

JANUARY 2017

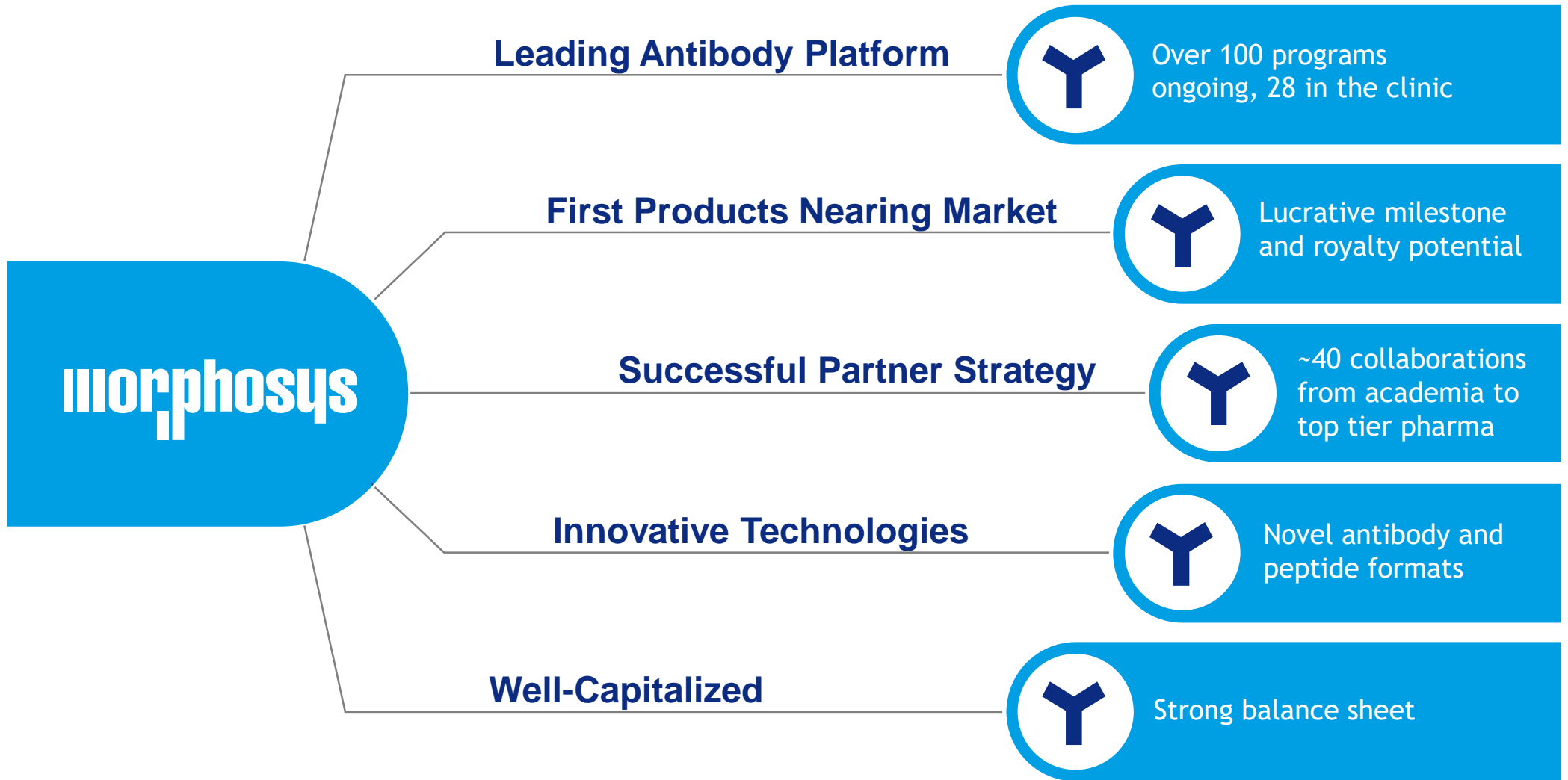
Engineering the Medicines of Tomorrow

Company Update

This presentation includes forward-looking statements.

Actual results could differ materially from those included in the forward-looking statements due to various risk factors and uncertainties including changes in business, economic competitive conditions, regulatory reforms, foreign exchange rate fluctuations and the availability of financing. These and other risks and uncertainties are detailed in the Company's Annual Report.





Developing exceptional new treatments for patients suffering from serious diseases

PARTNERED DISCOVERY PROGRAMS

- Maximising utilization of the technology
- Lucrative source of revenue from license fees and royalties



PROPRIETARY DEVELOPMENT PROGRAMS

- Focus on oncology/inflammation
- Selective co-development programs
- Retained rights translate into higher revenue potential



TECHNOLOGY PLATFORMS: HuCAL & Ylanthia; Lanthipeptides; Novel Targets



NEW CHIEF DEVELOPMENT OFFICER

January 2017

Dr. Malte Peters appointed as new CDO as of March 1, 2017 joining from Sandoz with deep operational and medical experience in oncology

START OF MOR208 CLL TRIAL

December 2016

First patient dosed in phase 2 COSMOS trial with MOR208 plus idelalisib in relapsed/refractory CLL patients after discontinuation of BTKi (e.g. ibrutinib) therapy

CLINICAL UPDATES AT ASH

December 2016

Updated response rates reported in relapsed/refractory multiple myeloma at higher doses of MOR202 plus LEN/POM and updates from phase 2 studies in NHL and CLL

FIRST PRODUCT APPLICATION SUBMITTED BY PARTNER

November 2016

Guselkumab in moderate to severe plaque psoriasis: Biologics License Application submitted by Janssen

SUCCESSFUL CAPITAL INCREASE

November 2016

Capital increase of EUR 115 million successfully closed to support further pipeline development

