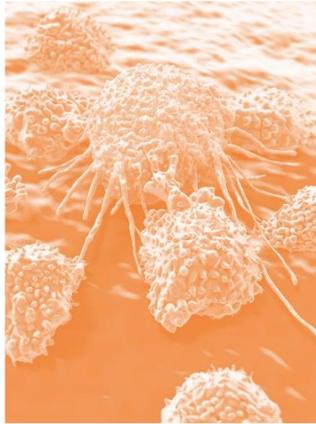
A blue-tinted anatomical illustration of a human torso, showing the skull, neck, and spine, serving as a background for the left side of the slide.

# Actualizing the Untapped Potential of the Innate Immune System

Affimed's Approach to Advancing Immuno-oncology



This presentation and the accompanying oral commentary contain “forward-looking” statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this presentation and the accompanying oral commentary, including statements regarding our future financial condition, business strategy and plans and objectives of management for future operations, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “believe,” “will,” “may,” “estimate,” “continue,” “anticipate,” “intend,” “should,” “plan,” “might,” “approximately,” “expect,” “predict,” “could,” “potentially” or the negative of these terms or other similar expressions.

Forward-looking statements appear in a number of places throughout this presentation and the accompanying oral commentary and include statements regarding our intentions, beliefs, projections, outlook, analyses and current expectations concerning, among other things, the value of our ROCK<sup>®</sup> platform, the safety and efficacy of our product candidates, our ongoing and planned preclinical development and clinical trials, our collaborations and development of our products in combination with other therapies, the timing of and our ability to make regulatory filings and obtain and maintain regulatory approvals for our product candidates our intellectual property position, our collaboration activities, our ability to develop commercial functions, expectations regarding clinical trial data, our results of operations, cash needs, financial condition, liquidity, prospects, future transactions, growth and strategies, the industry in which we operate, the trends that may affect the industry or us and the risks uncertainties and other factors described under the heading “Risk Factors” in Affimed’s filings with the Securities and Exchange Commission.

Forward-looking statements involve known and unknown risks, uncertainties, assumptions and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Forward-looking statements represent our management’s beliefs and assumptions only as of the date of this presentation. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons why actual results could differ materially from those anticipated in the forward-looking statements, even if new information becomes available in the future.

## PRODUCTS

- Versatile innate cell engagers targeting hematologic and solid tumors
- Only company with a clinical stage innate cell engager

## PARTNERSHIPS

- Collaborations based on proprietary CD16A engager capabilities and innate immunity expertise
- Genentech, Merck (MSD), MD Anderson Cancer Center, Columbia University, Leukemia & Lymphoma Society



Giving patients back  
their innate ability to  
fight cancer

## PLATFORM

- Fit-for-purpose ROCK<sup>®</sup> platform generates customizable innate cell engagers with proprietary CD16A target

## CORPORATE FACTS

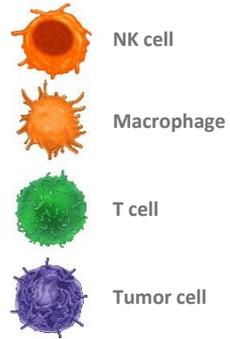
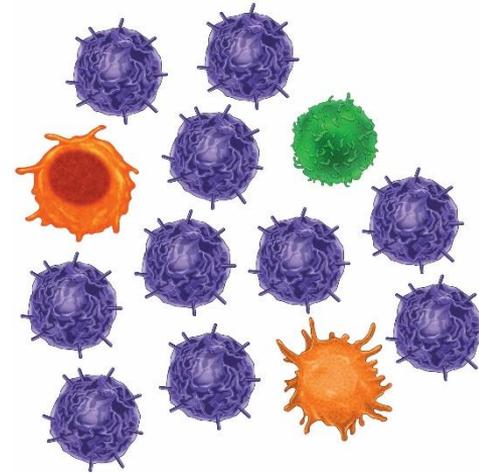
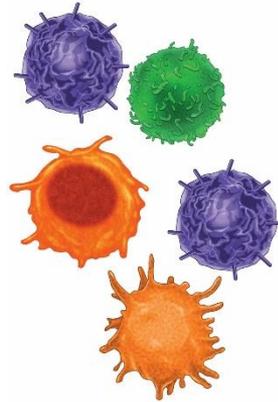
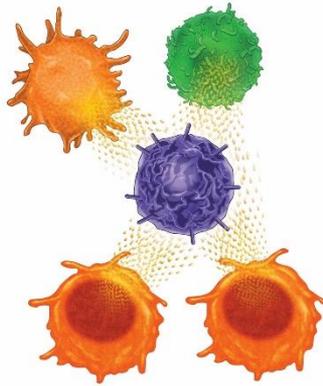
- Nasdaq listed since 2014 (NASDAQ: AFMD)
- ~90 employees in Heidelberg (HQ), Munich, New York
- Cash, cash equivalents, financial assets\* of ~€87.7M / ~\$100M\*\* (June 30, 2019); cash runway into 2021

