

# Developing Highly Differentiated Antibody Therapeutics

argenx



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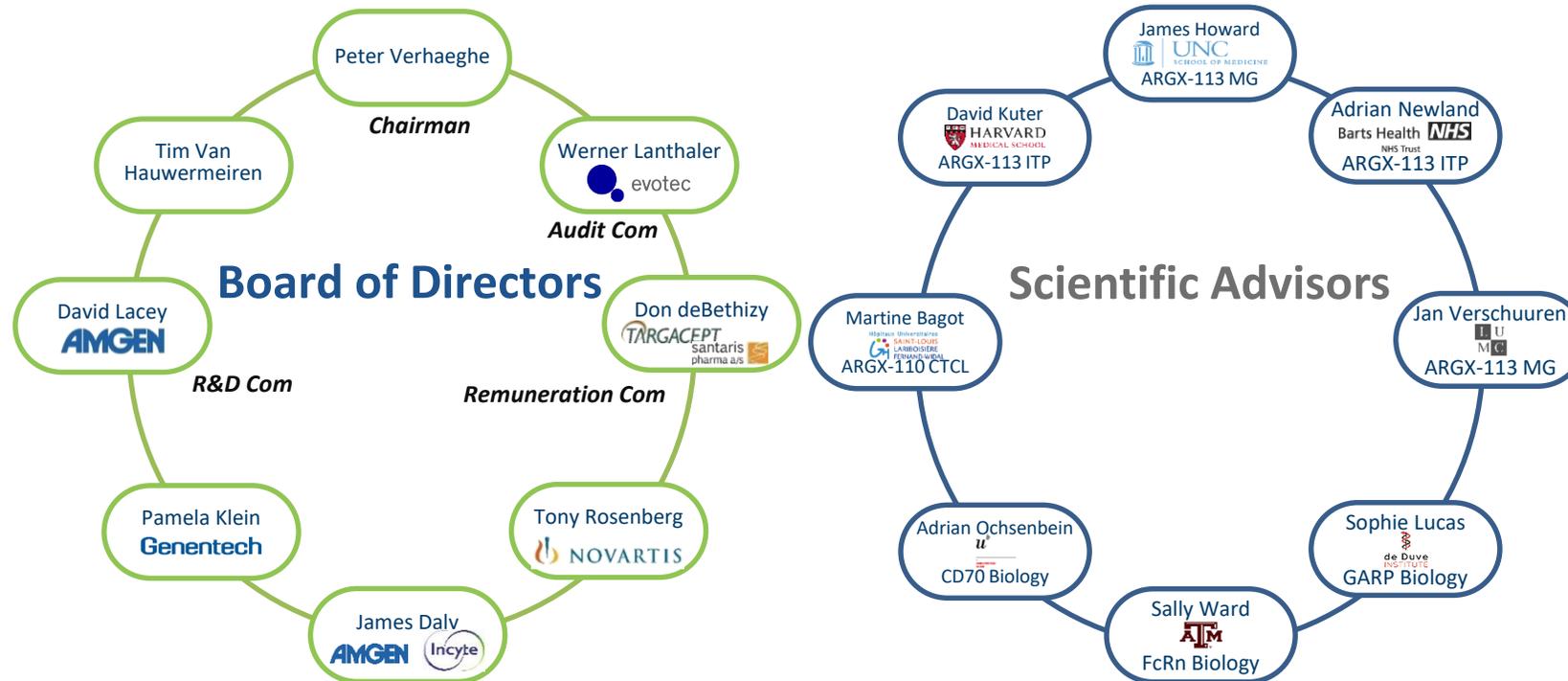
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# Company Leadership

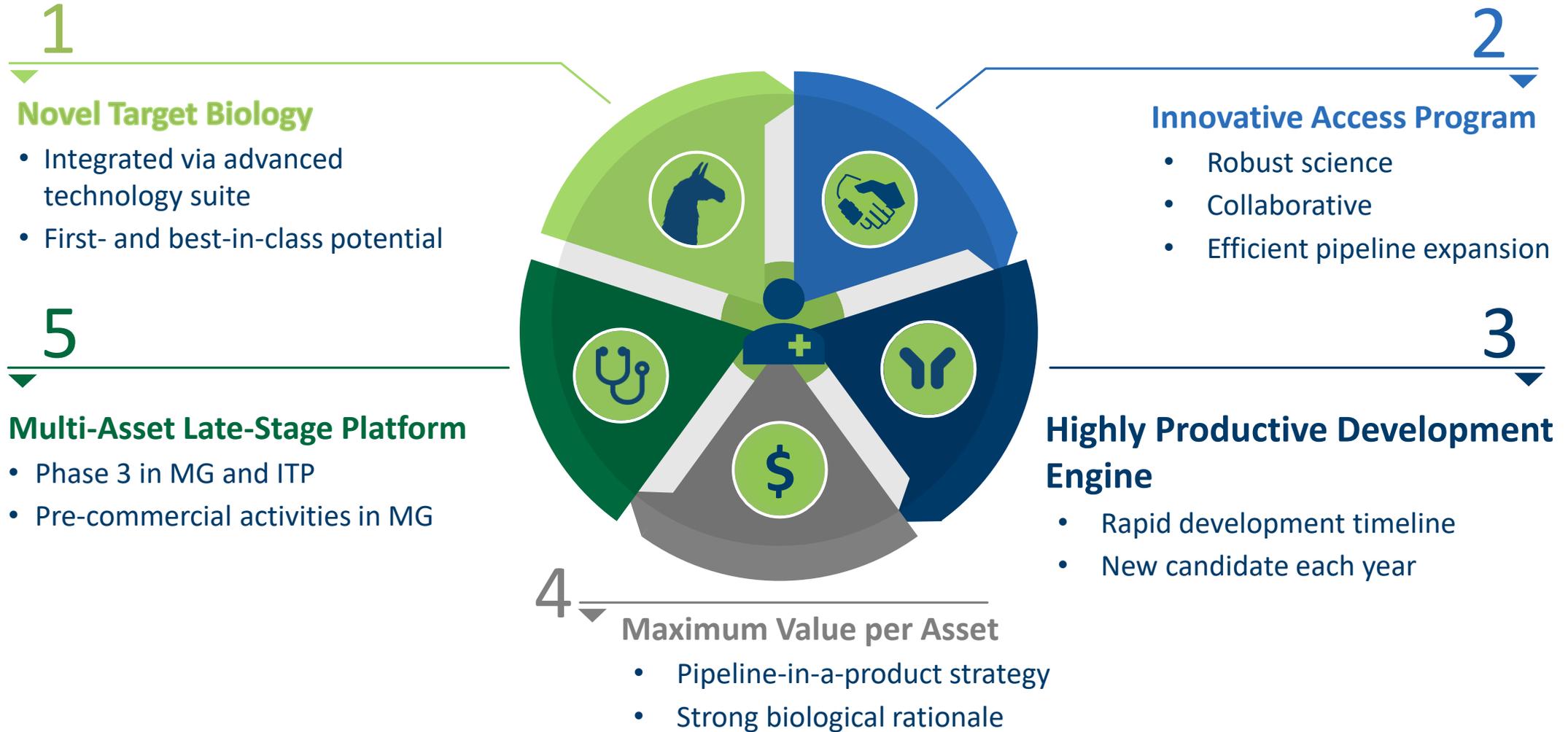
## Management

 <b>Tim Van Hauwermeiren</b> <i>Chief Executive Officer</i>	 <b>Keith Woods</b> <i>Chief Operating Officer</i>	 <b>Hans de Haard, Ph.D.</b> <i>Chief Scientific Officer</i>	 <b>Torsten Dreier, Ph.D.</b> <i>Chief Development Officer</i>
 <b>Eric Castaldi</b> <i>Chief Financial Officer</i>	 <b>Nicolas Leupin, M.D.</b> <i>Chief Medical Officer</i>	 <b>Debbie Allen, Ph.D.</b> <i>SVP, Business Development</i>	 <b>Dirk Beusaert</b> <i>General Counsel</i>



# Rapidly Emerging Leadership in Immunology

Pioneering differentiated therapeutic antibodies in severe autoimmune diseases and cancer



Translate immunology breakthroughs into novel medicines which truly impact patients' lives

## Recent news

### **Efgartigimod (ARGX-113):**

- MG Ph3: First patient treated – recruiting up to 150 patients (Sept '18)
- ITP Ph2: Favorable tolerability profile and robust efficacy signal – second PoC (ASH - Dec '18)
- ITP: Orphan Drug Designation (FDA – Jan '19)
- Exclusive collaboration with Halozyme for ENHANZE<sup>®</sup> subcutaneous delivery technology (Feb '19)

### **Cusatuzumab (ARGX-110):**

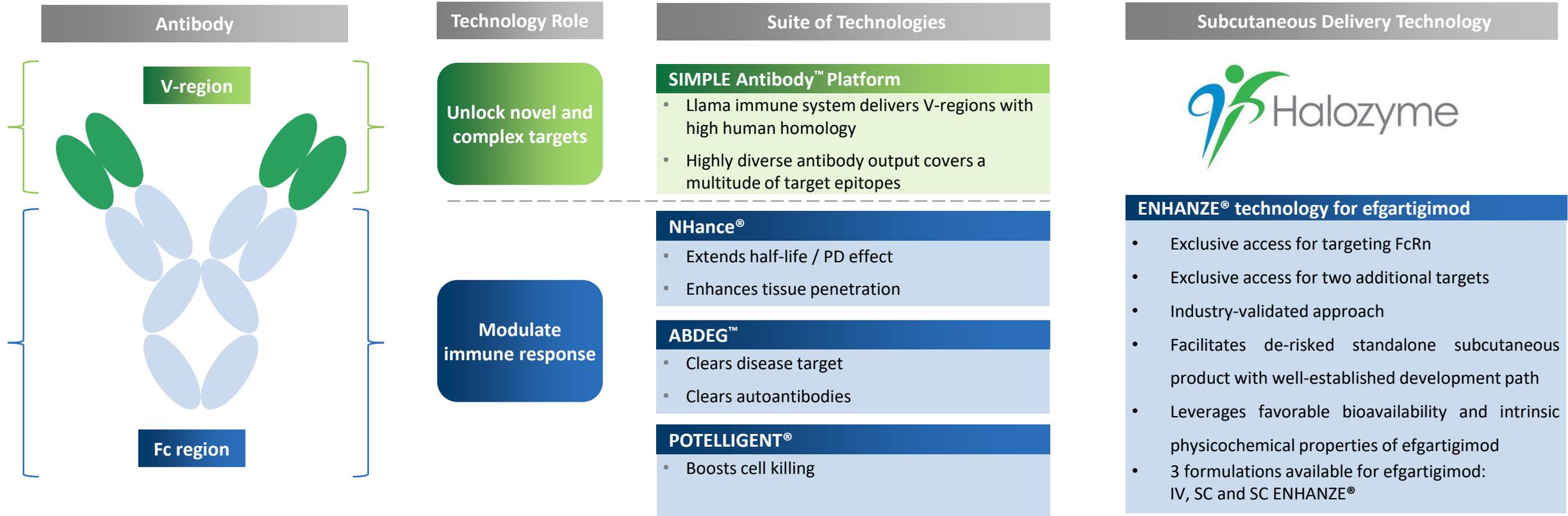
- AML Ph1/2: Favorable tolerability profile and 92% ORR mainly CR/CRi (ASH – Dec '18)
- Strategic partnership with Janssen: accelerating and broadening clinical development plan (Dec '18)
- AML: Orphan Drug Designation (FDA – Jan '19)