Proprietary Portfolio: Snapshot of MOR208

An Fc-enhanced Antibody to Treat B Cell Lymphoma

FC-ENHANCED ANTIBODY TARGETING CD19 - A CRUCIAL CELL SURVIVAL MOLECULE ON B CELLS

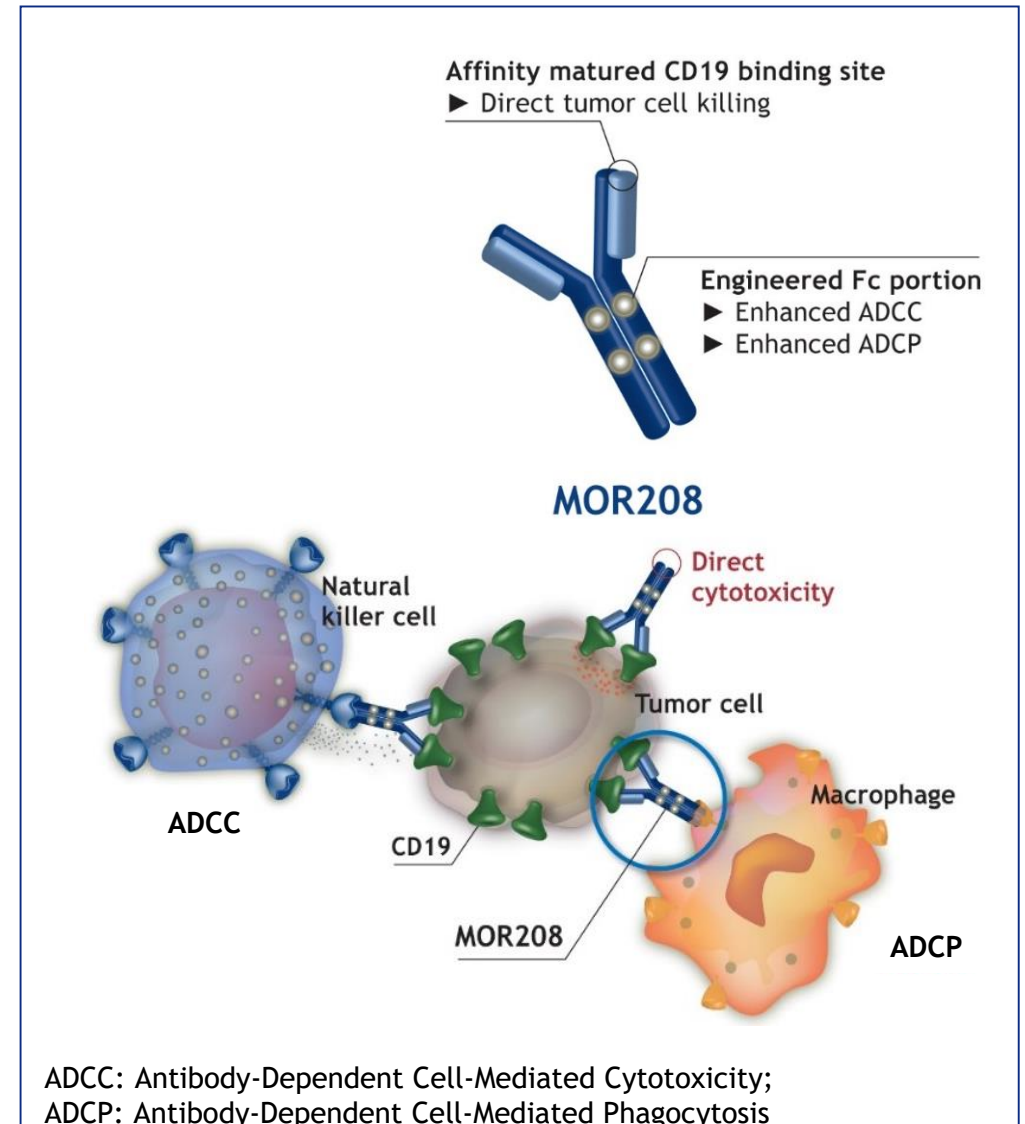
- CD19 preserved after treatment with B cell targeted therapies
- Fc modification dramatically enhances B cell depletion by ADCC, ADCP and direct cytotoxicity

KEY FEATURES

- Deep and long lasting efficacy responses
- Excellent safety profile, providing opportunity for MOR208 to be used with multiple combination partners
- Straightforward manufacturing

REGULATORY STATUS

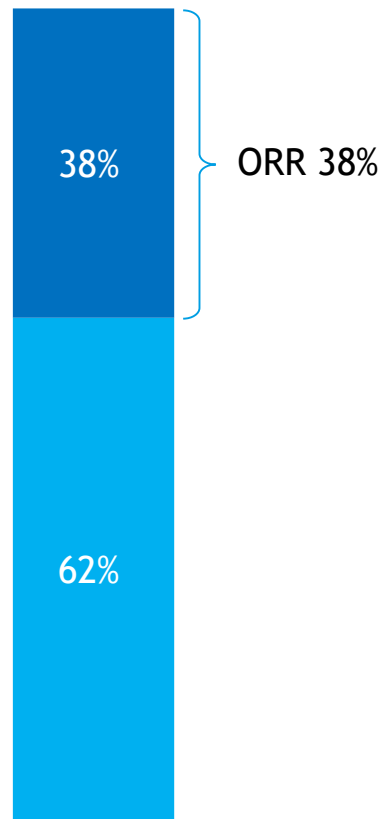
- Fast track designation for DLBCL
- Orphan drug status in the US and Europe for DLBCL and CLL