# Immunotherapies Need to Overcome Tumor Immune Evasion

Immunosurveillance



Tumor growth



Elimination

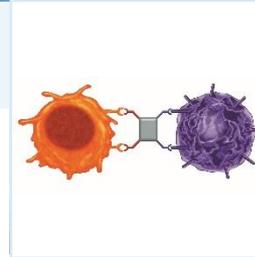
Evasion

# Affimed Brings a New Approach to Counter Tumor Immune Evasion Through the Innate Immune System



## Current Treatments

- Advanced I/O agents demonstrate it is possible to activate the immune system to trigger tumor killing
- Despite these advances, a cure remains elusive and more options are needed to truly help patients
- **Most current options utilize adaptive approaches, not leveraging the potential of innate immunity**



## Affimed

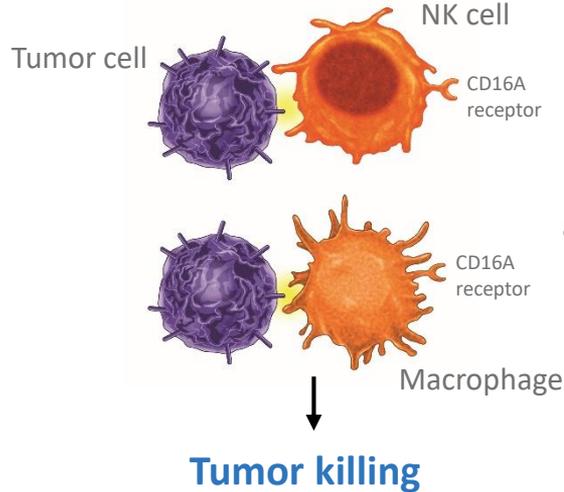
- Affimed is committed to improving patient outcomes through the power of the **innate immune system**
- Affimed's clinically validated **ROCK® platform** creates medicines that enable the body's immune cells to recognize and kill tumor cells (basis for the Genentech collaboration)

# Activation of the Innate Immune System for Tumor Recognition and Killing Also Initiates an Adaptive Immune Response

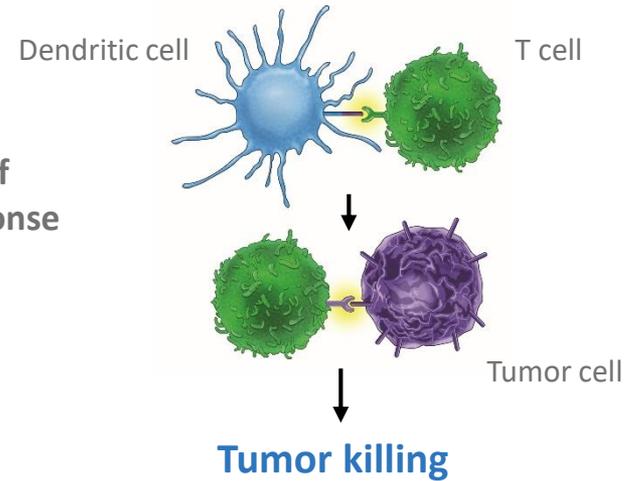
Innate Immunity, First Line of Defense

Adaptive Immunity, Second Line of Defense

**Affimed** (innate cell engagers)



**Current therapies** (e.g., anti-PD-1/L1)



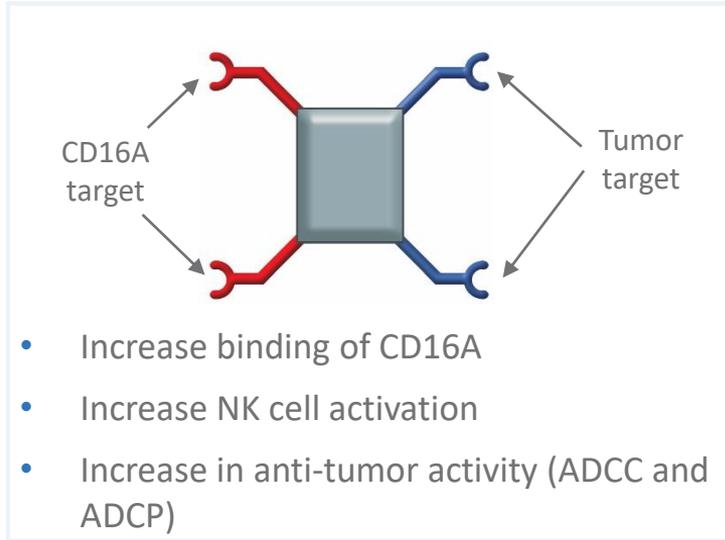
Initiation of  
adaptive response



# Affimed's Innate Cell Engagers Can Give Patients Back their Innate Ability to Fight Cancer

## Innate cell engagers are bispecific antibodies

- Generated by the versatile ROCK<sup>®</sup> platform
- Result of Affimed's strong engineering capabilities



 <b>Clinically</b> proven efficacy & ADCC*	 <b>Tolerable</b> safety profile*
	
 <b>High affinity</b> binding of <b>CD16A</b>	 <b>New epitope</b> on <b>CD16A</b>
	 <i>Proprietary target</i>

\*Based on AFM13 clinical studies.