**ARGX-115 (ABBV-151):** Initiation of first-in-human clinical trial - \$30mm milestone payment

**ARGX-114:** SIMPLE Antibody<sup>™</sup> agonizing MET, spun out into AgomAb (€21mm series A round - April '19)

# Augmenting Intrinsic Therapeutic Properties of Antibodies

Exclusive collaboration with Halozyme for subcutaneous delivery technology



Unique suite of technologies enables development of differentiated product candidates against novel targets

Exclusive access to ENHANZE® solidified leadership position in FcRn space



Klarenbeek et al. 2015, mAbs  
Basilico et al. 2014, J Clin Inv.

# Deep Pipeline of Wholly-Owned Candidates for Orphan Indications

Product Candidate	Target	Indication	Preclinical	Phase 1	Phase 2	Phase 3	BLA	Next Milestone / Commentary	
<b>Wholly-Owned &amp; Co-Development Product Candidates</b>									
ARGX-113 Efgartigimod	FcRn	Myasthenia Gravis							3Q18: Phase 3 initiated
		Immune Thrombocytopenia (ITP)							2H19: Phase 3 initiation
		ITP Subcutaneous Formulation							1H19: Phase 2 initiation
		Pemphigus Vulgaris							1H19: Cohort 3 initiation
		Chronic Inflammatory Demyelinating Polyneuropathy							2H19: Phase 2 initiation
ARGX-117	Novel complement target	Severe Autoimmune Diseases							Antibody-mediated autoimmune diseases Complementary to ARGX-113
ARGX-110 Cusatuzumab	CD70	Acute Myeloid Leukemia							\$500 million upfront Eligible for up to \$1.3 billion in milestones; tiered royalties

# Innovative Access Program Allows Strategic Partnering

Partner activity focused in therapeutic areas outside severe autoimmune and cancer



Product Candidate	Target	Indication	Preclinical	Phase 1	Phase 2	Phase 3	BLA	Next Milestone / Commentary
<b>Partnered Product Candidates</b>								
ARGX-112 	IL-22R	Skin Inflammation						Eligible for up to ~€100mm in milestones; tiered royalties
ARGX-115 (ABBV-151) 	GARP	Cancer Immunotherapy		First-in-human clinical trial \$30mm milestone payment				Received \$90mm in upfront and preclinical milestone payments Eligible for up to \$625mm milestones; tiered royalties
ARGX-116 	ApoC3	Dyslipidemia						Eligible for double-digit royalties and exclusive option to license the program; collaboration with Novo Nordisk
ARGX-114 	Met	Fibrosis						Golden share

- **Innovative Access Program:** 7 live programs
- Antibody discovery alliance with  focused on multiple rare disease targets – 2 options exercised
- Additional programs include ARGX-111 targeting c-MET in solid tumors and blood cancers (P1 concluded, wholly-owned, available for partnering) and ARGX-109 (gerilimzumab) targeting IL-6 for rheumatoid arthritis (P1 concluded, partnered with Genor Biopharma)



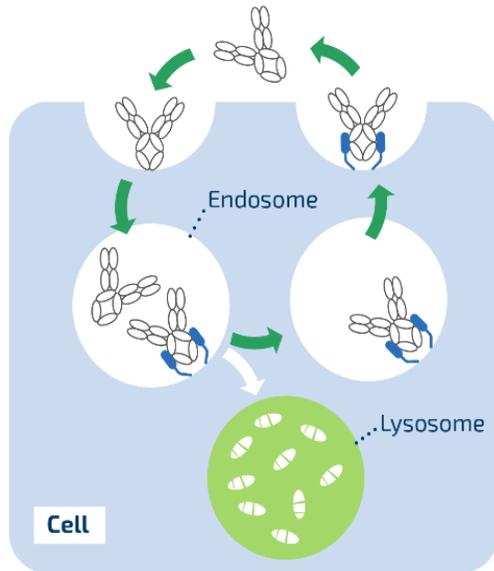
Efgartigimod:  
A Pipeline-in-a-Product Opportunity

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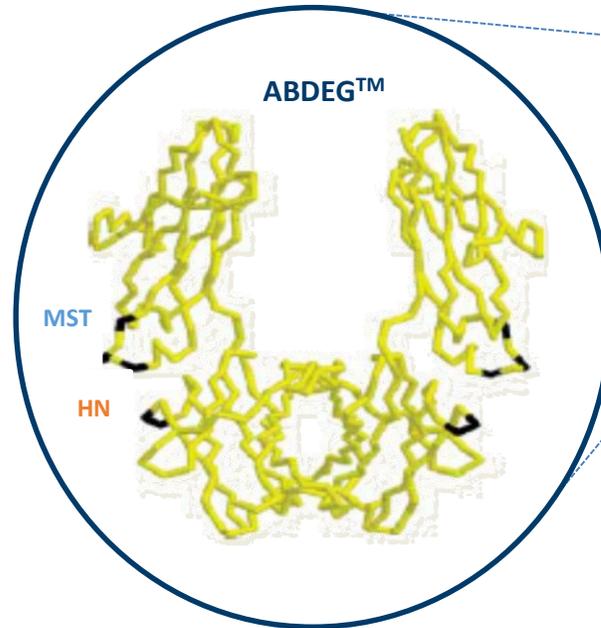
# Efgartigimod: Human IgG1 Fc Fragment with ABDEG™ Mutations

Exploits Natural Fc/FcRn Interaction and retains pH dependent binding

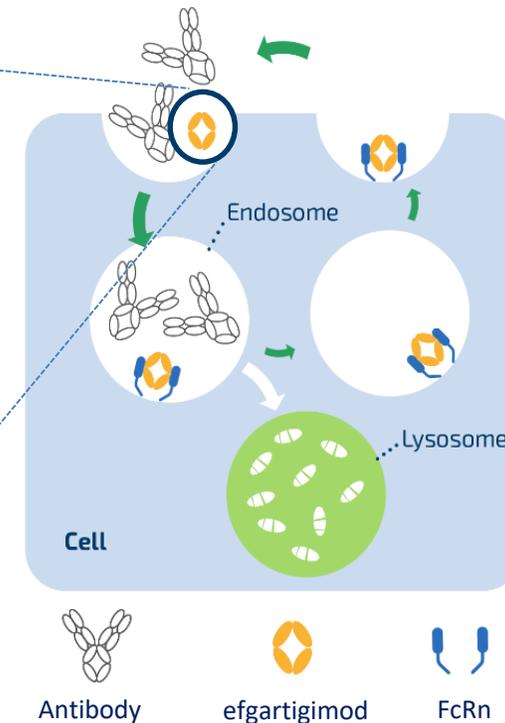
IgG antibodies recycle through FcRn<sup>(1)</sup>...



efgartigimod potently blocks FcRn...



leading to IgG elimination<sup>(2)</sup>

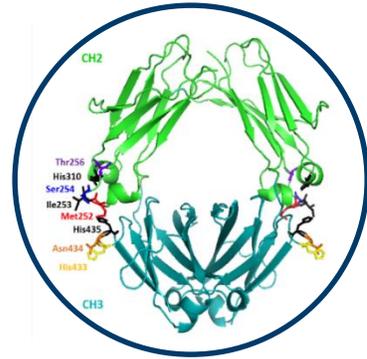


(1) Roopenian et al. 2007, Nat Rev Immunol.  
(2) Vaccaro et al. 2005, Nat Biotech.

(3) Ulrichs et al. 2018, J Clin Invest.  
(4) argenx data

# Efgartigimod Emerges as First-In-Class and Best-In-Class

- Human IgG1 Fc fragment
- With ABDEG™ mutations



- Natural ligand of FcRn
- Enhanced, pH dependent binding

## First-in-class features

- Reduced FcγR, C1q binding
- Endosomal recycling FcRn-efgart complex; no lysosomal degradation
- Can rebind FcRn
- 1/3 size of IgG; excellent physicochemical stability



## Best-in-class clinical attributes

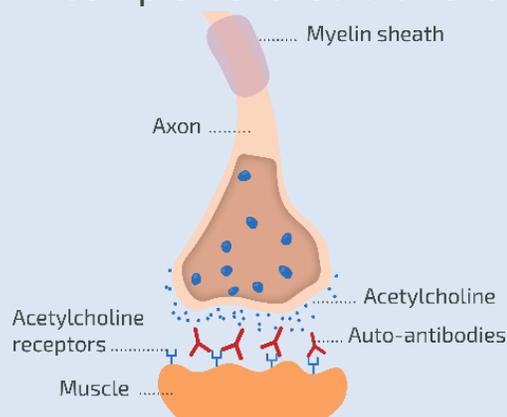
- **Clean tolerability profile**  
No headache or GI AE profile (~120 subjects)
- **No decrease in albumin**  
(Ulrichs et al., JCI, 2018)
- **Long half-life**  
Unparalleled tissue penetration & distribution
- **Long-lasting, potent PD effect**  
Fast onset of clinical benefit
- **Lower dose enables convenient subQ administration, high concentration formulations and lower COGS**

