

2019 R&D Day

argenx



May 22, 2019 - New York

Forward-Looking Statements

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expectations include: failure to demonstrate the safety, tolerability and efficacy of our product candidates; final and quality controlled verification of data and the related analyses; the expense and uncertainty of obtaining regulatory approval, including from the U.S. Food and Drug Administration and European Medicines Agency; the possibility of having to conduct additional clinical trials; our ability to obtain and maintain intellectual property protection for our product candidates; and our reliance on third parties such as our licensors and collaboration partners regarding our suite of technologies and product candidates. Further, even if regulatory approval is obtained, biopharmaceutical products are generally subject to stringent on-going governmental regulation, challenges in gaining market acceptance and competition. These statements are also subject to a number of material risks and uncertainties that are described in the Company’s filings with the U.S. Securities and Exchange Commission (“SEC”), including in argenx’s most recent annual report on Form 20-F filed with the SEC as well as subsequent filings and reports filed by argenx with the SEC. The reader should not place undue reliance on any forward-looking statements included in this presentation. These statements speak only as of the date made and the Company is under no obligation and disavows any obligation to update or revise such statements as a result of any event, circumstances or otherwise, unless required by applicable legislation.



Agenda

8:30 AM:	Introduction and Agenda <i>Beth DelGiacco, VP Investor Relations</i>
8:30 – 8:45 AM:	Creating Innovative Antibodies <i>Tim Van Hauwermeiren, CEO</i>
8:45 – 10:00 AM:	ARGX-117: Renaissance in Complement Targeting C2 & Therapeutic Potential <i>Eric Hack, M.D, Ph.D., Prof. Immunology at UCM Utrecht</i> <i>Karen Silence, Project leader</i> KOL Panel <i>Ludo van der Pol, M.D., Ph.D., Associate Prof. of Neurology at UMC Utrecht</i> <i>Rafael Villicana, M.D., Associate Prof. of Medicine at Loma Linda University Medical Center</i>
10:00 – 10:20 AM:	Q&A & coffee break
10:20 – 11:05 AM:	ARGX-118: Immunology Breakthrough for Charcot-Leyden Crystal Crystallopathies <i>Bart Lambrecht, M.D., Ph.D., Prof. Pulmonary Medicine at VIB, Ghent University</i>
11:05– 11:15 AM:	Cusatuzumab Development Plan <i>Wim Parys, CMO</i>
11:15 – 11:30 AM:	argenx 2021: Global Commercial Vision <i>Keith Woods, COO</i>
11:30 – 11:55 AM:	Q&A - Lunch

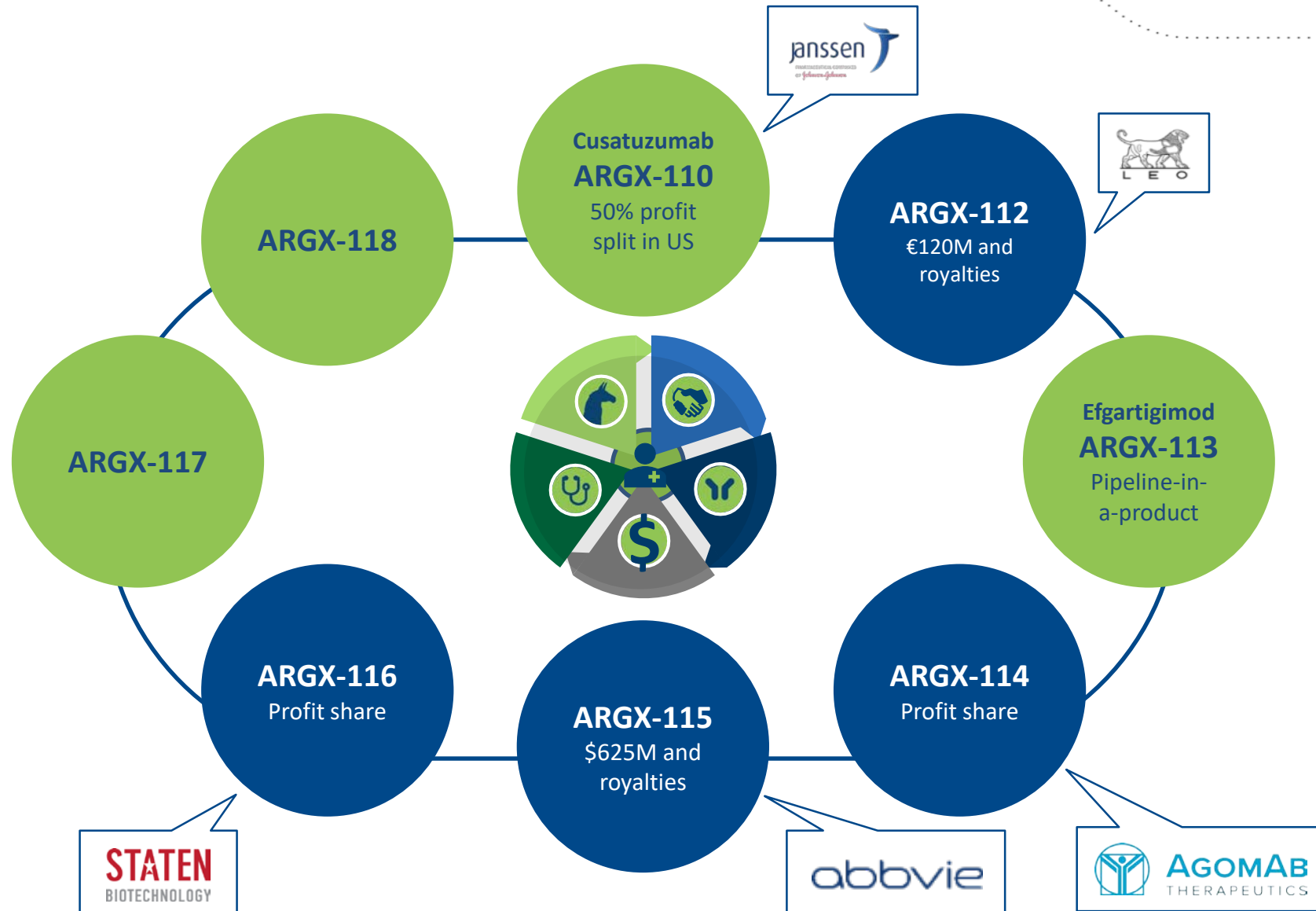
A woman with long blonde hair, wearing a white lab coat, is seated at a laboratory bench. She is focused on her work, using a pipette to transfer liquid into a small vial. The background shows a typical laboratory environment with various equipment and supplies. The image has a blue tint.

Creating Innovative Antibodies

Tim Van Hauwermeiren | Chief Executive Officer

	Late-stage immunology company	Two Phase 3 trials by end of 2019
	Wholly-owned pipeline-in-a-product asset	Potential across multiple high-value indications
	Proof-of-concept in two indications	Success in beachhead indications de-risks concept
	Validating oncology collaborations	Maintaining 50% commercial rights with cusatuzumab
	Proven engine to grow pipeline	Innovative Access Program in action

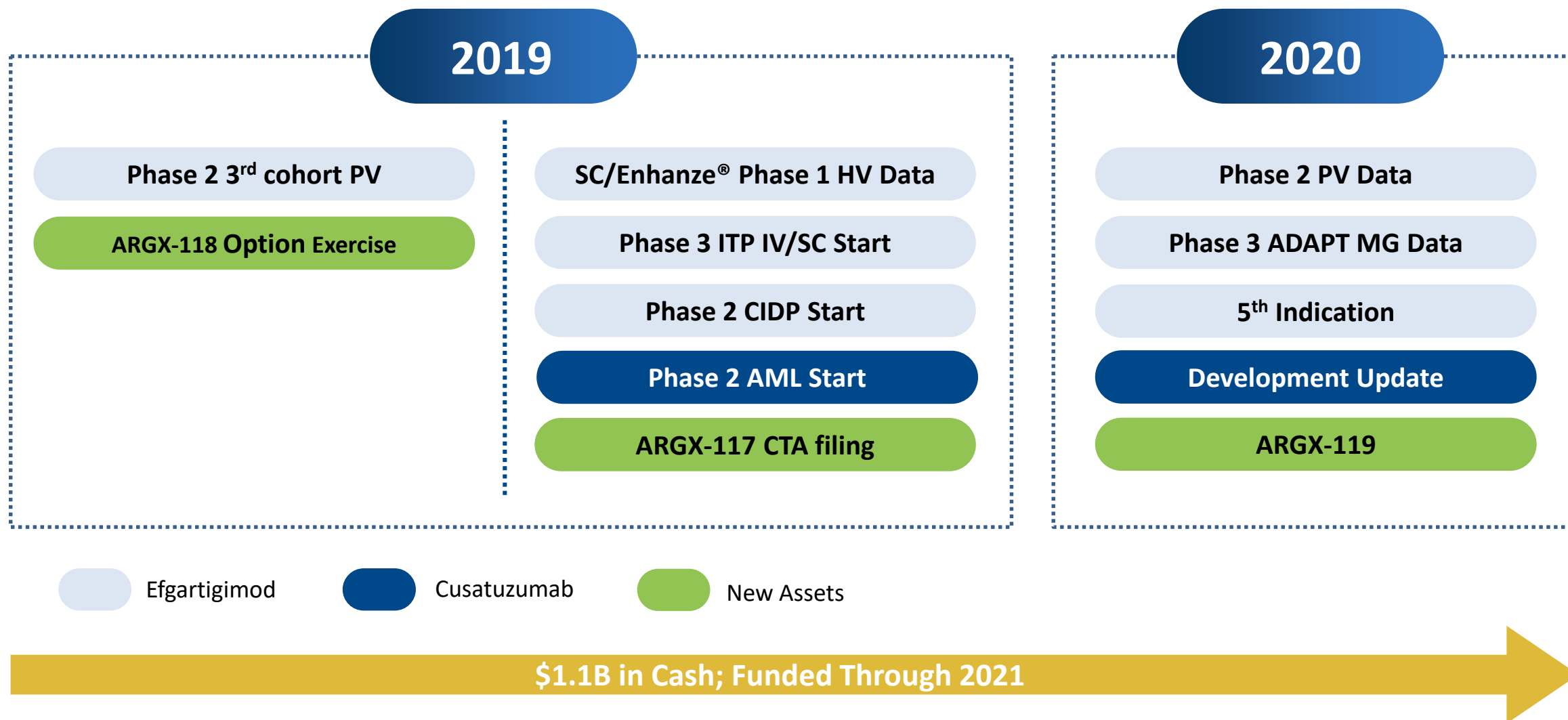
Serial Value Creation From Novel Targets



Deep Pipeline of Wholly-Owned Candidates for Orphan Indications

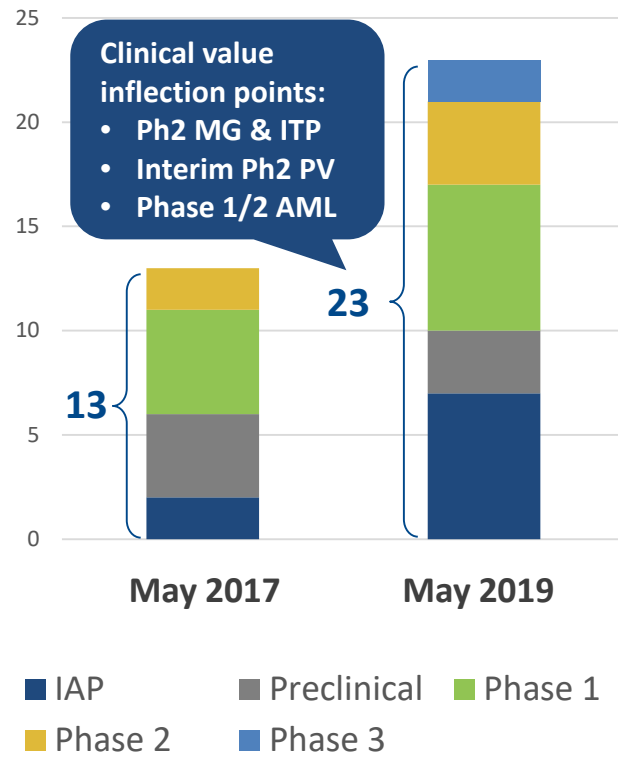
Product Candidate	Target	Indication	Preclinical	Phase 1	Phase 2	Phase 3	BLA	Next Milestone / Commentary
ARGX-113 Efgartigimod	FcRn	Myasthenia Gravis (MG)						3Q18: Phase 3 initiated
		Immune Thrombocytopenia (ITP)						2H19: Phase 3 Program initiation (IV/SC)
		Pemphigus Vulgaris (PV)						1H19: Cohort 3 initiation
		Chronic Inflammatory Demyelinating Polyneuropathy (CIDP)						2H19: Phase 2 initiation
		ENHANZE®SC						3Q19: Phase 1 initiation
ARGX-110 Cusatumab	CD70	Acute Myeloid Leukemia (AML)						\$500 million upfront Eligible for up to \$1.3 billion in milestones; tiered royalties
ARGX-117	C2	Severe Autoimmune IV/ENHANZE®SC						Complementary to ARGX-113 Option exercised for C2
ARGX-118	Galectin-10	Airway Inflammation						

Momentum Into Multiple Milestones

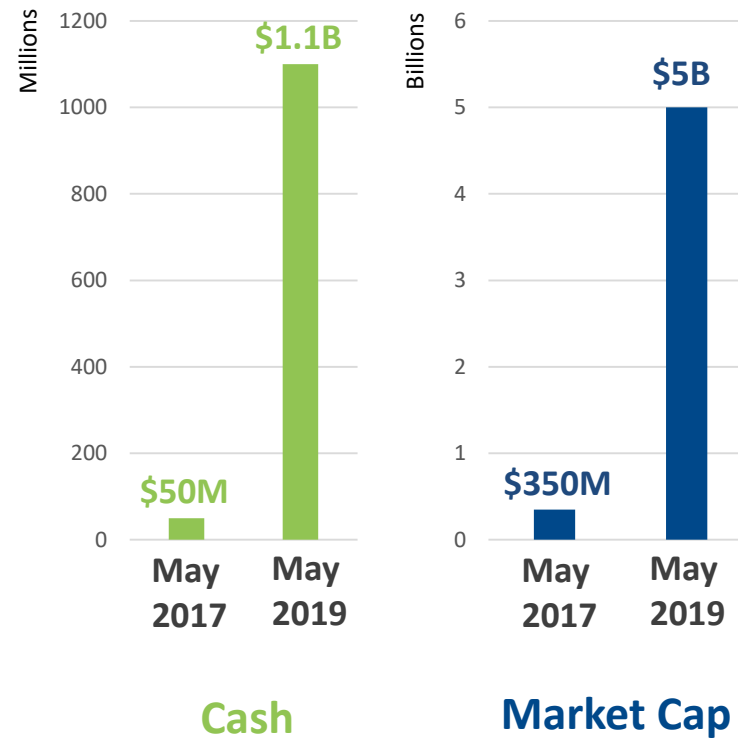


Accelerated Expansion of Product Pipeline Drives Financial Strength

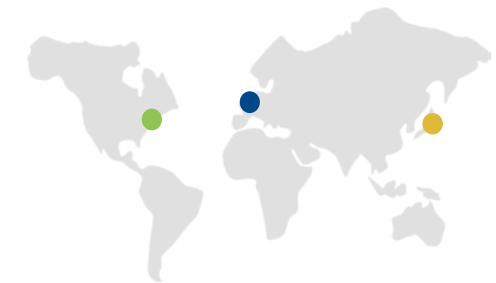
Accelerating & expanding development programs



Well-capitalized to advance to the next level



Global Expansion



● Ghent

Since 2019
● Boston

● Tokyo

Innovative Access Program (IAP): How We Build Value

Antibody discovery & development expertise – Translating basic science into meaningful clinical candidates



Accessing Novel Targets Through Collaboration

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Antibody expertise

- SIMPLE Antibody™, NHANCE®, ABDEG™, POTELLIGENT®



Top Academic Institutions

Disease Biology expertise

- Universities of Texas, Bern, Utrecht, Louvain, Penn, Columbia, Torino
- Institutes of Ludwig, de Duve, VIB, TAM

Co-creating first-in-class assets

**5-10 live programs
at any given time**

WHOLLY OWNED

ARGX-113 ARGX-117
ARGX-110 (Co-developed Janssen) ARGX-118

PARTNERED

ARGX-115  ARGX-116 
ARGX-112  ARGX-114 

1

Novel Target Biology

- Academic collaboration
- First-in-class targets

2

Integrated Antibody Discovery Suite

- Meaningful differentiation
- Engineering excellence

3

Rapid Pipeline Expansion

- Productive development engine
- One new pipeline asset per year

5

Franchise Structure

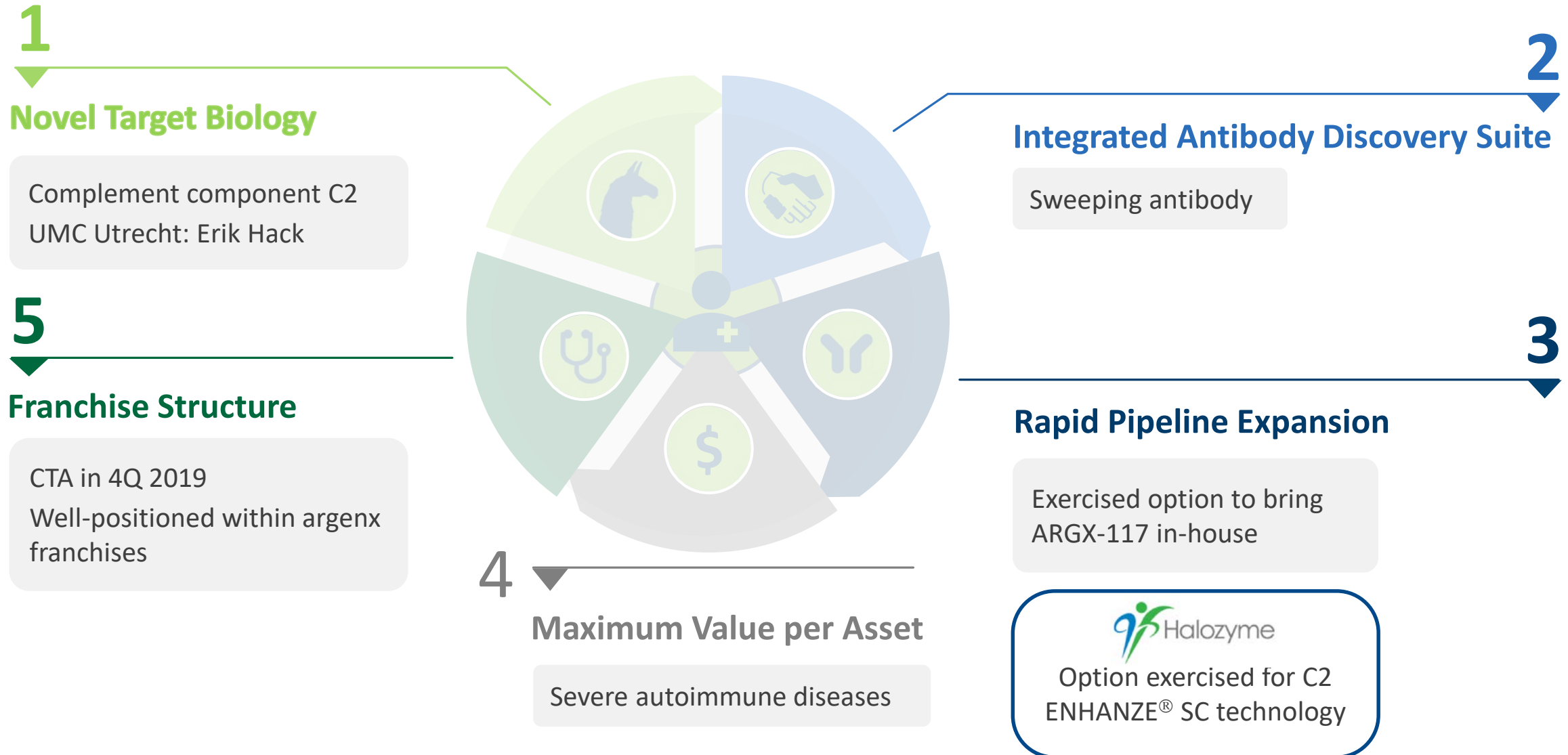
- Neuromuscular and hematology
- Phase 3 studies ongoing in 2019