# Genentech Invested in Affimed's CD16A Engager Capabilities and Expertise in Innate Immunity



## Genentech

*A Member of the Roche Group*

**\$96M**

Upfront, near term funding

**\$5B**

Potential milestones,  
plus royalties

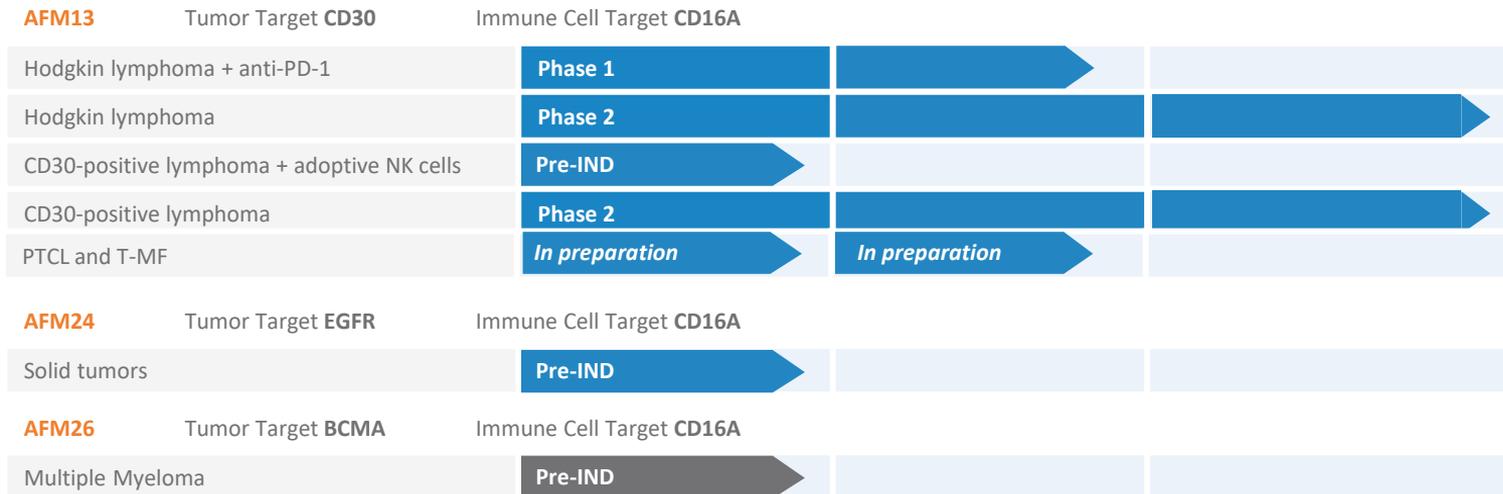
Strategic partnership driven by our **clinical stage CD16A-targeted** innate cell engagers

- Clinical efficacy
- Tolerable safety profile
- Synergy with other I/O agents

*“This collaboration is based on Affimed’s innate immune cell drug discovery and development expertise and our team’s deep understanding of cancer immunology”*

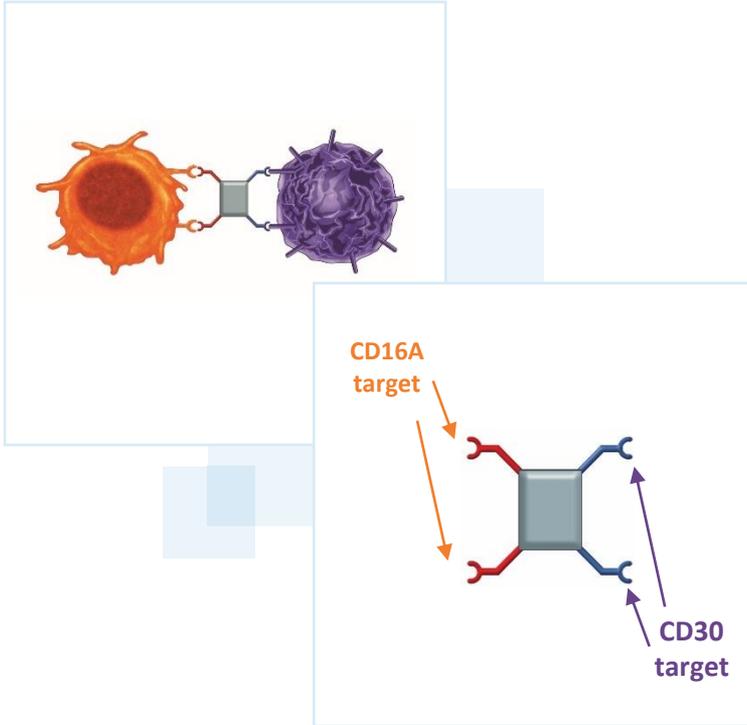
James Sabry, M.D., Ph.D.,  
Global Head of Partnering, Roche