# Novel Treatment Modality in Severe Autoimmune Diseases

## Efgartigimod Beachhead Indications

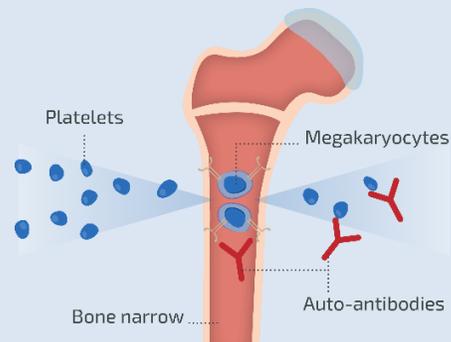
### Myasthenia Gravis

- Block acetylcholine receptors
- Cross-link + internalize AChRs
- Complement recruitment



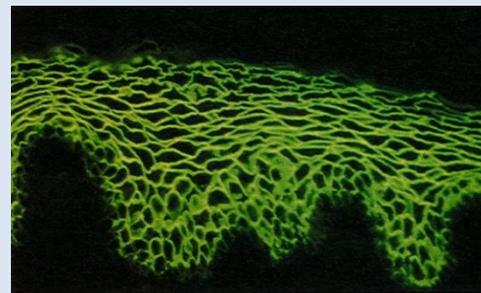
### Immune Thrombocytopenia

- Enhance platelet clearance
- Platelet killing
- Inhibit platelet production
- Reduced platelet function



### Pemphigus Vulgaris

- Sterically hinder epithelial adhesion affecting skin and mucosal integrity



### Common Characteristics of Beachhead Indications

- Pathogenic auto-antibodies causal to disease biology
- Typical treatment options: corticosteroids, broad immunosuppressants, IVIG, plasmapheresis, Rituxan – with mixed response rates and serious side effects
- Orphan potential in U.S. (MG: 50-60K<sup>(1)</sup>; ITP: 50K<sup>(2)</sup>; PV: 30-40K<sup>(3)</sup>)
- Potential pharmacoeconomic benefit to healthcare system given price of targeted therapies (e.g., Soliris for refractory MG ~\$700K / year)<sup>(4)</sup>



(1) Philips et al. 2003, Ann N Y Acad Sci; Drachman et al. 1993, New Eng J Med  
(2) Wall street research; Estimated 65K ITP patients in US with ~80% diagnosed with primary ITP  
(3) IPPF ([www.pemphigus.org](http://www.pemphigus.org))  
(4) Source: Reprinted with permission by First Databank Inc.; WAC = Wholesale Acquisition Cost 8/21/17

-  Consistent and favorable tolerability profile
-  Fast, long-lasting and sustained benefit; clinically meaningful and statistically significant
-  Strong correlation between IgG level reduction and disease improvement; supporting focus on IgG-mediated diseases
-  Significant reduction of AChR autoantibodies
-  Phase 2 execution advances efgartigimod into Phase 3 (initiated)

# Efgartigimod Safety And Tolerability Profile

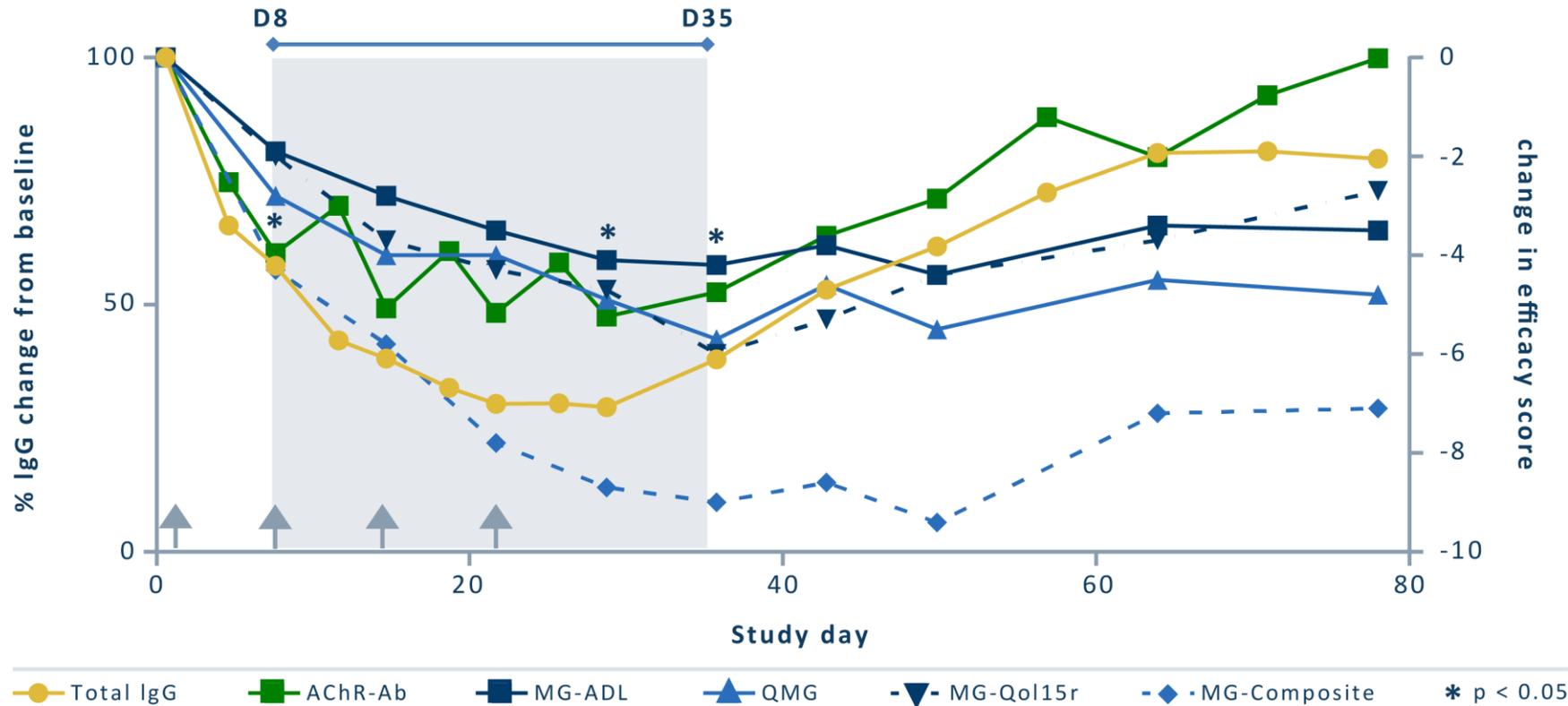
2 hour infusion enabling outpatient administration

- Efgartigimod was well-tolerated in patients; confirmed findings from Phase 1 healthy volunteer trial
- TEAE profile was balanced between efgartigimod and placebo
- TEAEs were mostly mild (grade 1) in severity; no severe AEs were reported
- No deaths, serious AEs or TEAEs leading to discontinuation of treatment were reported during trial

Treatment Emergent Adverse Events (TEAEs) Reported in ≥ 2 patients	Placebo (N = 12)	Efgartigimod (N = 12)
<b>TEAEs (Total)</b>	<b>10 (83.3%)</b>	<b>10 (83.3%)</b>
• Headache	3 (25.0%)	4 (33.3%)
• Nausea	1 ( 8.3%)	1 ( 8.3%)
• Diarrhea	1 ( 8.3%)	1 ( 8.3%)
• Abdominal pain upper	1 ( 8.3%)	1 ( 8.3%)
• Arthralgia	2 (16.7%)	-
• B-lymphocyte decrease	-	2 (16.7%)
• Lymphocyte count decrease	-	2 (16.7%)
• Monocyte count decrease	-	2 (16.7%)
• Neutrophil count increase	-	2 (16.7%)
• Myalgia	-	2 (16.7%)
• Pruritus	2 (16.7%)	1 ( 8.3%)
• Rhinorrhea	1 ( 8.3%)	1 ( 8.3%)
• Tooth abscess	2 (16.7%)	-
• Toothache	2 (16.7%)	-
<b>Efgartigimod deemed related TEAEs</b>	<b>3 (25.0%)</b>	<b>8 (66.7%)</b>
• Headache	1 ( 8.3%)	3 (25.0%)
• Monocyte count decrease	0 ( 0.0%)	2 (16.7%)
• Rhinorrhea	1 ( 8.3%)	1 ( 8.3%)

# Total & Pathogenic IgG Reduction Correlates with Clinical Improvements

Assessment for all efficacy scales

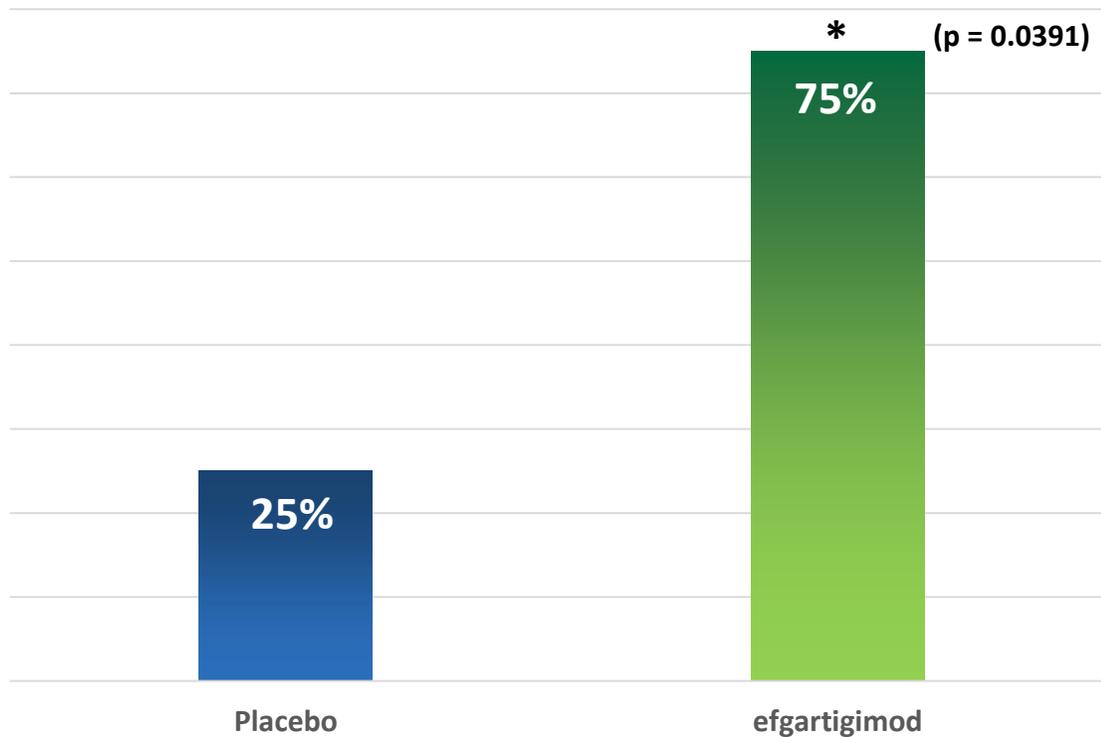


- Clinical improvement persists despite return of IgG levels
- Potential differentiation from PLEX where clinical benefit was reported to be lost 2-4 weeks after end of treatment <sup>(1)</sup>