MOR208 - Clinical Data in B cell Malignancies

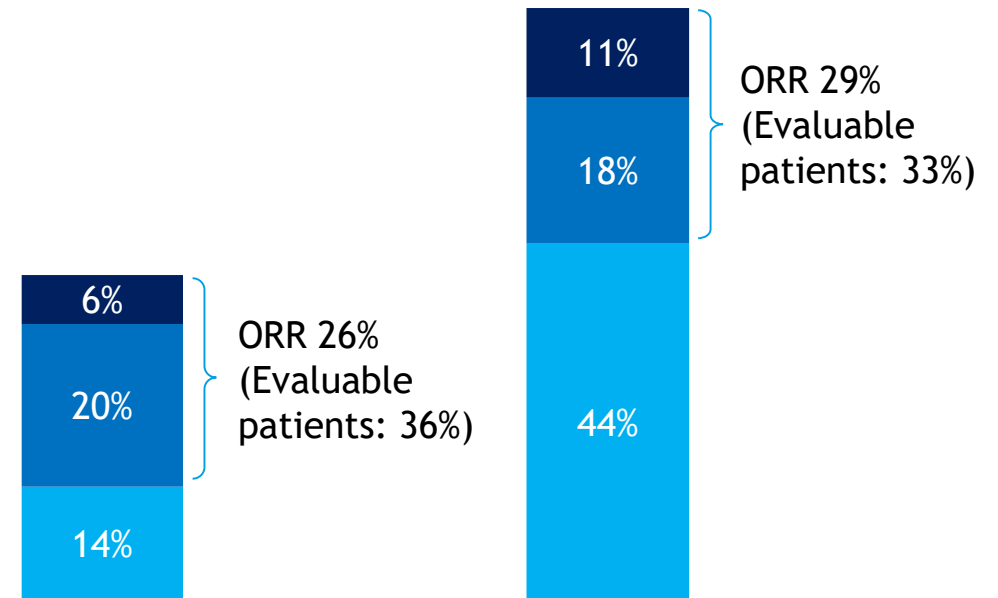


PHASE 1 TRIAL IN R/R CLL



CLL
(12mg/kg)
n=16

PHASE 2 TRIAL IN R/R NHL

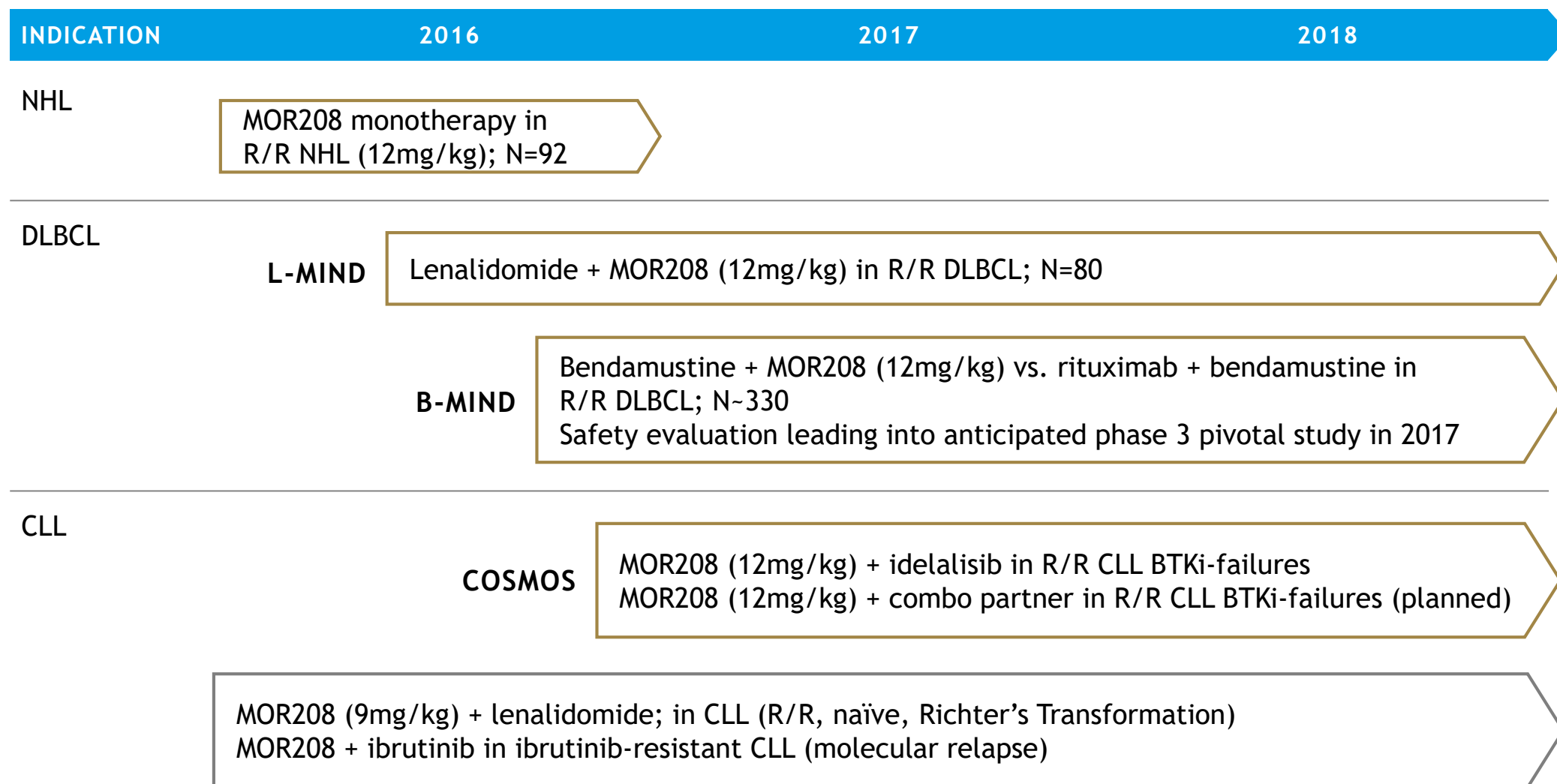


DLBCL
(12mg/kg)
n=35

iNHL
(12mg/kg)
n=45

■ Complete response ■ Partial response ■ Stable disease ORR = Overall response rate

MOR208: Comprehensive Phase 2 Development Plan



 Proprietary program trial
 IIT: Investigator-initiated trial, John Byrd, Ohio State University