# Differentiated and Versatile Innate Cell Engagers to Target Hematological and Solid Tumors



■ Affimed Programs    
 ■ Partnered Programs

**PTCL**, peripheral T cell lymphoma  
**T-MF**, transformed mycosis fungoides



# Innate Cell Engagers in Hematologic Tumors

Treatment with AFM13

# In Clinical Studies, AFM13 Monotherapy Has Shown Promising Efficacy in Patients With CD30 Positive Lymphoma

## CD30-Positive Lymphoma

### Phase 1b/2a Trial:

- Investigator-sponsored\*, translational study to evaluate immunological effects and preliminary efficacy of AFM13 monotherapy in R/R CD30+ lymphoma with cutaneous presentation
- 10 patients treated in 4 dose cohorts

### Overview\*\*:

- AFM13 monotherapy is active post-Brentuximab vedotin failure
- Biomarker data: possible correlation between response and tumor NK cell infiltration pre-therapy

## Results

Cohort	Disease	Toxicity	Response
1	S-ALCL, Aik (-)	No AE	PR
	T-MF	No AE	POD
	C- ALCL	Rash (G4) Skin infection (G3)	CR
2	MF	IRR (G1)	SD
	T-MF	IRR (G1)	SD
	T-MF	Skin infection (G3) IRR (G1)	Not assessed
3	T-MF	No AE	PR
	S-ALCL, Aik (-)	No AE	PR
	MF	No AE	POD
4	T-MF	No AE	PR

- 50% ORR including 1 CR and 4 PRs

\*Principal Investigator: Ahmed Sawas, MD, Columbia University Medical Center, New York, NY.

\*\*A Sawas et al., 15-ICML 2019, Abstract 259.

AE, adverse event; CR, complete response; MTD, maximum-tolerated dose;

ORR, objective response rate; POD, progression of disease; PR, partial response; R/R, relapsed/refractory; T-MF, transformed mycosis fungoides

# Treatment with AFM13 Followed by Allogeneic Stem Cell Transplant Demonstrated Durable Response in a Patient with T-MF

## Response: Skin lesions (leg)

Pre Study



Cycle 1  
Week 11



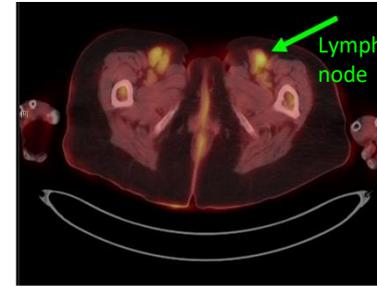
Post Cycle 2



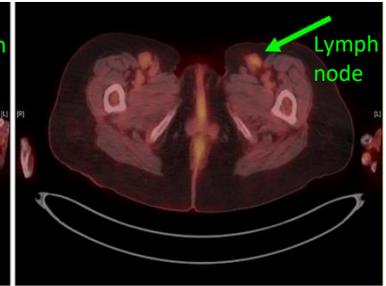
**Efficacy in T-MF:** Responses were observed in lymph nodes, skin and the peripheral blood

## Response: Lymph nodes (PET-CT)

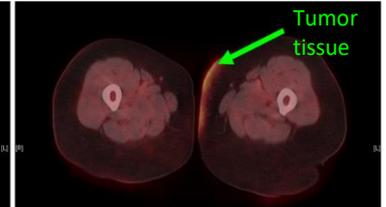
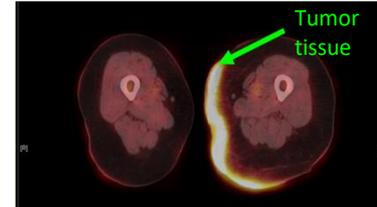
Pre Study



First Assessment



\*



\*Imaging response for same leg in left photographs.

# Addition of AFM13 to Pembrolizumab Was Well Tolerated and Showed Signs of Efficacy in Patients With R/R HL

## R/R Hodgkin Lymphoma

### Phase 1b Trial:

- AFM13 in combination with Merck's Keytruda® (pembrolizumab)
- Total of 30 patients treated to date
- MTD not reached in Part 1; highest dose employed in Part 2/Extension
- 24 patients evaluable in highest dose cohort

### Overview:

- Combination was well tolerated, no new/worsening safety signals vs known safety profiles of each agent alone
- Deepening of responses over time in multiple patients
- Patients previously transplant ineligible transitioned to transplant after achieving an objective response