4

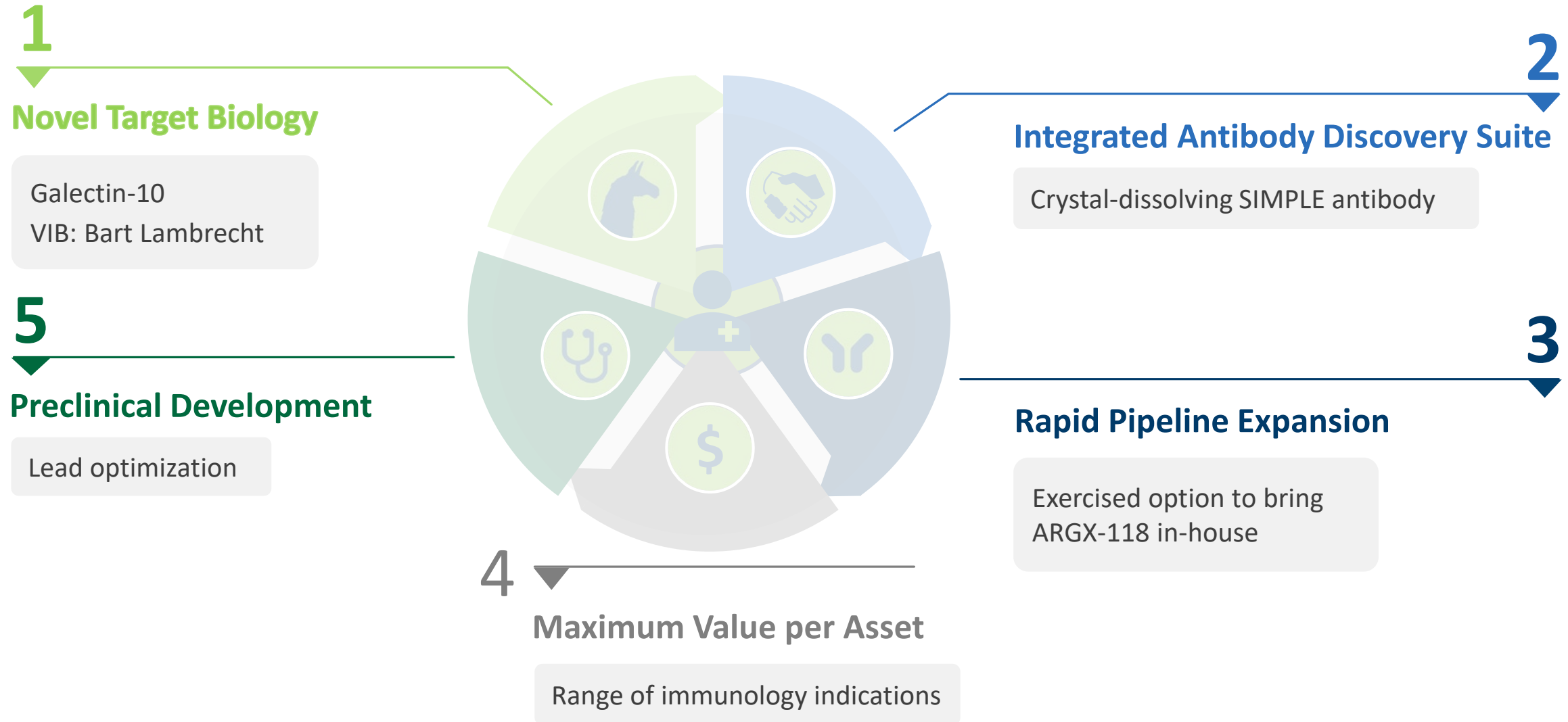
Maximum Value per Asset

- Pipeline-in-a-product strategy
- Driven by biological rationale





ARGX-118: Building From Target Validation



Early Target Validation

Power of SIMPLE Antibody™ technology

→ *Charcot-Leyden Crystal dissolving antibodies*

Unravelling novel airway inflammation biology

→ *GAL-10 first novel airway inflammation target in decades*

ARGX-118

Jumpstart Product Development

Power of NHance™ technology and engineering know-how

→ *Turning unique mouse V-regions into highly differentiated product candidate*

Leveraging unique insights in complement disease biology

→ *Pipeline-in-product opportunity*

ARGX-117





ARGX-117: Renaissance in Complement Targeting C2 & Therapeutic Potential

Erik Hack | Prof. UMC Utrecht
Karen Silence | Project Leader argenx



- Professor of Immunology at UMC Utrecht
- Sanquin, Head of Immunopathology
- Crucell, Head of the Protein Biologics Group
- Research interests: role of inflammation and coagulation in experimental and human diseases
- Lead development of Cinryze and Ruconest (C1-inhibitor in angioedema)
- Co-authored over 500 peer-reviewed papers; more than 23,000 citations



Growing number of immune-mediated and inflammatory diseases that involve complement

'07

Eculizumab approval in 2007 validated concept of therapeutic complement intervention

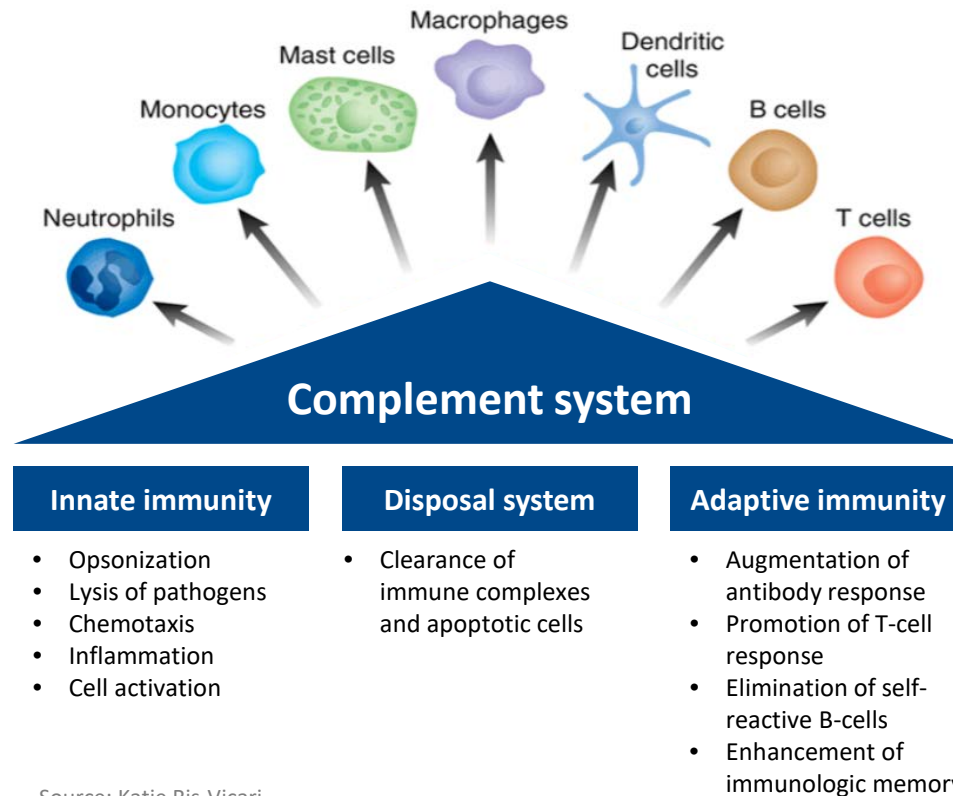
20+

20+ clinical-stage drug candidates targeting various stages of complement cascade



No “one-size-fits all” – different complement driven diseases require different points of intervention

Defense & Surveillance



Source: Katie Ris-Vicari

Clinical Complications

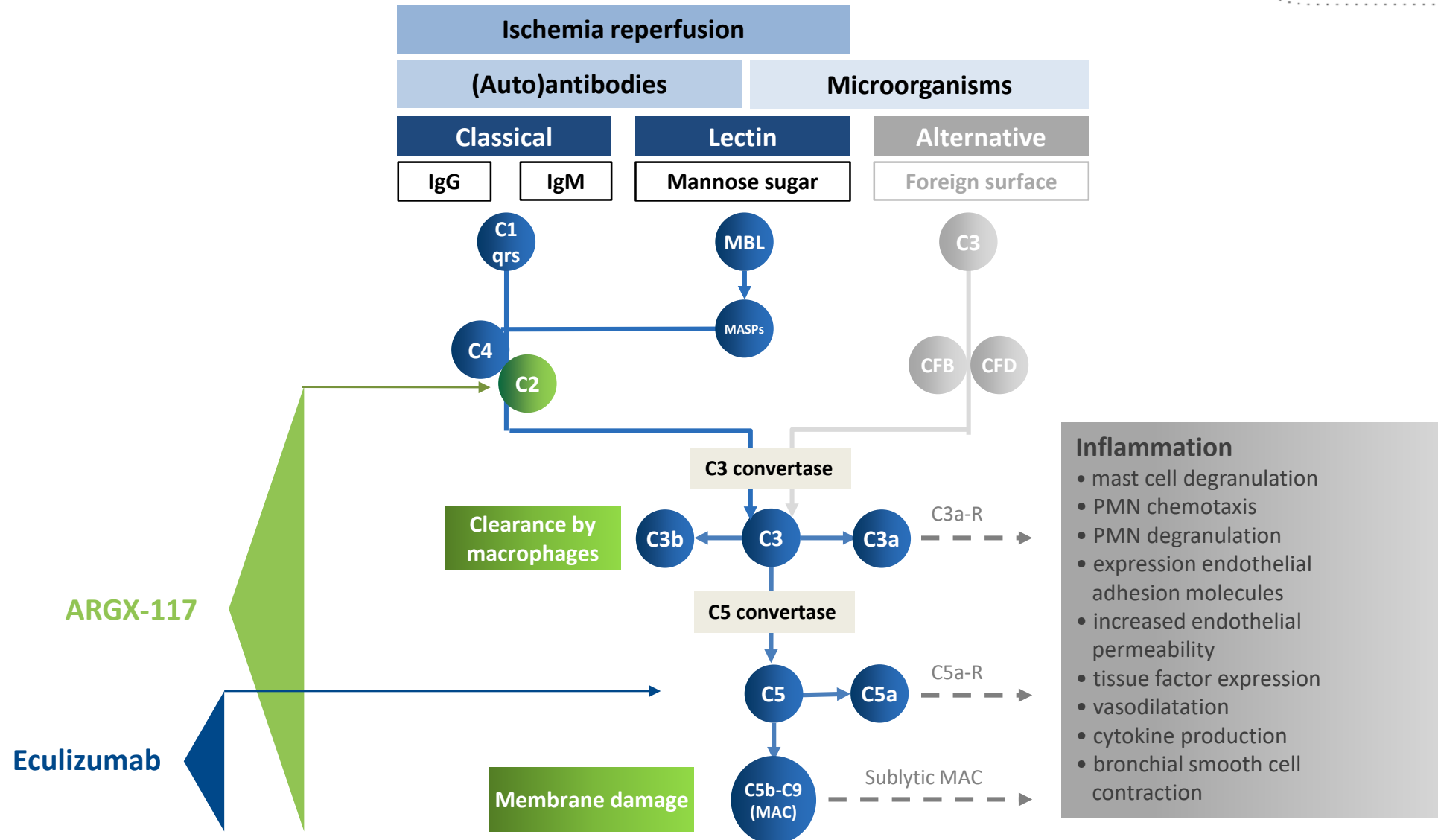
1 Excessive activation

↓
inflammation

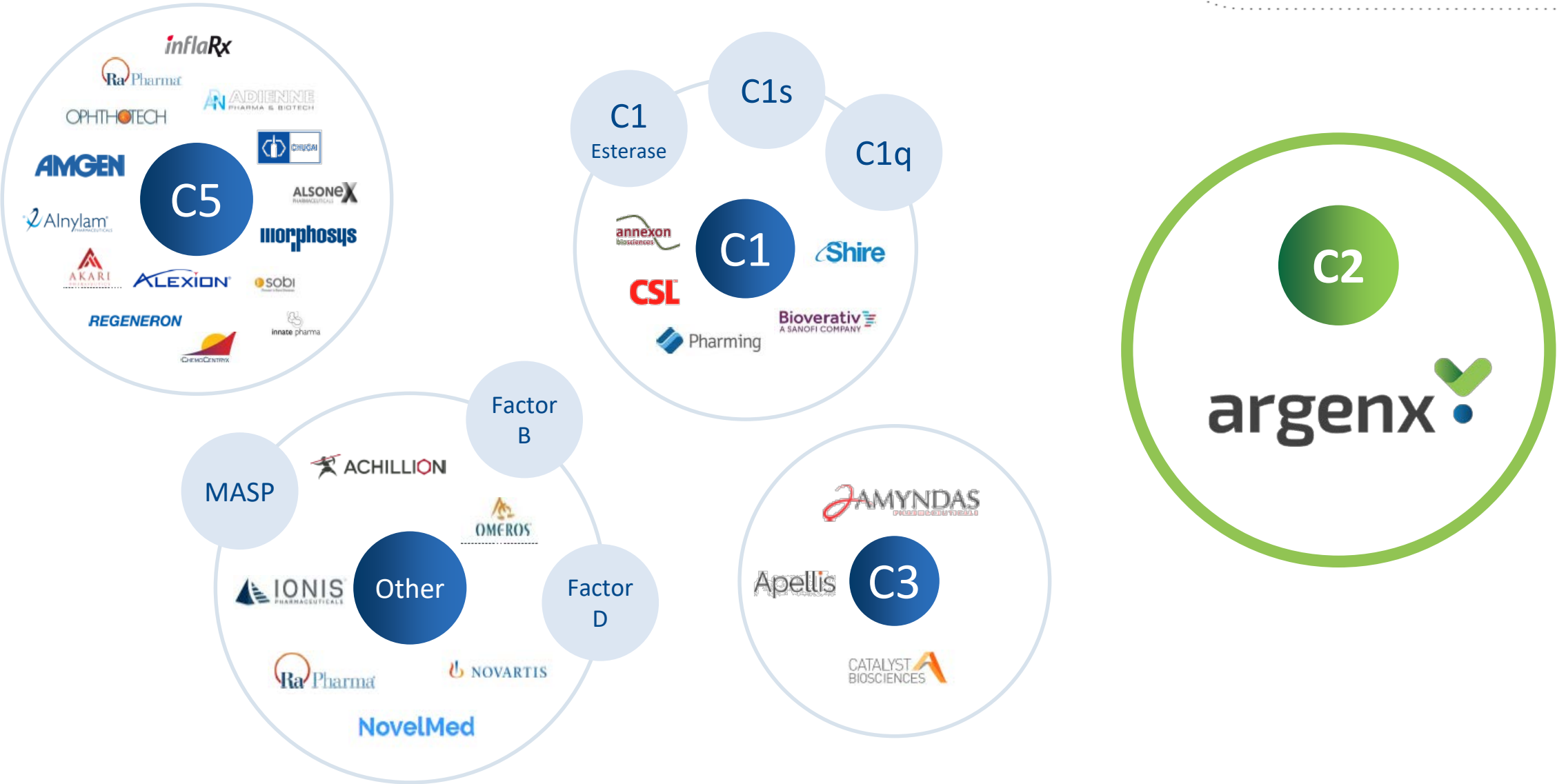
2 Too little activation

↓
risk for infections
and for lupus

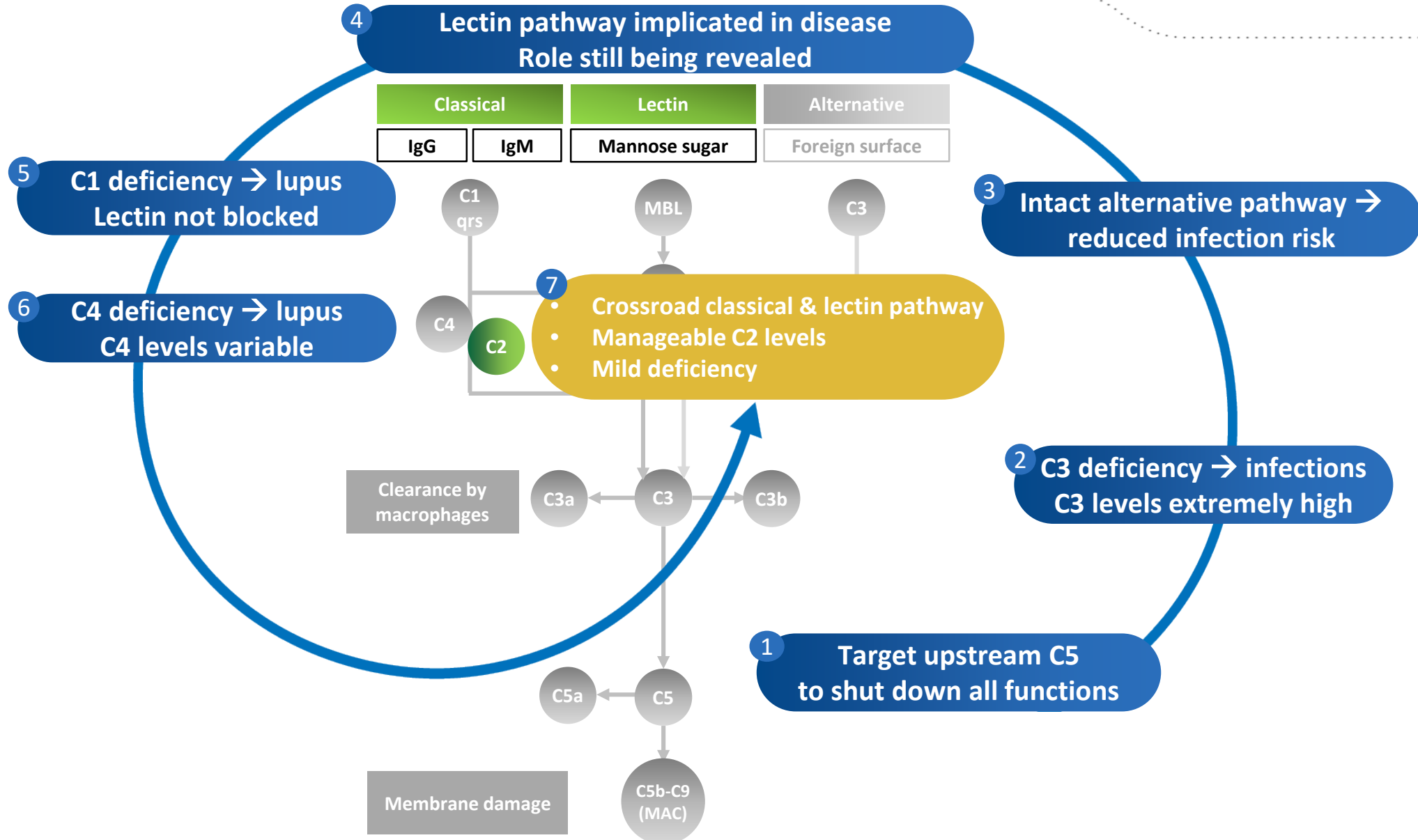
ARGX-117 Targets C2 Shutting Down Effector Functions Upstream of C5



Uniquely Positioned In Complement Space



ARGX-117 Targets C2 Preserving Key Complement Functionality



C2 deficiency observed in healthy people

Journal of Clinical Investigation
Vol. 45, No. 6, 1966

Hereditary Deficiency of the Second Component of Complement (C'2) in Man*

MARTIN R. KLEMPERER,[†] HAROLD C. WOODWORTH, FRED S. ROSEN,[‡] AND
K. FRANK AUSTEN [§]

(From the Department of Medicine, Children's Hospital Medical Center, Boston, Mass.; the Communicable Disease Center of the U. S. Public Health Service, Atlanta, Ga.; the Department of Medicine, Massachusetts General Hospital; and the Departments of Pediatrics and Medicine, Harvard Medical School, Boston, Mass.)