Proprietary Portfolio: Snapshot of MOR202

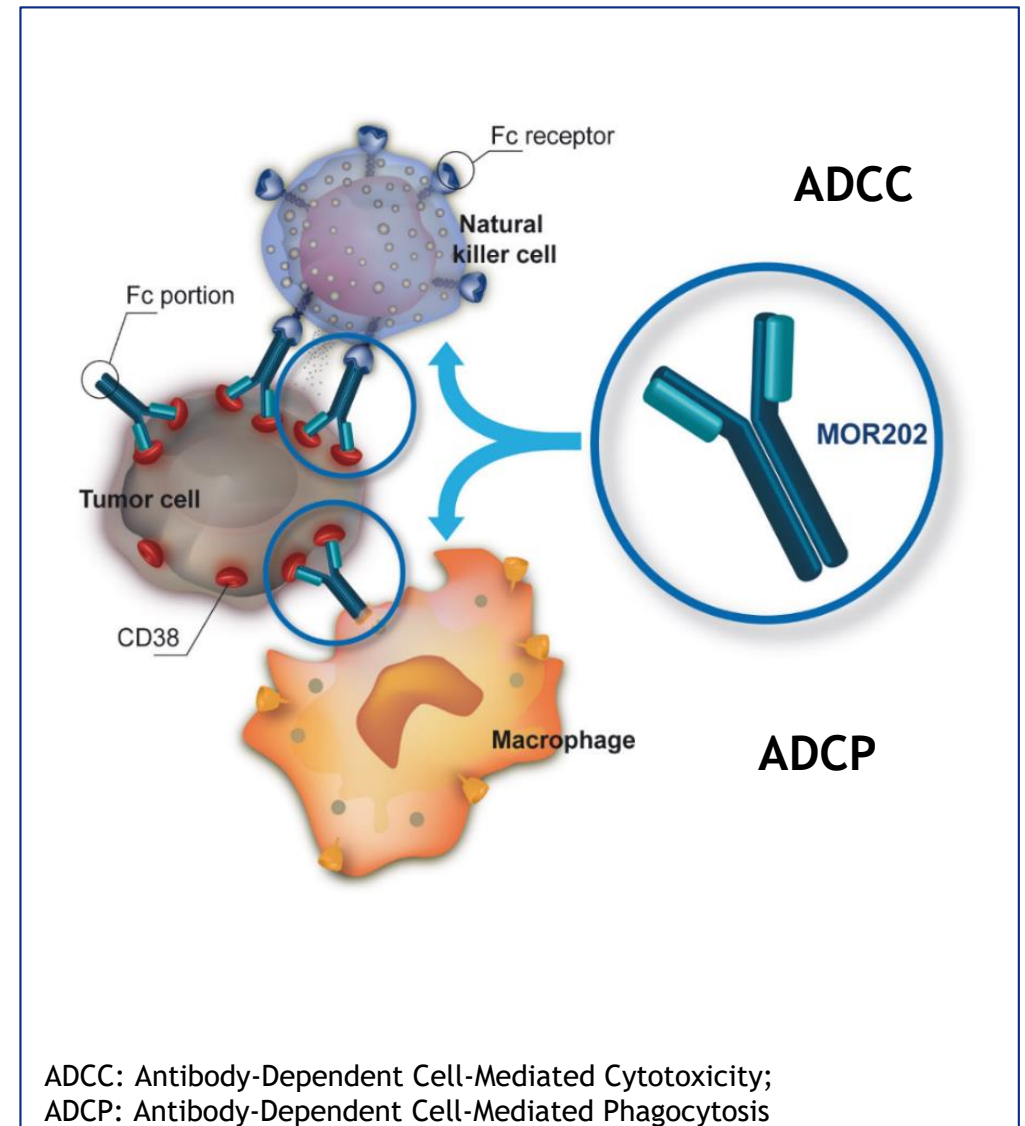
A Differentiated Antibody for Multiple Myeloma

A UNIQUE ANTI-CD38 ANTIBODY FOR THE TREATMENT OF MULTIPLE MYELOMA (MM)

- Targeting a unique epitope of CD38
- Inducing potent immune effector mechanisms ADCC and ADCP

KEY CLINICAL FEATURES*:

- Low incidence of infusion related reactions (IRRs): 7% IRR rate, IRRs of grade 1 and 2 only
- Favorable tolerability profile
- Enduring & deepening clinical responses:
 - 16 of 19 responses ongoing
 - Longest time on study with ongoing response: 20 months
- Biomarker analysis shows preservation of CD38 expression during MOR202 treatment



ADCC: Antibody-Dependent Cell-Mediated Cytotoxicity;
ADCP: Antibody-Dependent Cell-Mediated Phagocytosis

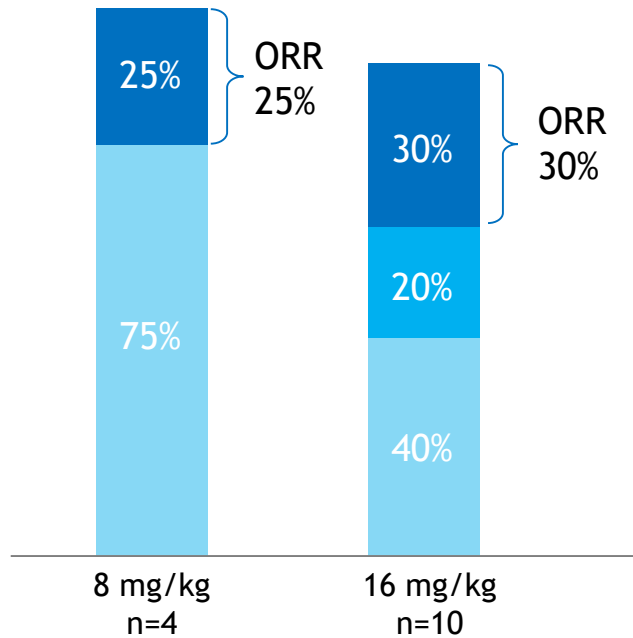
*From ongoing phase 1/2a trial: Raab et al., oral presentation at ASH 2016 Annual Meeting, December 5, 2016: Abstract #1152

MOR202: Preliminary Phase 1/2a Data (1)