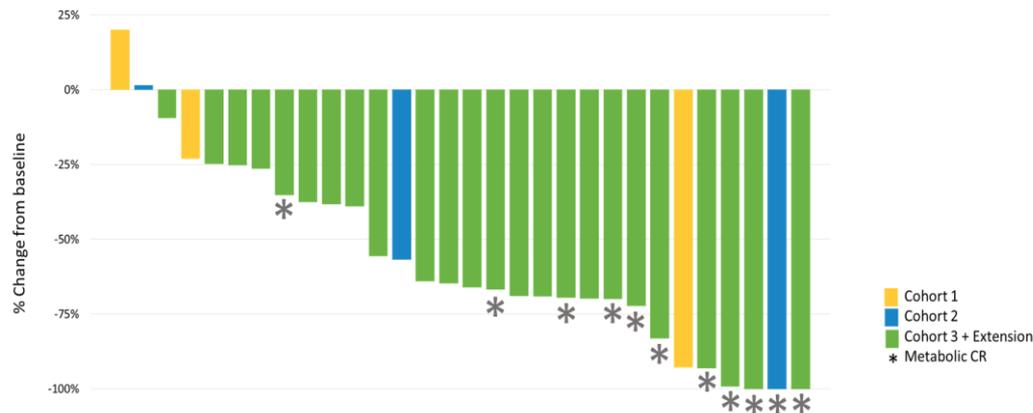
\*Data cutoff date: 10 May 2019  
Ansell et al., 15-ICML 2019, Abstract 128

## Efficacy Results

Pembrolizumab 200mg Q3W + AFM13 7mg/kg QW (N=24)

88% ORR, 42%/46% CR rate (local/central read)

### Best Response, Tumor Volume



Change in tumor volume measured by CT-scan, efficacy (ITT) population (N=30)

CR, complete response; MTD, maximum-tolerated dose;  
ORR, objective response rate;  
PR, partial response; R/R, relapsed/refractory

# AFM13: Broad Clinical Development Potential

## PTCL

- **Lack of standard of care** in R/R – very high unmet need
- Establish new standard of care treating the **vast majority** of R/R patients

~2600

Eligible U.S. patients

## CTCL

- Potential for **small trial** and **accelerated** timelines for Transformed Mycosis Fungoides
- Position as the **preferred therapy** for R/R for CD30+ patients

~200

Eligible U.S. patients

## HL

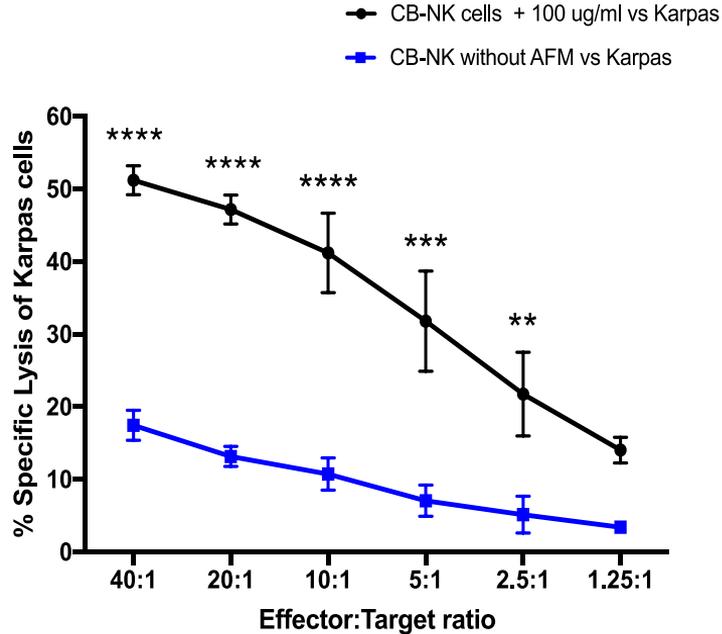
- **Emerging vacuum** of effective options in R/R as current therapies move to earlier lines
- Expand into **multiple settings** with **mono and combo** approaches

~3000

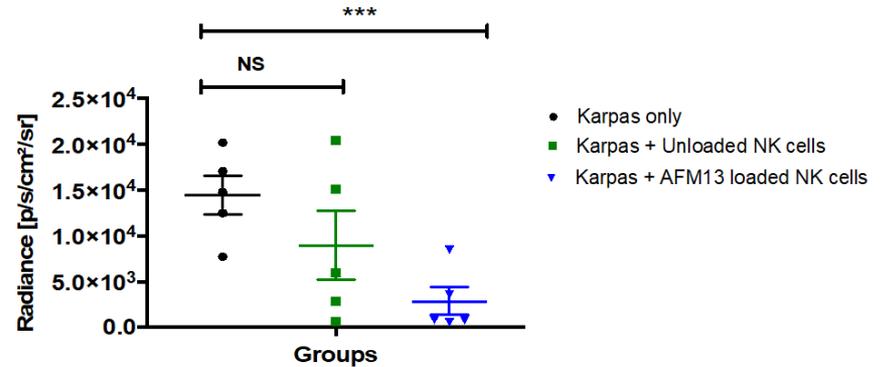
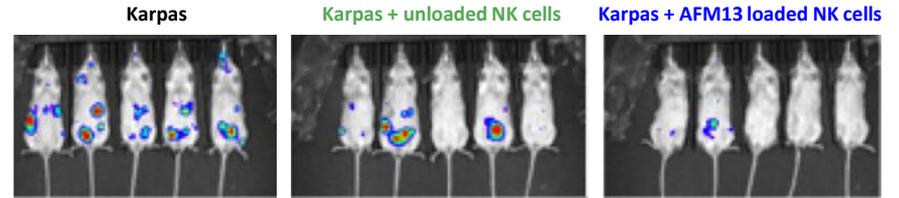
eligible U.S. patients

