# Building Tomorrow's Breakthroughs

R&D Day of Molecular Partners AG, Switzerland (SIX: MOLN) December 6, 2018



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## Welcome to R&D Day 2018





## "Building Tomorrow's Breakthroughs"



#### **OUR CORE PURPOSE**

Our mission is to transform the lives of cancer patients by providing truly innovative DARPin<sup>®</sup> therapies.



#### **OUR STRATEGY**

Our DARPin<sup>®</sup> technology opens new therapeutic design space and a fast cycle of innovation. We rapidly test ideas and develop clinical DARPin<sup>®</sup> candidates to show patient benefit, alone or together with our partners.



#### **OUR VISION**

We aim to move the needle of medicine by repeatedly delivering innovative therapies as a leading oncology company.



## Nature Evolves Highly Specific Solutions





## Repeat Proteins: Nature's Choice for Multi-Specific Binding





## Natural Repeat Proteins as Inspiration for DARPin® Proteins

- Natural ankyrin repeat proteins
  - One of the most common binding proteins
  - Nature's choice for multi-specifics
- DARPin<sup>®</sup> libraries (10<sup>12</sup> library members) harbor highly specific DARPin<sup>®</sup> modules to virtually any given target
- Selected DARPin<sup>®</sup> modules are linked together
  - Novel architectures open novel therapeutic design space

#### Ankyrin domain





## DARPin<sup>®</sup> Engine: Therapeutic Designs Tailored to Function

#### DARPin<sup>®</sup> module selection



#### Opening novel Therapeutic Design Space



#### Multi-DARPin® product candidates

Selecting the «winning» Therapeutic Design





Therapeutic Design matches its function



## Molecular Partners: A Swiss Biotech by the Numbers

**1 TRILION** DARPin<sup>®</sup> modules in our library











## **Accelerating Progress**

## **2018 Achievements**

Abicipar phase 3 data

MP0250 initial activity in MM; NSCLC ongoing



Second oncology DARPin<sup>®</sup> in the clinic (MP0274)

2019

IO DARPin<sup>®</sup> portfolio progress  $\rightarrow$  10 abstracts at AACR, SITC and other conferences



Strengthening of oncology team



# A Balanced and Robust Portfolio



AMD: age-related macular degeneration; DME: diabetic macular edema; NSCLC: non-small cell lung cancer



# Our DARPin<sup>®</sup> Candidate (Abicipar) in Ophthalmology





Optical coherence tomography

after

Back of the eye

- Abicipar has the potential to be the first anti-VEGF allowing 12-weekly dosing
- The first-ever pivotal clinical results for a DARPin® Therapeutic Candidate
- Longstanding and fruitful partnership with Allergan, reflecting Molecular Partners' commitment to teamwork and collaboration



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expectations regarding contingent payments, including regarding litigation and related liabilities, purchase price adjustment or transaction consideration payments; the results of the ongoing business following the completion of the divestiture of Allergan's generics business to Teva; the adverse impact of substantial debt and other financial obligations on the ability to fulfill and/or refinance debt obligations; risks associated with relationships with employees, vendors or key customers as a result of acquisitions of businesses, technologies or products; our compliance with federal and state healthcare laws, including laws related to fraud, abuse, privacy security and others; generic product competition with our branded products; uncertainty associated with the development of commercially successful branded pharmaceutical products; costs and efforts to defend or enforce technology rights, patents or other intellectual property; expiration of patents on our branded products and the potential for increased competition from generic manufacturers; competition between branded and generic products; Allergan's ability to obtain and afford third-party licenses and proprietary technology we need; Allergan's potential infringement of others' proprietary rights; our dependency on third-party service providers and third-party manufacturers and suppliers that in some cases may be the only source of finished products or raw materials that we need; Allergan's competition with certain of our significant customers; the impact of our returns, allowance and chargeback policies on our future revenue; successful compliance with governmental regulations applicable to Allergan's and Allergan's respective third party providers' facilities, products and/or businesses; the difficulty of predicting the timing or outcome of product development efforts and regulatory agency approvals or actions, if any; Allergan's vulnerability to and ability to defend against product liability claims and obtain sufficient or any product liability insurance; Allergan's ability to retain gualified employees and key personnel; the effect of intangible assets and resulting impairment testing and impairment charges on our financial condition; Allergan's ability to obtain additional debt or raise additional equity on terms that are favorable to Allergan; difficulties or delays in manufacturing; our ability to manage environmental liabilities; global economic conditions; Allergan's ability to continue foreign operations in countries that have deteriorating political or diplomatic relationships with the United States; Allergan's ability to continue to maintain global operations and the exposure to the risks and challenges associated with conducting business internationally; risks associated with tax liabilities, or changes in U.S. federal or international tax laws to which we are subject, including the risk that the Internal Revenue Service disagrees that Allergan is a foreign corporation for U.S. federal tax purposes; risks of fluctuations in foreign currency exchange rates; risks associated with cyber-security and vulnerability of our information and employee, customer and business information that Allergan stores digitally; Allergan's ability to maintain internal control over financial reporting; changes in the laws and regulations, affecting among other things, availability, pricing and reimbursement of pharmaceutical products; the highly competitive nature of the pharmaceutical industry; Allergan's ability to successfully navigate consolidation of our distribution network and concentration of our customer base; the difficulty of predicting the timing or outcome of pending or future litigation or government investigations; developments regarding products once they have reached the market; risks related to Allergan's incorporation in Ireland, such as changes in Irish law and such other risks and other uncertainties detailed in Allergan's periodic public filings with the Securities and Exchange Commission, including but not limited to Allergan's Annual Report on Form 10-K for the year ended December 31, 2017, and from time to time in Allergan's other investor communications. 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This presentation includes an investigational compound in development



## Allergan R&D footprint



1. Includes Clinical studies Ph1-4, CMO studies (Ph4, IITs, HEOR, Epidemiology). 2. Four Core Therapeutic Areas including: Eye Care; Medical Aesthetics, CNS, Gastrointestinal.