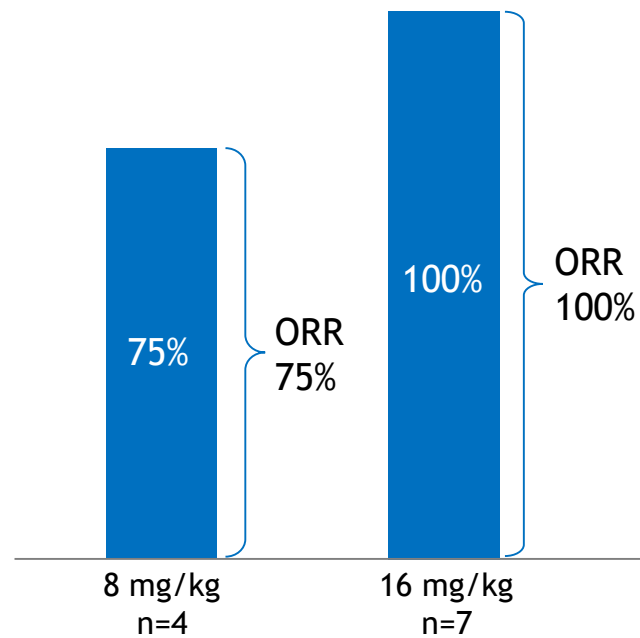


Responses Continue to Deepen in Ongoing Cohorts

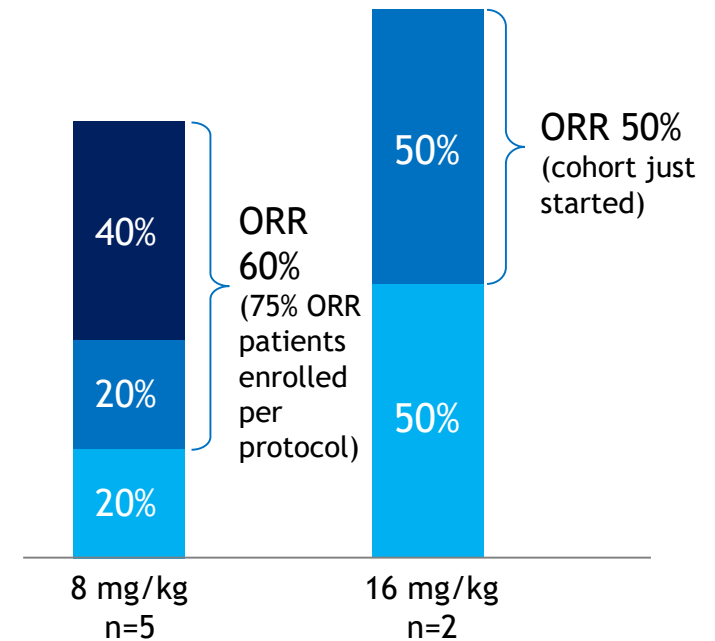
MOR202 + DEX



MOR202 + LEN/DEX



MOR202 + POM/DEX



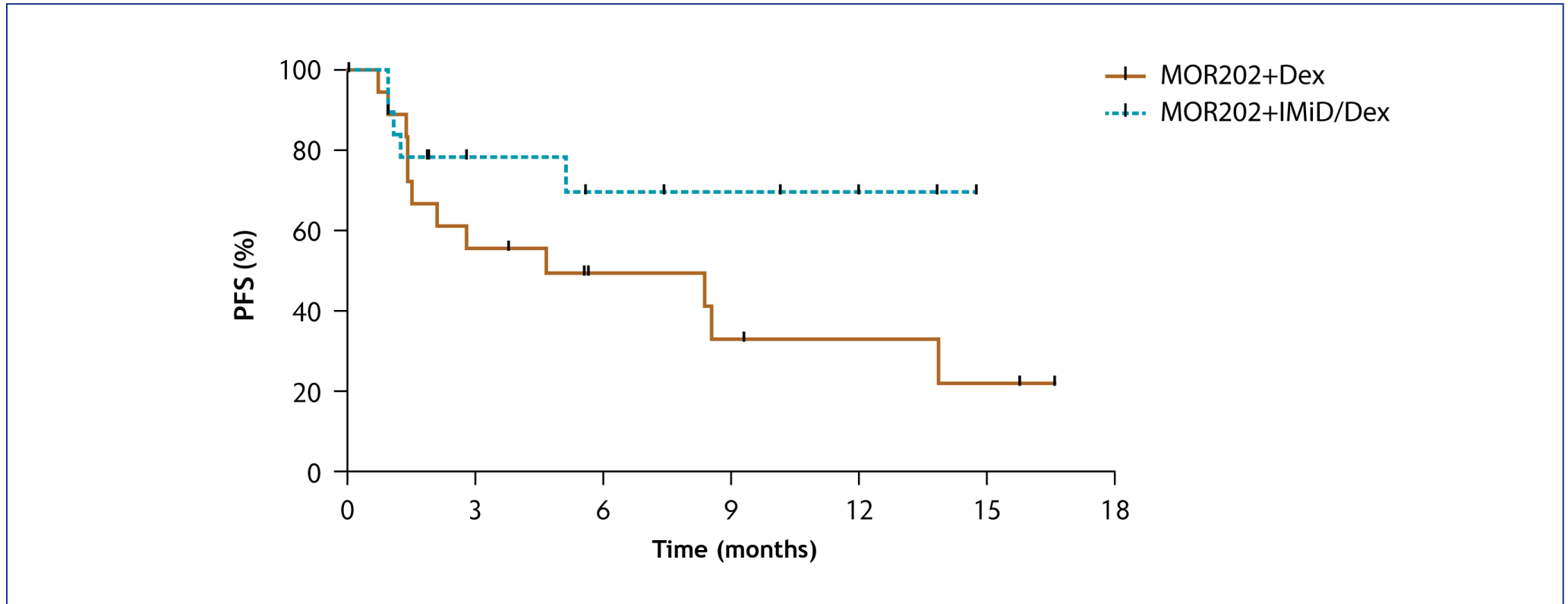
Complete response
 Partial response & very good partial response
 ORR = Overall response rate
 Minimal response
 Stable disease

Raab et al., oral presentation at ASH 2016 Annual Meeting, December 5, 2016: Abstract #1152

MOR202: Preliminary Phase 1/2a Data (2)

Promising Progression-Free Survival

DATA FROM ONGOING DOSE ESCALATION TRIAL



MEDIAN PFS

- MOR202 + Dex: 4.7 months
- MOR202 + IMiD/Dex: not yet reached

MEDIAN FOLLOW-UP

- MOR202 + Dex: 15.8 months
- MOR202 + IMiD/Dex: 5.6 months

Raab et al., oral presentation at ASH 2016 Annual Meeting, December 5, 2016: Abstract #1152

