Making the DARPin[®] Difference Reality for Patients

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Presentation of the H1 2018 Results August 30, 2018 – Molecular Partners AG (SIX: MOLN)





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Review & Highlights H1 2018

• Financial Results H1 2018

Outlook 2018 & Beyond

• Q&A

Patrick Amstutz, CEO

Andreas Emmenegger, CFO

Patrick Amstutz, CEO

All



Review & Highlights H1 2018



Molecular Partners: Who We Are

DARPin[®] Engine

Teamwork

- Swiss biotech (SIX: MOLN)
- 120 team members
- Discovery to Phase 2 (POC)
- Science & patients first

DARPin® Therapies

- Abicipar in Phase 3 (ophtha)
- MP0250 in Phase 2 (onc)
- MP0274 in Phase 1 (onc)
- Broad preclin. I/O portfolio

Partnerships

- Alliance with Allergan
- Agreement with AstraZeneca
- Cash CHF 122m (H1 2018)
- Financed well beyond key value inflection points
- DARPin[®] Difference: test novel therapeutic design
- Proof of DARPin[®] candidates in eye and systemically
- Fast and cost effective drug discovery engine



DARPin® Proteins: Beyond Target Space of Antibodies





Modular Approach to Customized Drug Candidates

Building blocks

DARPin[®] modules







Peptide linkers: Short, long, flexible, rigid







Non-DARPin® element (chemical, toxin or other proteins)



Candidates

Multi-DARPin[®] product candidate (e.g. MP0250, MP0274)



High flexibility permits binding with complex geometries



DARPin[®] module conjugated to non-DARPin[®] element





DARPin[®] Engine: Rapid Screening and Discovery, Flexible Design, Tailored to Therapeutic Need



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R&D Highlights 2018 to Date - Oncology

- **MP0250 in MM** Promising initial data from MP0250 combination with Velcade[®] in ongoing phase 2 study:
 - Five of eight (5/8) evaluable patients achieved objective response
 - Median time of treatment for responding patients of 22.5 weeks
- MP0250 in EGFR mut NSCLC Ongoing phase 2 study in combination with Tagrisso[®]:
 - Supply agreement with AstraZeneca for free supply of Tagrisso®
 - Enrollment and patient dosing ongoing
- **MP0274 in HER2-positive solid tumors -** Ongoing phase 1 study:
 - Protocol amended to allow enrollment of more patients at lower doses
 - Enrollment and patient dosing ongoing
- Immuno-oncology and DARPin[®] I/O toolbox:
 - Preclinical data presented at AACR 2018
 - MP0310: FAPx4-1BB multi-DARPin® product candidate, first candidate out of the DARPin I/O toolbox



R&D Highlights 2018 to date - Ophthalmology

- Abicipar:
 - July 2018: Allergan presented positive phase 3 topline data on abicipar, demonstrating non-inferiority in 12-week fixed dosing regimen with <50% injections vs. Lucentis[®]
 - Abicipar has potential to be the first and only 12-week anti-VEGF drug for nAMD and DME
 - Abicipar inflammation rate was 15% and optimized formulation to reduce inflammation is being tested (MAPLE trial)
 - Allergan plans FDA filing in H1 2019 and launch in 2020 in nAMD
 - Allergan expects to start Phase 3 studies in DME (diabetic macular edema) in 2019

Discovery Alliance:

- Allergan exercised options for development of two additional DARPin® product candidates
- All options from the Discovery Alliance have been exercised



Team Highlights 2018 to date

- Bill Burns, former CEO of Roche Pharmaceuticals, elected as Chairman of the Board of Directors at 2018 AGM
- Pamela A. Trail, Ph.D., appointed as Chief Scientific Officer
- Michael T. Stumpp, Ph.D., assumes Role of Chief Operating Officer
- Talent base with 112 FTE (+8% y-o-y), reflecting further build-out of oncology expertise



Financial Highlights H1 2018

- Ongoing strong financial position, debt-free:
 - CHF 122.4 million in cash as of June 30, 2018 (-CHF 34.5 million or -22% y-o-y)
- Net cash used in operating activities of CHF 19.4 million in H1 2018 (-5% y-o-y), reflecting:
 - Ongoing scale-up of R&D to accelerate pipeline growth
 - Progress of proprietary oncology programs; reduced manufacturing costs for MP0250
 - Ongoing build-out and growth of organization
- Operating loss of CHF 12.7 million and net loss of CHF 11.7 million
- Forecasted cash runway into 2020, excluding any projected proceeds from abicipar



Highlights: Pipeline & DARPin[®] Product Candidates



Pipeline: A Balanced and Robust Portfolio



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

Clincial Stage Oncology:

MP0250 & MP0274



MP0250 Unique Approach in MM – Break Resistance & Restore Sensitivity





MP0250 Phase 2 Study in MM



- Phase 2 open-label, single-arm, multicenter study of MP0250 + Velcade[®] + dexamethasone in patients with refractory and relapsed multiple myeloma (RRMM)
- Study population: MM patients who have received ≥2 lines of therapy, including Velcade[®] and an IMiD, and have shown no response to most recent therapy or progressed ≤60 days after most recent therapy
- Next readouts: Additional safety and initial efficacy data before end 2018

Study details can be found at clinicaltrials.gov/NCT03136653.