# Combination of AFM13 and Off-the-Shelf Cord Blood Derived NK Cells Decreased Tumor Growth (MDACC)

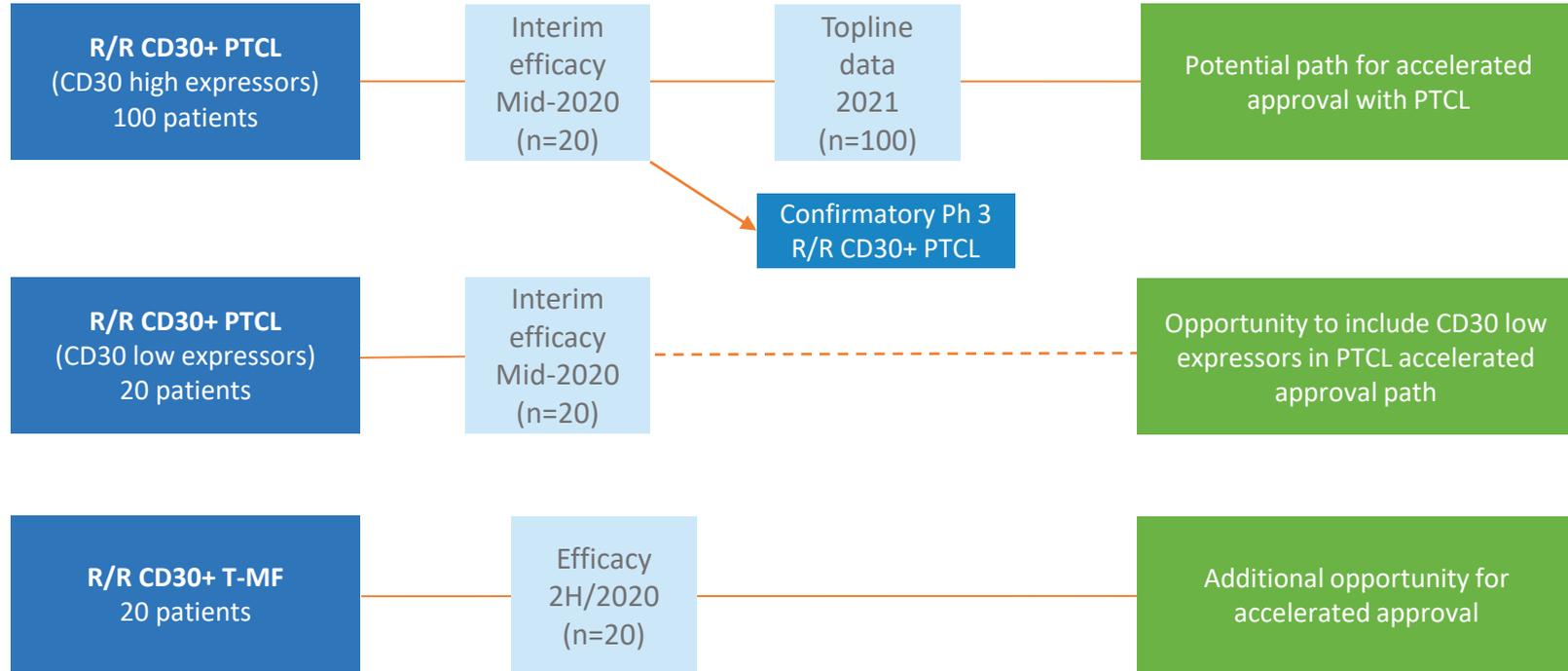
## AFM13-loaded cbNK cells kill CD30+ cells *in vitro*



## AFM13-loaded cbNK cells demonstrated reduction in tumor volume *in vivo* (Day 21)



# AFM13 Monotherapy in Patients With R/R CD30+ T Cell Lymphoma



# Multiple Clinical Development Opportunities With AFM13



## Initial registration path

- **AFM13 monotherapy in PTCL**
  - Potential for accelerated approval
- **Confirmatory study for PTCL**