(1) Kuks and Skallebaek, 1998, Transfus Sci

# 75% of Treated Patients Achieved Lasting Response

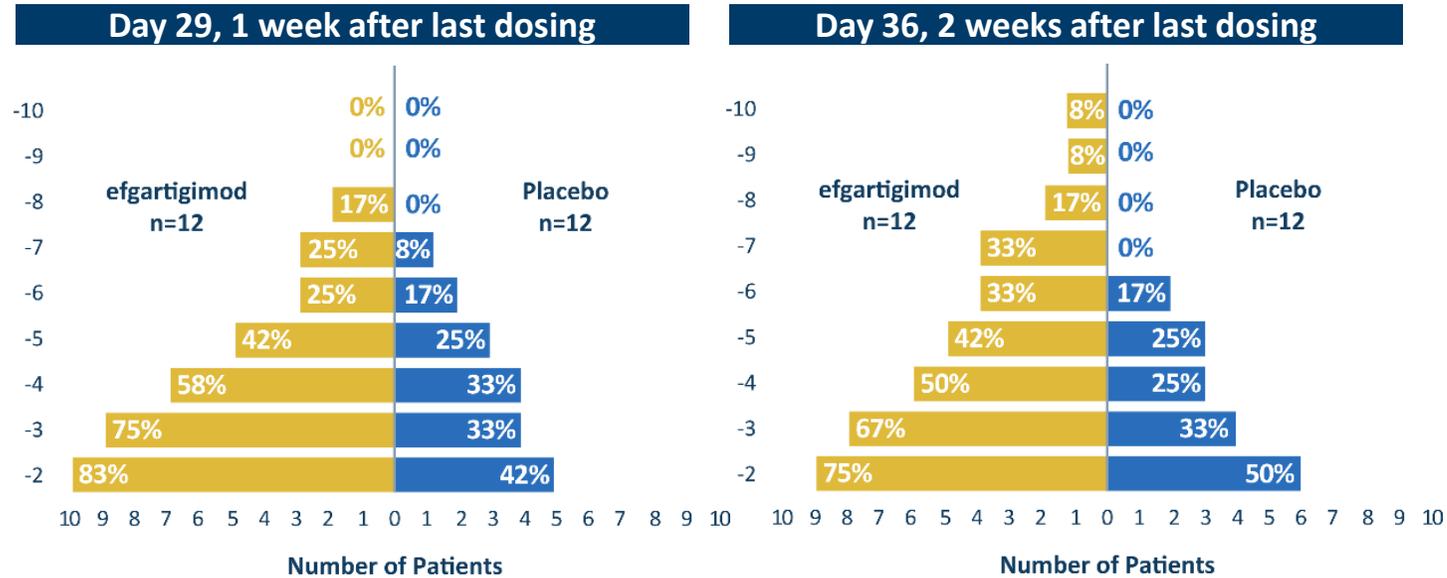
## Patients with MG-ADL $\geq 2$ for a period of at least 6 weeks



- 83% of patients treated with efgartigimod achieved a clinically meaningful response (MG-ADL  $\geq 2$ )
- 75% of patients treated with efgartigimod had a clinically meaningful and statistically significant improvement in MG-ADL score for a period of at least 6 consecutive weeks versus 25% of patients on placebo

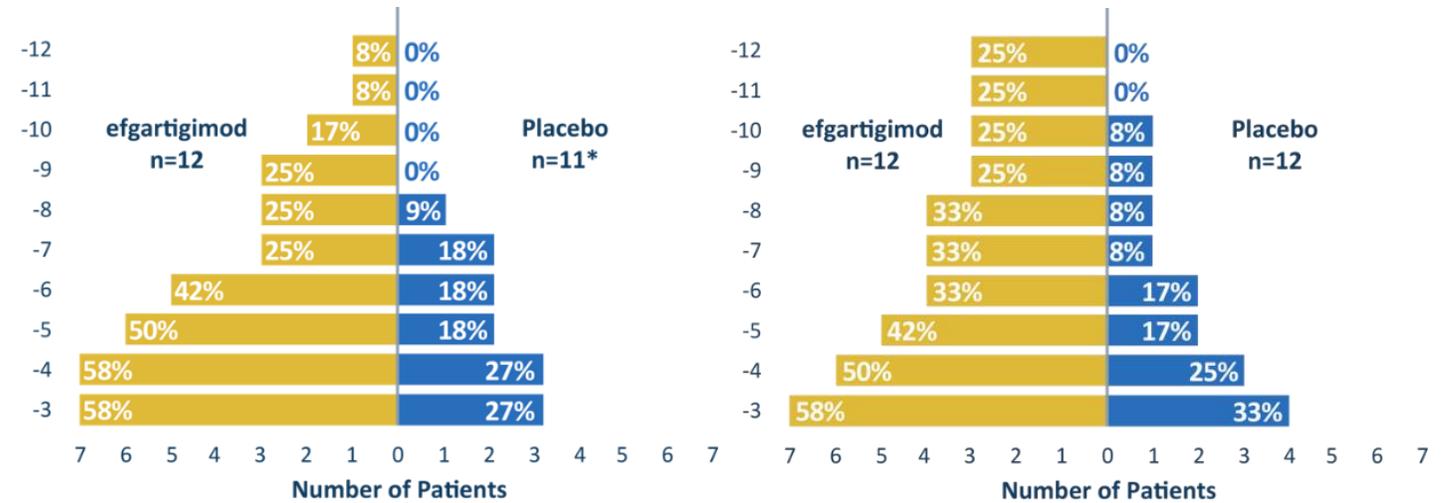
# Robust Clinical Improvement Over Placebo Group

MG-ADL change from baseline



Efgartigimod vs. placebo: increasing differentiation observed with increasing MG-ADL/QMG thresholds

QMG change from baseline

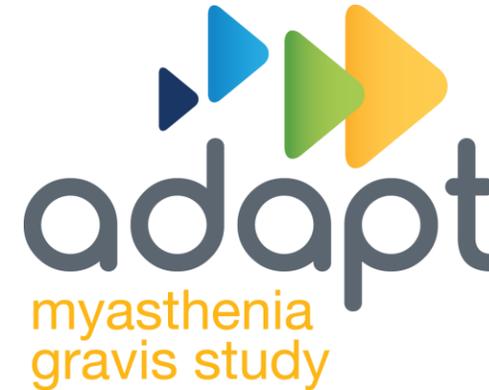


\* Missing data point of 1 patient

# Myasthenia Gravis Phase 3 ADAPT Trial Design

Same Primary Endpoint as Successful Phase 2 Trial

- ▶ Randomized, double-blind, placebo-controlled, multicenter trial enrolling 150 patients in North America, Europe and Japan
- ▶ 10 mg/kg intravenous (IV) dose of efgartigimod over 26-week period
- ▶ Enrolling AChR positive and AChR negative patients with disease driven primarily by MuSK and LRP4 autoantibodies
- ▶ Patients in the ADAPT trial will be able to roll over into an open-label extension trial for a period of one year
- ▶ First patient dosed in September 2018
- ▶ Based on PMDA feedback, this Phase 3 trial, if data is positive, to also serve as a basis for Japan registrational submission



## Primary endpoint

**Myasthenia Gravis Activities of Daily Living  
(MG-ADL) Score**

## Secondary endpoints

**Efficacy, Safety, Tolerability, Quality of Life and  
Impact on Normal Daily Activities Measures**

# ITP Phase 2 Results Establish Hematologic Beachhead

Novel approach beyond boosting platelet production or broad immuno-suppression



## Favorable and consistent safety and tolerability profile

- No trends seen for infections or headaches across all studies
- No decreases in IgM, IgE, IgA or albumin



## Robust efficacy signal in relapsed/refractory population after short drug exposure

- Clinically meaningful increase in platelet counts over placebo
- 50% of patients came on study with platelets  $<15 \times 10^9$