# Allergan R&D includes end to end device and pharma development





# Key R&D sites around the world support the organization



\*Note: Sites with fewer HC than 20 not shown, field not shown (e.g. MSLs)



#### **ALLERGAN EYE CARE: HISTORICAL LEADERSHIP**



#### **ALLERGAN EYE CARE LEADERSHIP GLOBALLY**

AGN Ranked in Top 5

- > AGN Presence in ~ 73 Countries
- > AGN Ranked #1 or #2 in 26 Countries
- Strong Double-Digit Growth in 30+ Countries



# Neovascular age-related macular degeneration (nAMD), pathology and clinical presentation



Figure 1. A view of the retina seen though an ophthalmoscope.

#### Normal Retina



Choroidal Neovascularization



Retinal image in nAMD



VA defect in nAMD



Fluorescein Angiography in nAMD



OCT in nAMD



## **DARPin® Therapeutics and Abicipar Pegol (Abicipar)**



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#### Comparison With Ranibizumab

Characteristic	Abicipar Pegol <sup>a</sup>	Ranibizumab
Molecular weight	34 kDa <sup>b,1</sup>	48 kDa
Binding affinity for VEGF-A (Kd)	0.4 pM <sup>2</sup>	42.5 pM
Half-life $(t\frac{1}{2})$ in vitreous in animal studies	4–7 days¹	3 days³

a. Referred to as abicipar in subsequent slides

b. 14 kDa for protein and 20 kDa for PEG portion of the molecule. ; VEGF, vascular endothelial growth factor

1. Data on file, Allergan plc; 2. Souied et al, Am J Ophthalmoly. 2014; 158:724-732, 2014; 3. Bakri et al. Ophthalmology. 2007; 114:2179-2182.; vascular endothelial growth factor

## **VEGF Suppression in the Treatment of nAMD**

**Rabbit Model of VEGF-Induced Vasculopathy** 



## Single 0.4 mg administration in DME patients suppresses VEGF up to 12 weeks

Source: Rodrigues et al manuscript submitted

Source: Campochiaro et al., 2013



## Phase 3 SEQUOIA and CEDAR Study Design

Two randomized, double-masked, parallel-group, clinical trials with identical protocols

**Objective:** To assess the safety and efficacy of abicipar compared with ranibizumab in treatment-naïve patients with nAMD

**Primary endpoint**: Proportion of patients with stable vision (loss of <15 ETDRS letters compared with baseline) at Week 52

Secondary endpoints: Mean change from baseline in ETDRS BCVA, mean change from baseline in CRT, and proportion of patients with ≥15-letter gain at Week 52



BCVA, best-corrected visual acuity; CRT, central retinal thickness; ETDRS, Early Treatment Diabetic Retinopathy Study; nAMD, neovascular age-related macular degeneration ClinicalTrials.gov Identifiers: NCT02462928 and NCT02462486



## **Clinical Trial Versus Real World Treatment Practice**

- · Fixed monthly treatment consistent outcomes but not used in real life practice
- Extend injection interval to every 12 weeks attempted to address injection and visit burden but failed with ranibizumab
- Extend injection interval to 8 weeks consistent outcomes but requires every 2 months injections and patient visits
- Treat and Extend (TAE): can lessen the burden but requires patient monitoring visits and can result in suboptimal vision
  outcomes



<sup>a</sup>Ranibizumab monthly and aflibercept bimonthly dosing unless stated. BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study; FRB, Fight Retinal Blindness; PRN, q4w/q8w, 4-/8-week dosing interval; T&E, treat-and-extend; VA, visual acuity.oivc

1. Rosenfeld et al. *N Engl J Med*. 2006; 2. Regillo et al. *AJO*. 2008; 3. Heier et al. *Ophthalmology*. 2012; 4. Silva et al. *Ophthalmology*. 2018; 5. Souied et al. *Acta Ophthalmologica* 2017. 6. Holz et al. *Br J Ophthalmol*. 2015; 7. Writing Committee for the UK Age-Related Macular Degeneration EMR Users Group, *Ophthalmology*. 2014. 8. Kim et al. *Retina*. 2016.



### Primary Endpoint: STABLE VISION Abicipar Q8 and Q12 Non-Inferior to Ranibizumab Q4 with Fewer Injections





#### Abicipar Q8 and Q12 in SEQUOIA and Q8 in CEDAR Non-Inferior to Ranibizumab for Key Secondary Endpoint: Mean Change in BCVA From Baseline



BCVA vision gain after initial loading doses maintained through week 52

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# Mean Change in CRT From Baseline was Similar in the Abicipar Q8 and Q12 Groups and the Ranibizumab Q4 Group