**Affimed-sponsored study**

## Next registration path

- **AFM13 monotherapy in CTCL (T-MF)**
- **AFM13 + Anti-PD-1/PD-L1 in R/R HL**

**Affimed-sponsored study**

**Partnership opportunity**

## Exploratory opportunities

- **AFM13 + cbNK in CD30 lymphomas**

**Collaboration with MDACC**

# AFM13, a First-in-Class Innate Cell Engager, Delivers Clinically Meaningful Efficacy as Monotherapy and Combination Therapy in CD30+ Tumors



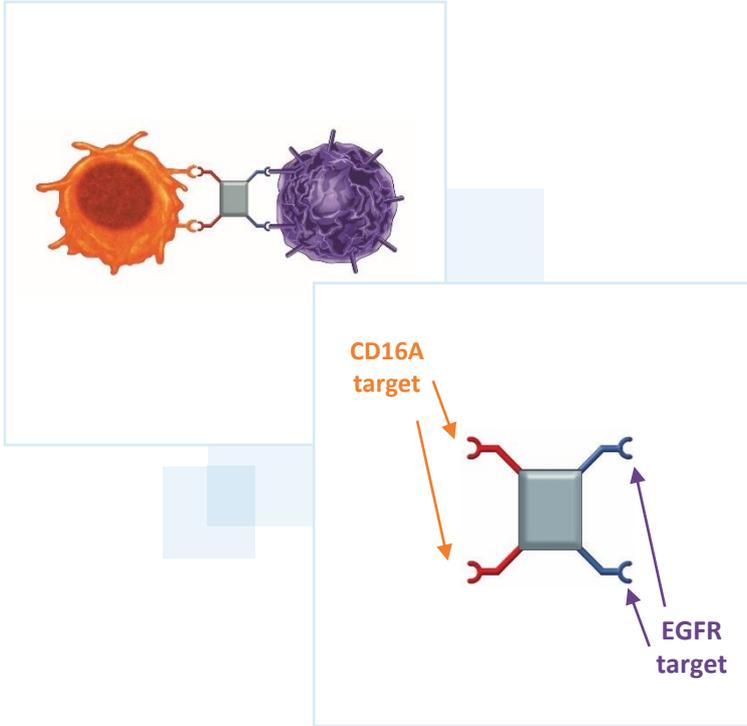
## Achievements

- Lead agent demonstrated clinical proof of concept for ROCK<sup>®</sup> innate cell engagers
- Efficacy with monotherapy and combination therapy (TCL, HL)
- Tolerable safety profile



## Opportunities and Next Steps

- H2 2019: Initiate registration-directed study (monotherapy in TCL)
- MDACC expected to initiate combination study with cbNK cells in CD30+ lymphomas (IST)
- Groundwork for further CD16A engagers (AFM24, early pipeline)



# Innate Cell Engagers in Solid Tumors

Treatment with AFM24

# AFM24 is a Novel Approach to Treat Many Types of Solid Tumors that Overexpress EGFR



## EGFR Expressing Tumors & Current EGFR Targeting Therapies

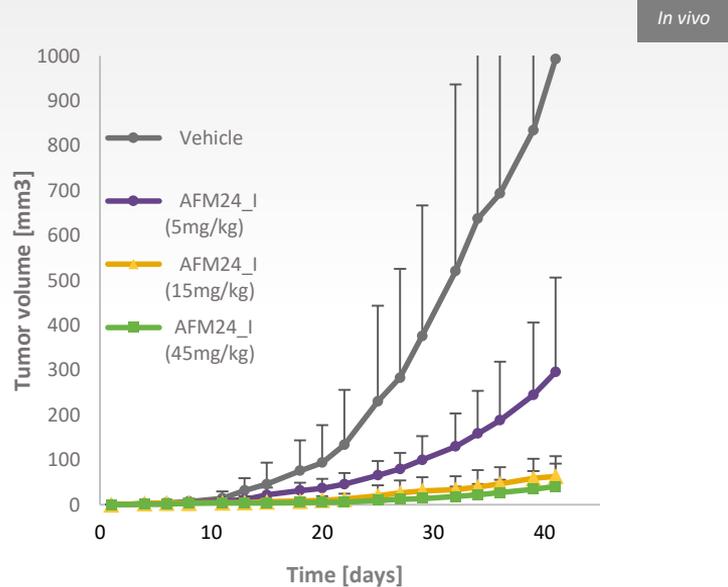
- EGFR is overexpressed in several tumors (e.g. CRC, NSCLC, HNSCC, GBM, TNBC)
  - EGFR-mediated signaling is frequently affected by mutations in various tumors leading to increased tumor growth
- Current therapies rely on EGFR signal inhibition and may be limited by:
  - Associated toxicities
  - Acquired resistance
  - Limited antitumor immune response

## Affimed's Solution to EGFR Tumors is AFM24 (CD16A/EGFR)

- Innate cell engager bridging NK cells and macrophages to EGFR expressing tumors
  - An influx of TILs and NK cells is associated with a beneficial prognosis in EGFR tumors
- New mode of action addressing safety of standard of care (SOC) anti-EGFR therapies, such as cetuximab, and SOC-resistant patient population