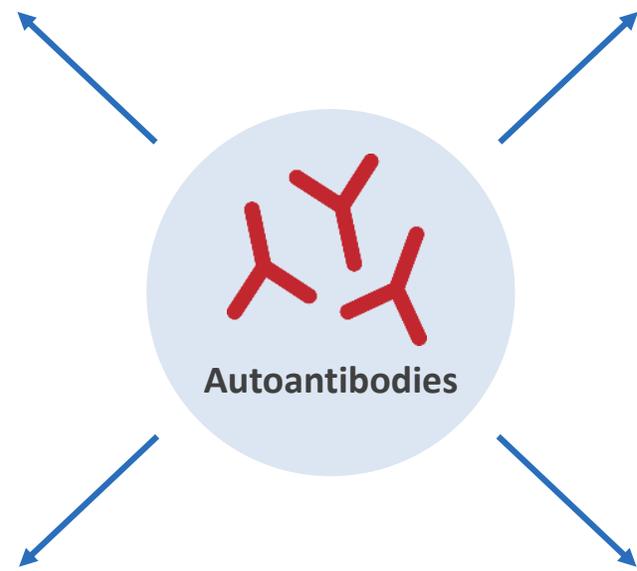
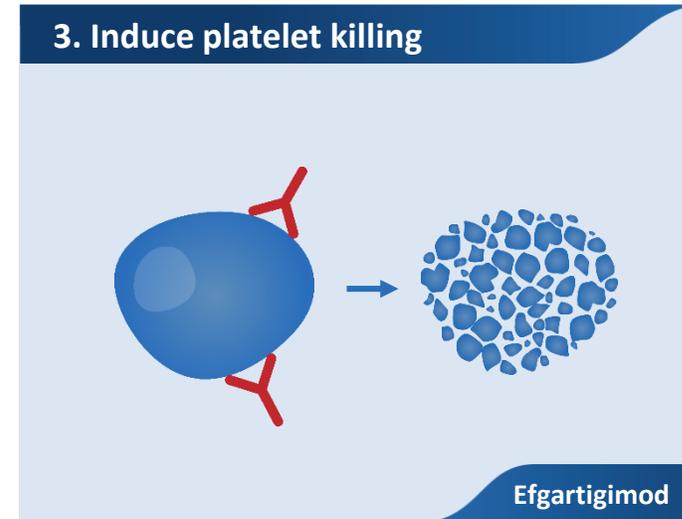
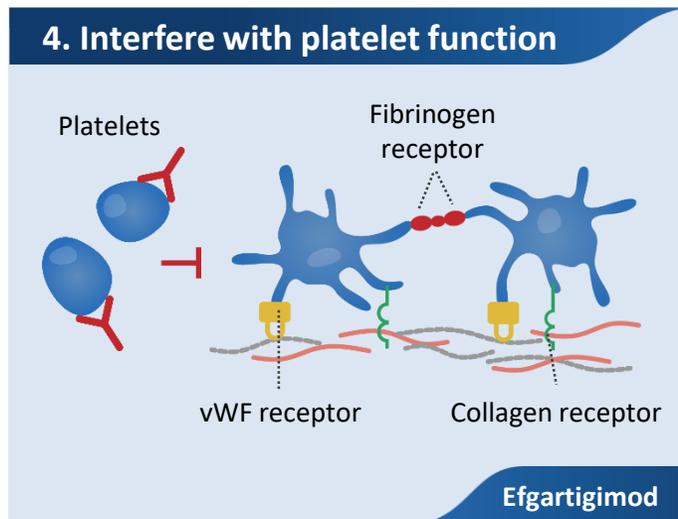
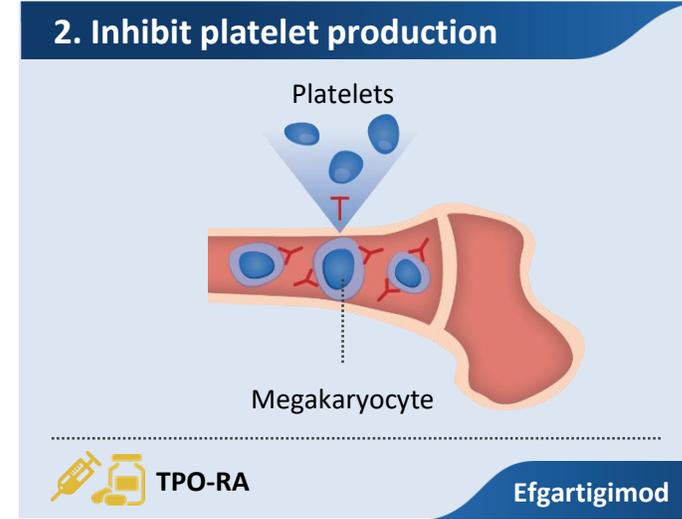
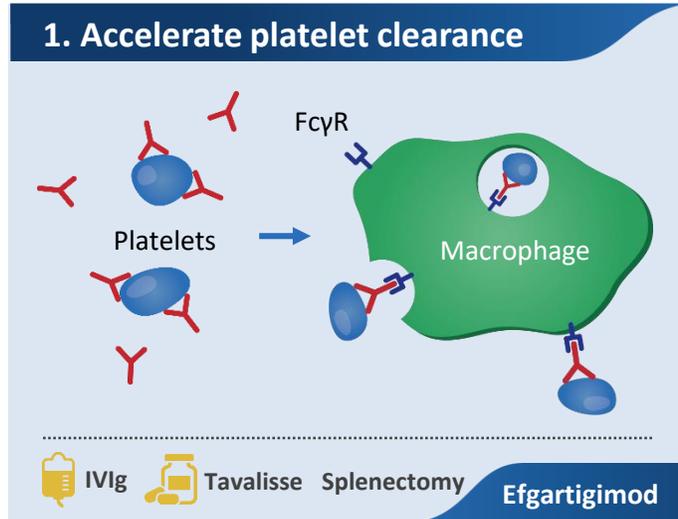
## Strong correlation between IgG reduction, platelet count improvement and reduction of bleeding events



## Data enable Phase 3 in ITP (IV) and launch of Phase 2 in ITP (SC)

# Efgartigimod Targets All Pathogenic AutoAb Actions Simultaneously

Potential to eliminate therapeutic cycling based on trial-and-error



# Favorable Tolerability Profile Consistent with Previous Studies

Treatment-emergent adverse events balanced between active and placebo arms

- Tolerability profile consistent with Phase 2 myasthenia gravis (MG) and Phase 1 healthy volunteer (HV) trials
- TEAEs mostly mild in severity (grade 1)
- No deaths or TEAEs leading to discontinuation of treatment reported\*

## Bleeding TEAEs not included

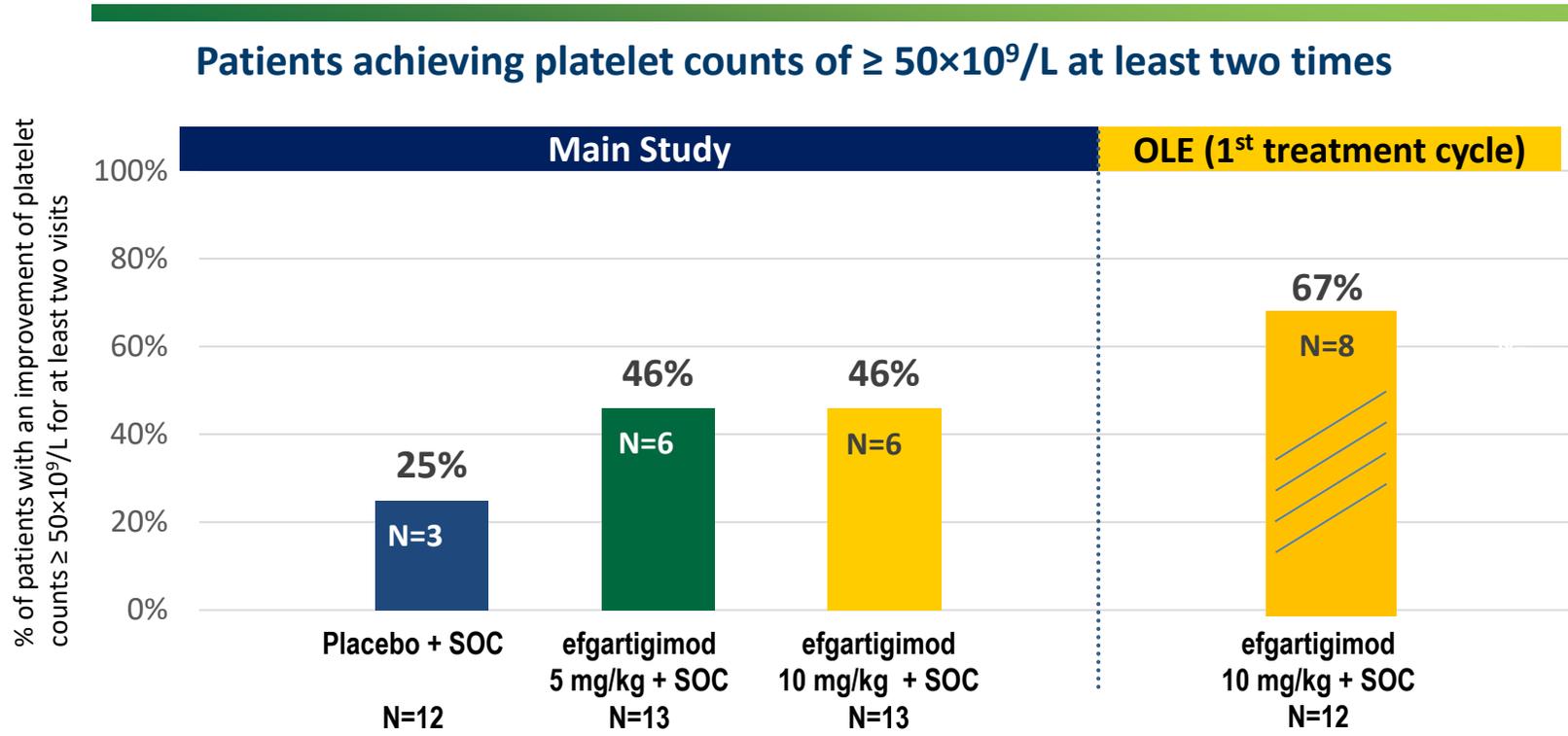
Treatment Emergent Adverse Events (TEAEs) Reported in ≥ 2 subjects	Placebo (N = 12)	Efgartigimod 5 mg/kg (N = 13)	Efgartigimod 10 mg/kg (N = 13)
<b>Most common TEAEs N (%)</b>			
• Headache	2 (16.7)	1 (7.7)	-
• Hypertension	1 (8.3)	-	2 (15.4)
• Vomiting	-	-	2 (15.4)
• Cystitis	-	1 (7.7)	1 (7.7)
• Rash	-	1 (7.7)	1 (7.7)
• Productive cough	1 (8.3)	1 (7.7)	-
<b>TEAEs <i>deemed related</i> to study intervention N (%)</b>			
• Headache	1 (8.3)	-	-
• Vomiting	-	-	1 (7.7)
• Pubic pain	1 (8.3)	-	-
• Vaginal discharge	1 (8.3)	-	-
• Amenorrhoea	1 (8.3)	-	-



\* One thrombocytopenia downgraded per protocol after database lock  
argenx data: Table 14.3.1.2a & 14.3.1.5a - Treatment-Emergent Adverse Events by System Organ Class, Preferred Term and Relationship to Study Drug - Main Study

# Strong Improvement of Platelet Counts Across Doses

46-67% of patients exceeded platelet counts  $\geq 50 \times 10^9/L$  during at least two visits