C2 deficiency has mildest phenotype among classical pathway deficiencies:

- No symptoms in 50% of cases
- Recurrent infections, particularly in childhood
- SLE/SLE-like condition in 10-30%

**Prevalence of homozygous C2-deficiency:
1 in 10-20,000 persons (Caucasians)**

Longstanding acquired C2 deficiency in hereditary angioedema (HAE) not associated with increased infection risk

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Antibody expertise



Broteio Pharma | UMC Utrecht

Disease Biology expertise



Antibody optimization:
longer half-life and
sweeping



Focus on the science:
good science leads to
good development



Open communication;
fair economics;
aligned goals

Next-generation complement therapeutics require **careful target selection**, patient population selection, **improved PK properties** (high plasma levels and rapid turnover of complement proteins) and **safety considerations**



- **Ph.D. at Centre for Molecular and Vascular Biology, University of Leuven, Belgium (Désiré Collen, M.D., Ph.D.)**
 - Preclinical development of Staphylokinase – fibrinolytic drug
- **Post doc at VIB (Belgium)**
 - Establishment of Ablynx NV
- **First employee at Ablynx (now Sanofi)**
 - Project leader caplacizumab - approved for acquired thrombotic thrombocytopenia purpura (aTTP)
 - Director pharmacology
- **One of the first employees at argenx**
 - Project leader cusatuzumab – partnered with Janssen Cilag
 - Project leader for ARGX-117

ARGX-117

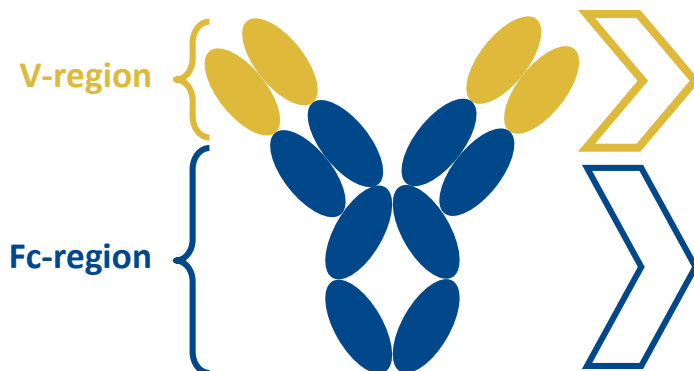
argenx

Antibody expertise



Broteio Pharma | UMC Utrecht

Disease Biology expertise



BRO-2 antibody was optimized for better sweeping potency *in vivo*

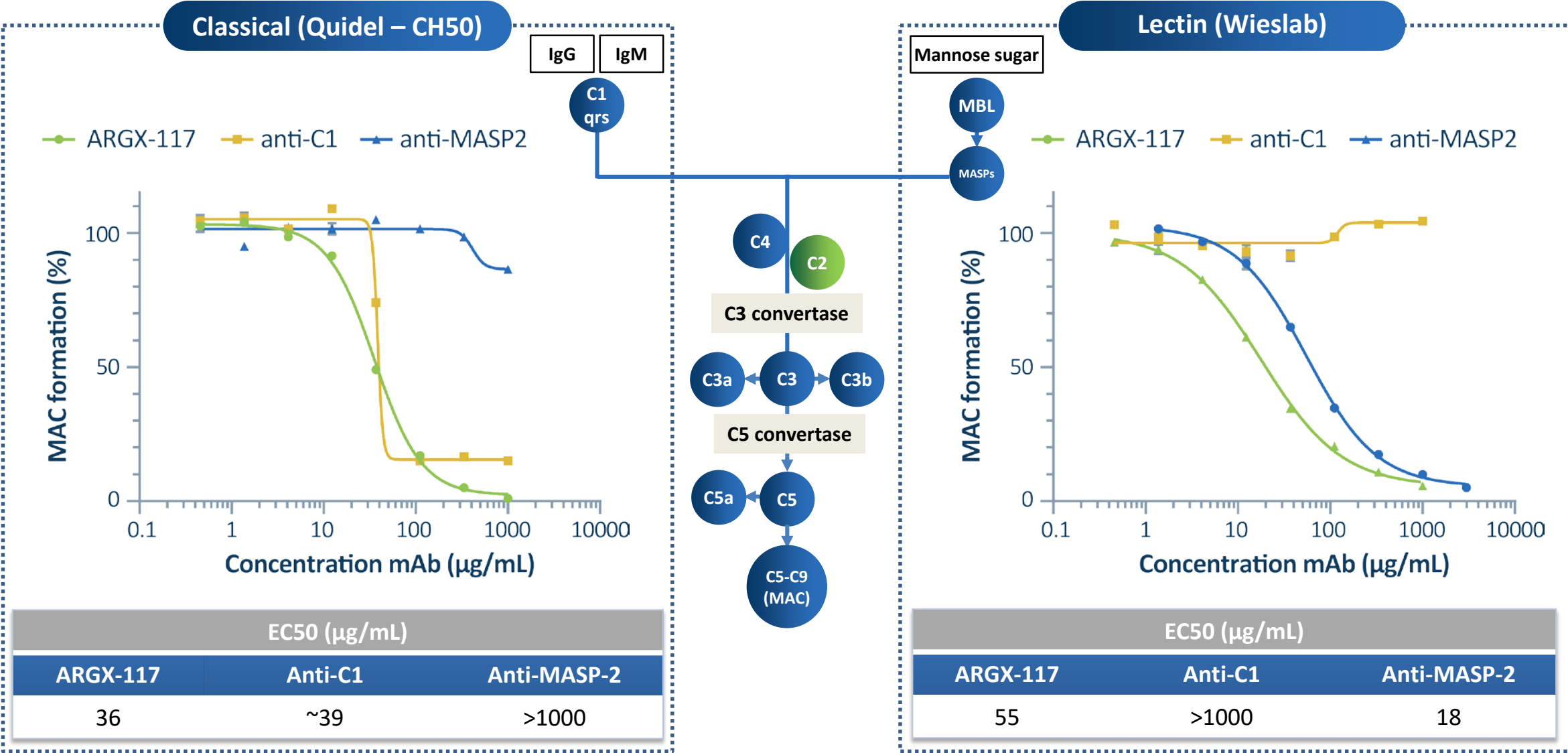


Generate strong translational data in disease through existing network in UMC Utrecht

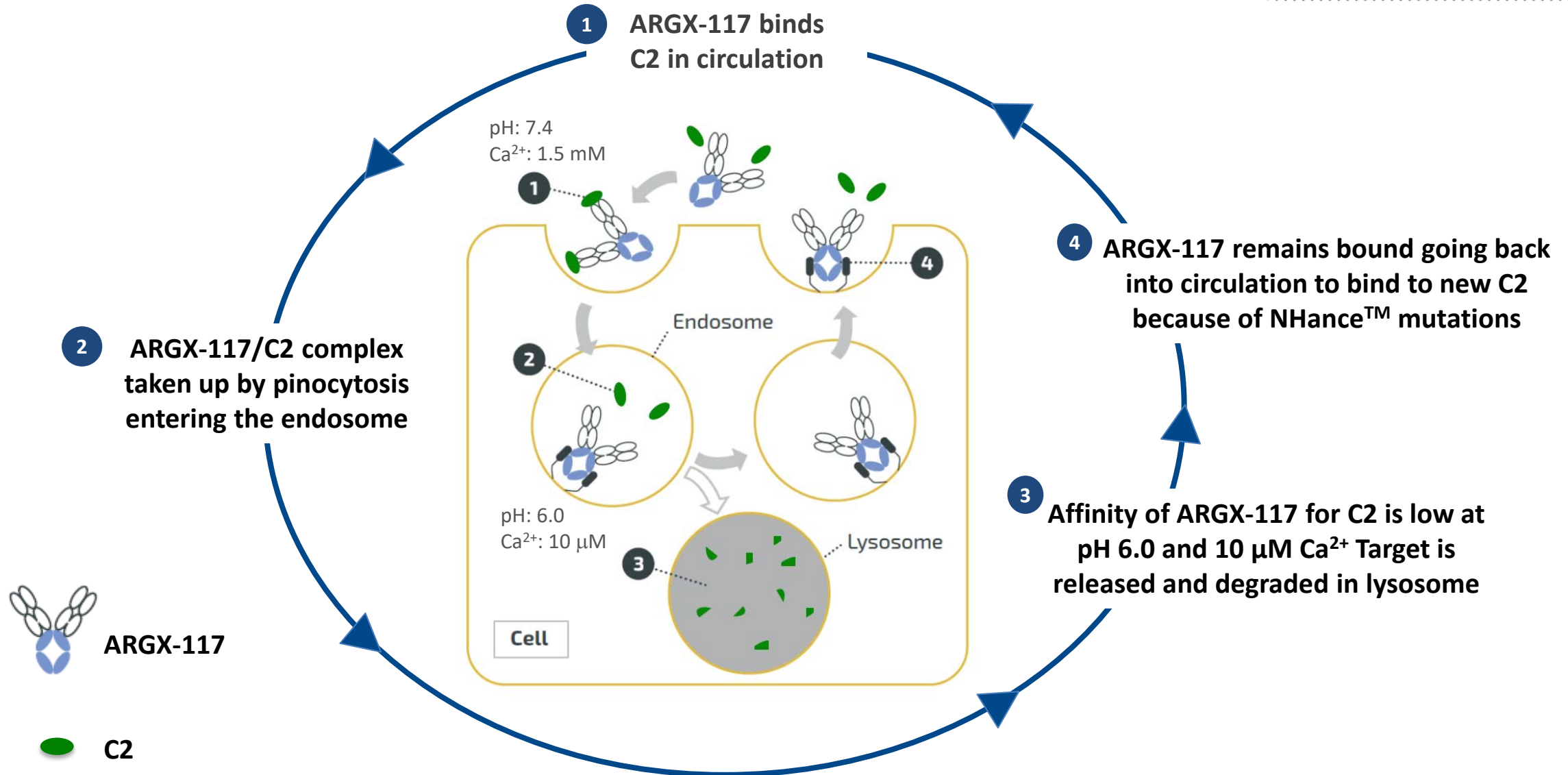


Only through true collaboration do we get to end product

ARGX-117: Potently Blocks Classical and Lectin Pathways

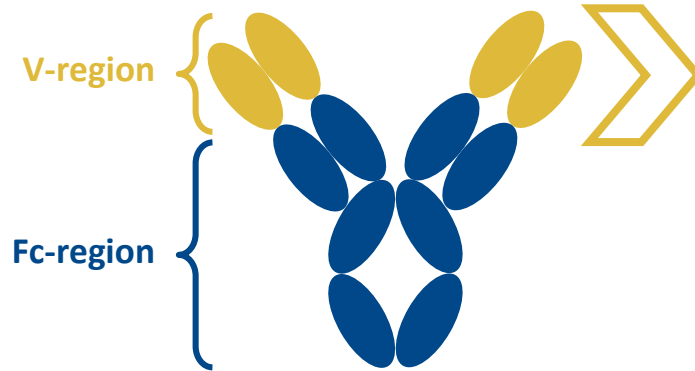


ARGX-117: V and Fc Regions Act in Concert to Sweep C2



ARGX-117: Intrinsic pH Dependent Target Binding

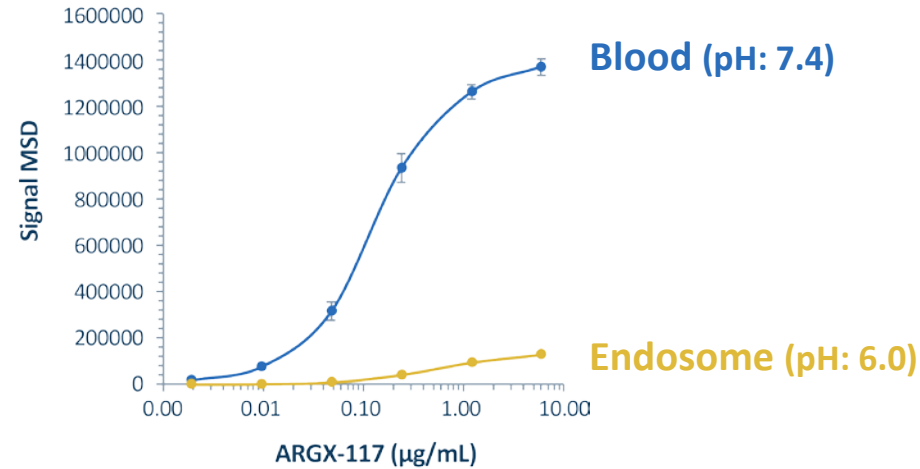
Differential binding in blood and endosome



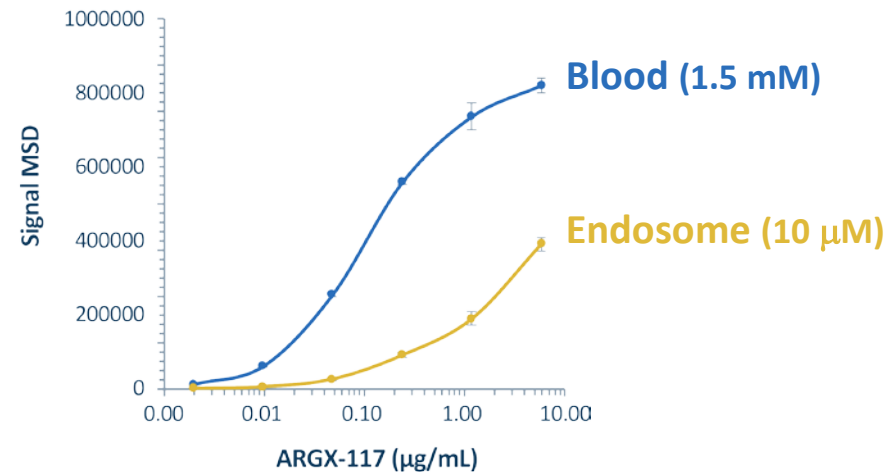
V-regions:

- 97% human identity
- Affinity for C2 in solution ~3 nM

pH dependent C2 binding

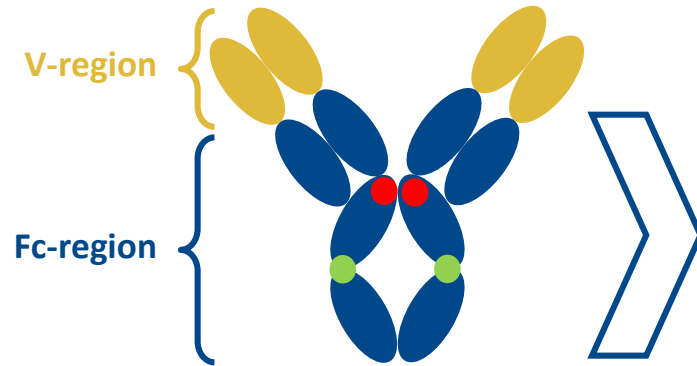


Calcium dependent C2 binding



ARGX-117: Fc Modulations Increase Endosomal FcRn Binding and Knockout

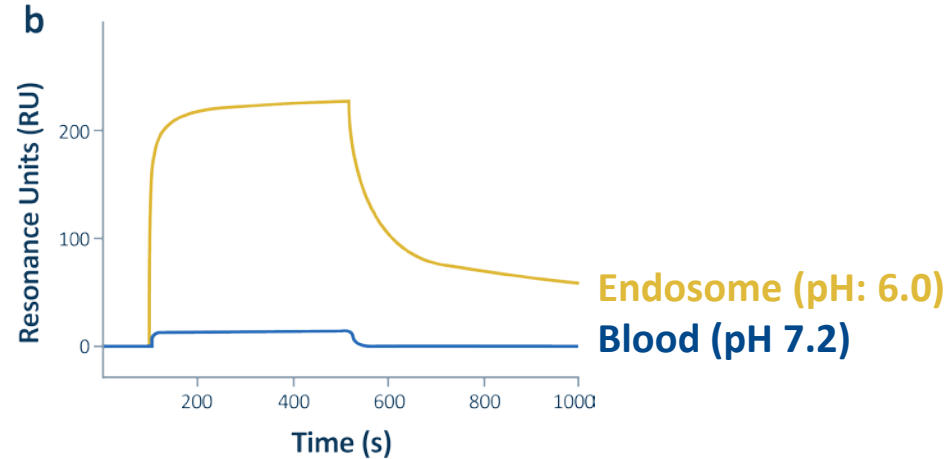
Effector Functions



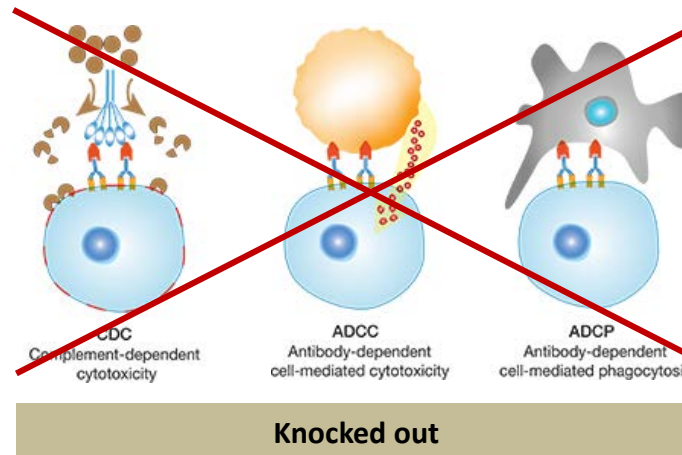
Fc-region:

- Human IgG1
- NHance™ modulates FcRn binding (●)
- LALA mutations knock out effector function (●)

NHance™ modulates FcRn binding



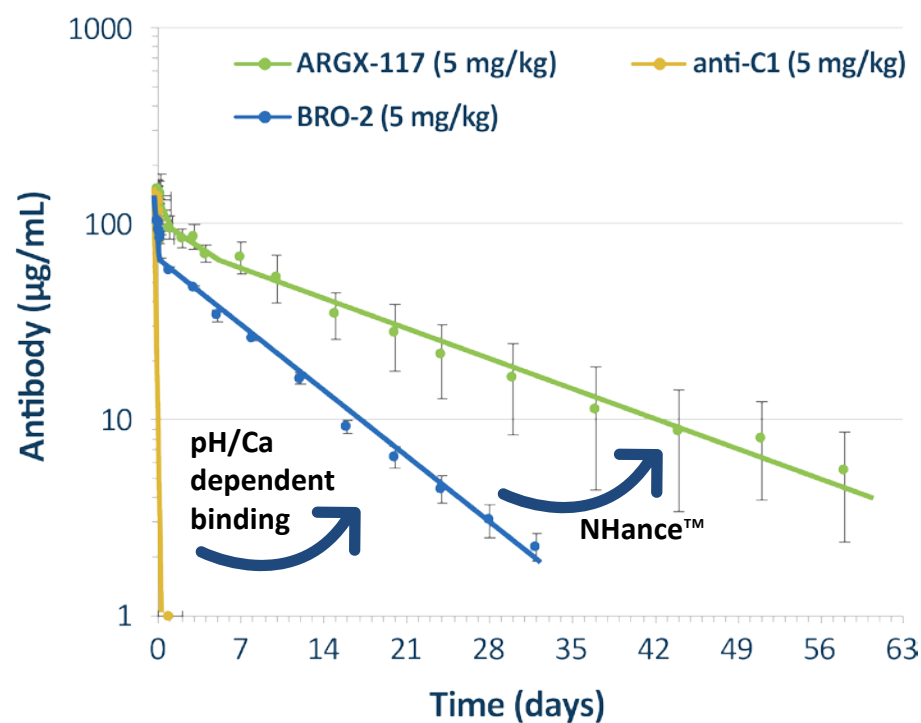
LALA mutations knock out effector functions



From Journal of Virology, 2001: 75: 12161–12168

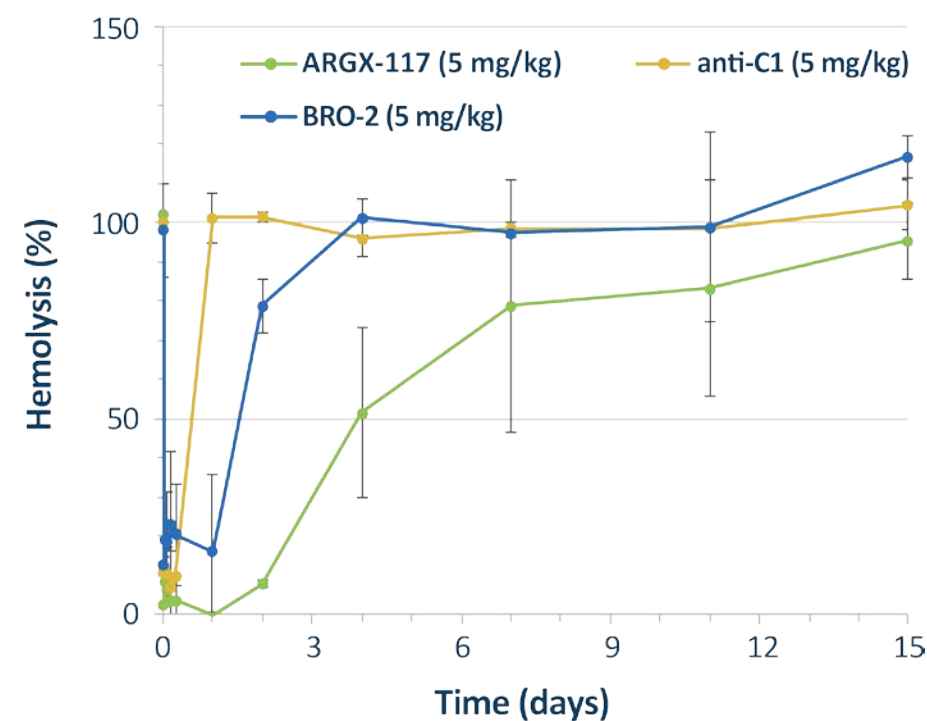
ARGX-117: Longer Half-life and Differentiated Pharmacodynamic Effect in Cyno

Pharmacokinetics



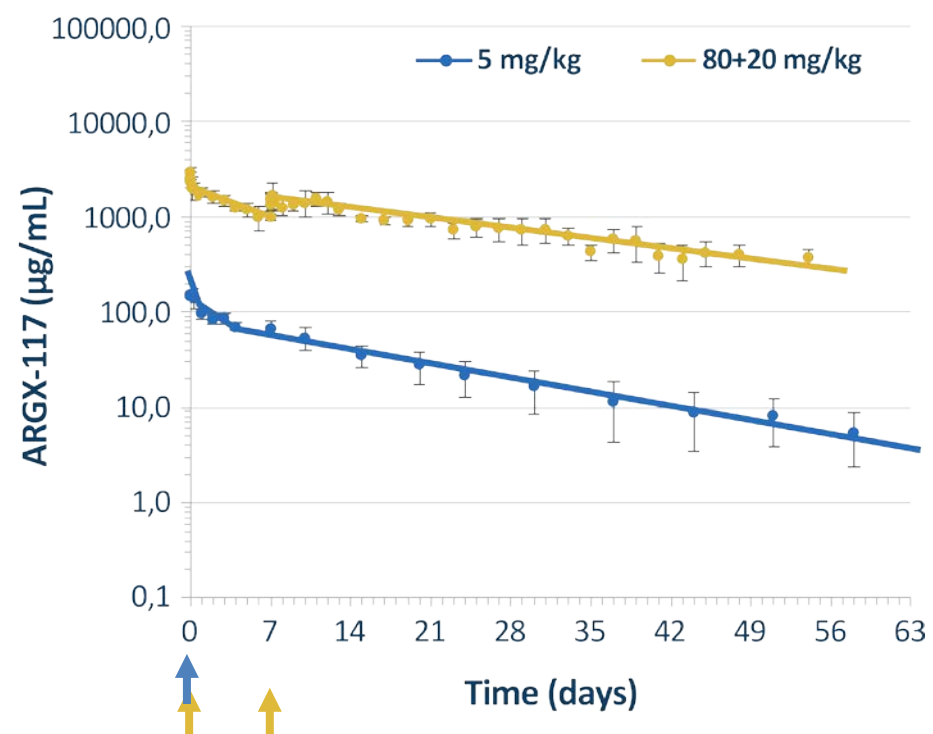
Prolonged half life...