CRT improvement after initial loading doses maintained through week 52



### **Between Study Differences in Effect Size for the Same Therapeutic Regimen are Common**



Source: Heier et al., 2012



### **Treatment-Emergent Adverse Events: Overall Summary** (SEQUOIA and CEDAR)

Adverse event, n (%)	Abicipar 2q8 n=625	Abicipar 2q12 n=626	Ranibizumab q4 n=625
TEAE	475 (76.0)	498 (79.6)	460 (73.6)
Ocular	341 (54.6)	359 (57.3)	305 (48.8)
Nonocular	326 (52.2)	365 (58.3)	371 (59.4)
Treatment-related TEAE	208 (33.3)	236 (37.7)	157 (25.1)
Ocular	203 (32.5)	233 (37.2)	152 (24.3)
Study-drug-related	105 (16.8)	128 (20.4)	28 (4.5)
Study-procedure-related	142 (22.7)	168 (26.8)	143 (22.9)
Nonocular	13 (2.1)	14 (2.2)	15 (2.4)
Serious TEAE	125 (20.0)	131 (20.9)	101 (16.2)
Death	11 (1.8)	5 (0.8)	10 (1.6)

## **TEAEs of Special Interest in the Study Eye: Intraocular Inflammation** (SEQUOIA and CEDAR)

Preferred term, n (%)	Abicipar 2q8 n=625	Abicipar 2q12 n=626	Ranibizumab q4 n=625
Overall	96 (15.4)	96 (15.3)	2 (0.3)
Uveitis	34 (5.4)	33 (5.3)	0
Vitritis	27 (4.3)	27 (4.3)	0
Iridocyclitis	22 (3.5)	29 (4.6)	1 (0.2)
Retinal vasculitis	12 (1.9)	10 (1.6)	0
Iritis	16 (2.6)	7 (1.1)	0
Keratic precipitates	7 (1.1)	13 (2.1)	0
Vitreous haze	5 (0.8)	8 (1.3)	0
Vitreal cells	6 (1.0)	2 (0.3)	1 (0.2)
Endophthalmitis	7 (1.1)	8 (1.3)	1 (0.2)
Non-infectious endophthalmitis	1 (0.3)	0	0

All intraocular inflammation TEAEs reported in the study eye of ≥1% of patients in any treatment arm are listed

## Adverse Events of Intraocular Inflammation by Maximum Severity (SEQUOIA and CEDAR)

IOI AE Severity, n (%)	Abicipar 2q8 n=625	Abicipar 2q12 n=626	Ranibizumab q4 n=625
Overall IOI rate	96 (15.4)	96 (15.3)	2 (0.3)
Mild	21 (3.4)	23 (3.7)	2 (0.3)
Moderate	52 (8.3)	53 (8.5)	0
Severe	23 (3.7)	20 (3.2)	0

Most patients with IOI in the abicipar arms (82.3% and 89.6%, respectively) were treated with topical corticosteroid

One patient had missing data; AE: adverse event; IOL: intraocular inflammation



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

SEQUOIA and CEDAR were the first successful demonstration of maintaining vision of 2q12 as a fixed treatment regimen compared to monthly ranibizumab.

- 2q12 and 2q8 met the prespecified criteria for noninferiority to monthly ranibizumab for the primary endpoint at Week 52
- >91% of abicipar patients had stable vision on both dosing regimens

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Secondary endpoints from both SEQUOIA and CEDAR at Q8 and Q12 dosing regimen support primary endpoint results

BCVA and CRT improvements after initial doses were maintained to week 52

Overall incidence of treatment-emergent adverse events was comparable among the 3 treatment arms

- Abicipar-treated patients had higher risk of developing IOI than ranibizumab-treated patients
- Majority of the cases were mild to moderate and were treated with topical corticosteroid

✓ Allergan plans to file abicipar with the FDA in 1H 2019 pending a pre-BLA meeting

Allergan continues to expect results from MAPLE trial using its further optimized formulation in 1H 2019



# Molecular Partners Research

Focus on Oncology



## DARPin<sup>®</sup> Strategy in Oncology





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## Today's Focus: Localized Immune Modulators





## Our Vision: Expand the Therapeutic Window Through Tumor-Localized Immune Modulation

Many current IO therapeutics that activate the immune system throughout the body show impressive activity but also systemic toxicities

Tumor-localized IO therapeutics that activate immune cells preferentially within the tumor may both increase efficacy and reduce systemic toxicities




## DARPin® Toolbox: Tumor-Localized Immune Modulators

Tumor-localized immune modulators – overcoming the limitation of systemic side effects



\*Tumor-Associated Antigen (TAA)



#### **FAP-Directed IO Therapeutics**

- Fibroblast Activation Protein (FAP)
  - Selectively expressed on carcinoma-associated fibroblasts (CAFs) present in many solid tumors
  - Limited expression on cells of normal tissues
  - Expression unlikely to be lost as a consequence of therapy
- FAP can be used to localize multiple IO therapeutics



#### FAP expression in human tumor sections

Human FAP, DAPI



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





4-1BB is an inducible co-stimulatory receptor expressed on T cells and NK cells



Agonism of 4-1BB results in increased survival, cytokine secretion, and enhanced effector function

MP0310 is a multi-specific DARPin<sup>®</sup> designed to improve the efficacy and safety of 4-1BB co-stimulation via:

- Tumor-localized binding to FAP
- Clustering of 4-1BB via FAP binding to maximize 4-1BB agonism



Agonist anti-4-1BB antibodies have shown clinical activity with substantial liver toxicity



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HSA, human serum albumin.



