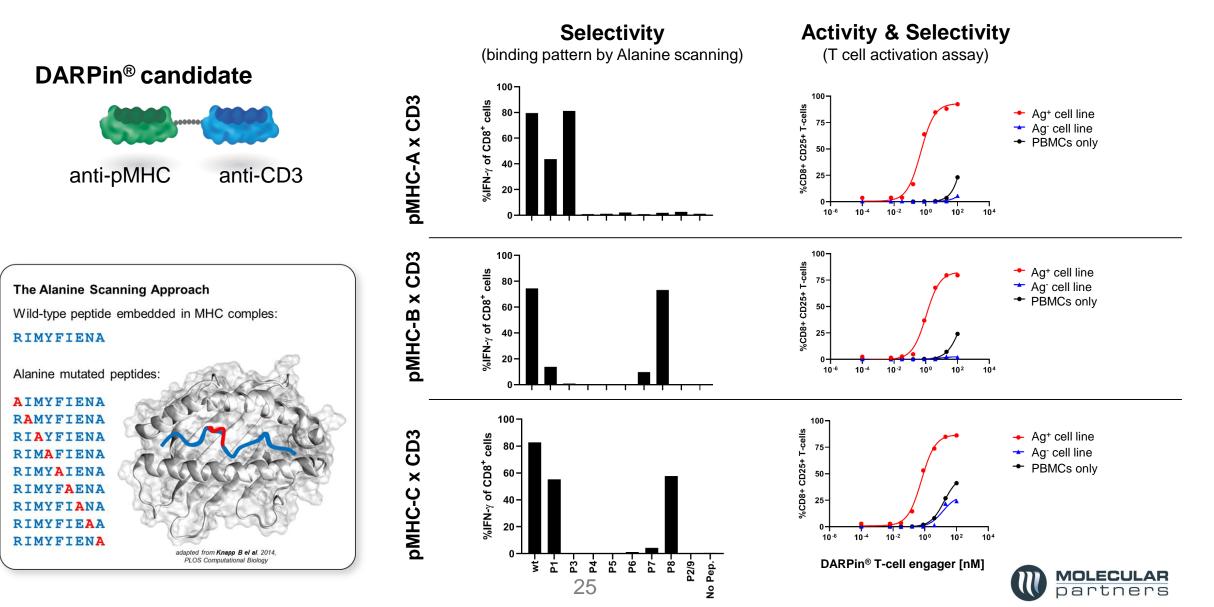
Randomized residues on rigid surface



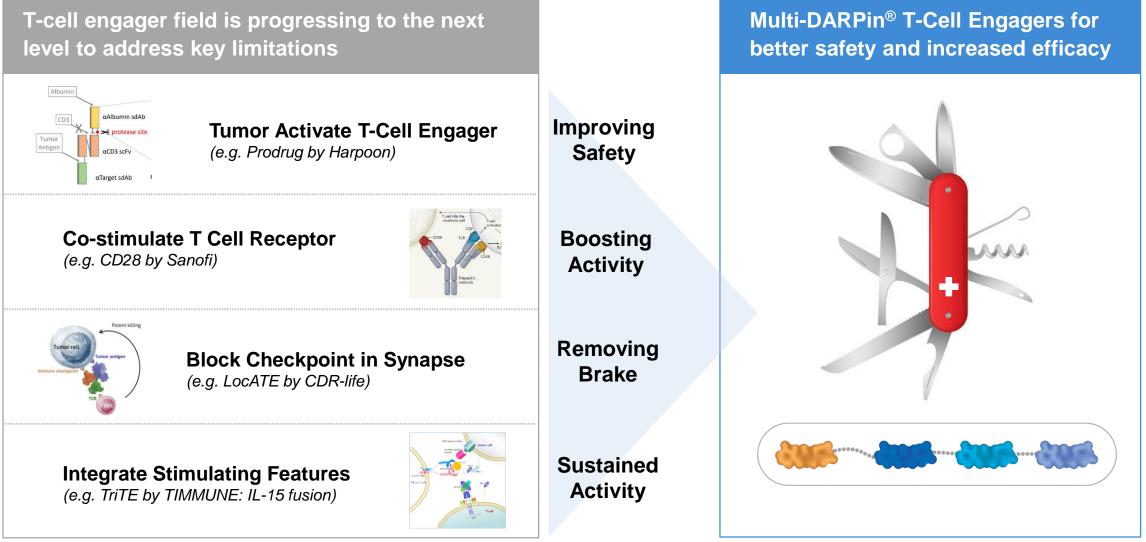




pMHC: Rapid and Straightforward Selection of Diverse DARPin[®] pMHC Binders with High Selectivity



Building Next Generation of DARPin® T-Cell Engagers





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Expected 2020 Catalysts

	2020
Abicipar	 Approval and launch in nAMD (US and EU) Initiation of Abicipar Phase 3 in DME patients
MP0250	 Additional P2 data from PI-combo trial Continued development of MP0250 in partnership
MP0274	 Establish dose and define path forward
MP0310	Identify MP0310 dose in ongoing phase 1Initiation MP0310 combination trials
Research	 Prepare for MP0317 IND submission Selection of 1st pMHC candidate for development Multiple updates at AACR & other international conferences
	Funding into H2 2021 (excl. any future proceeds related to Abicipar and partnerships; Cash Q3 19: CHF112mn)



Thank You!







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IR Agenda

February 6, 2020 April 29, 2020 Publication of Full-year Results 2019 (unaudited) Annual General Meeting