Partnered Discovery Program: Guselkumab

Regulatory Filing for Plaque Psoriasis Submitted to FDA and EMA

DRUG

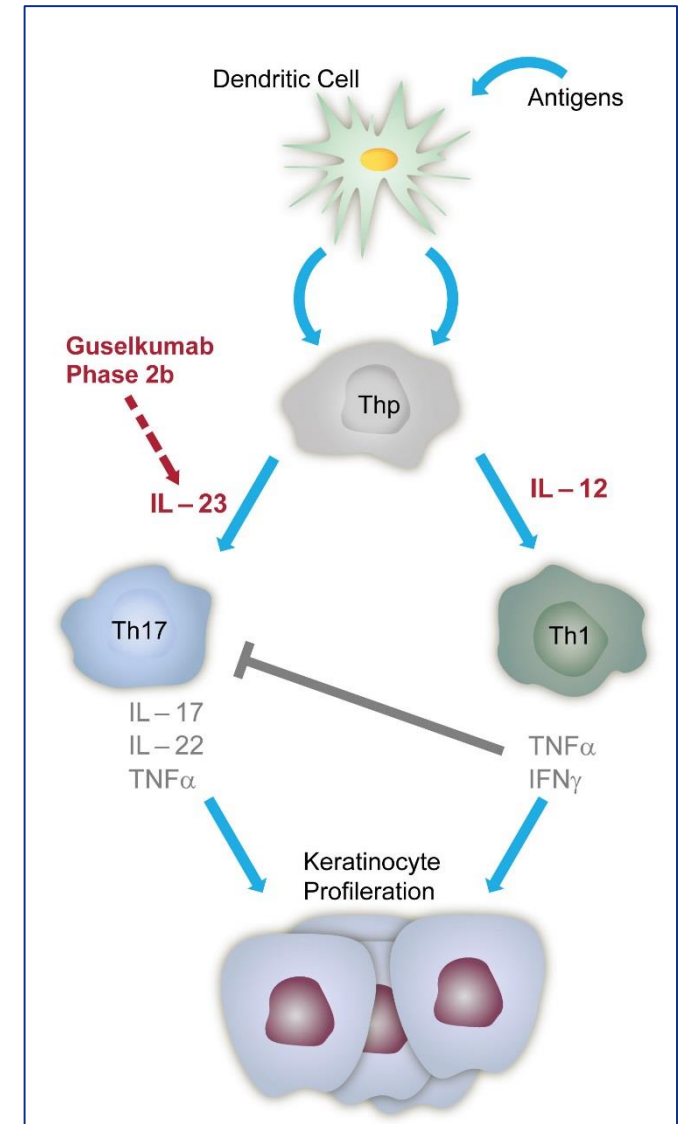
- First in class IL-23 specific antibody being developed in psoriasis and psoriatic arthritis
- Partnered discovery project with Janssen (J&J)

KEY FEATURES

- Potential to provide unique value to patients: High levels of complete or almost complete skin clearance in phase 3 VOYAGE 1 trial (PASI 90 in week 16: 73.3%)
- Less intensive dosing regimens vs. anti-IL-17 class
- Potential for similar safety profile vs. long-term blockade of IL-12 + IL-23 with STELARA®

STATUS

- Filing for psoriasis submitted to FDA and EMA based on one phase 2 and three phase 3 studies
- Phase 2 study in psoriatic arthritis met primary endpoint in Nov. 2016, plans to advance into phase 3

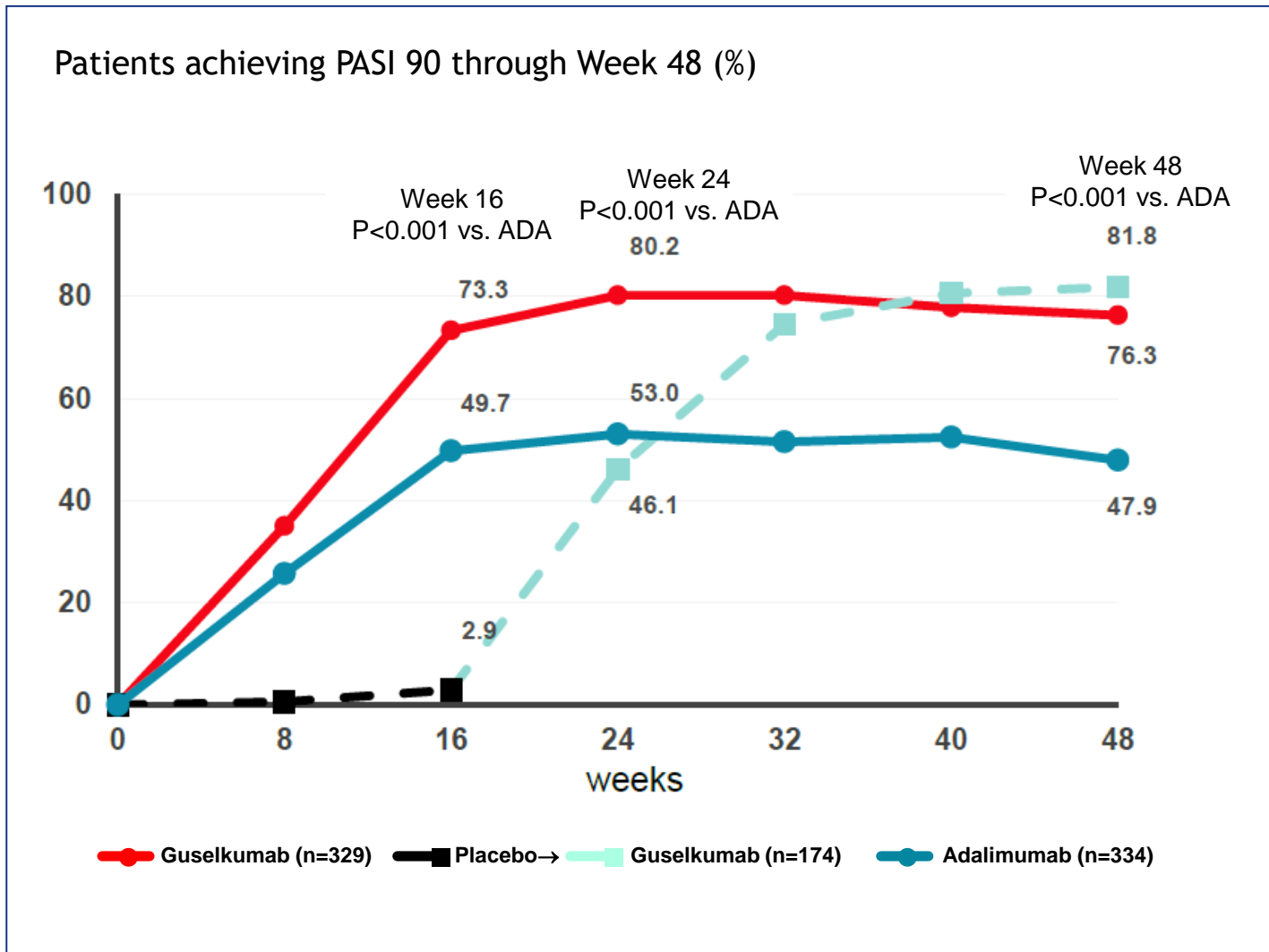


Partnered Discovery Program: Guselkumab

Compelling Efficacy in Phase 3 Trial



VOYAGE 1: PHASE 3 PSORIASIS STUDY RESULTS



Guselkumab:
100 mg at weeks 0, 4, 12 and
q8w thereafter through week 148

Adalimumab (Humira®):
80 mg at week 0, followed by
40 mg at week 1 and q2w
thereafter through week 48