## 4-1BB: Co-Stimulating T Cells for a Sustained Effect

- Clustering of 4-1BB on T cells leads to increased survival and effector function as well as T cell memory
- 2 Clustering on Natural Killer (NK) cells enhances antibodydependent cellular cytotoxicity (ADCC)
- 3 Activated T cells and NK cells attack tumor

## Thus, MP0310 should combine effectively with:

- T cell-targeted therapies (checkpoint inhibitors, bispecific T cell engagers)
- ADCC-mediating antibodies



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#### FAP-Mediated Tumor Accumulation of MP0310

#### MP0310 selectively localizes and is retained in FAP-expressing tumors



mFAP x 4-1BB

non-FAP x 4-1BB



HT-29 tumor-implanted NSG mice



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



Intratumoral CD8 T cells

**Tumor growth inhibition** PBMC humanized HT-29 xenograft model



#### MP0310 Induces CD8+ T Cell Accumulation



TAA x CD3 0.05mg/kg



Stroma-rich area



Stroma-poor area



TAA x CD3 0.05mg/kg + mFAP x 4-1BB 1.6mg/kg







HT-29 tumor implanted NSG mice

#### MP0310 Has a Broad Pharmacologically Active Dose Range

#### **4-1BB receptor occupancy on human CD8 T cells** (blood FACS analysis on days 17/18)

Intratumoral CD8 T cells (FACS analysis on days 17/18)





## MP0310 Suitable for Multiple Combinations and Indications



#### **Potential combination partners**



#### MP0310 Project Status



#### **Pre-clinical development successfully demonstrated:**

- Tumor localization in preclinical models
- FAP-dependent 4-1BB activation
- Tumor inhibition and increase in CD8+ tumor-infiltrating lyphocytes in combination with a T cell engager



GMP manufacturing process established with high yields (approximately 1.5 kg GMP material available from 3 runs in a 100 L fermenter)



GLP tox study ongoing



First-in-human clinical study planned to start in 2019



## FAP x CD40: Activating Antigen-Presenting Cells in the Tumor





CD40: cell surface receptor. Member of the <u>Tumor Necrosis Factor Receptor Super Family</u> (TNFRSF)



Constitutively expressed on antigen-presenting cells (dendritic cells, B cells, macrophages)



Efficient signaling requires high level of receptor oligomerization



Activates both innate (macrophage) and adaptive (T and B cells) immune response

Agonistic CD40 antibodies have shown signs of activity in cancer patients, but systemic toxicity has limited their utility



FAP x CD40 is a multi-specific DARPin<sup>®</sup> designed to improve efficacy and safety via tumor localized CD40 agonism



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## CD40: A Broad Activator of Antigen-Presenting Cells

CD40 clustering activates B cells to produce anti-tumor antibodies

2 CD40 clustering activates dendritic cells, which activate T cells to attack tumor

CD40 clustering switches tumorpromoting (anti-inflammatory) M2 macrophages into tumorsuppressing (pro-inflammatory) M1 macrophages, which recruit T cells to the tumor and activate T cells





#### FAP x CD40: In Vitro Assays Confirm **FAP-Dependent Activation of APCs**







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not

# FAP x CD40 DARPin<sup>®</sup> Project Status



#### In vitro data so far demonstrate FAP-dependent CD40 activation of

- Dendritic cells
- B cells
- Macrophages



#### In vivo experiments are ongoing



## Outlook



## Molecular Partners' Oncology 2019 and Beyond



- MP0274 (biparatopic HER2)
- DARPin<sup>®</sup> drug conjugates

Antigen-presenting cells, T cells



- MP0310
- FAP x CD40
- 2 undisclosed programs



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🕀 T cells

**UNBLOCK** Checkpoint Approaches



Undisclosed program

💮 Tumor / Stromal cell interactions

**MODULATE** Tumor Microenvironment Modulators



- MP0250 (VEGF x HGF)
- Undisclosed program



# Development

DARPin<sup>®</sup> therapeutic candidates continue to progress through clinical milestones





#### MP0274: Killing HER2+ Cells by New MoA





<u>Medical need</u>: despite good antibody-based HER2+ treatments, eventually patients progress



Status: Phase 1 in HER2 positive tumor patients progressing on SOC



<u>Novel mode of action</u>: MP0274 is an allosteric inhibitor of HER2 blocking HER2- and HER3mediated signaling and inducing apoptosis



Induction of apoptosis in HER2-addicted cancer cells is a different MoA compared to all approved therapies (mABs and/or ADCs)



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### MP0274 Forces Her2 in Conformational Lock Leading to Apoptosis



Herceptin and Perjeta block two distinct Her2 functions

MP0274 handcuffs Her2 into fully inactive conformation\*

New MoA may help patients who do not adequately respond to current therapies

\* model picture



## MP0274: Phase 1 Study in HER2+ Cancer Patients



Phase 1, first-in-human, single-arm, multicenter, open-label, repeated-dose, dose escalation study

- in patients with advanced HER2-positive solid tumors who have failed SOC including all HER2 targeted therapies
- assess safety, tolerability and pharmacokinetics of MP0274
- with expansion cohort at recommended dose to confirm safety and to assess preliminary efficacy



Study treatment (estimated enrollment of 46 patients):

- Dose Escalation ongoing, currently 6 patients enrolled\*
- Dose Expansion planned at recommended dose

Next readouts: Additional safety data and first efficacy data expected in 2019



## MP0250: A First-in-Class Multi-DARPin® Product Candidate



First biologic blocking VEGF and HGF



VEGF and HGF/c-MET key escape pathways for several SOC treatments



Escape described for hematologic malignancies and solid tumors

Blocking these escape pathways could restore clinical sensitivity to SOC



Our choice of indications

- Multiple myeloma (MM)
- EGFR-mutated non-small cell lung cancer (NSCLC)