MP0250

MP0250 Phase 2 Study in MM Initial Read-out: Promising Signs of Efficacy at initial dose (8mg/kg)

Preliminary results*: **Best responses**



Treatment duration*

(5/8 patients with anti-myeloma activity; excludes non-responders)



* Data cut-off: 21 May 2018; Initial dose level: 8mg/kg/3weeks.



Unique Potential of MP0250 in MM



1. Including US/5EU/JP. Datamonitor.



MP0250

MP0250 Phase 2 Study in NSCLC



- Status: FDA approval Sep 2017 1st oncology DARPin[®] drug candidate in US
- Collaboration with AstraZeneca for Tagrisso[®] supply
- Next readouts: initial safety in 2018 & initial efficacy 2019

*The study details can be found on clinicaltrials.gov/NCT03418532.



MP0250

Unique Potential of MP0250 in EGFR mut NSCLC

MP0250



- NSCLC is leading cause of cancer death
- Activating EGFR mutations are found in ~40% (Asia), ~20% (US), and ~15% (EU) NSCLC²
- Global market value (EGFR NSCLC) ~USD 2.8bn, expected to reach >3.5bn by 2023 (5% CAGR)³
- No targeted drug approved after patients progress under Tagrisso[®] treatment

1. Including actively treated, Stage IIIb and Stage IV prevalent cases in US/5EU/JP. Based on Datamonitor; 2. Tang, et al. Oncotarget 2016; 3. Datamonitor

MP0274 Forces Her2 in Conformational Deadlock, Leading to Cell Death

Trastuzumab & Pertuzumab



Herceptin and Perjeta block two distinct Her2 functions



MP0274

Bi-paratopic DARPin®

MP0274 handcuffs Her2 into fully inactive conformation*, acting as broad-range allosteric inhibitor

* model picture

Tumor Cell Apoptosis BT474



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



MP0274

Her2 EC-Domain

MP0274: Phase 1 Study in HER2+ Cancer Patients

- Phase 1, first-in-human, single-arm, multicenter, open-label, repeated-dose, dose escalation study
 - assess safety, tolerability and pharmacokinetics of MP0274
 - in patients with advanced HER2-positive solid tumors
 - with expansion cohort at recommended dose to confirm safety and to assess preliminary efficacy
- **Study treatment** (estimated enrollment of 46 patients):
 - Dose Escalation
 - Dose Expansion at recommended dose
- Next readouts: Initial safety data expected in Q4 2018 and first efficacy data in 2019







MP0274

Immuno-Oncology

MP0310





Improving the Therapeutic Index of IO Agents





How do we achieve the improved therapeutic index?



oartners

Therapeutic Design applicable to many Agonists



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DARPin[®] I/O Platform with Multiple Opportunities: MP0310 as the first DARPin[®] product candidate



Many DARPin[®] candidates are under investigation for both solid and liquid tumors (including combinations)



Ophthalmology

Abicipar



Phase 3 CEDAR & SEQUOIA Study Design

- Objective: To assess the efficacy and safety of abicipar pegol compared with ranibizumab in treatmentnaïve patients with neovascular AMD
- > Primary endpoint: Proportion of patients with stable vision at Week 52*

CRT: central retinal thickness

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



Source: Allergan presentation, 19 July 2018

Abicipar



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



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MOLECULAR partners

Abicipar Dosed Every 8 and Every 12 Weeks Demonstrated Non-Inferiority to Lucentis[®] Dosed Every 4 Weeks

Conclusions

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In both the Sequoia and Cedar studies, abicipar achieved the goal of demonstrating non-inferiority to Q4 ranibizumab for both the Q12 and Q8 dosing regimens.