Pharmacodynamics



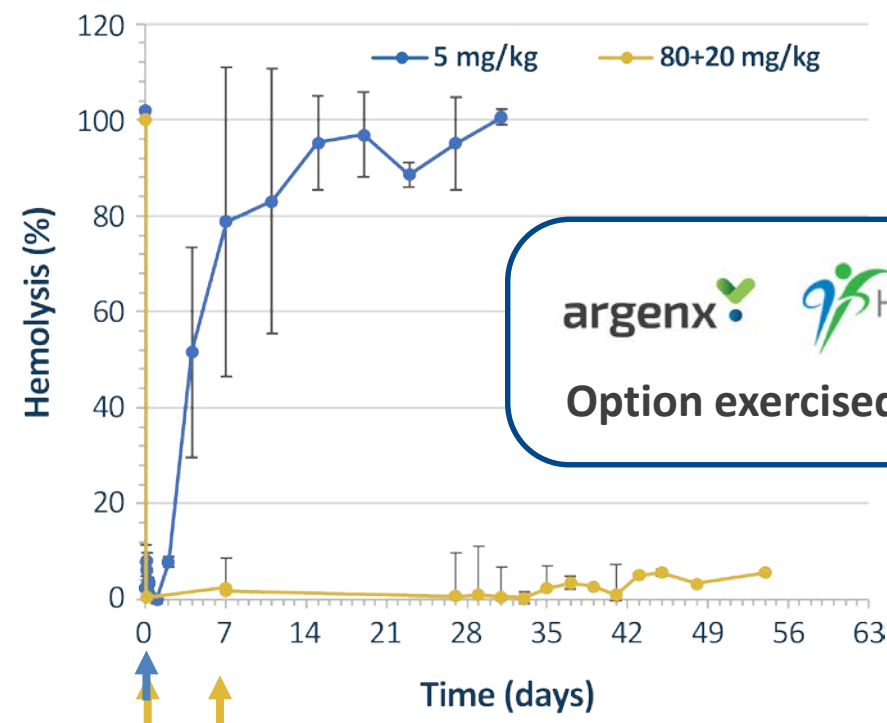
...results in extended PD profile

Pharmacokinetics



Half life ARGX-117: 2-3 weeks

Pharmacodynamics



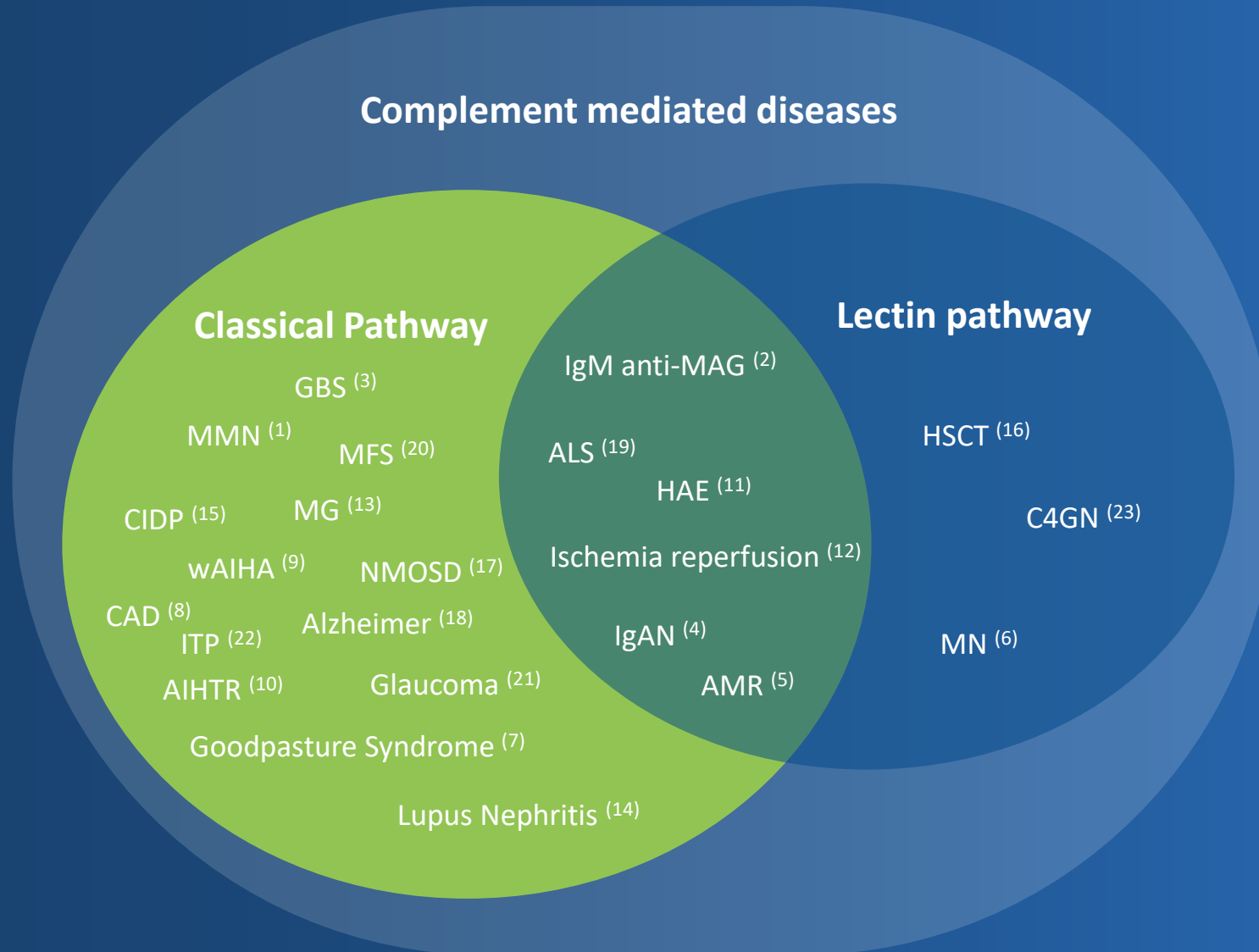
argenx 

Option exercised for C2

Blocking for 2 months after repeat dosing

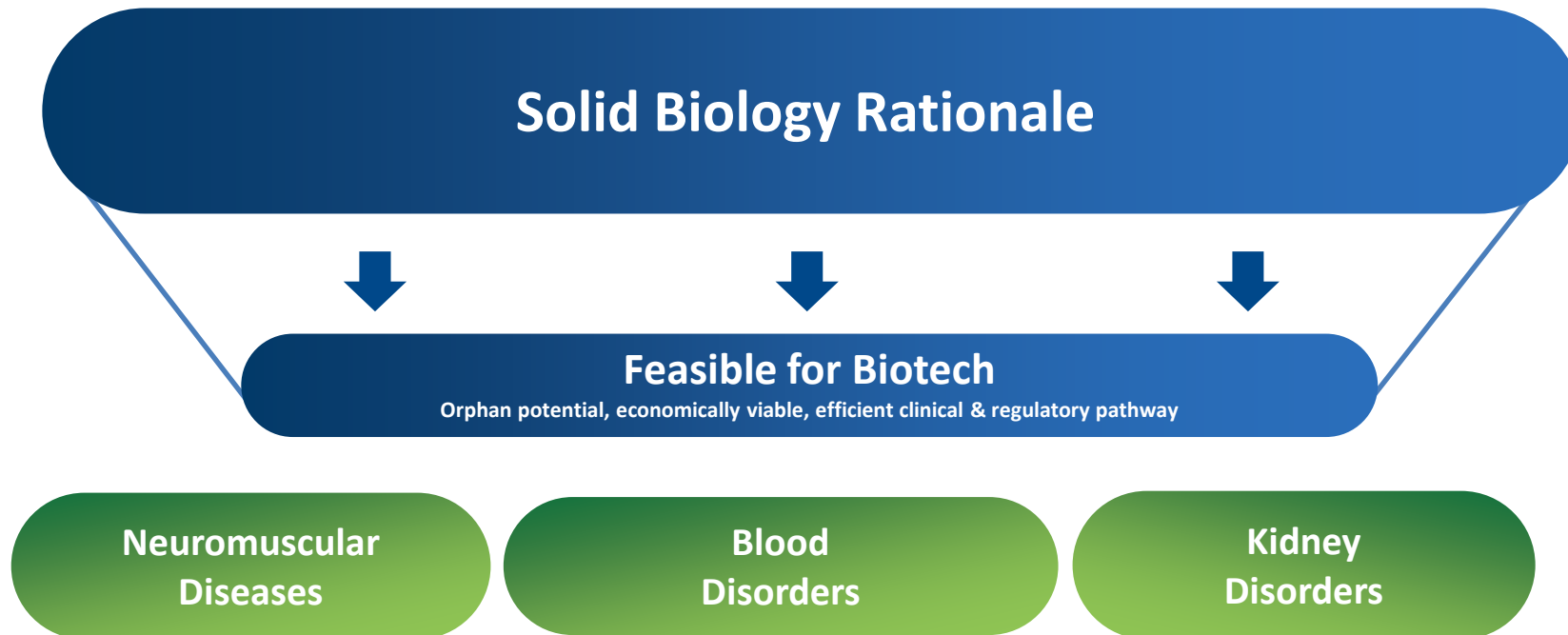
C2 levels cynomolgus monkey = 4x human

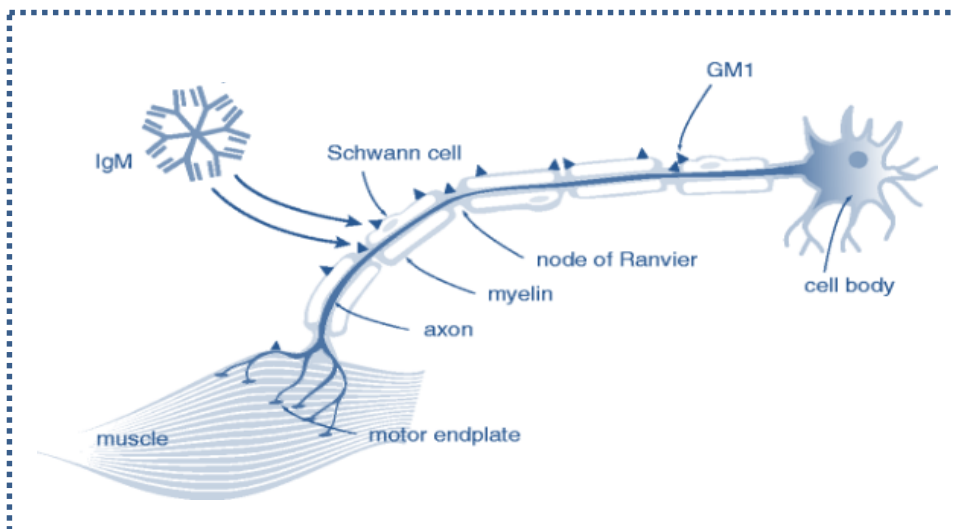
Classical and Lectin Pathways are Involved In Many Autoimmune Diseases



1. Vlam et al, 2015, Neurology
2. Stork et al, 2016, J of Neuroimmunol
3. Goodfellow et al, 2016, Nat Rev
4. Medjeral-Thomas et al, 2018, Kidney Int report
5. Montgomery et al, 2016, Am Soc of Transplant
6. Couser, 2017, Clin J Am Soc Nephrol
7. Greco et al, 2015, Autoimmun Rev
8. Jäger et al, 2018, Blood
9. Berentsen et al, 2015, Transfus Med Hemother
10. Sharp et al, 2014, Front in Immunol
11. Csuka et al, 2017, Mol Immunol
12. Gorsuch et al, 2012, Immunobiol
13. Howard, 2018, Ann NY Acad Sci
14. Bao et al, 2015, Kidney Dis
15. Querol et al, 2017, Scientific Reports
16. Swierzko et al, 2018, Front in Immunol
17. Yoshikura et al, 2017, J Neuroimmunol
18. Morgan, 2018? Semin Immunopathol
19. Kjaeldgaard et al., 2018, Mol Immunol
20. Lehmann et al., 2008, Brain
21. Williams et al., 2016, Mol. neurodegeneration
22. Peerschke et al., 2016, Br J Haematol
23. Sethi et al., 2016, Am J of Kidney Diseases

Classical and Lectin Pathway-mediated Severe Autoimmune Diseases





- Monoclonal plasma cells produce **IgM** against **GM1**
- **Classical pathway** of complement activated
 - Demyelination/ disruption Schwann-cell-axolemma junction
 - Displacement of ion-channel clustering
 - Disturbing membrane integrity
- Results in loss of strength

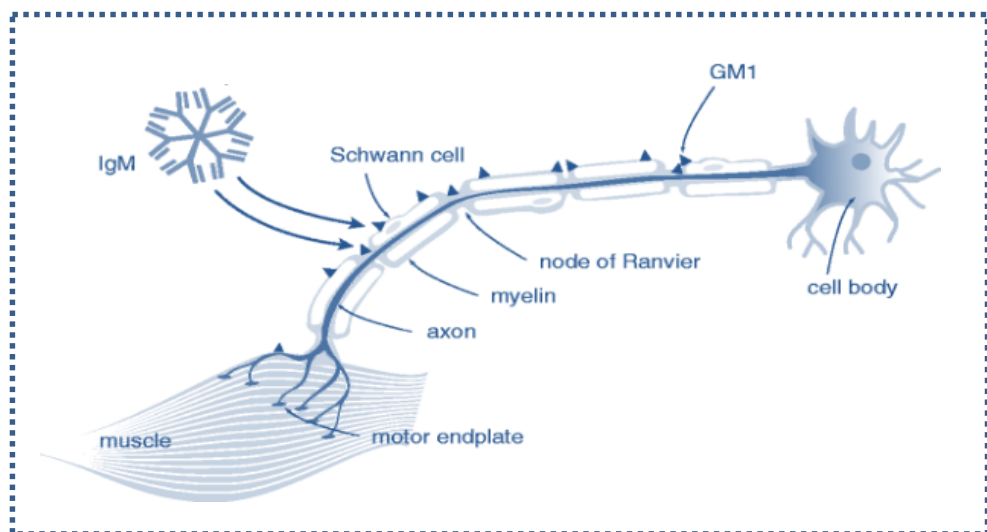
Classical (IgM Mediated) pathway activation

IVIg at high doses is effective

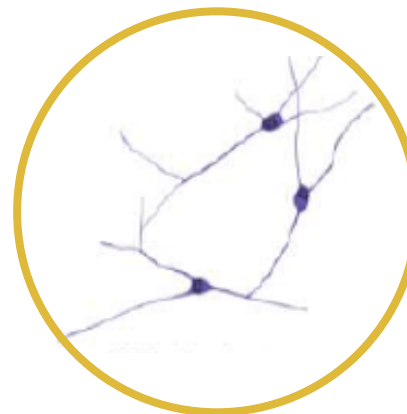
Eculizumab in MMN did not show benefit on top of IVIG

Hypothesis:
Other mechanisms must be in play which are not driven by MAC

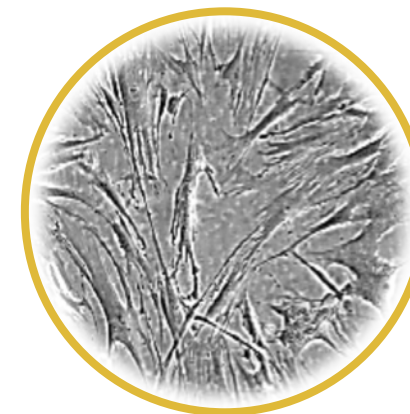
Multifocal Motor Neuropathy: Model System for Indication Selection ARGX-117



Motor neurons derived from pluripotent stem cells



Schwann cells



Complement activation using MMN patient derived IgM



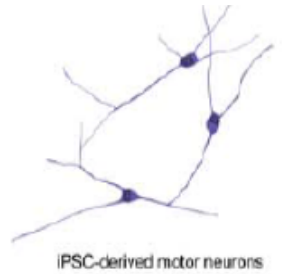
Complement active serum



Biology Rationale: C2 is Critical for Complement Activation Induced by IgM in MMN

ARGX-117 blocks C3 deposition

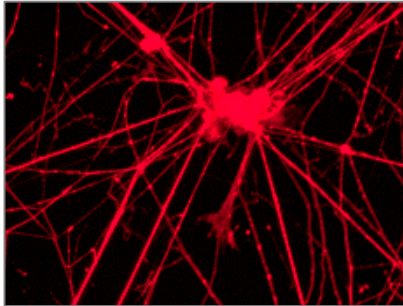
Motor neurons



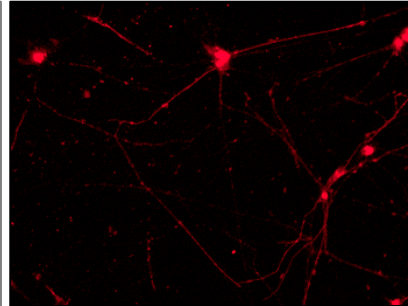
C3 deposition

Serum MMN patient

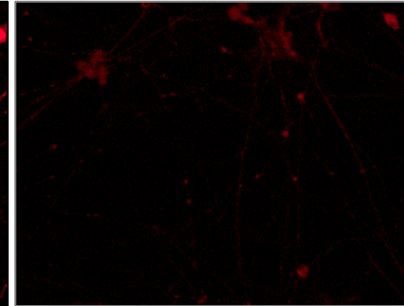
Isotype control



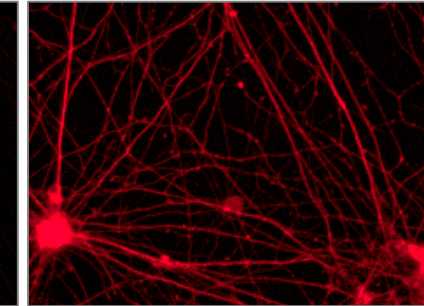
IVIg



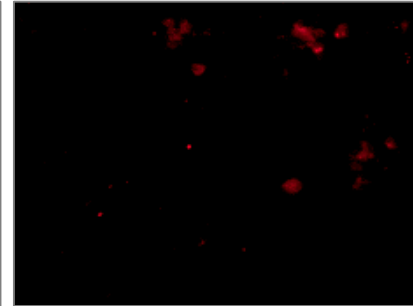
C2 depleted serum



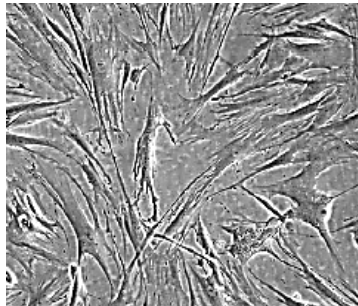
C2 depleted serum + 100% C2



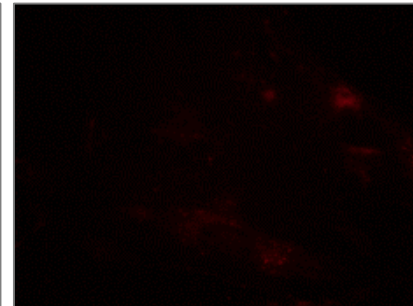
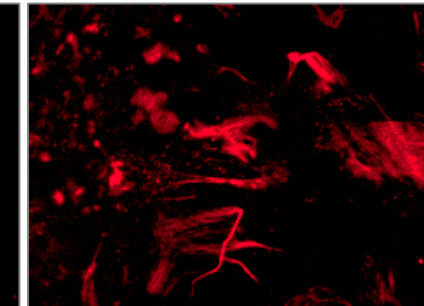
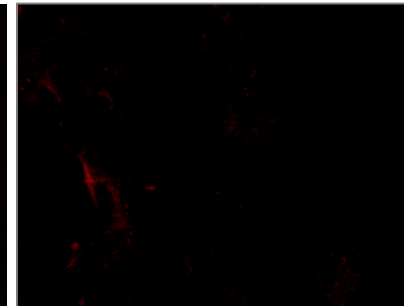
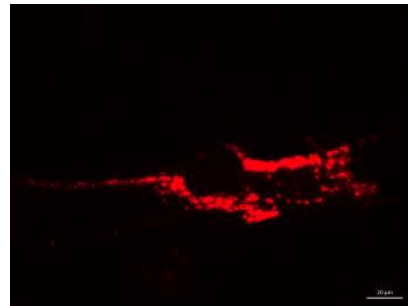
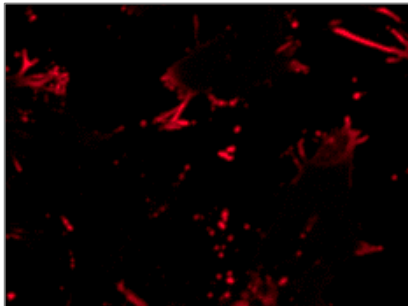
ARGX-117