Potential in additional indications and combinations



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#### MP0250 Blocks Two Tumor Escape Pathways





#### MP0250 can be Combined with many Standard of Care Drugs across Different Tumors



PDX model, patient-derived xenograft mouse model. \*MC38 syngeneic mouse model;



# Phase 1 Established DARPin<sup>®</sup> Platform as Systemic Anticancer Agents

Safe, convenient dosing, with clear signs of efficacy even on stand-alone basis

PATIENT POPULATION: Solid tumor patients refractory to SOC

<b>Dosing</b>	<b>Exposure</b>	<b>Safety</b>	<b>Efficacy</b>
Convenient, flexible	Favorable	Well	Clear signs
administration	exposure	tolerated	even stand alone
<ul> <li>Well tolerated</li> <li>Dosing every 2 or 3 weeks</li> <li>Half-life ~2 weeks</li> <li>Convenient 1 hr infusion</li> <li>Trial dosage: 8mg/kg every 2 weeks or 12mg/kg every 3 weeks</li> </ul>	<ul> <li>Sustained drug exposure over multiple cycles (up to &gt;1 year)</li> <li>Low immunogenicity (only 2 out of 42 patients with relevant<sup>1</sup> increase in ADA titers)</li> </ul>	<ul> <li>AEs as expected for any VEGF inhibitor</li> <li>Hypertension most frequent AE, observed in approx. 2/3 of patients, with grade 3 in about 1/3 of patients</li> <li>SAEs (in &gt; 1pt) were nephrotic syndrome (4pt), venous thromboembolism (3pt), anemia (2pt) and dyspnea (2pt)</li> </ul>	<ul> <li>Significant reduction in tumor volume in two patients</li> <li>Treatment duration (% of patients): ≥3 months for 40% ≥6 months for 10%</li> </ul>



#### MP0250 binds circulating VEGF-A and HGF

- MP0250 suppresses plasma VEGF-A levels at doses as low as 1.5mg q2weeks
- Plasma HGF and HGF-MP250 complexes increase indicative of complete binding of circulating HGF



Data: Mean +/- SEM



#### MP0250: Potential to Treat Several Indications



#### MP0250: Initial Focus



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## Unmet Need in Multiple Myeloma

Illustrative course of disease of a MM patient<sup>1</sup>



Disease remains incurable for most patients as MM cells acquire adaptive resistance to all currently available therapies

- Relapse is inevitable
- Time to relapse gets shorter with every treatment cycle
- Quality of response tends to diminish

1) 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).





#### HGF /c-Met Upregulation in Refractory/Relapsed Multiple Myeloma

Dynamic activation of the HGF pathway during disease progression<sup>1</sup>.



HGF is highly overexpressed in bone marrow biopsies of multiple myeloma patients



High HGF levels in serum is a poor prognostic factor in multiple myeloma<sup>2</sup>

1. Moschetta M, et al. Clin Cancer Res 2013;19:4371-82 2. Wader K.F. et al, Eur. J. Haematol 2002



## Our Vision: Lengthening Efficacy of Existing Treatments



Addition of MP0250 to any SOC potentially results in:

- Reversal of adaptive resistance
- Longer time to progression
- Deeper responses



## MP0250 plus Velcade<sup>®</sup>: Two-Pronged Attack on Tumor Cells as well as Supporting Tumor Stroma



MP0250 in combination with Velcade® inhibits tumor growth

Syngenic, orthotopic mouse model. Rao et al. 2018.





MP0250 in combination with Velcade<sup>®</sup> decreases the number of tumor cells

#### Within tumor microenvironment





MP0250

Velcade<sup>®</sup>+MP0250





Velcade<sup>®</sup> in combination with MP0250 inhibits multiple myeloma endothelial cell sprouting / angiogenesis



## MP250 plus Velcade<sup>®</sup> – Impact on the Two Hallmarks of MM



#### Impact on bone lysis



Vehicle



## MP0250 plus Pomalyst<sup>®</sup> – Impact on the Two Hallmarks of MM

IMiD

ners



Graphs present mean and standad error of mean

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## MP0250 Phase 2 Study in MM

	PATIENT POPULATION Patients with MM with ≥ 2 prior lines of treatment including IMiD and PI and no response or early relapse		<b>TREATMENT REGIMEN</b> Velcade <sup>®</sup> /Dexamethasone plus MP0250
START Q2 2017	DOSE ESCALATION (cohort 1)	DOSE ESCALATION (cohort 2)	DOSE EXPANSION
DESIGN	n = 8 patients 8 mg/kg every 3 weeks	n = 3 12 mg/kg every 3 weeks	app. 40 at recommended dose of 8 mg/kg every 3 weeks
STATUS	<ul> <li>Recruitment completed</li> <li>Cohort 1 First efficacy and safety data published</li> <li>Dose escalation decided</li> </ul>	<ul> <li>2 out of 3 patients with DLT</li> <li>DLTs in line with MoA of a VEGF inhibiting agent: 1 thrombocytopenia with epistaxis, 1 proteinuria</li> </ul>	<ul> <li>Recruitment ongoing</li> </ul>