Data courtesy of

Partnered Discovery Program: Anetumab Ravtansine

Currently in Registrational Phase 2 Study in Mesothelioma

ANETUMAB RAVTANSINE - PHASE 2

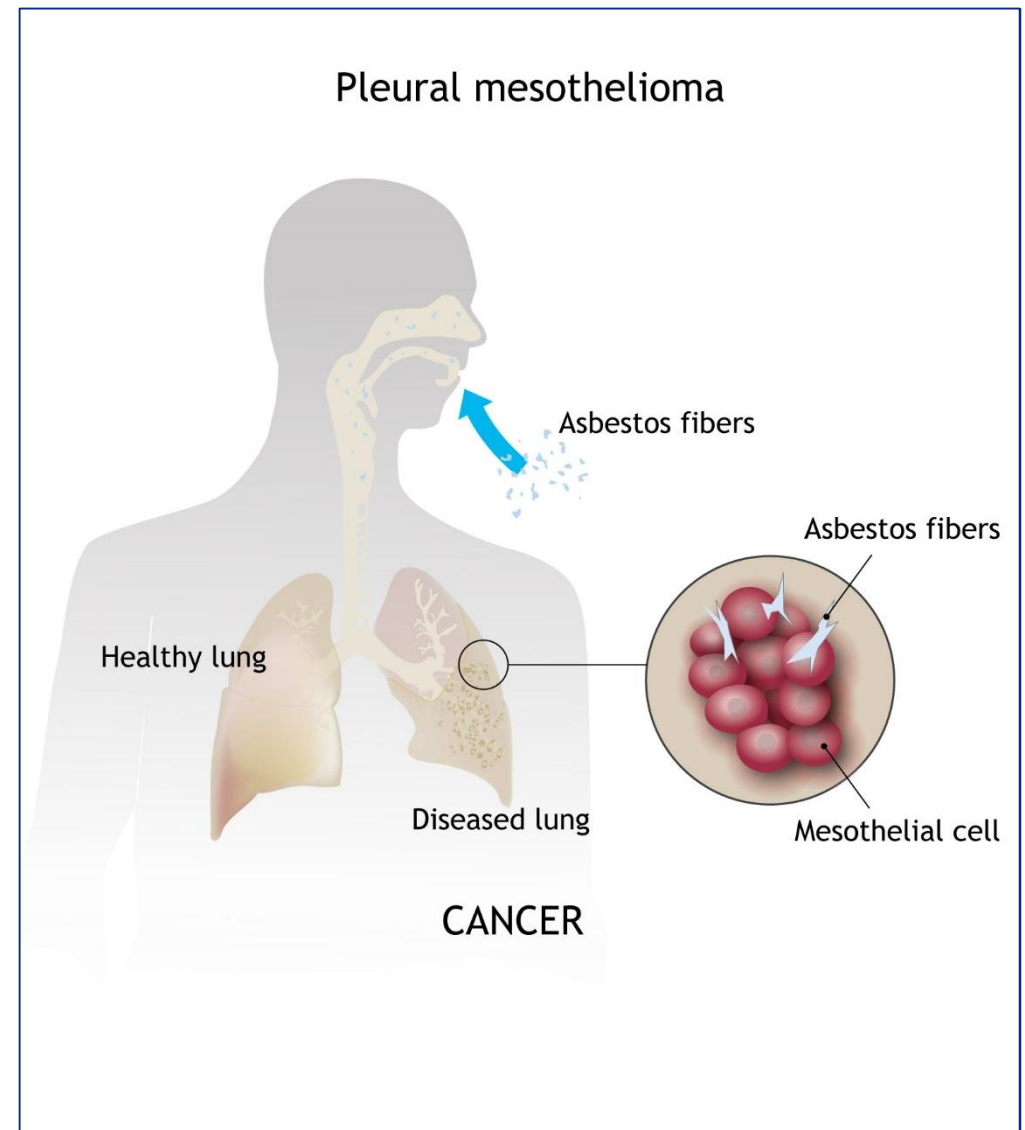
- ADC targeting tumor-associated antigen mesothelin, and delivering toxin DM4, which acts on proliferating cells
- Partnered discovery project with Bayer

KEY FEATURES

- Potential spectrum of indications:
 - mesotheliomas (100%)
 - pancreatic cancer (~80-100%) and
 - ovarian adenocarcinomas (~80%)

STATUS

- Phase 1* with promising results including duration of treatment of > 1,000 days, 31% ORR
- Registrational phase 2 trial in metastatic pleural mesothelioma ongoing
- Seven clinical trials ongoing
- Estimated launch in 2019, peak sales potential over EUR 2bn



* Blumenschein et al. ASCO 2016; ADC: antibody drug conjugate

Selected Other Clinical Assets



Targeting Multiple Diseases with High Medical Need

COMPOUND	PARTNER	TARGET	DISEASE AREA	STATUS
Gantenerumab	Roche	Amyloid- β	Alzheimer's disease	Phase 3
Utomilumab (PF-05082566)	Pfizer	4-1BB	Solid tumors	Phase 2
MOR103/GSK3196165	GSK	GM-CSF	Rheumatoid arthritis Hand osteoarthritis	Phase 2
BI-836845	BI	IGF-1	Solid tumors	Phase 2
Bimagrumab	Novartis	ActRIIB	Hip Fracture Surgery, Sarcopenia	Phase 2
Elgemtumab (LJM716)	Novartis	HER3	Cancer	Phase 2
MOR106	Galapagos	IL-17C	Atopic Dermatitis	Phase 1