• >91% of patients had stable vision on the Q12 dosing regimen in each trial

Abicipar is the first and only anti-VEGF therapy to consistently extend duration of effect beyond 8 weeks to a full 12 weeks vs monthly Lucentis

 Undertreatment resulting from the "Treat and Extend" treatment paradigm results in sub-optimal vision gains and loss of vision gains over time

Overall incidence of adverse events was similar among the 3 treatment arms

• Incidence of intraocular inflammation events were 15.7% and 15.3% for abicipar Q8 and abicipar Q12, compared to 0.6% for ranibizumab Q4 in Sequoia, and were 15.1% and 15.4% compared to 0% for ranibizumab in Cedar

Abicipar continues to have the opportunity to be the first and only true long acting anti-VEGF

- Allergan plans to file abicipar with the FDA in 1H 2019 pending the pre-BLA meeting with the FDA
- Allergan continues to work on its further optimized formulation with the goal of minimizing inflammation

Source: Allergan presentation, 19 July 2018



🌣 Allergan

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Financial Results H1 2018



Financial Summary

(CHF million; as per IFRS)	H1 2018	H1 2017	change
Revenues	9.4	6.0	3.4
Total expenses ¹	(22.1)	(22.7)	0.6
Operating result – EBIT	(12.7)	(16.7)	4.0
Net financial result	1.0	(2.7)	3.7
Net result	(11.7)	(19.4)	7.7
Basic net result per share (in CHF)	(0.56)	(0.93)	0.37
Net cash used in operations	(19.4)	(20.5)	1.1
Cash balance	122.4 ²	156.9 ³	(34.5)

¹ Thereof non-cash costs of CHF 3.0m in H1 2018and CHF 2.6m in H1 2017

² Including CHF 9.8 million short-term time deposits

³ Including CHF 30.5 million short-term time deposits

P&L De-composition

P&L de-composition per line item (CHF million)





Balance Sheet

Balance sheet as of June 30, 2018 (CHF million)



Comments

- Continuing strong balance sheet
- CHF 122.4 million cash balance (incl. time deposits) 96% of total assets
- Solid equity base with CHF 116.3 million
- Debt free
- Following implementation of IFRS 15, CHF 18.4 million deferred revenues as of Dec. 31, 2017:
 - presented in equity for CHF 9.0 million
 - recognized into revenue for CHF 9.4 million in H1 2018



Revenues

In CHF million



Other revenues

Comments

- CHF 9.4 million revenues recognized out of deferred revenues position, following implementation of IFRS 15
- Following implementation of IFRS 15, no deferred revenues left to be recognized as revenue in future periods



Operating Expenses

in CHF million (incl. depreciation & amortization)



Comments

- Expense development in line with expectations
- In H1 2018 main expense positions and drivers were:
 - Investments in pre-clinical and clinical development of proprietary oncology assets (MP0250, MP0274, MP0310)
 - Personnel cost, reflecting ongoing build-out and growth of organization
 - CHF 3.0 million non-cash effective costs (H1 2017: CHF 2.6 million)



Shareholder Structure

Shareholder structure as of June 30, 2018



- Pre-IPO investors (4 VC's)
- Management, Board, Founders
- Others

Highlights

- VC holdings halved vs. end 2016 to 23%
- Listed on SIX Swiss Exchange (SIX: MOLN)
- Included in key indices: SPI, SPI Extra, SXI Life Sciences and SXI Bio+Medtech
- 21,180,138 shares outstanding
- Ca. CHF 486 million market cap. as of June 30, 2018
- No lock-up restrictions in place
- Formal free float as per SIX definition: 84%



Financial Guidance for Full-Year 2018

- Total expenses at lower end of indicated CHF 50-60 million range, of which around CHF 6 million non-cash effective costs
- Capital expenditures of ca. CHF 3 million come on top
- No guidance on net cash flow;

timelines and potential milestones payments with partnerships not disclosed

Guidance subject to progress and changes of pipeline



Outlook 2018 & Beyond



Key Messages H1/2018

- Successful transition from DARPin[®] platform into **clinical oncology company**:
 - MP0250 (Phase 2) demonstrated initial activity in MM and is progressing in NSCLC (EGFR-mut)
 - MP0274 (Phase 1) ongoing in Her2+ cancers
 - MP0310 selected as 1st development candidate (preclinical) from **I/O DARPin® toolbox**
- Abicipar Phase 3 in nAMD progressing with partner Allergan:
 - Top-line data demonstrated non-inferiority of abicipar Q12 vs Lucentis Q4 dosing
 - Further optimized formulation is being tested to reduce inflammation (MAPLE trial)
- Financed into 2020 (excluding any abicipar-related proceeds), capturing key value inflection points
- > Keep on forward integrating towards late-stage development and the market

DARPin[®] is a registered trademark owned by Molecular Partners AG.