Schwann cells

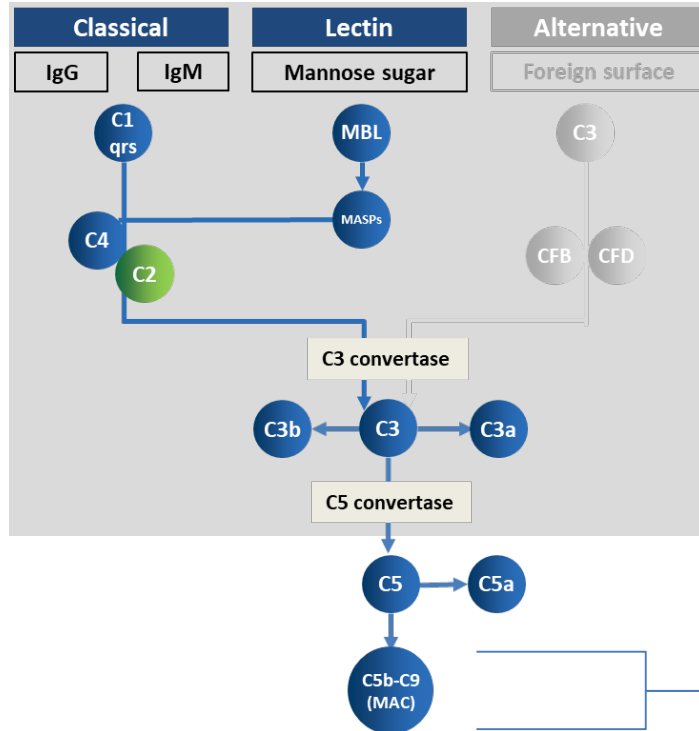


C3 deposition



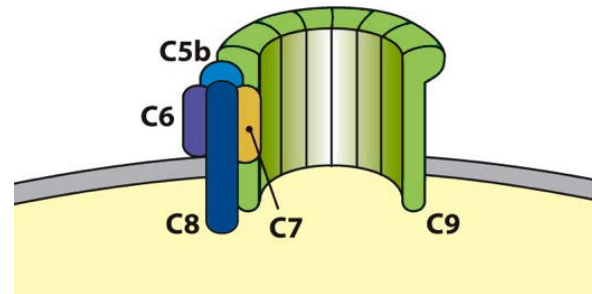
C3 Activation Confirmed Mode of Action of IgM in MMN

No MAC formation due to high CD59 expression - Complement activation upstream of C5

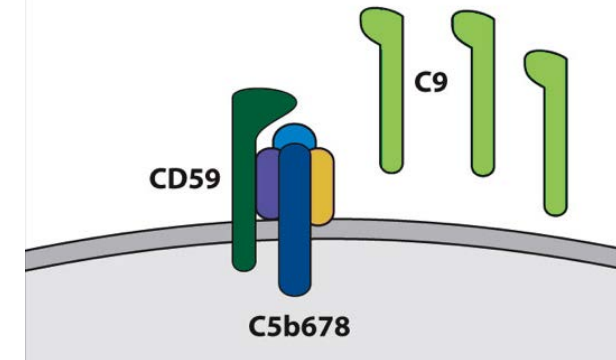


High CD59 expression inhibits MAC formation

C5-C9 activation:
Assembly of MAC complex



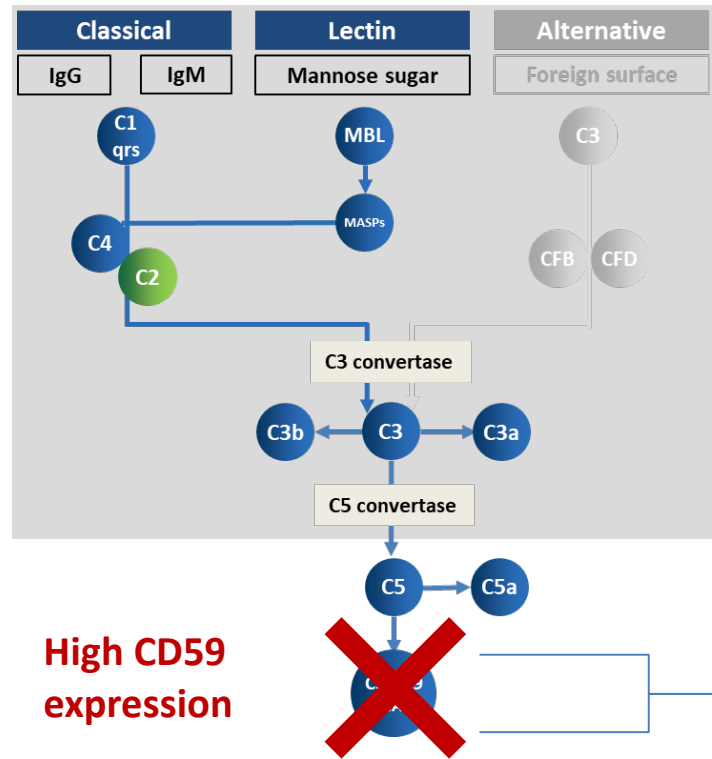
CD59 prevents recruitment
of C9 – No MAC formation



Hypothesis: Pathology of MMN is upstream of C5

C3 Activation Confirmed MOA of IgM in MMN

High expression of CD59 in Motor Neurons and Schwann cells



CD59 staining

Motor neurons

Schwann cells

	Normal	Stripped
CD59	High	Absent
C3	✓	✓
MAC	✗	✓
Cell lysis	✗	✓

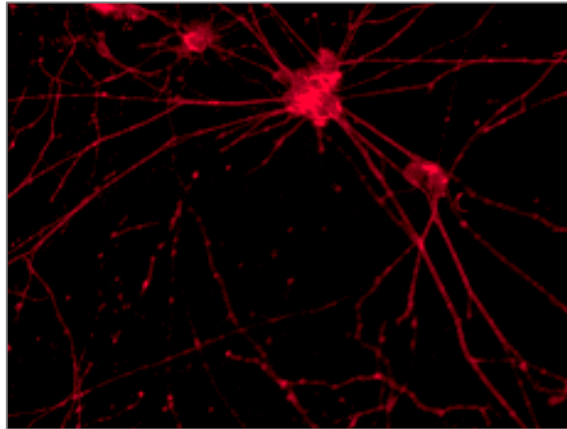
C3 activation confirmed MOA in MMN

Unique Biology Insights Translate to Other Motor Neuron Diseases

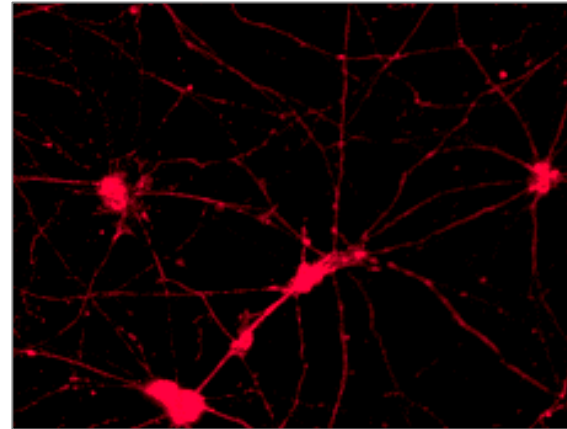
Patient Serum

C3 deposition

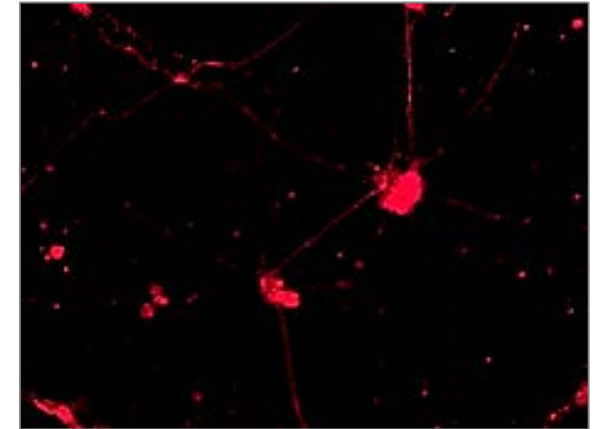
MMN



Guillain Barre

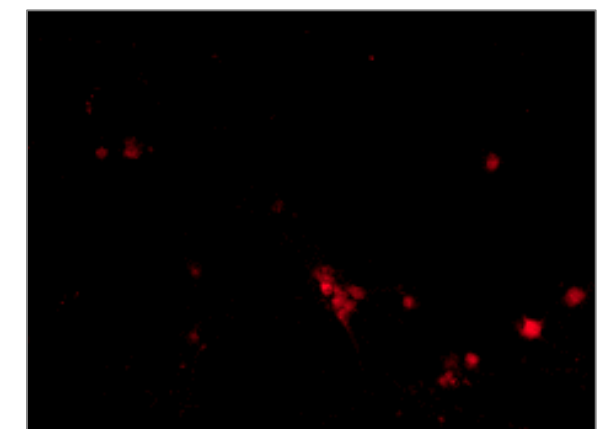
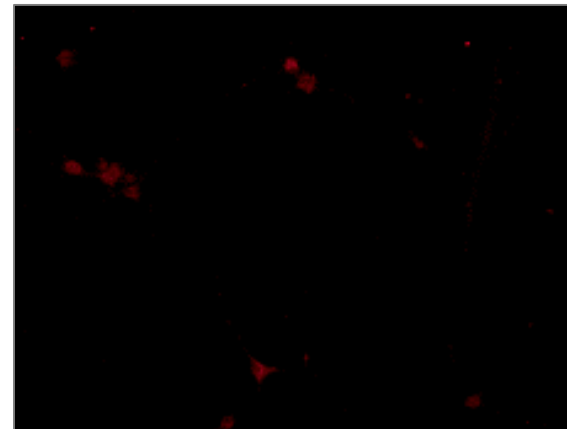
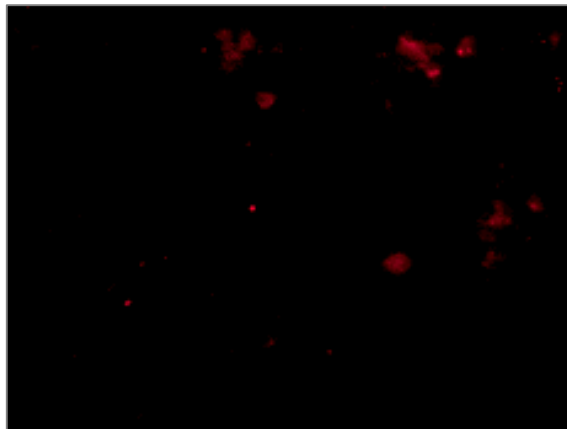


CIDP



Patient Serum + ARGX117

C3 deposition



Journal of the Peripheral Nervous System 18:321–330 (2013)

RESEARCH REPORT

A controlled trial of intravenous immunoglobulin in multifocal motor neuropathy

Angelika F. Hahn¹, Said R. Beydoun², Victoria Lawson³, for The IVIG in MMN Study Team[†], MyungShin Oh⁴, Victoria G. Empson⁵, Heinz Leibl⁶, Leock Y. Ngo⁷, David Gelmont⁷, and Carol L. Koski⁸

¹Department of Neurology, London Health Sciences Centre, London, Ontario, Canada; ²Department of Neurology, University of Southern California, Los Angeles, CA, USA; ³Department of Neurology, The Ohio State University, Columbus, OH, USA;

⁴Clinical Biostatistics, Baxter Healthcare Corporation, Westlake Village, CA, USA; ⁵Clinical Scientific Affairs and ⁶Clinical Research, BioTherapeutics, Baxter Innovations GmbH, Vienna, Austria ⁷Clinical Research, BioTherapeutics, Baxter Healthcare Corporation, Westlake Village, CA, USA and ⁸Santa Fe, NM, USA

Abstract Intravenous immunoglobulin (IVIG) has become the standard treatment for multifocal motor neuropathy (MMN) based on limited data. To critically assess the efficacy, safety, and tolerability of 10% liquid IVIG (IVIG), 44 adults with MMN were randomized

Unmet need for new therapies that slow down progression of disease and reduce reliance on IVIg



Prevalence

~13,000 patients in the US

Underdiagnosed

Predominantly men
under 50

MMN

Multifocal Motor Neuropathy

Rare inflammatory neuropathy;
ALS patient that didn't die

Slowly progressive

Asymmetric distal limb weakness
mainly affecting upper limbs

Patients become dependent



Diagnosis / Metrics

Anti-GM1 IgM
antibody presence

Nerve conduction block

Defined clinical endpoints
(i.e. 9-HPT, grip strength, Guy's
neurological disability score)



Treatment

First line therapy is frequent, high
dose of IVIg over 2-5 days

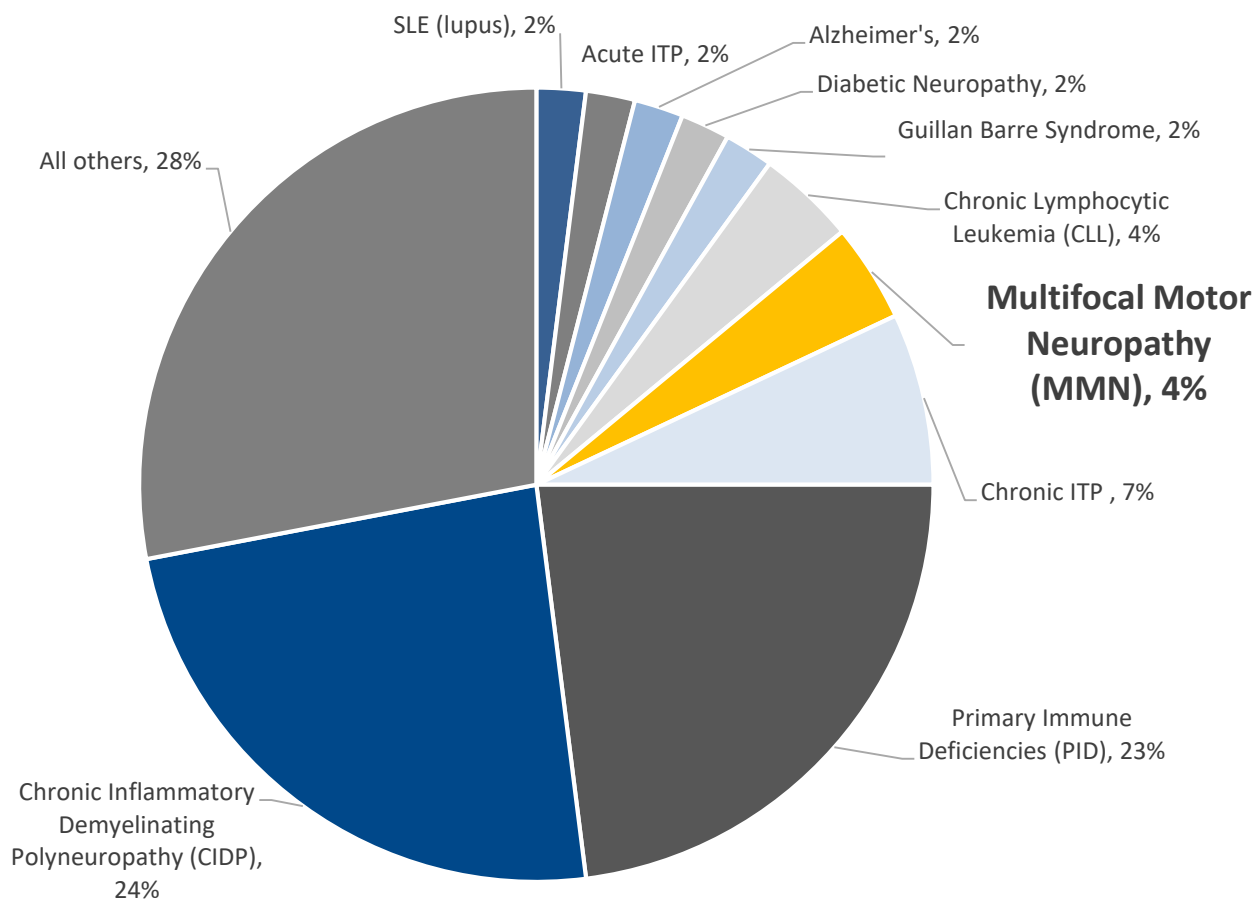
Patients unhappy with short
duration of effect, disease
progression despite strict
adherence, side effects of IVIg

Payors aligned in need for
new therapies

Feasibility: Economically Viable Indication

MMN Represents 4% of Total IVIg Market by Volume

Total IVIg consumption (US)



Global IVIg market

- Totals ~\$10B with 6-8% CAGR
- Neurology taking 40-50% (CIDP, MG, MMN, GBS, etc.)
- Neurology showing rapid growth outside of PID
- MMN represents 4% of total IVIg market

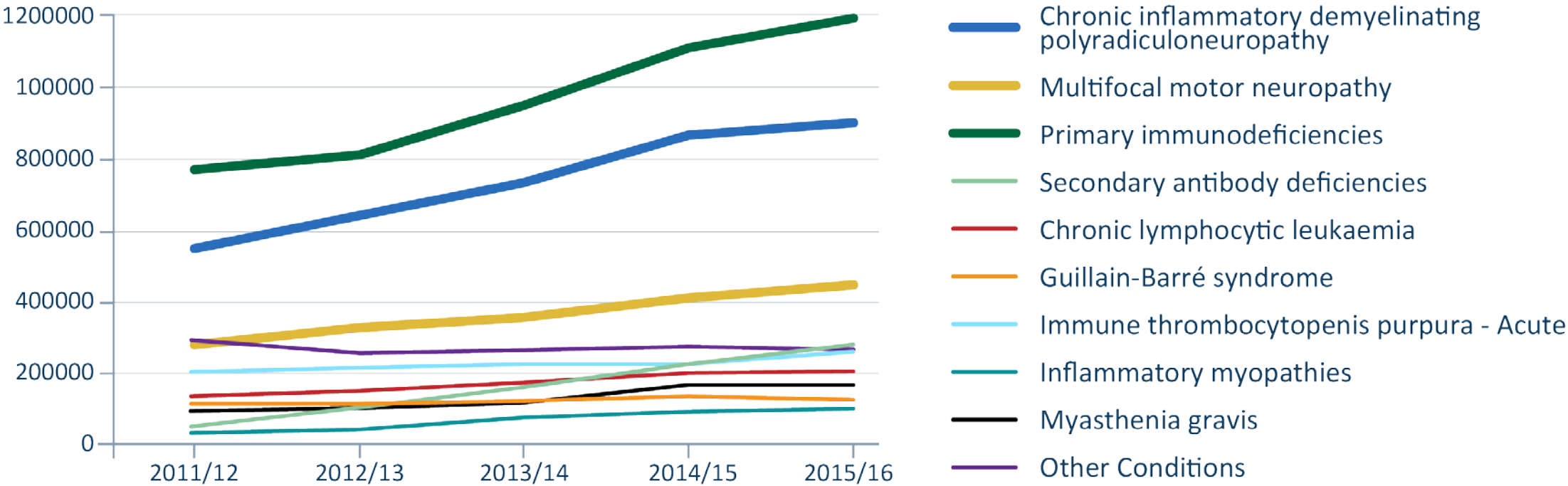
References:

- Roberts 2015
- National Blood Authority
- Shire, Grifols annual reports; NHS UK IVIg report 2015/2016

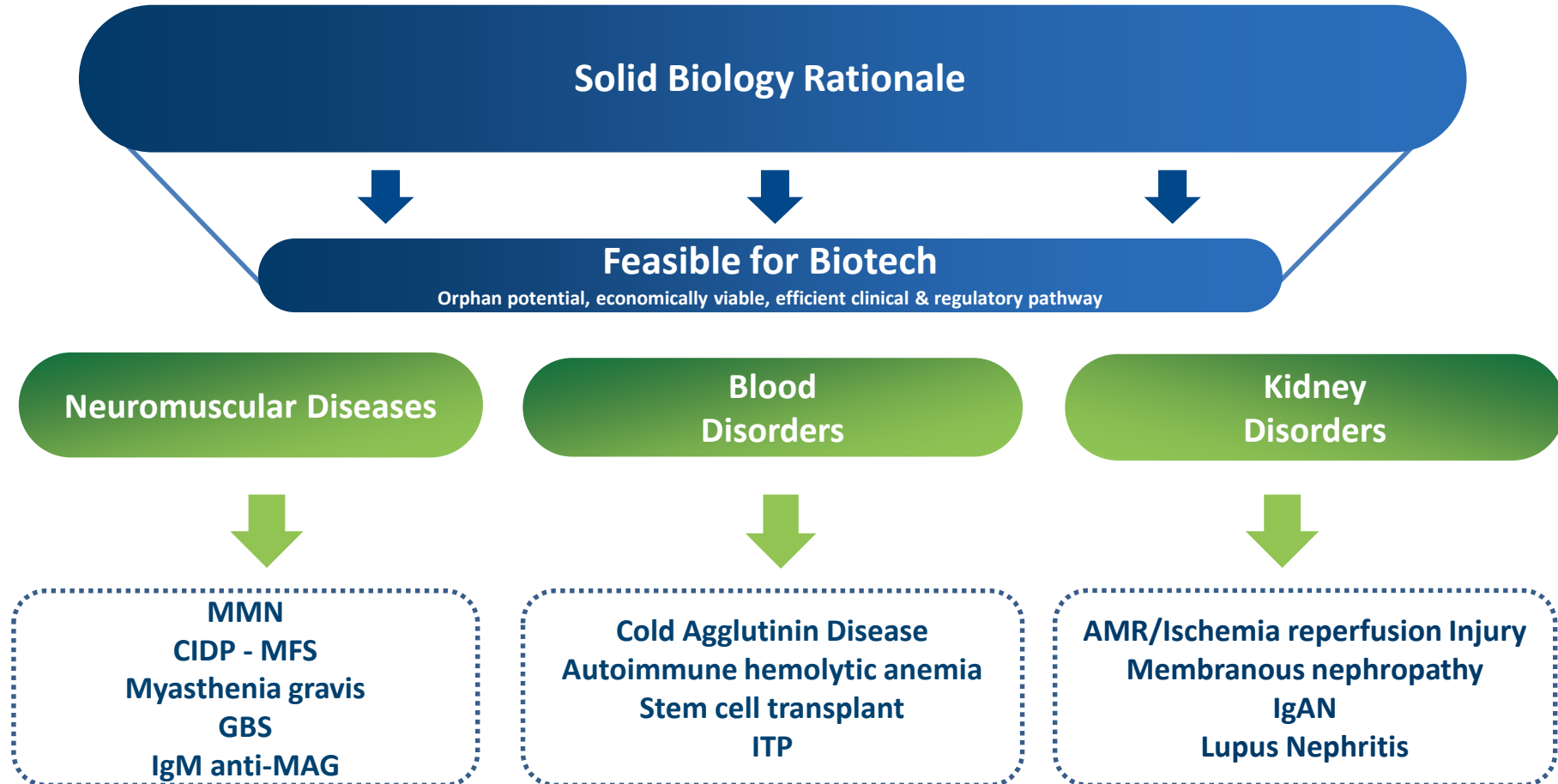
Neuropathies Remain Highest Growth Indications for IVIg Consumption



Recorded yearly immunoglobulin use for the top 10 diagnoses



Classical and Lectin Pathway-mediated Severe Autoimmune Diseases





Prof. Ludo van der Pol, M.D., Ph.D.

- Neurologist, Associate Professor of Neurology
- Head of the Netherlands SMA center at the University Medical Center Utrecht (UMCU), The Netherlands



Dr. Rafael Villicana, M.D.

- Associate Professor of Medicine
- Medical Director of Kidney Transplantation at Loma Linda University Medical Center, U.S.

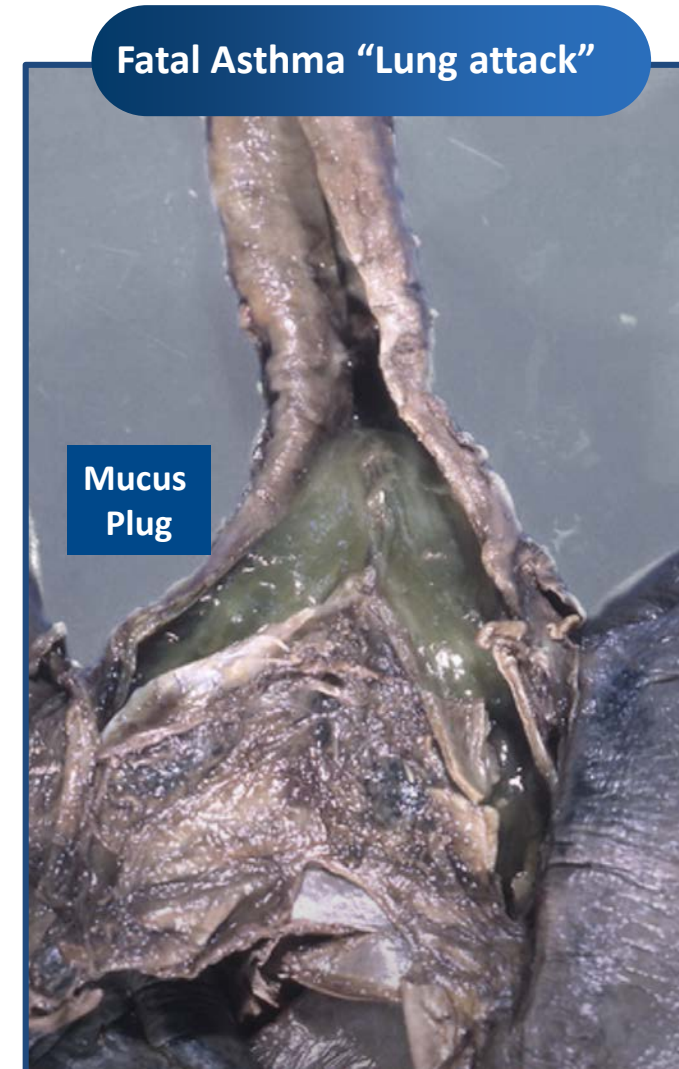
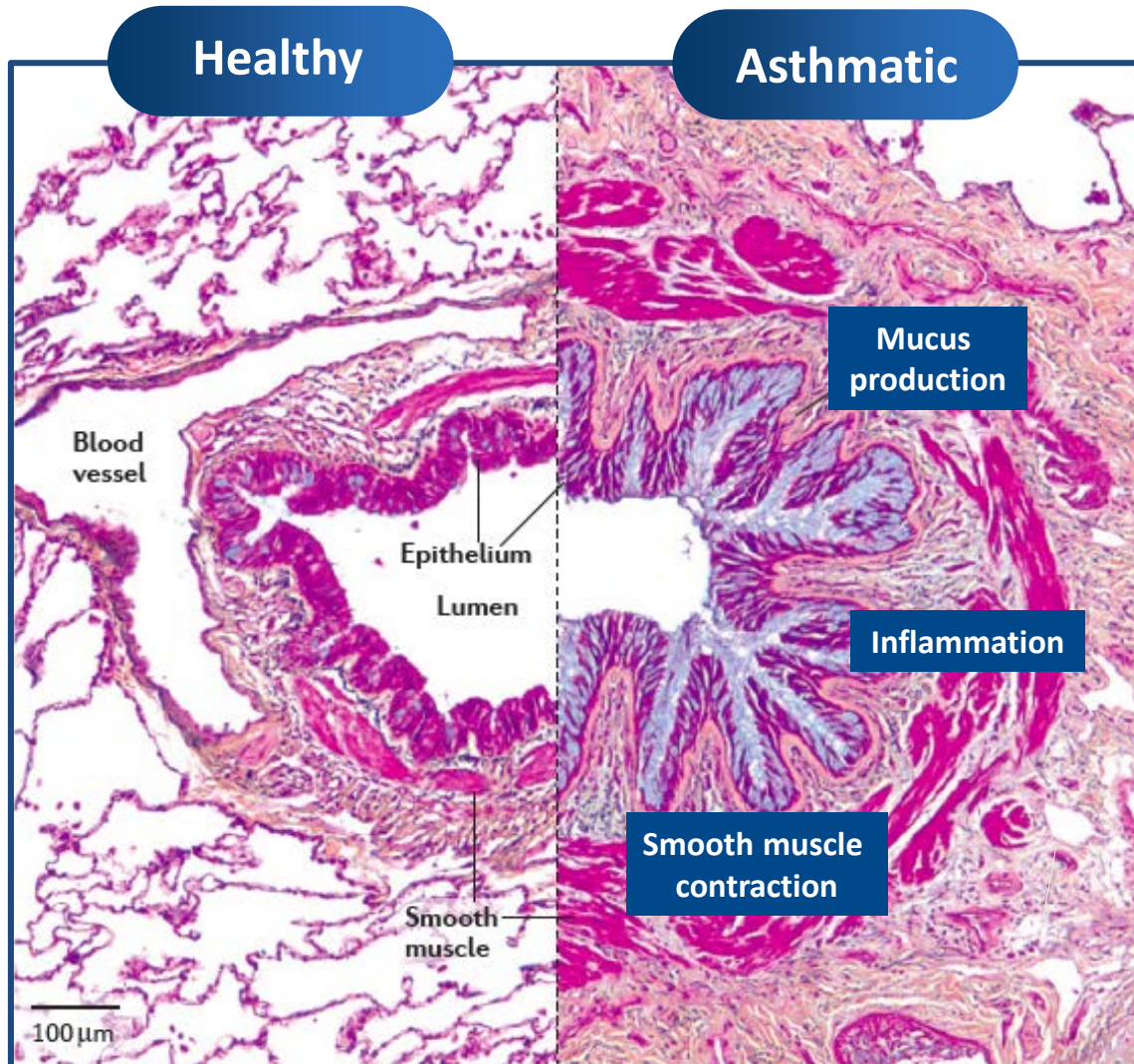
**ARGX-118: Immunology Breakthrough for
Airway Inflammation**

Bart Lambrecht | Prof. VIB-UGent

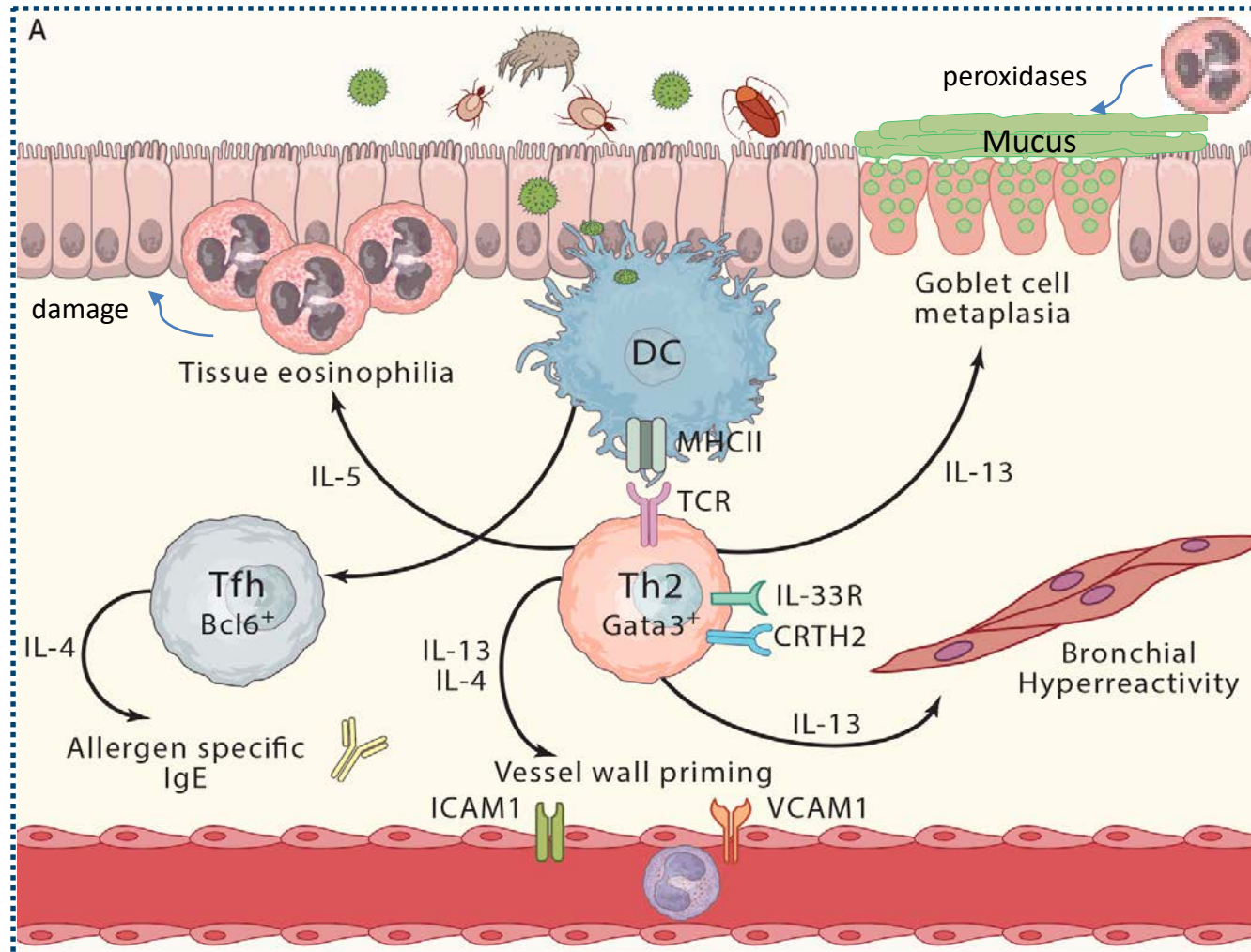


- Director of VIB Inflammation Research Center, UGent (280 scientists)
- Active clinician; Prof. of Pulmonary Medicine at Ghent University and Erasmus MC
- Author of 330 papers and 25 book chapters on asthma and allergy
- Research: the immunology of asthma; basic science and translational
- Theory on mechanisms of allergic sensitization are the basis of many research efforts globally, enabling new preventive and therapeutic avenues for asthma.

Mucus Plugs Remain Biggest Unmet Need in Asthma Management



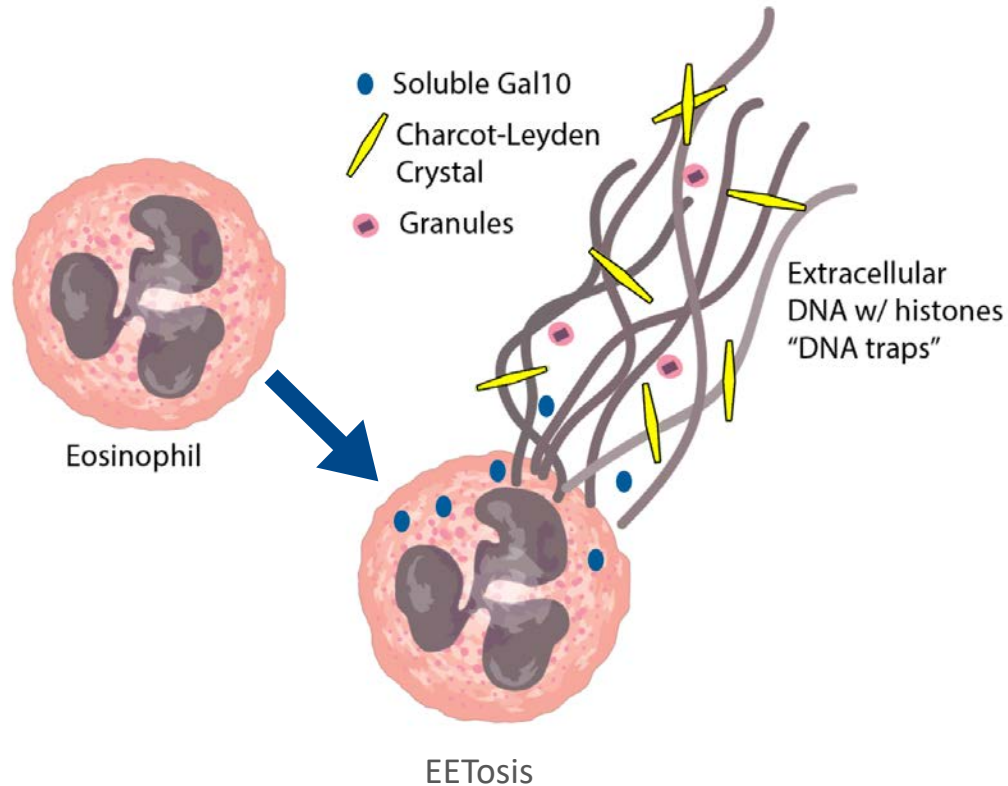
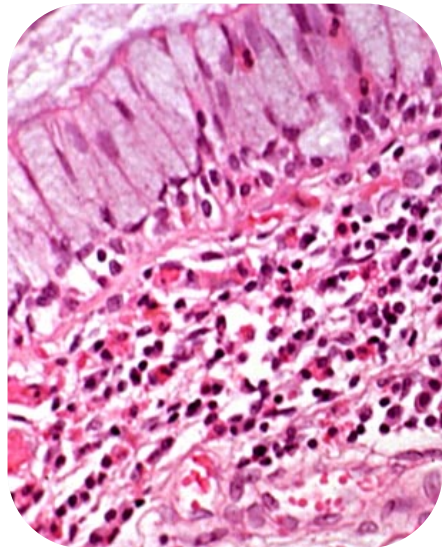
Eosinophils Are Driver of Severe Asthma Pathology and Mucus Production



Lambrecht, Hammad and Fahy, Immunity, 2019

- Current therapies treat
 - Inflammation
 - smooth muscle contraction
- Currently no drugs to treat the mucus build up
- ARGX-118 potential first-in-class drug for mucus plugging and persistent airway obstruction

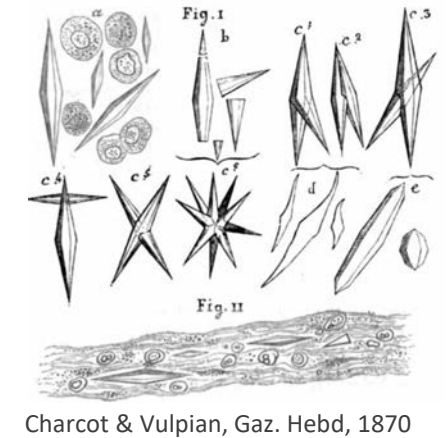
Asthma Biopsy



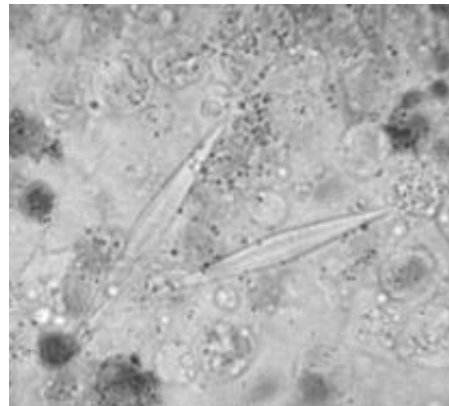
- Eosinophils seen in about 50% of severe asthmatics
- EETosis (burst of eosinophil): “Release of intracellularly formed CLCs and soluble Galectin-10 further contributes to formulation of large CLCs extracellular” (Ueki, Blood, 2018)
- Galectin-10 makes up 10% of all eosinophil protein content