#### MP0250 in MM: Most common adverse events

#### **Treatment Emergent Adverse Event reported (n=11)**

Adverse Event	Part 1: Dose escalation					
	Cohort 1: 8 mg/Kg (n=8)		Cohort 2: 12 mg/Kg (n=3)			
	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3		
Hematologic adverse events						
Neutropenia	-	-	3 AE (1 pt.)	2 AEs (1 pt.)		
Thrombocytopenia	4 AEs (3 pts.)	1 AE (1 pt.)	12 AEs (3 pts.)	8 AEs (3 pts.)		
Anaemia	-		8 AEs (2 pts.)	4 AEs (2 pts.)		
Non-hematologic adverse events						
Epistaxis	-	-	5 AEs (1 pt.)	-		
Peripheral Sensory Neuropathy	2 AE (1 pt.)	-	1 AE (1 pt.)	-		
Hypertension	5 AEs (5 pts.)	3 AE (3 pt.)	3 AEs (3 pt.)	1 AE (1 pt.)		
Proteinuria	1 AE (1 pt.)	1 AE (1 pt.)	2 AEs (2 pt.)	1 AE (1 pt.)		
Nausea	1 AE (1 pt.)	1 AE (1 pt.)	3 AEs (1 pt.)	-		
Respiratory tract infection	1 AE (1 pt.)	1 AE (1 pt.)	1 AE (1 pt.)	-		
ALT elevation	2 AEs (1 pt.)	1 AE (1 pt.)	-	-		
AST elevation	1 AE (1 pt.)	-	-	-		
GGT elevation	1 AE (1 pt.)	1 AE (1 pt.)	-	-		
Diarrhoea	-	-	1 AE (1 pt.)	-		



#### MP0250 Phase 2 Study in MM Initial Read-out: Promising Signs of Efficacy



- 5 out of 8 patients in cohort 1 with objective response
- Best responses were 2 VGPR, 3 PR

- MP0250 at 8mg/kg in combination with Velcade<sup>®</sup> and dexamethasone has shown a tolerable safety profile and clinical activity
- Expansion cohort with 8mg/kg started


### MP0250 Phase 2 Study in MM Initial Read-out: Promising Signs of Efficacy



- Durable remission observed in heavily pretreated patients
- Longest duration observed to date for MP0250 in combination with Velcade<sup>®</sup>/Dexamethasone is >12 months
- Expansion cohort well underway

Data cut-off: November 02, 2018 for cohort 1; status expansion cohort per 23rd November 2018 dose level: 8mg/kg/3weeks. © Molecular Partners AG – Slide 73



### MP0250 has the Potential to Overcome Adaptive Resistance



- Three out of four patients who were coming immediately from a PI-based regimen achieved a response.
- MP0250 has potential to overcome adaptive resistance mechanism
- Two out of four patients who were coming from IMiD-based regimen achieved a response
- Relative contribution of MP0250 versus class switch to be established

On

Treatment



### MP0250 Development Strategy

2018	2019	2020	
	Updated Design: PI as most recent therapy Treatment Regimen: Velcade <sup>®</sup> /Dex/MP0250	Interim Efficacy Data in 2020	
Phase 2: any drug as most recent treatment Treatment Regimen: Velcade <sup>®</sup> /Dex/MP0250	First Efficacy Data Shown 2018		
	NEW Phase 2b: IMiD as most recent therapy Treatment Regimen: Pomalidomide <sup>®</sup> /Dex/MP0250	Interim Efficacy Data in 2020	

#### Study population:

- MM patients who have received ≥2 lines of therapy, including Velcade<sup>®</sup> and IMiD, and have shown no response or progressed on most recent therapy
- Updated design: Most recent therapy must be a Velcade<sup>®</sup>- or Carfilzomib-based regimen
- New Study: MP0250 + IMiD therapy (Pomalidomide<sup>®</sup>) in patients who progressed or failed to respond to Pom or Rev as most recent line of therapy

#### Rationale:

- Design assesses direct impact of MP0250 : Any response has to be attributed to MP0250
- Allows for validation of the claim of MP0250 restoring clinical sensitivity
- Patients are their own control: A limited number of patients generate significant data



### Unique Potential of MP0250 in MM

Multiple myeloma: 2nd most common blood cancer

Global market value of MM treatment: **\$13 billion** 

expected to exceed \$20 billion by 2022

(CAGR: 13%)<sup>1</sup>



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### Unmet Need in EGFR-mutated NSCLC



- Lung cancer is highest mortality cancer worldwide
- Activating EGFR mutations are found in ~40% (Asia), ~20% (US), and ~15% (EU)<sup>1</sup>
- Nearly all NSCLC patients will ultimately relapse on SOC, and after resistance emerges there are very limited treatment options
- No targeted drug approved after patients progress under Tagrisso<sup>®</sup> treatment



### HGF & VEGF Play an Important Role in Adaptive Resistance



### VEGF

Inhibition of VEGF pathway inhibition has proven efficacy in NSCLC

- In combination with chemotherapy<sup>1</sup>
- In combination with EGFR TKI<sup>2</sup>

### HGF

# HGF/c-Met pathway may be involved in resistance

- Alterations and upregulation of HGF & c-Met signaling frequency found in resistant NSCLC<sup>3,4</sup>
- Inhibition of cMET/HGF shown to restore sensitivity to EGFR-TKIs in EGFR-mut NSCLC cell lines <sup>5,6</sup>



### MP0250 Phase 2 Study in NSCLC

Collaboration with AstraZeneca for Tagrisso<sup>®</sup> supply

	<b>PATIENT POPULATION</b> Patients with EGFRmut NSCLC who have failed to respond to Tagrisso <sup>®</sup>		<b>TREATMENT REGIMEN</b> Tagrisso <sup>®</sup> plus MP0250	
START Q2 2018	DOSE ESCALATION (cohort 1)	DOSE ESCALATION (cohort 2)	DOSE EXPANSION	EXPECTED MILESTONES
	ι,	ζ,		first efficacy data 2019
DESIGN	n ≥ 6 patients 8 mg/kg every 3 weeks	n ≥ 6 12 mg/kg	n ≥ 28 at recommended dose of either 8 or 12 mg/kg	
			5 5	
STATUS	<ul> <li>Recruitment ongoing</li> <li>So far, 7 patients on study</li> </ul>		<ul> <li>Accelerated recruitment possible, following decision on recommended dose</li> </ul>	