Multiple Value Inflection Points Ahead

	2018	2019	2020
Abicipar	nAMD: 1-y Ph 3 efficacy	Data from further optimized formulation (MAPLE trial) H1/19 FDA filing planned for H1/19 DME: Ph 3 expected start	nAMD: expected launch
MP0250	MM: initial efficacy NSCLC: initial safety	MM: efficacy NSCLC: initial efficacy	NSCLC: efficacy
MP0274	Initial safety	Initial efficacy	
MP0310	Preclinical data	FIH	
	Funding into 202	20 (excl. any abicipar related proceeds)	

Thank you



Questions?



Appendix



Income Statement

(CHF million, as per IFRS)	H1 2018	H1 2017	Change
Revenues	9.4	6.0	3.4
R&D expenses ¹	(17.7)	(18.9)	1.2
G&A expenses ²	(4.4)	(3.8)	(0.6)
Operating Loss	(12.7)	(16.7)	4.0
Net finance expenses	1.0	(2.7)	3.7
Net Loss	(11.7)	(19.4)	7.7

 $^{\rm 1}$ Thereof non-cash costs of CHF 1.7m in H1 2018 and CHF 1.6m in H1 2017

 $^{\rm 2}$ Thereof non-cash costs of CHF 1.3m in H1 2018 and CHF 1.0m in H1 2017

Cash Flow Statement

(CHF million, as per IFRS)	H1 2018	H1 2017	Change
Net cash used in operations	(19.4)	(20.5)	1.1
Net cash used in investing	(20.1)	(8.1)	(12.0)
Net cash from financing	0.2	0.3	(0.1)
Exchange result on cash positions	0.7	(2.8)	3.5
Net decrease in cash & cash equivalents	(38.6)	(31.1)	(7.5)



Balance Sheet

(CHF million, as per IFRS)	30 June 2018	31 Dec 2017	30 June 2017
Non-current assets	1.6	1.9	2.2
Other current assets ¹	3.4	1.5	1.9
Cash balance (incl. time deposits)	122.4	141.0	156.9
Shareholders' equity	116.3	116.7	118.3
Non-current liabilities ²	4.4	13.6	27.8
Current liabilities ³	6.7	14.1	14.9

¹ Prepayments and other assets, trade and other receivables

² Thereof deferred revenues of CHF nil in 1H 2018, CHF 9.5m in FY2017 and CHF 21.6m in 1H 2017

 3 Thereof deferred revenues of CHF nil in 1H 2018, CHF 8.9m in FY2017 and CHF 10.5m in 1H 2017

Economic Potential of Abicipar Collaboration

- Total of USD 360m in potential future milestones
 - USD 210m development milestones pre launch
 - Additional USD 150m sales-based milestones
- Tiered royalties: Low double-digit to mid-teens
- Attractive >USD 8 billion market, reducing the injection frequency can lead to rapid market uptake (Eylea[®])
- Significant potential funding source to fuel growing oncology pipeline



Global Wet AMD and DME Market Size (USDbn)

Source: Evaluate Pharma[®], Accessed 27 Apr 2015; Avastin[®] is used off label.



Experienced Management Team & Board of Directors



Dr. Patrick Amstutz, CEO

- Co-founder, former CBO & COO
- Member of the Board of Directors
- PhD in molecular biology from UZH



Dr. Andreas Harstrick, CMO, MD

- 30 years of experience in oncology
- Developed multiple mAb oncology products
- Senior positions at Merck-Serono, Imclone, Eli Lilly



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Executive

Dr. Michael Stumpp, COO

- Co-founder
- PhD and postdoc from UZH; research in Tokyo, London



Andreas Emmenegger, CFO

- Former CFO Glycart, Finance Roles at Roche
- >20 years experience as CFO of private & listed companies and in fund raising, IPOs



Dr. Pamela Trail, CSO

 >30 years of experience in directing cancer drug discovery at leading global pharma companies



Bill Burns, Chairman

- Former CEO of Roche Pharmaceuticals
- Former board member of Roche, Genentech, Chugai Pharmaceuticals, Shire



Göran Ando, Vice Chairman

- Former Chairman, Novo Nordisk
- Former CSO, Pharmacia



Directors

Gwen Fyfe

 Former VP, Oncology Development at Genentech



Steven H. Holtzman

- President and CEO, Decibel Therapeutics
- Former EVP, Biogen



William "Bill" Lee

EVP Research, Gilead



Petri Vainio

Managing Director, Essex Woodlands Ventures





Date	Event
November 1, 2018	Q3 2018 Management Statement
December 6, 2018	R&D Day in New York
February 7, 2019	Publication of Full-year Results 2018 (unaudited)
March 15, 2019	Expected Publication of Annual Report 2018
April 16, 2019	Annual General Meeting



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