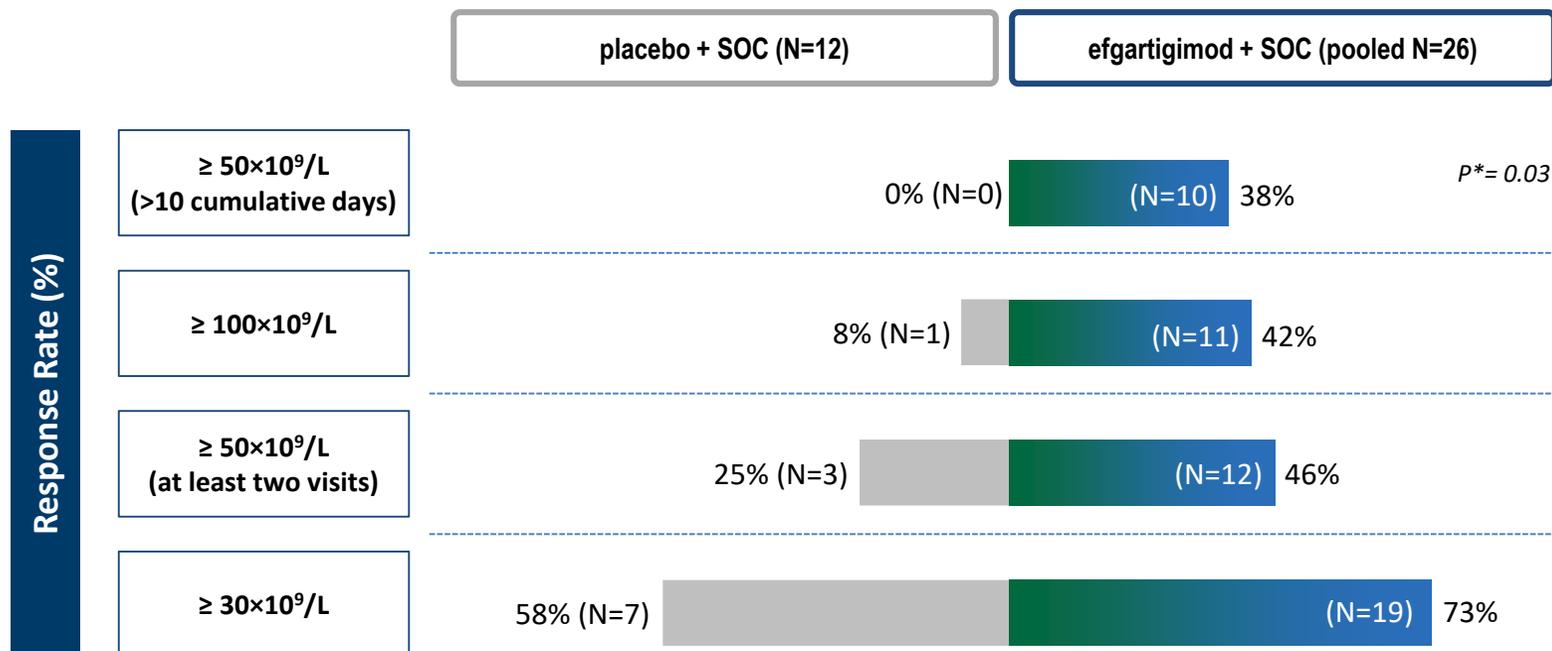


\*After cut-off date not QC-ed

- OLE acts as true fourth cohort since patients' platelets had to fall below  $30 \times 10^9/L$  to be eligible for a treatment cycle; patients still in response from primary study were not eligible
- Responses seen across newly diagnosed (in 5mg/kg arm), persistent and chronic ITP patients

# Robust Improvement of Platelet Count

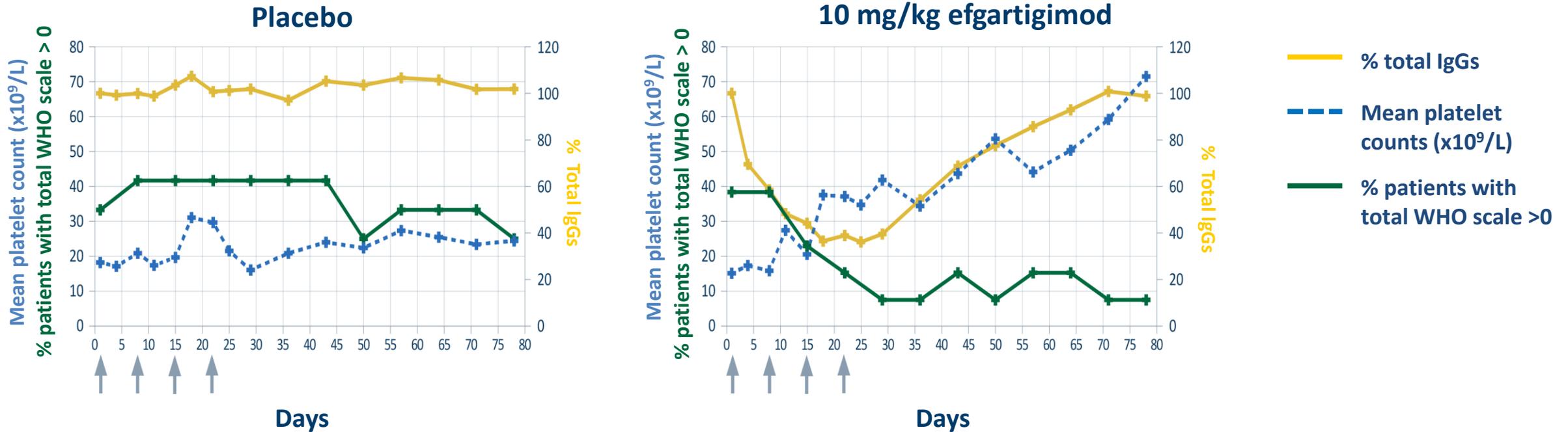
## Post-hoc analysis of increasing thresholds of efficacy



- Efgartigimod generated therapeutic effect at multiple relevant thresholds of efficacy
- Duration of platelets remaining  $\geq 50 \times 10^9/L$  ranged from 1 - 20 weeks with five patients above that platelet threshold for more than a month

# Reduction of Total IgGs Correlates with Increased Platelet Counts and Reduced Bleeding Events

## Mean platelet counts versus total WHO scale versus total IgGs





## Rapid disease control in 4 out of 6 PV patients:

- 3 within 1 week
- 1 within 4 weeks



## Patients with disease control:

- Mean max reduction in Pemphigus Disease Area Index (PDAI) score: 55%
- Mean max decrease in pathogenic IgGs: 57%



## Favorable tolerability profile



## No meaningful anti-drug antibody signals (ADA) reported

# Pemphigus Vulgaris Phase 2 Adaptive Design

Third cohort to start in 1H 2019

## Treatment Phase

### Induction

3 weeks

COHORT 1: N= 4

efgartigimod (10 mg/kg)

4 infusions (weekly)

### Maintenance

6 weeks → 8 weeks

efgartigimod (10 mg/kg)

2 infusions (w2, w6)

COHORT 2: N= 4 + 4

efgartigimod (10 mg/kg)

4 infusions (weekly)

efgartigimod (10 mg/kg)

4 infusions (w2, w4, w6, w8)

## Follow-up Phase

8 weeks

IDMC recommendation for Cohort 3 to reach clinical remission (with/without minimal therapy):

- Weekly infusions 25 mg/kg (induction phase) until disease control (DC) with minimum of 5
- Biweekly dosing after DC
- Start maintenance based on DC
- Treatment duration limited to 34 weeks (induction + maintenance)

# Efgartigimod: a Pipeline-in-a-Product Opportunity

## Landscape of IgG-mediated severe autoimmune diseases (sampling)

Immune  
Thrombocytopenia

Scleroderma

Lupus

Epidermolysis  
Bullosa Acquisita

Myasthenia Gravis

Rheumatoid Arthritis

Pemphigus

Multiple Sclerosis

Anca Vasculitis

Bullous Pemphigoid

### Solid Biology Rationale

Disease proven to be predominantly mediated by pathogenic IgGs

### Feasible for Biotech

Orphan potential, economically viable, efficient clinical & regulatory pathway

Proof-of  
Concept:

Myasthenia Gravis ✓

Immune  
Thrombocytopenia ✓

Pemphigus  
Vulgaris

Therapeutic Area  
Beachheads with  
Expansion Possibilities  
into Adjacent Indications

Neuromuscular Diseases

Hematology Disorders

Blistering Diseases

Chronic Inflammatory  
Demyelinating Polyneuropathy  
(CIDP)

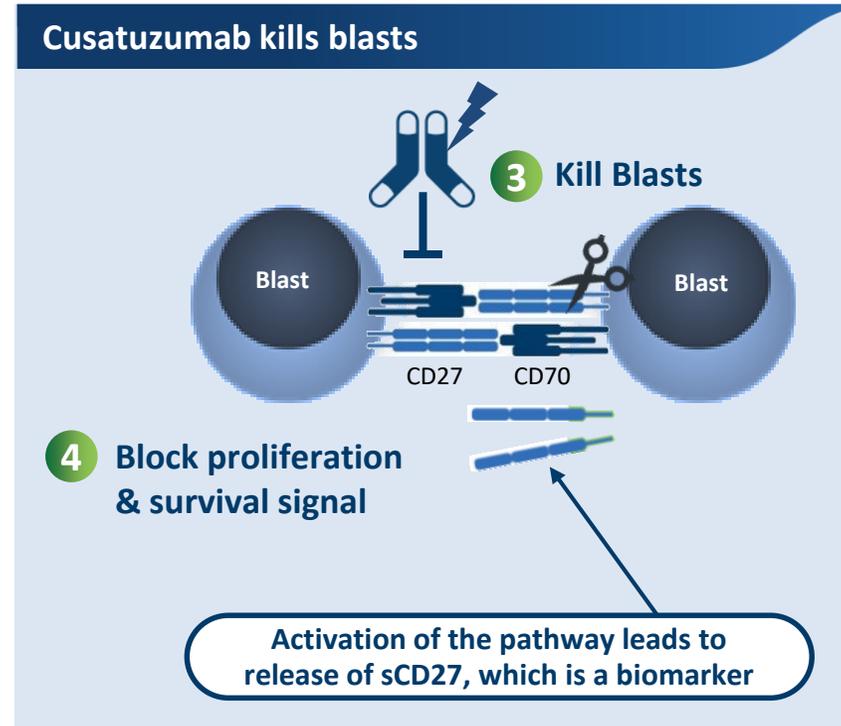
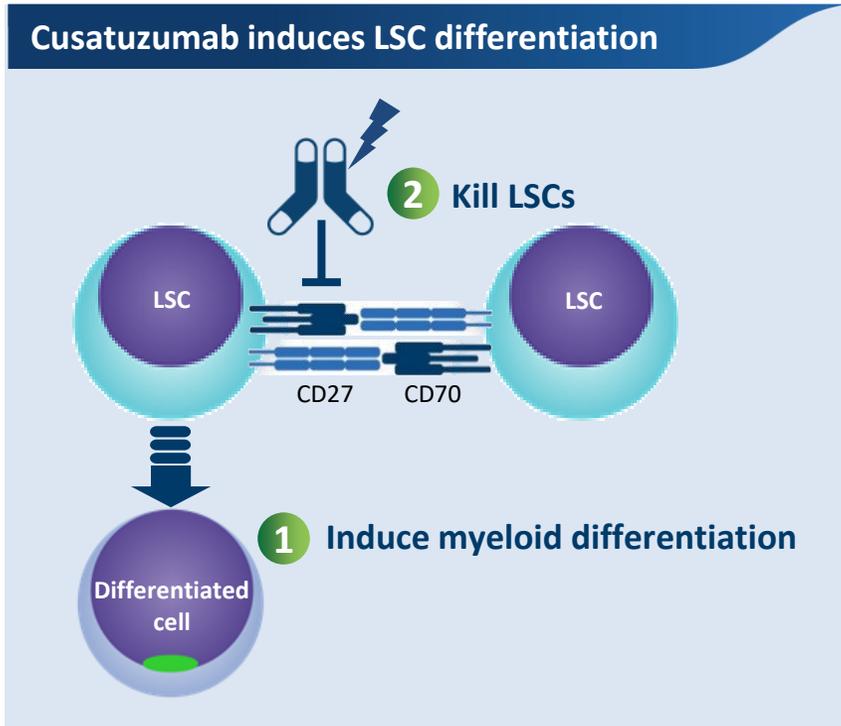
Phase 2 CIDP study to start in 2H 2019