Study details: clinicaltrials.gov/NCT03418532. Cut-off November 12th 2018



### Unique Potential of MP0250 in EGFR-mut NSCLC

Global market value (EGFR NSCLC): **ca. \$2.8 billion,** 

expected to exceed \$3.5 billion by 2023

(CAGR: 5%)<sup>1</sup>

No targeted drug approved after patients progress under Tagrisso<sup>®</sup> treatment



1. Including actively treated, Stage IIIb and Stage IV prevalent cases in US/5EU/JP. Datamonitor, August 2018



### Summary & Outlook

HGF/VEGF are very important causes of the development of treatment failures. Hence, we see clinical development opportunities for MP0250 beyond MM and EGFR-mut NSCLC.

MP0250 has shown encouraging efficacy and value to patients in MM. This forms the base for our refined development strategy.

MP0250 for NSCLC trial is progressing on track with first efficacy data expected in 2019.



Therapeutic Options for Patients with Relapsed/Refractory Multiple Myeloma

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Florence Maude Thomas Cancer Research Professor Chair, *ad interim*, Department of Lymphoma/Myeloma Principal Investigator, MD Anderson SCOR in High Risk Plasma Cell Dyscrasias Chair, SWOG Myeloma Committee





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### Outline

- 1. MM Overview
- 2. Evolution of standard of care in MM
- 3. Unmet need
- 4. New approaches in relapsed and refractory MM
- 5. Rationale for targeting HGF/VEGF

# **Myeloma Statistics**



- 2nd most common heme malignancy
  - NHL 74, 680 vs. MM 30,770 vs. CLL 20,940 in 2018 in USA
- Both incidence & prevalence are rising
  - 30,770 cases in 2018 vs. 9,600 in 1983; due to aging populace
- More commonly seen in developed nations
  - 3.3/100,000 vs. 0.9 in less developed areas
- Impacts more men, and patients of African descent
  - $\sim 1.3:1.0$  male/female ratio
  - 4.7/100,000 Caucasian vs. 10.2 African American men



# Change From 2010 - 2030

- #1 : Stomach (**^**67%); #2 : Liver (**^**59%)
- #3 : <u>Myeloma</u> (**1**57%)
- Tied for #12 : <u>Non-Hodgkin lymphoma</u>
   (144%)
- #21 (out of 23) : <u>Hodgkin disease</u> ( $\uparrow$ 21%)

Smith BD, et al. J Clin Oncol. 27: 2758, 2009. Siegel RL et al. CA Cancer J Clin. 67: 7, 2017.

### Improvements in Survival





Thorsteinsdottir, S et al. Haematologica 103: e412, 2018.

### Still Work to be Done





https://seer.cancer.gov/

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### The first breakthrough: Bortezomib



APEX: Bortezomib vs. Dex

Richardson, PG et al. N Engl J Med. 352:2487, 2005.

### The second breakthrough: Lenalidomide

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Len/Dex vs. Dex

Weber, DM et al. N. Engl. J. Med. <u>357</u>:2133, 2007.

### Next step: Triplets become more important

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ASPIRE Study : Response Rates

Stewart, AK et al. N Engl J Med. <u>372</u>:142, 2015.



### Next step: Triplets become more important

20.6	14.7	0.742 (0.587, 0.939)/ <i>P</i> = 0.012
78.3	71.5	0.035
48.1	39.0	0.014
11.7	6.6	0.019
66.7	64.9	-
36.4	32.3	-
1.1	1.9	-
20.5	15.0	-
21.4	15.7	0.712 / <i>P</i> =0.007
	20.6 78.3 48.1 11.7 66.7 36.4 1.1 20.5 21.4	20.614.778.371.548.139.011.76.666.764.936.432.31.11.920.515.021.415.7

\* Patients received a median of 13 (1-26) vs. 12 (1-25) cycles of IRd vs. Rd; 55% and 52 patients remain on treatment.

#### TOURMALINE1: Key Efficacy Data

#### Moreau, P et al. N Engl J Med. <u>374</u>:1621, 2016.

# Next step: Antibodies





Daratumumab + Bortez/Dex

Palumbo, A et al. N Engl J Med. 375:754, 2016.

# Next step: Antibodies





Daratumumab + Len/Dex

Dimopoulos, MA et al. N Engl J Med. <u>375</u> :1319, 2016.

# Next step: Antibodies





#### ELOQUENT2 : PFS Curves

Lonial, S et al. N Engl J Med. <u>373</u>:621, 2015.