- Partnered Discovery Programs
- Proprietary Development Programs

Expected Pipeline Newsflow

Up to 38 Clinical Data Points Expected in 2017*



PHASE 1		PHASE 2		PHASE 3	REGISTRATION
Anetumab Ravtansine Cancer	Anetumab Ravtansine Cancer (+ pemetrexed/cisplatin)	Anetumab Ravtansine Mesothelioma (MPM)	BI-836845 Metastatic breast cancer	Guselkumab Psoriasis (VOYAGE 2)	Guselkumab Psoriasis
Anetumab Ravtansine Ovarian cancer (+ doxorubicin)	Anetumab Ravtansine Hepatic/renal impairment	BI-836845 CRPC (+enzalutamide)	Guselkumab Active psoriatic arthritis	Guselkumab Psoriasis (NAVIGATE)	
BAY-1093884 Bleeding disorders	BI-836845 EGFR mutant NSCLC	Tesidolumab (LFG316) Panuveitis	Tesidolumab (LFG316) GA (+ CLG561)	Guselkumab Pustular / Erythrodermic Psoriasis	
Gantenerumab Alzheimer's	Elgemtumab (LJM716) Breast cancer (+ BYL716/trastuzumab)	Elgemtumab (LJM716) ESCC (+ BYL716)	MOR103/GSK3196165 RA	Guselkumab Moderate to severe plaque psoriasis (POLARIS)	
Tesidolumab (LFG316) Kidney Transplantation	MOR106 Inflammation	MOR103/GSK3196165 RA	MOR103/GSK3196165 Osteoarthritis	Guselkumab Severe plaque psoriasis	
Elgemtumab (LJM716) Breast/gastric cancer	NOV-7 Eye diseases	MOR202 Multiple Myeloma	MOR208 DLBCL (+ lenalidomide)		
Utomilumab (PF-05082566) NHL/solid tumors (+ rituximab)	Utomilumab (PF-05082566) Solid tumors (+ MK-3475)	Tarextumab (OMP-59R5) Small cell lung canc	VAY736 Rheumatoid arthritis		
Vantictumab (OMP-18R5) NSCLC	Vantictumab (OMP-18R5) Pancreatic cancer	VAY736 Primary Sjögren's Syndrome (PD)	VAY736 Pemphigus Vulgaris		

- Partnered Discovery Programs
- Proprietary Development Programs

* Anticipated primary completion dates, according to clinicaltrials.gov

Financial Strength

Guidance Confirmed



IN € MILLION	2015	9-MONTHS 2016	GUIDANCE 2016
Group Revenues	106.2	36.7	47 to 52
Proprietary R&D Expenses (incl. Technology Development)	56.6	46.2	76 to 83
EBIT	17.2	-32.3	-58 to -68

IN € MILLION	DEC 31, 2015	SEP 30, 2016
Cash, cash equivalents & marketable securities as well as other short-term and long-term financial assets	298.4	267.2*

*MorphoSys raised additional gross proceeds of EUR 115 million in a capital increase on November 15, 2016

TODAY

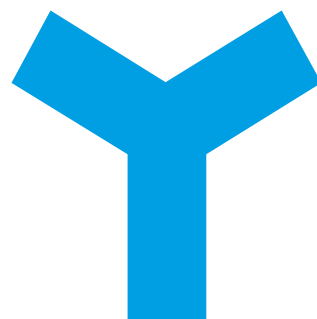
- First product candidate in registration in the US and Europe
- Maturing clinical pipeline set to deliver a lot of data
- Powerful technology platform delivering differentiated drug candidates



OUR FUTURE

- Marketed products delivering lucrative royalty stream
- Revenues fuel pipeline and R&D engine
- First commercial footprint in Europe established

Appendix



Clinical Programs

Ongoing Clinical Trials (2)



PROGRAM	PARTNER	TARGET	INDICATION	PHASE 1	PHASE 2	PHASE 3
MOR103/GSK3196165	GSK	GM-CSF	Rheumatoid arthritis (RA) Rheumatoid arthritis (RA) (mechanistic study) Hand osteoarthritis			
MOR202	-	CD38	Multiple myeloma (MM)			
MOR208	-	CD19	Chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) (COSMOS) Diffuse large B cell lymphoma (DLBCL) (B-MIND) Diffuse large B cell lymphoma (DLBCL) (L-Mind) Chronic lymphocytic leukemia (CLL) (IIT study)			
Tarextumab (OMP-59R5)	Oncomed/GSK	Notch 2	Small cell lung cancer (SCLC) (PINNACLE) Solid tumors			
Tesidolumab (LFG316)	Novartis	C5	Age-related geographic atrophy Geographic atrophy (combo with CLG561) Panuveitis Paroxysmal nocturnal hemoglobinuria Transplant associated microangiopathy (TAM) Renal disease patients awaiting kidney transplant			
Utomilumab (PF-05082566)	Pfizer	4-1BB	Solid tumors (JAVELIN medley) (combo with avelumab) Solid tumors, NHL (combo with rituximab) Solid tumors (combo with pembrolizumab) Solid tumors (combo with mogamulizumab) Solid tumors (combo with PF04518600)			
VAY736	Novartis	BAFF-R	Pemphigus vulgaris Primary Sjögren's syndrome Rheumatoid arthritis (RA)			
BAY1093884	Bayer	TFPI	Hemophilia			
MOR106	Galapagos	IL-17C	Atopic dermatitis			
MOR209	Aptevo	n.d.	Prostate cancer			
NOV-7	Novartis	n.d.	Eye disease			
NOV-8	Novartis	n.d.	Inflammation			
NOV-9	Novartis	n.d.	Diabetic eye disease			
NOV-10	Novartis	n.d.	Cancer			
NOV-11	Novartis	n.d.	Blood disorders			
NOV-12	Novartis	n.d.	Prevention of thrombosis			
NOV-13	Novartis	n.d.	Cancer			
Vantictumab (OMP-18R5)	Oncomed/Bayer	Fzd 7	Breast cancer Pancreatic cancer (combo) Non-small-cell lung carcinoma (NSCL)			

Partnered Discovery Programs
 MOR Proprietary Programs

INSTITUTION	CONTACT
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Goldman Sachs	Tim Woodward
HSBC	Julie Mead
Independent Research GmbH	Bernhard Weininger
J.P. Morgan Cazenove	James Gordon
Kempen & Co.	Anastasia Karpova
Landesbank Baden-Württemberg	Timo Kürschner
Oddo Seydler	Igor Kim

DATE	TITLE
March 9, 2017	Publication of year-end results 2016
May 3, 2017	Publication of first quarter interim statement 2017
May 17, 2017	Annual General Meeting 2017
August 3, 2017	Publication of half-year report 2017
November 7, 2017	Publication of third quarter interim statement 2017

Thank You

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