# AFM24 Demonstrated Potent *in vivo* Tumor Cell Killing and Improved Safety

AFM24 demonstrates dose-dependent tumor growth inhibition in an *in vivo* mouse model

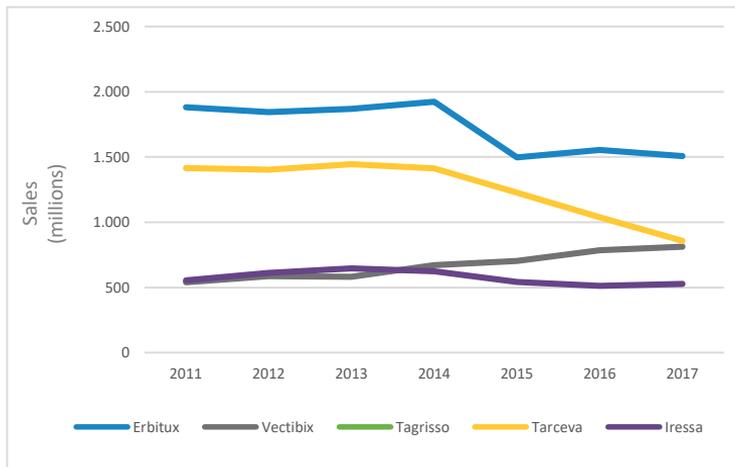


AFM24 shows favorable safety profile in a dose range finding toxicity study in cynomolgus monkeys

- All animals were clinically well throughout the study without notable changes in body temperature, clinical hematology, or clinical chemistry
- Macroscopic and microscopic assessment of tissues showed no findings of toxicities (e.g., skin toxicity)
- AFM24 is markedly more tolerable vs. published safety data for cetuximab in cynomolgus monkeys
- The half-life of AFM24 is comparable to the half-lives of cetuximab and panitumumab in cynomolgus monkeys

# AFM24 Could Address Clinical Unmet Need Among EGFR-Targeted Therapies

## Current Therapies

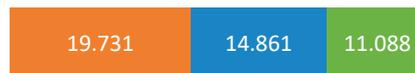


In 2017, sales of EGFR-targeted therapies totaled \$4.7B globally<sup>1</sup>

## AFM24 US Market Opportunity

### Actively Treated Stage IV Patients in 2016, US<sup>2</sup>

#### NSCLC



#### Colorectal Cancer



#### TNBC



#### Head and Neck Cancer



1L 2L 3L+

1. Source: Company reports  
2. Source: Datamonitor Healthcare survey, 2016

1L, first line; 2L, second line; 3L, third line; CPI, checkpoint inhibitor; EGFR, epidermal growth factor receptor; IL, interleukin; mAbs, monoclonal antibodies; NSCLC, non-small cell lung cancer; SOC, standard of care; TNBC, triple-negative breast cancer; US, United States

# AFM24, a New Mode of Action to Initiate Innate Immunity in EGFR+ Solid Tumors, such as CRC, NSCLC, and Others



## Achievements

- Demonstrated potent cell killing capabilities (ADCC and ADCP) in pre-clinical studies
  - Indicates potent efficacy
  - Potential for greater efficacy in tumor types with EGFR mutations/resistance
- Differentiating safety profile in pilot toxicity study



## Opportunities and Next Steps

- New MOA to address patients currently not responding, e.g. KRAS-mutant patients
- Potential for innate/adaptive combinations enhancing efficacy in major solid tumor types
- Planned IND filing ~end-3Q 2019, clinical data possible in 2020

# Affimed is Actualizing the Next Great Advancement in I/O

Giving patients back their innate ability to fight cancer



## Innate cell engagers

- Fit-for-purpose ROCK® platform utilizes CD16A
- Effective as monotherapy or combination therapy
- Foundation to offer novel medicines

## Novel therapeutics

- AFM13: Lead agent with registrational path in TCL
- AFM24: Potential to disrupt landscape with a novel MOA
- Uncovering novel combination therapies

## Affimed

- First company to validate innate cell engagers in the clinic
- Recognized as a leader in innate immunity through Genentech partnership
- Committed to deliver medicines to patients in need

# Experienced Management Team

Proven track record in biotech, pharma, product development, and finance



**Dr. Adi Hoess**  
Chief Executive Officer (CEO)

Extensive background in general management, product commercialization, fundraising and M&A



**Dr. Florian Fischer**  
Chief Financial Officer (CFO)

Strong financial background, lead advisor in a variety of transactions & financings life sciences/healthcare



**Dr. Wolfgang Fischer**  
Chief Operating Officer (COO)

In-depth expertise in R&D with a focus on oncology, immunology and pharmacology



**Dr. Leila Alland**  
Chief Medical Officer (CMO)

Seasoned immuno-oncology expert with broad experience developing oncology products



**Denise Mueller**  
Chief Business Officer (CBO)

Strong background in commercialization and global marketing including launch of new products

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