Charcot-Leyden Crystals Intuitive Yet Overlooked Asthma Target

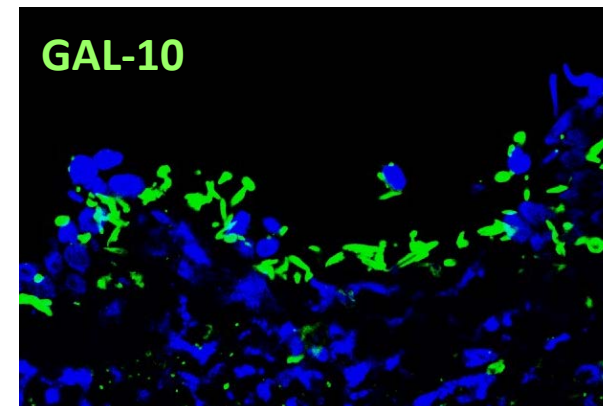
- Described in 1853 in sputum and mucus plugs of severe asthmatics
- Comprised of protein galectin-10
- Gal-10/CLCs serve as biomarker of mucus plugs
- Crystals present in “allergic mucin” in many diseases including:
 - Asthma and cystic fibrosis
 - Chronic rhinosinusitis (CRS) with nasal polyps



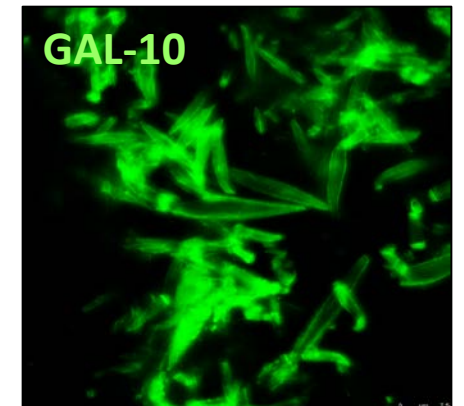
Fresh sputum from
asthma patient



Mucus plug from
ABPA patient



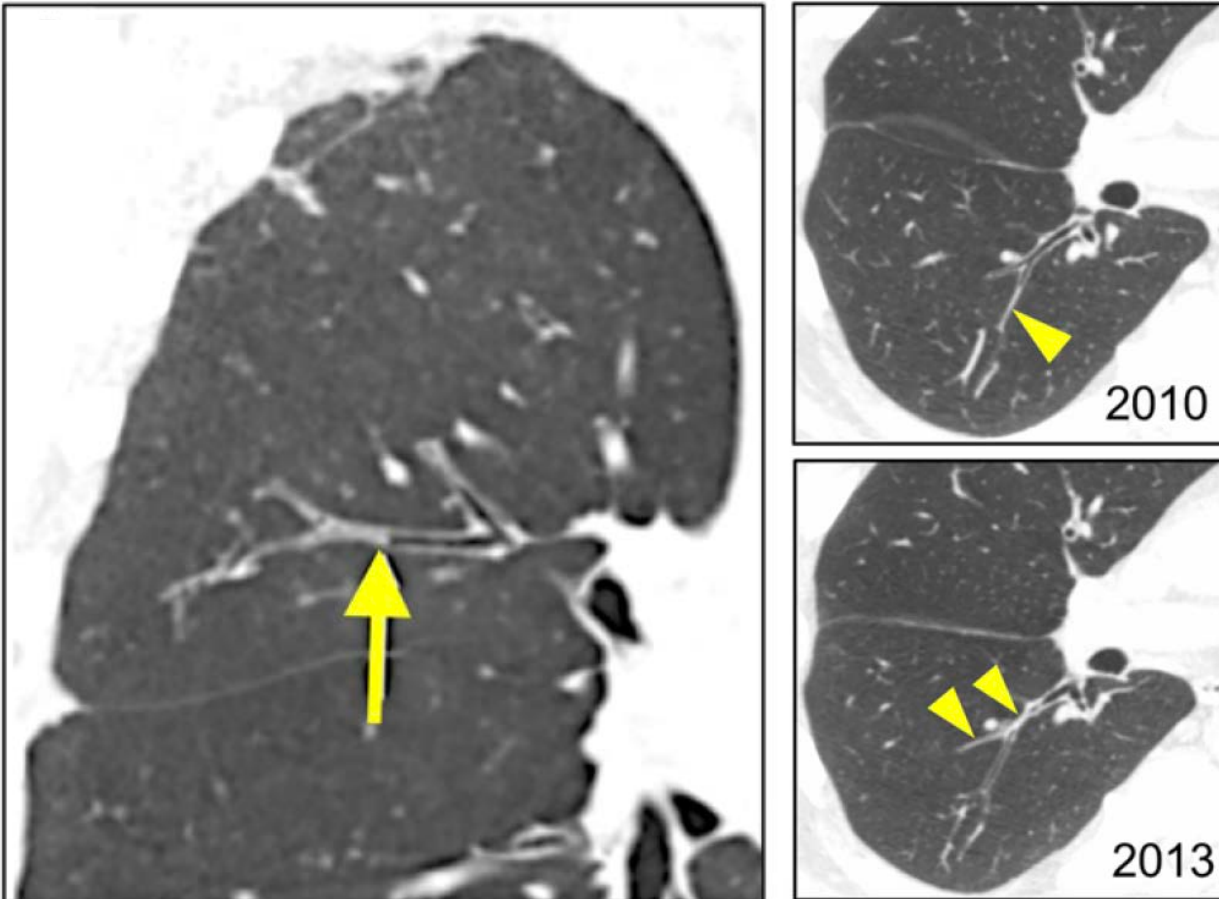
Mucosal biopsy from
CRS with nasal polyps



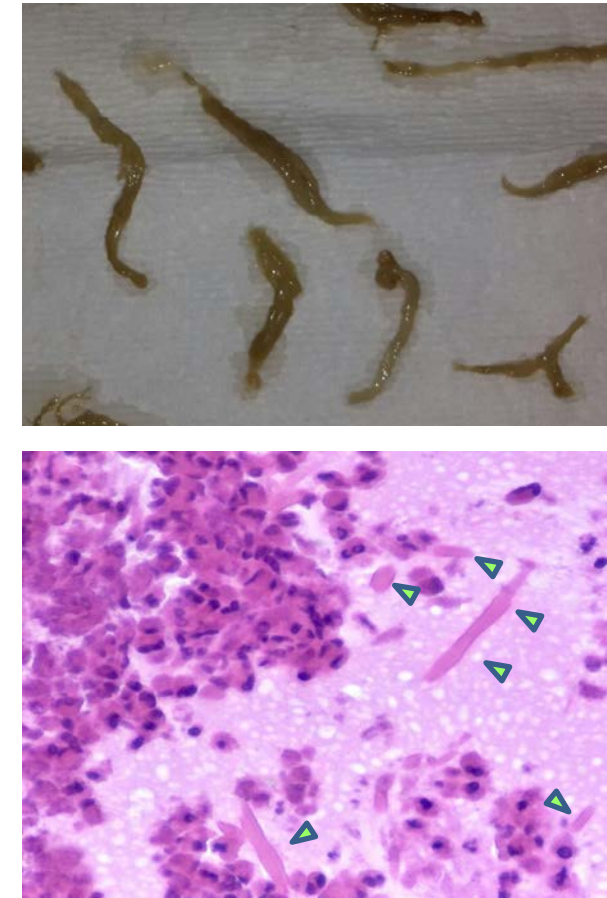
"Peanut butter" from
CRS with nasal polyps

Mucus Plugging Seen in 70% of Severe Asthmatics with Persistently Low Lung Function

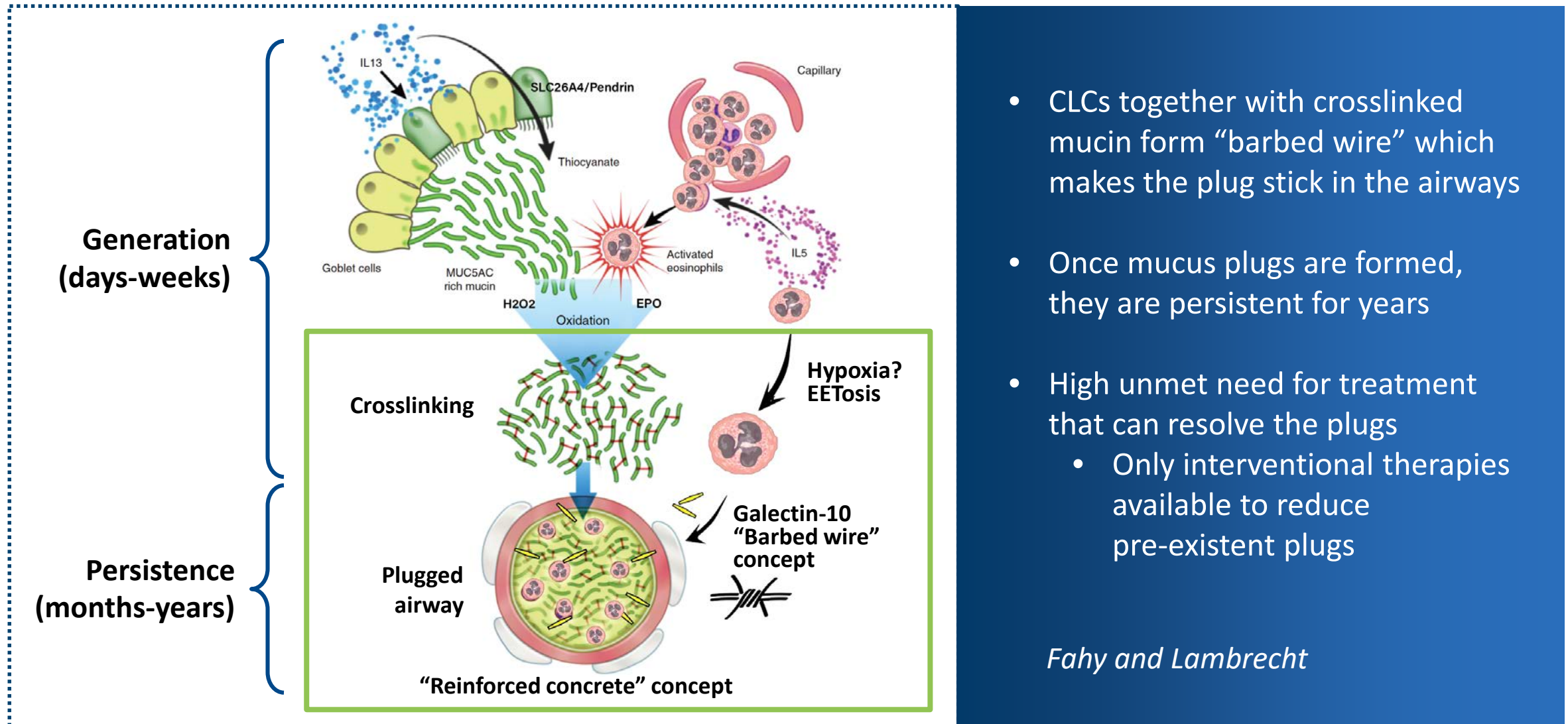
Mucus plugs on chest CT scan - Very chronic



Asthma mucus plugs contain numerous CLCs



Charcot-Leyden Crystals and Galectin-10 Are Basis of Mucus Plug Persistence



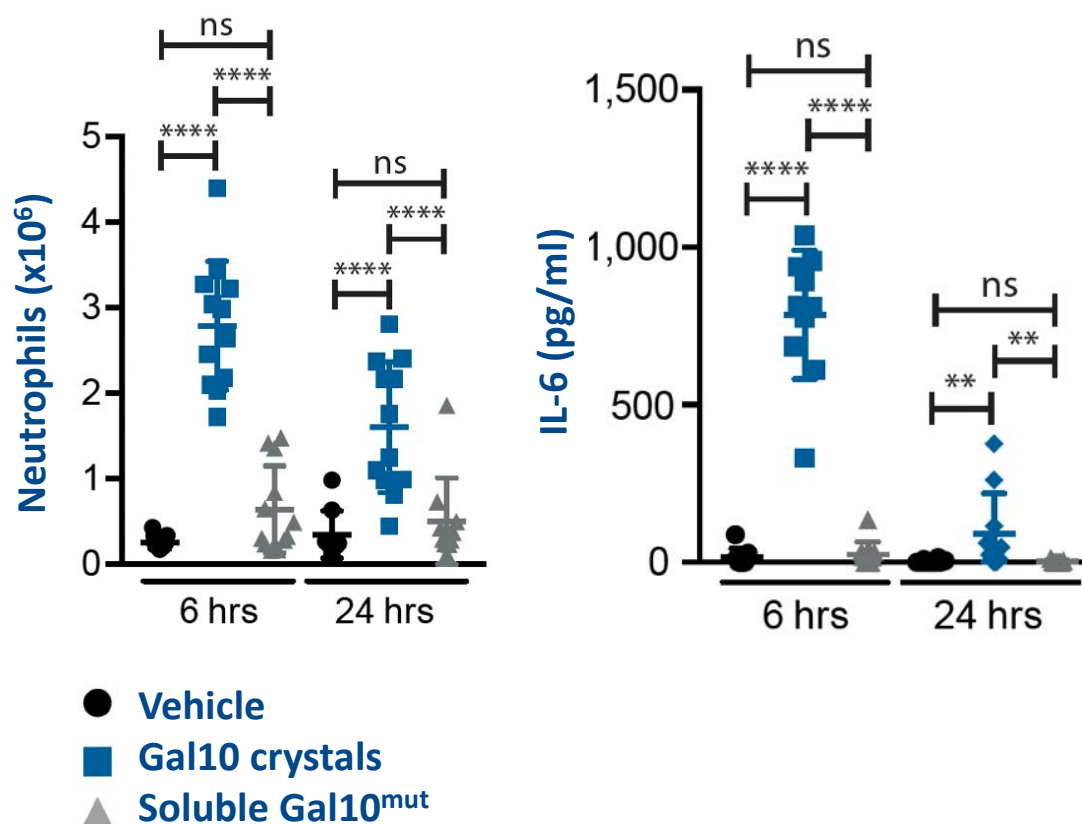
?

Can Charcot-Leyden crystals also promote lung inflammation ?

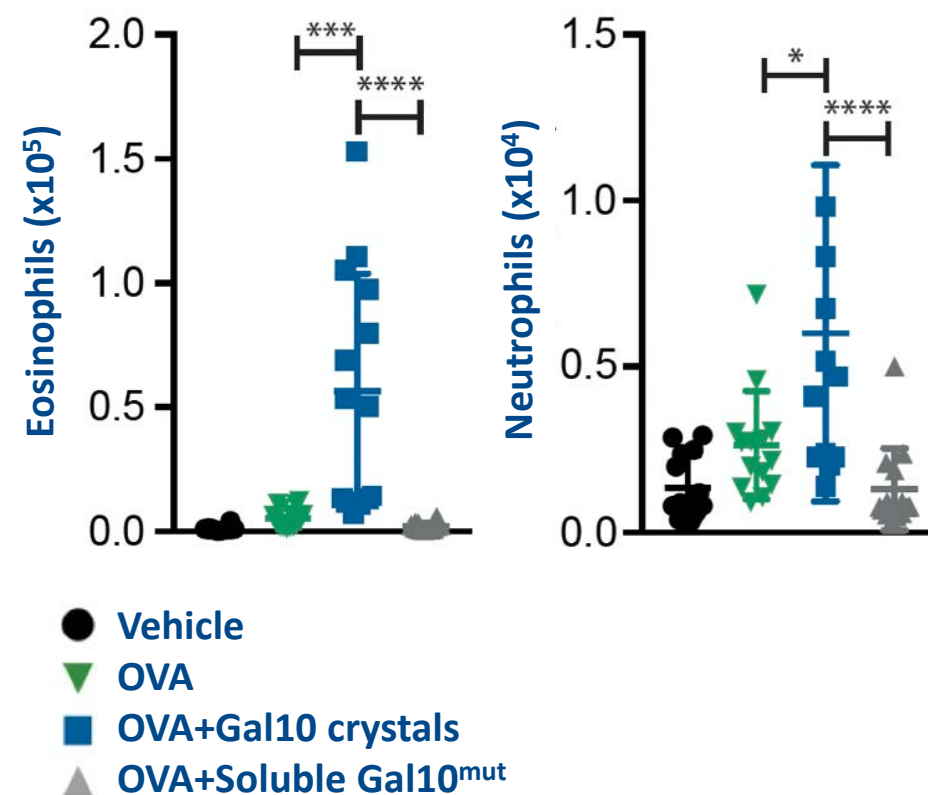


CLCs Induce Inflammation and Promote Development of New Allergies *in vivo*

CLCs induce inflammation when injected in lungs of mice



CLCs promote development of new allergies in mice



?

***Can Charcot-Leyden
crystals be targeted
by antibodies?
Development of
ARGX-118***

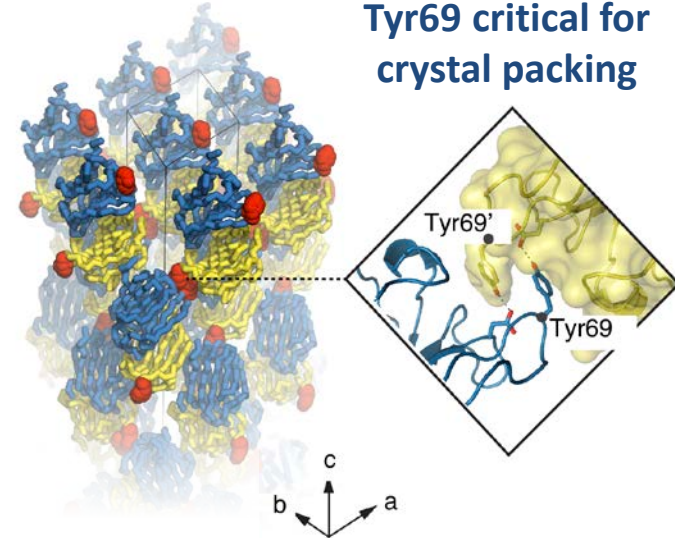


ARGX-118 Solubilizes Charcot-Leyden Crystals

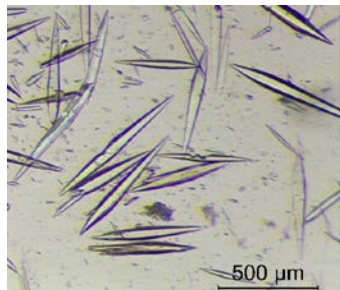


ARGX-118 Binds Critical Residue for Crystal Packing

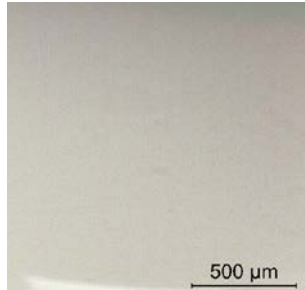
Galectin-10 crystal



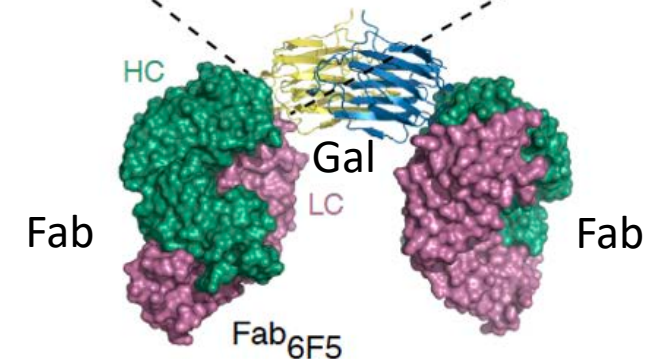
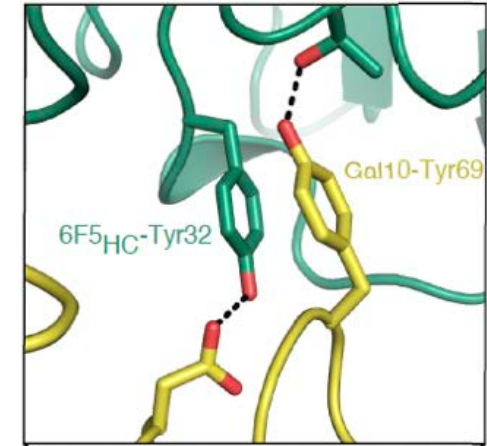
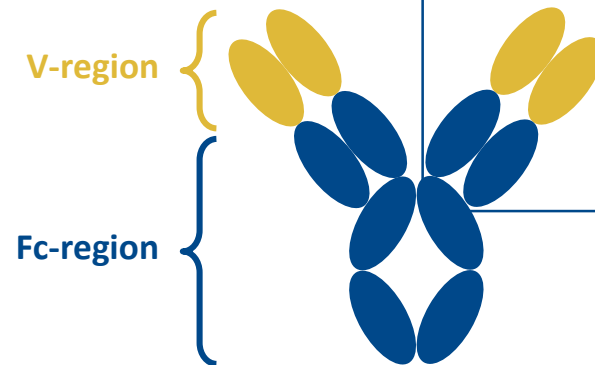
GAL10-WT