### Summary

- PIs and IMiDs are more often used simultaneously rather than sequentially
- Drugs that were previously used in relapsed patients have moved to first and second line (carfilzomib, pomalidomide)
- Antibodies have moved to earlier lines
- While our initial treatment of MM has become more effective, treatment of relapsed/refractory patients is becoming more challenging

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### Unmet Need in PI/IMiD Refractory Patients

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• PI/IMiD Refractory Outcomes

#### Kumar, SK et al. Leukemia <u>31</u>: 2443, 2017.



#### Unmet Need in PI/IMiD Refractory Patients

	Intent-to-treat		LEN refr	actory	LEN and BORT refractory	
	POM+LoDEX (n = 113)	POM alone (n = 108)	POM+LoDEX (n = 88)	POM alone (n = 86)	POM+LoDEX (n = 70)	POM alone (n = 66)
Median PFS, months	4.2	2.7	3.8	2.2	3.8	2.0
Median OS, months	16.5	13.6	16.0	12.0	13.4	12.5
ORR (≥PR), %	33	18	30	21	31	21
≥MR,%	45	31	42	31	46	33
CR	3	2	0	1	0	1
PR	30	16	30	20	31	20
MR	12	13	13	11	14	12
SD, %	37	48	41	47	39	42
Median time-to-response (≥PR), months	1.9	4.3	1.9	4.6	1.6	4.6
Median duration of response (≥PR), months	8.3	10.7	7.7	8.8	6.5	11.4
Median duration of ≥MR, months	7.7	7.4	6.2	6.7	6.2	6.7

#### • Pomalidomide : Response Rates

#### Richardson, PG et al. Blood <u>123</u>:1826, 2014.

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# Selinexor + Dexamethasone



Table 2. Overall Response Rate									
			No. of Patients (%)						
Group	No. of Patients*	ORR	CBR	VGPR	PR	MR	SD	PD	NE
Overall	78	16 (21)	26 (33)	4 (5)	12 (15)	10 (13)	27 (35)	21 (27)	4 (5)
Quad-refractory disease	48	10 (21)	14 (29)	2 (4)	8 (17)	4 (8)	21 (44)	11 (23)	2 (4)
Penta-refractory disease	30	6 (20)	12 (40)	2 (7)	4 (13)	6 (20)	6 (20)	10 (33)	2 (7)
6 doses per cycle	51	10 (20)	15 (29)	3 (6)	7 (14)	5 (10)	21 (41)	12 (24)	3 (6)
8 doses per cycle	27	6 (22)	11 (41)	1 (4)	5 (19)	5 (19)	6 (22)	9 (33)	1 (4)
Standard risk	22	4 (18)	9 (41)	1 (5)	3 (14)	5 (23)	11 (50)	2 (9)	_
High risk	17	6 (35)	9 (53)	1 (6)	5 (29)	3 (18)	6 (35)	2 (12)	_
del(17p)	8	3 (38)	5 (63)	1 (13)	2 (25)	2 (25)	2 (25)	1 (12)	_
t(4;14)	4	2 (50)	2 (50)	_	2 (50)	_	2 (50)	_	_
t(14;16)	1	1 (100)	1 (100)	_	1 (100)	_	_	_	_
del(17p) and t(4;14)	3	_	1 (33)	_	_	1 (33)	2 (67)	_	_
del(17p) and t(14;16)	1	—	_	—	—	_	—	1 (100)	—

NOTE. Response rates are presented as assessed by the independent review committee.

Abbreviations: CBR, clinical benefit rate; MR, minimal response; NE, nonevaluable; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease; VGPR, very good partial response.

\*One patient did not have measureable myeloma at baseline and was, therefore, not included in the analysis of response.

- ORR 21%, including quad-/penta-refractory
- Toxicities : Cytopenias, hyponatremia, fatigue

Vogl, DT et al. J Clin Oncol. <u>36</u>: 859, 2018.

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### Venetoclax



Group	Median TTP (95% CI)	Median DOR (95% CI)
t(11;14)	6.6 (3.9, 10.2)	9.7 (6.3, –)
Non-t(11;14)	1.9 (1.2, 2.3)	NE

Kumar, S et al. Blood <u>130</u>: 2401, 2017.

### GSK2857916 : BCMA ADC



Trudel, S et al. ASH Abstract 741, 2017.

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### bb2121 : Response Durability



Raje, N et al. 2018 ASCO Abstract # 8007.

# Summary



- Early use of novel agents is increasing, making relapsed & refractory disease more challenging
- Patients with myeloma that is relapsed and refractory to PIs and IMiDs have poor outcomes
- The next crop of novel agents are showing some activity in this setting, but are far from curative, and are associated with high cost and/or high toxicity profiles

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### Rationale for Targeting HGF

• Signaling through HGF/c-MET is associated with drug resistance, including to PIs



# Rationale II



• Blockade of the HGF/c-MET axis is associated with enhanced sensitivity to bortezomib and carfilzomib


## Conclusions



- Approaches that block HGF/c-MET signaling are a promising option to extend the usefulness of bortezomib- and carfilzomib-based regimens
- These could delay the time until the need to start an alternative therapy, and thereby both improve patient outcomes and save healthcare resources
- Induction of objective response in RR MM could work synergistically with other approaches (e.g. CAR-T) that may be more effective with low tumor load

# **Questions?**



## Takeaways



## **Our Accelerating Progress**

#### **2018 Achievements**



 $\checkmark$ 

 $\checkmark$ 

Abicipar phase 3 data

MP0250 initial activity in MM; NSCLC ongoing

Second oncology DARPin<sup>®</sup> in the clinic (MP0274)

IO DARPin<sup>®</sup> portfolio progress  $\rightarrow$  10 abstracts at AACR and SITC

 $\checkmark$ 

Strengthening of oncology team

#### 2019 Growth

MAPLE trial: results with further optimized formulation

Multiple safety & efficacy readouts in 2019

Enrollment, initial efficacy in 2019

Continued expansion and advancement toward the clinic

Acceleration of clinical activities



# Thank you!



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