**ARGX-110 (Cusatuzumab): Phase 1 / 2  
Mono & Combo Therapy**

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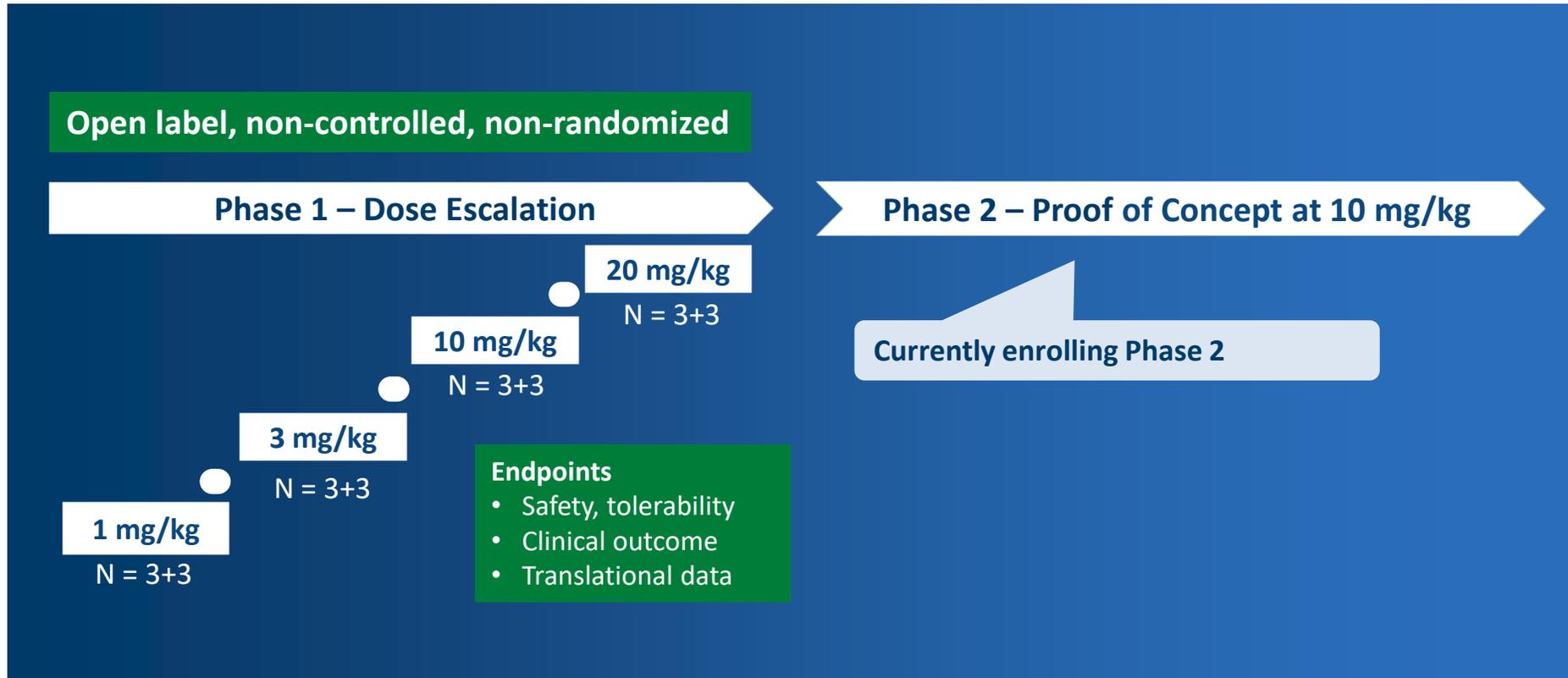
# Cusatuzumab Mode-of-Action Targets both Leukemic Stem Cells and Blasts



- Cusatuzumab is a potentially first-in-class anti-CD70 ADCC enhanced SIMPLE Antibody™ which selectively targets LSCs and blasts in AML and other heme indications

# Ongoing Phase 1/2 Combination Trial

Newly diagnosed AML patients unfit for intensive chemotherapy



- Efficacy seen across doses in Phase 1 dose escalation
- Up to 21 patients to enroll in initial Phase 2 study with potential to expand enrollment to 40
- 10 mg/kg selected for Phase 2 to saturate bone marrow and maintain clean tolerability profile

# Overall Conclusions: Phase 1 Dose Escalation



## Favorable tolerability profile

- No obvious toxicity on top of Vidaza toxicity
- No dose-limiting toxicity observed



## Encouraging proof-of-biology data in 12 patients (4 dose cohorts; 3 pts each)

- 92% response rate (11/12) mainly CR/CRi
- 3 patients responded after cusatuzumab monotherapy
- Significant blast reduction in bone marrow after cusatuzumab monotherapy
- MRD negativity in 42% (5/12) treated patients

## Supported by **translational dataset**

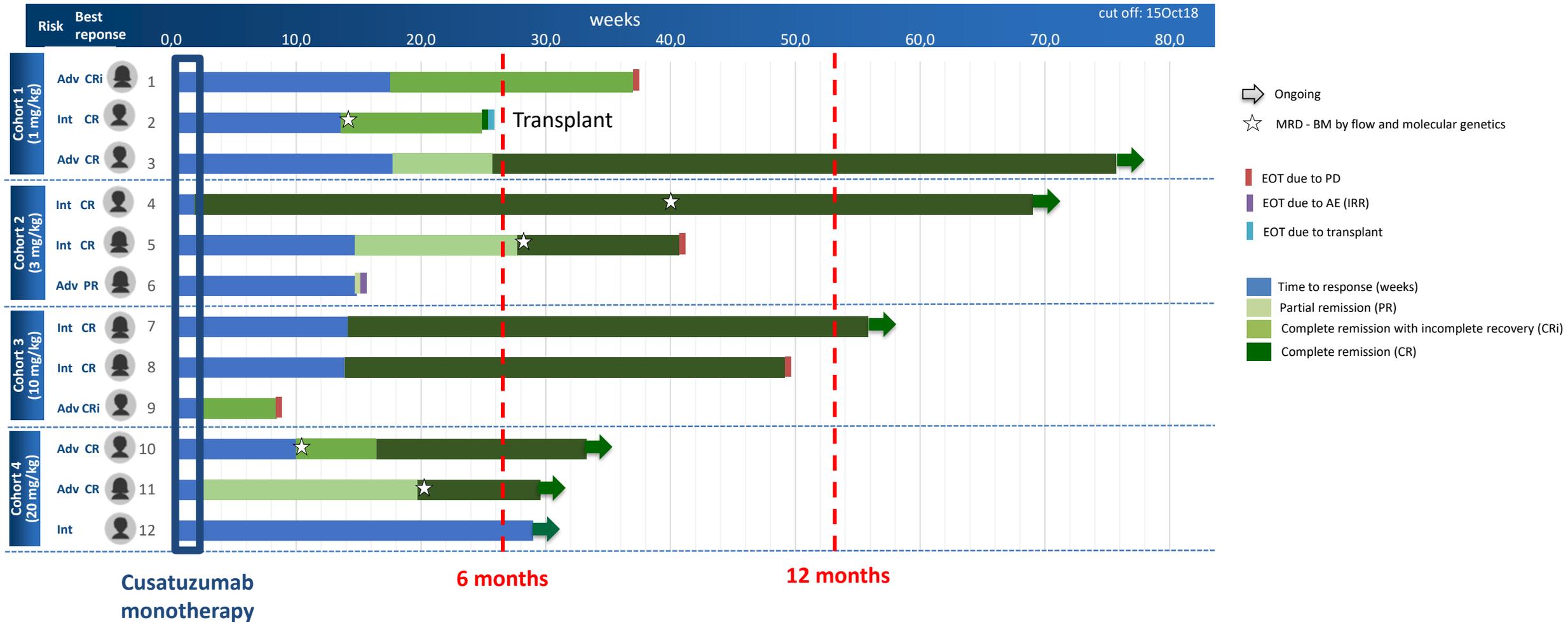
- Decreased sCD27 levels
- Reduced LSC colony formation
- Increased myeloid differentiation – asymmetric division



## Recommended Phase 2 dose: 10 mg/kg

# 92% (11/12) Response Rate – CR/CRi/PR

Three patients on study for more than 12 months



# Business Development & Financials

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## argenx objectives

## Janssen alliance

Accelerate & broaden development plan



Joint development plan focused on AML, MDS and other heme malignancies

Secure strong financials



Upfront \$ 300m + \$ 200m equity @ 20% premium, 1.3Bn in milestones, double digit royalties OUS

Retain commercial upside



50 % of US economics on a royalty basis, up to 50% commercial efforts

“We believe that cusatuzumab can become a foundational therapy for all lines of AML and high-risk MDS.” Brian Kenney, J&J spokesperson

# AbbVie Partnership for Novel Target GARP



## Strategic Antibody Collaboration Details

- **GARP** is a protein specifically present on the surface of activated regulatory T-cells (Tregs)
- **AbbVie** exercised option in August 2018 to:
  - Obtain exclusive, worldwide license to develop and commercialize ARGX-115
  - Fund further GARP-related research by argenx beyond ARGX-115
- **argenx** can study ARGX-115 in combo with its pipeline programs

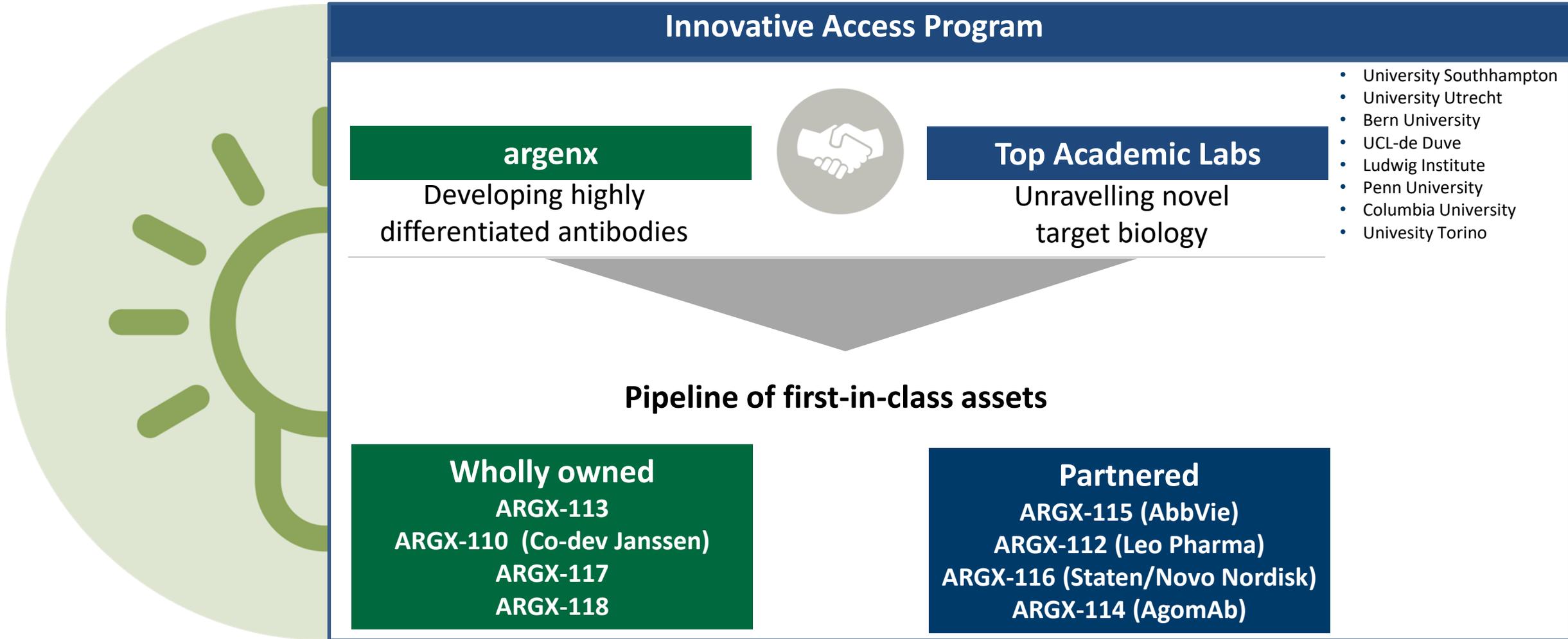
## Financial Highlights

- **\$90mm** received to date
- **\$625mm in potential** development, regulatory and commercial **milestones**
- **Tiered royalties** on sales at percentages ranging from **mid-single digits to low teens**
- **Co-promotional** rights for ARGX-115-based products in the **European Economic Area and Switzerland**

Initiation  
first-in-human  
clinical trial  
**\$30mm milestone**  
payment

# Innovative Access Program

Success formula with proven track record



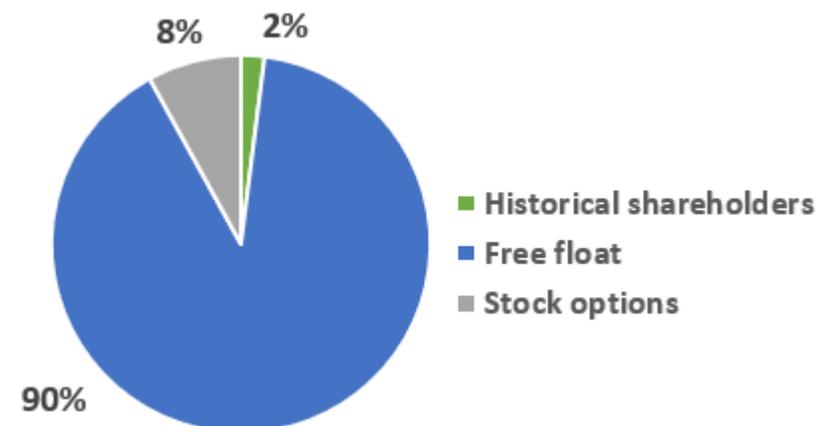
# Financial Profile and Investor Composition

Shareholder base > 70% U.S. investors

## Additional Key Statistics – Dec 31, 2018

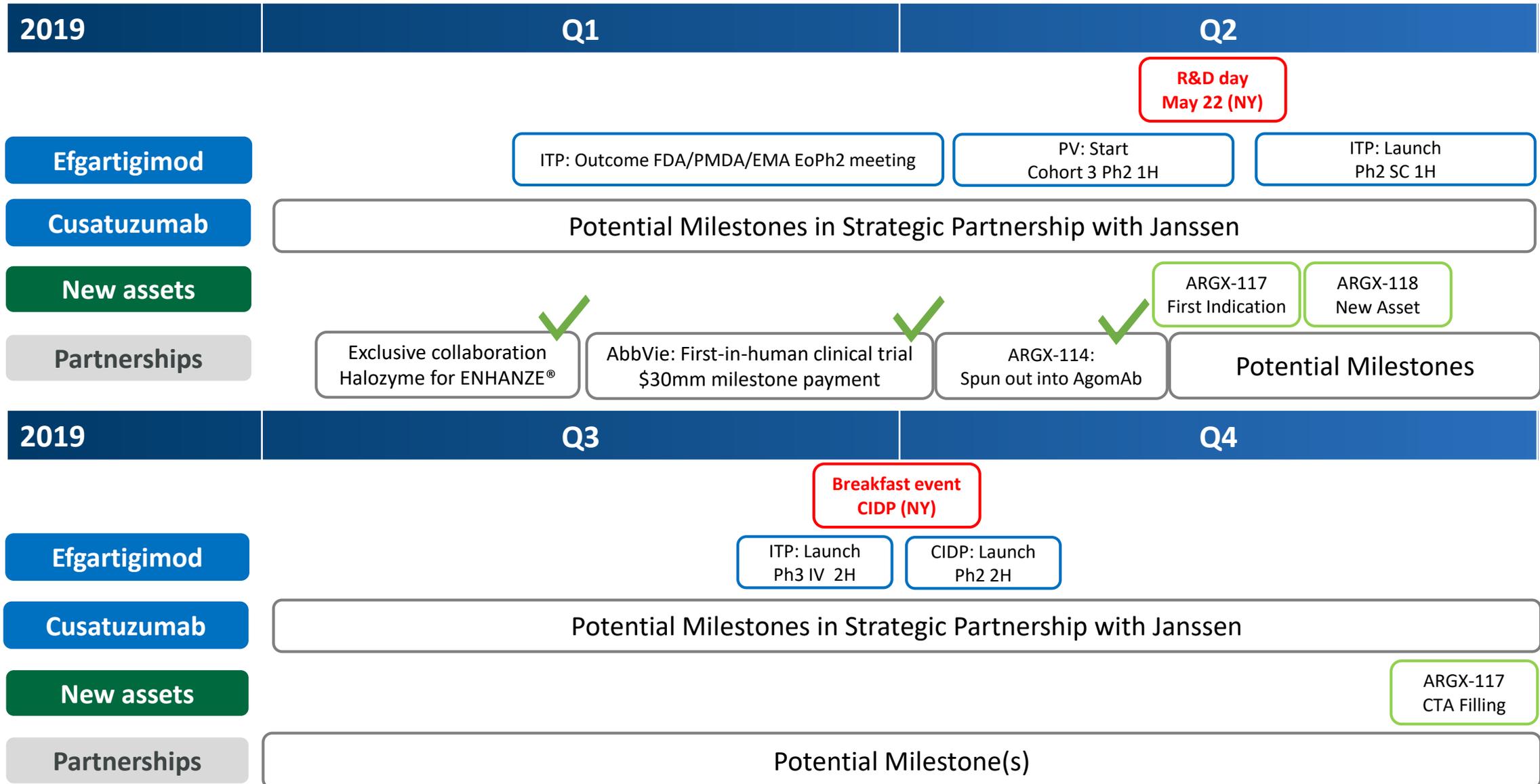
- **Cash position: €564.6 mm** (+ \$500 mm Janssen deal)
- **Capital raised since inception: €717 mm (ex. grants)**
  - 2017: raised \$115 mm (€102 mm) in Nasdaq IPO
  - 2017: raised \$266 mm (€226 mm) in public offering
  - 2018: raised \$300 mm (€256 mm) in public offering
- **Non-dilutive funding since inception: €137mm (incl. grants)**
  - 2018: \$10mm second preclinical milestone AbbVie
  - 2019: \$30mm first clinical milestone AbbVie
- **132 employees & consultants —97 R&D, 35 SG&A** 

## Blue-Chip Investor Base



- Outstanding shares (Feb 22, 2019): **37,907,551**
- Outstanding stock options (Feb 22, 2019): **3,371,311**
- U.S. shareholding: **above 70%**

# Key Upcoming Expected Milestones & Communications



Thank you!

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