GAL10-Tyr69GW



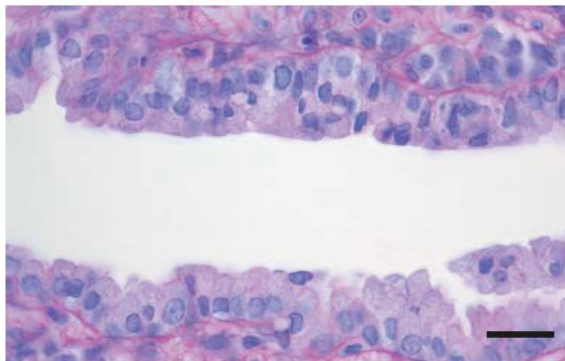
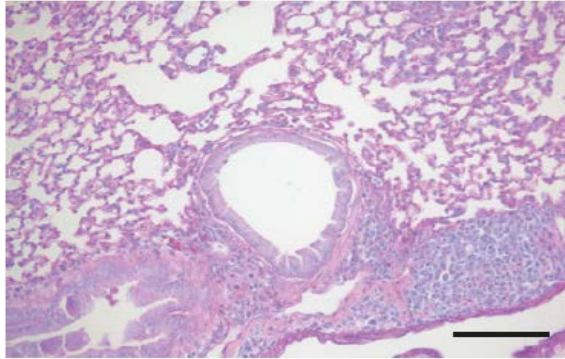
ARGX-118 binds
Galectin-10 Tyr69



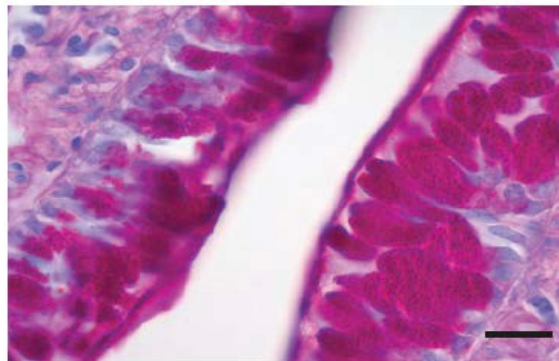
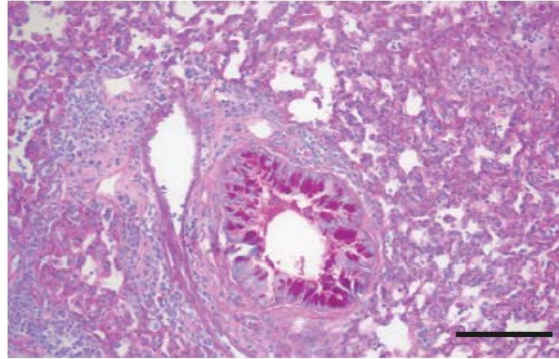
Targeting Tyr69
solubilizes the crystal

ARGX-118 Reverses Goblet Cells Metaplasia Caused by Charcot-Leyden Crystals in Mice

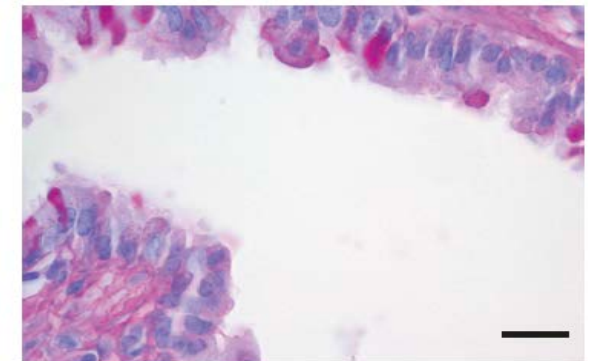
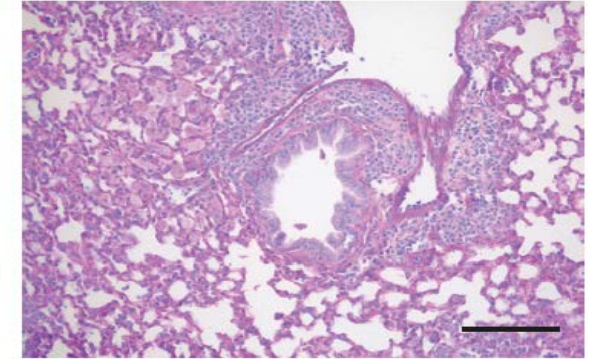
**HDM
Isotype Ab**



**HDM + CLC
Isotype Ab**

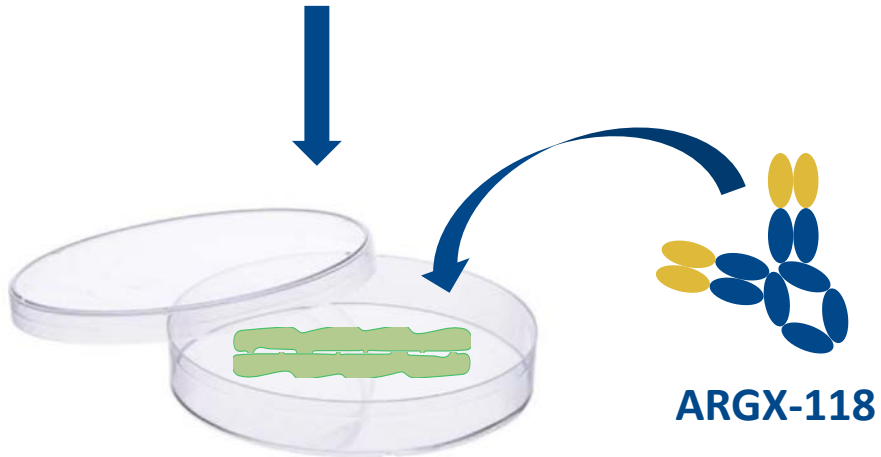
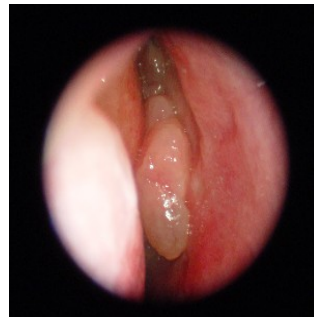
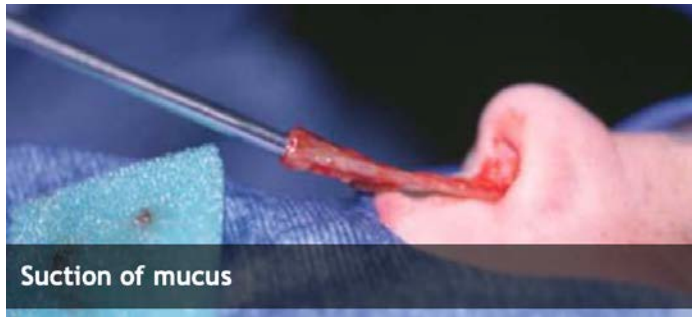


**HDM + CLC
ARGX-118**

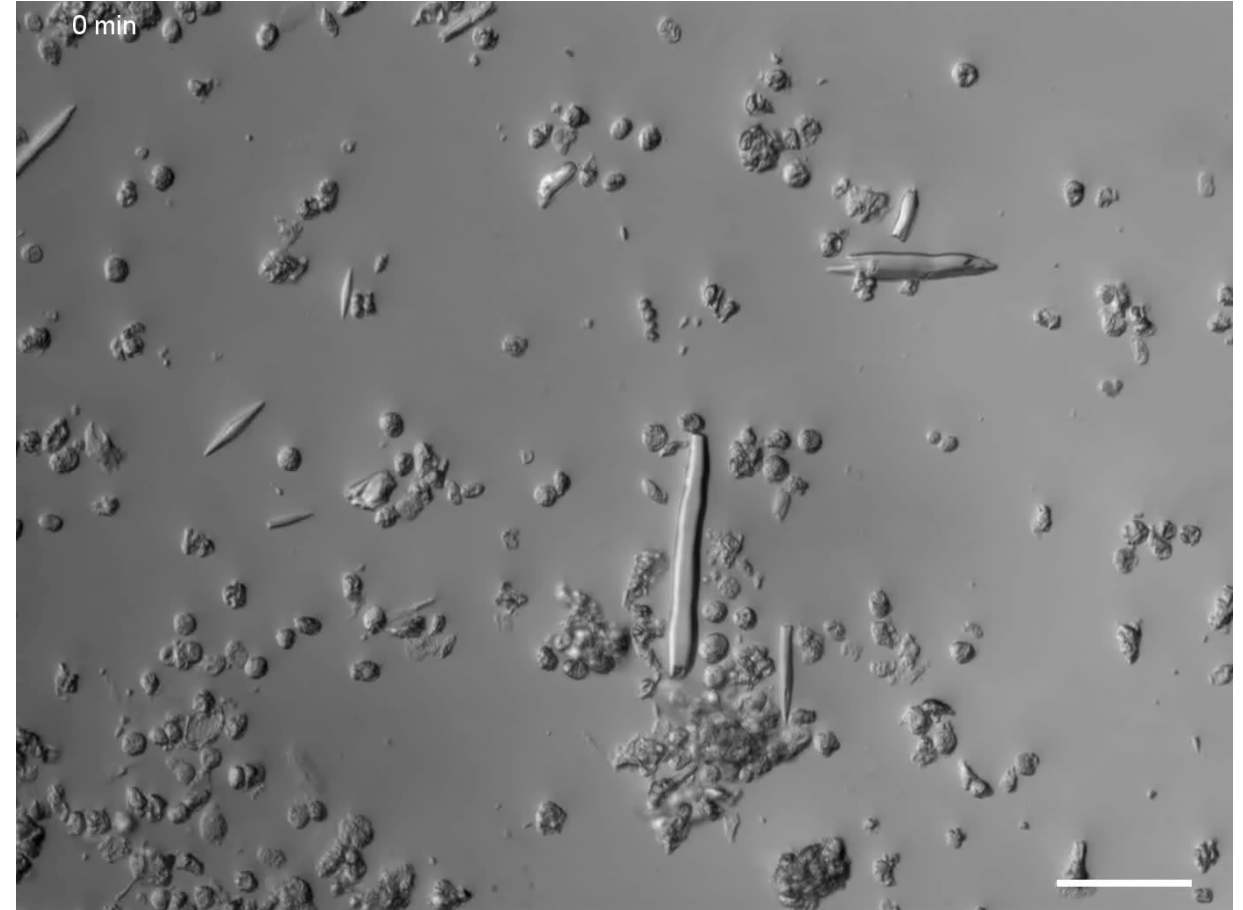


ARGX-118 Dissolves Charcot-Leyden Crystals Within Native Patient Mucus

Allergic mucin protruding from nasal sinus

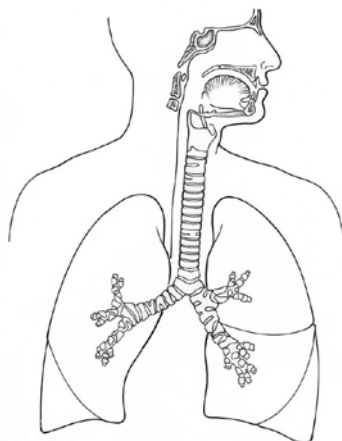


Persson et al., *in press*



Video shot over 16 h

Multiple Crystallopathies Induced by Charcot-Leyden Crystals



ARGX-118 targets Gal-10,
The only component of Charcot-Leyden Crystals (CLCs)

Charcot-Leyden crystals (CLCs) shown to:

- Stimulate innate and adaptive immunity
- Act as a type 2 adjuvant when administered to the airways
- Stimulate mucus production

Biology rationale supports potential role of CLCs as disease-drivers in eosinophilic diseases like asthma

Lung attack or asthma exacerbation

- Acute intratracheal treatment for asthma attack by bronchoscopy
- Chronic Nebulization for persistent plugging
- MoA: reverse mucus plugging

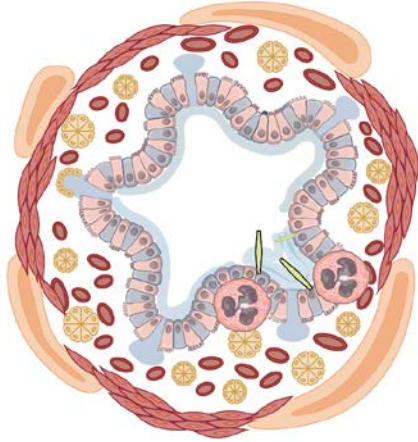
ABPA

- Chronic treatment
- Nebulization
- MoA: block type 2 immunity trigger (IgE) plus mucus plugging

CRS with Nasal Polyps

- Chronic treatment
- Nebulization
- Following sinus surgery
- MoA: block type 2 immunity trigger plus mucus stickiness

Mucus Plugging Requires an Interventional Procedure or Chronic Inhaled Therapy

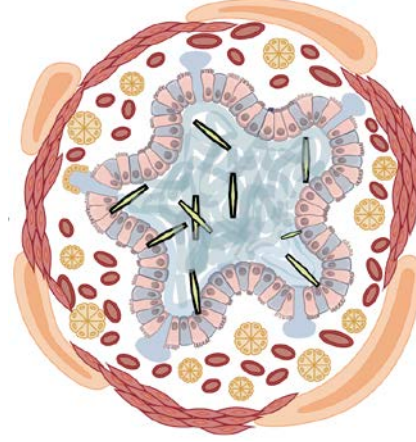


**Bronchus is narrowed
Exacerbation**

Prevention by biologicals



Mepolizumab
Benralizumab
Dupilumab



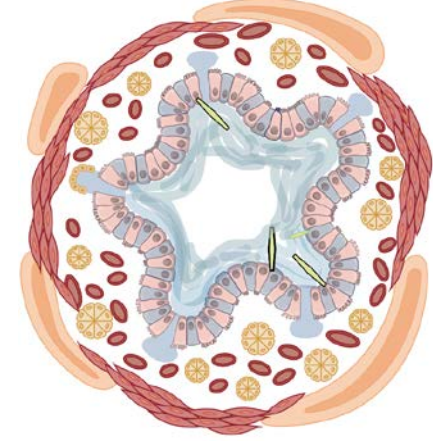
**Acute occlusion
by mucus plugging**



Bronchoscopy
Mucolysis



Potential for
ARGX-118



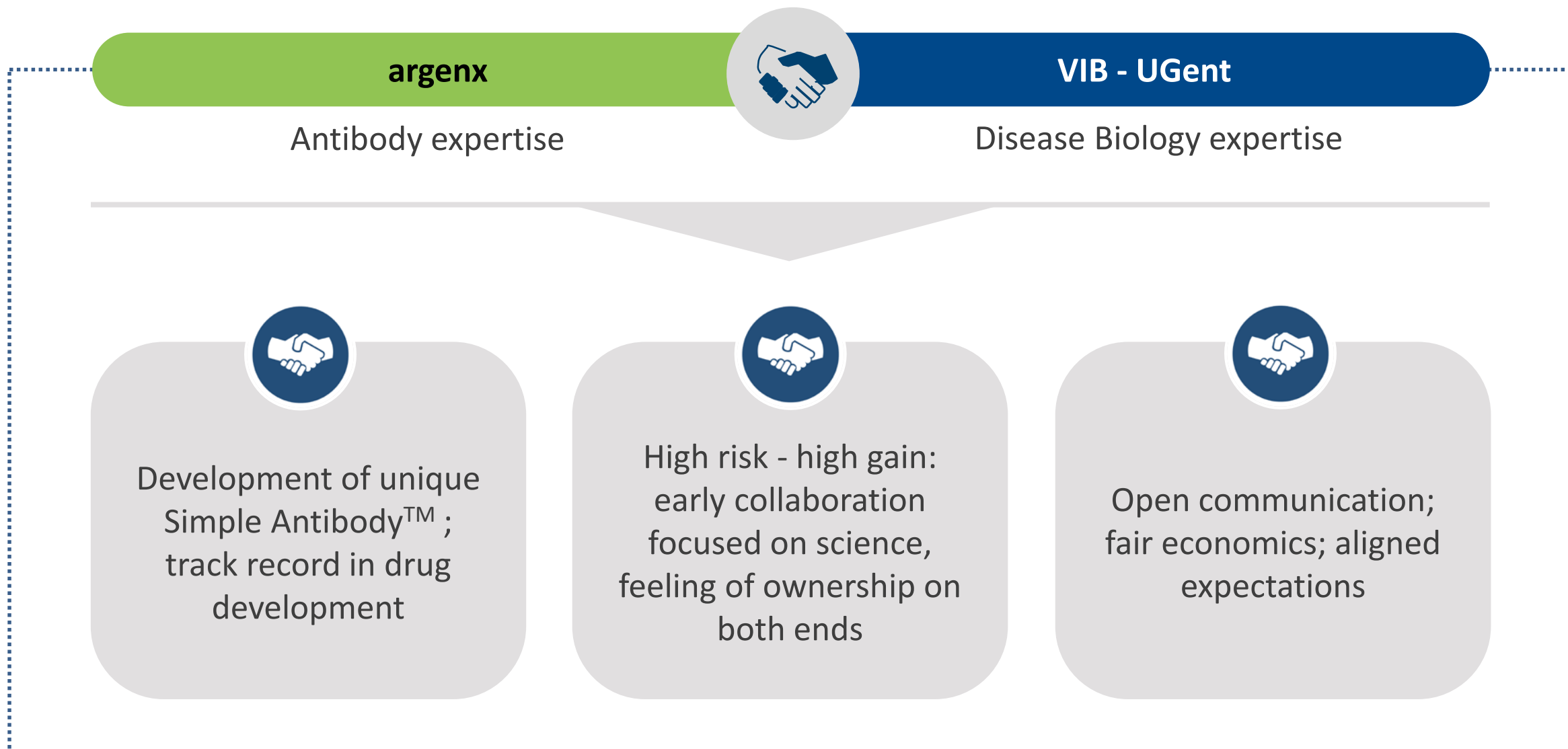
**Healing with persistent
airway obstruction caused
by residual mucus**



Inhaled mucolytic
therapy



Potential for
ARGX-118





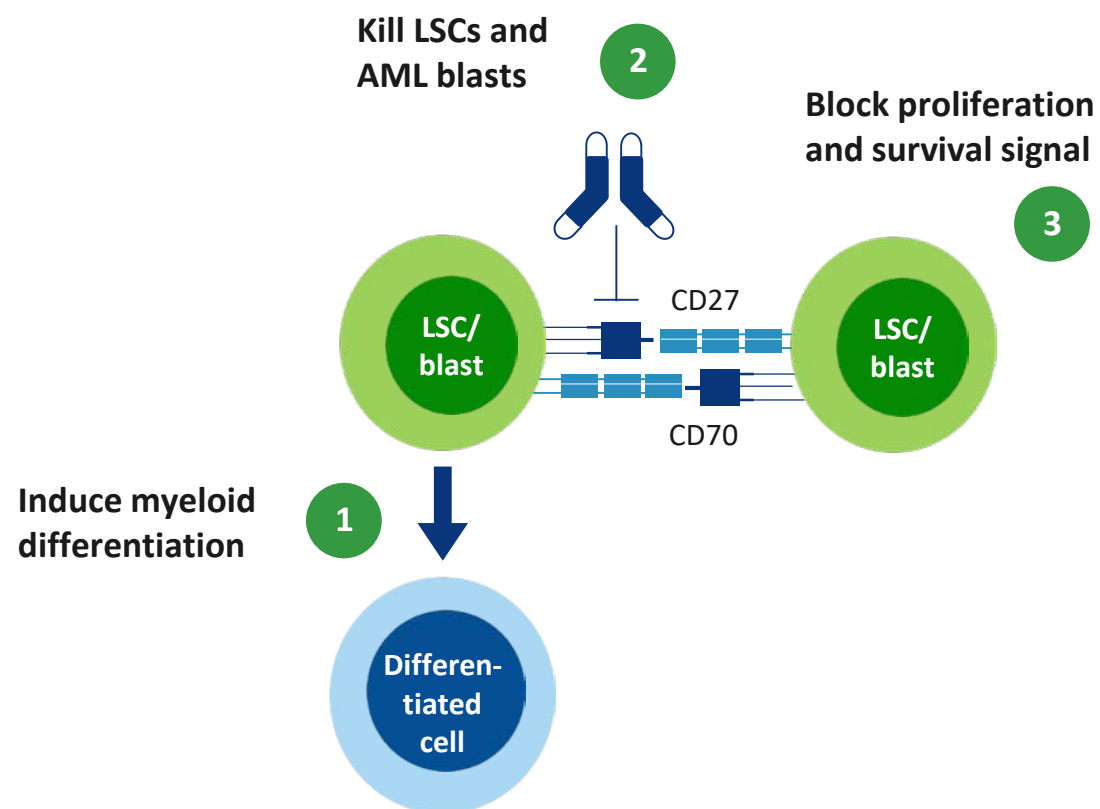
Cusatuzumab Development Plan

Wim Parys | Chief Medical Officer



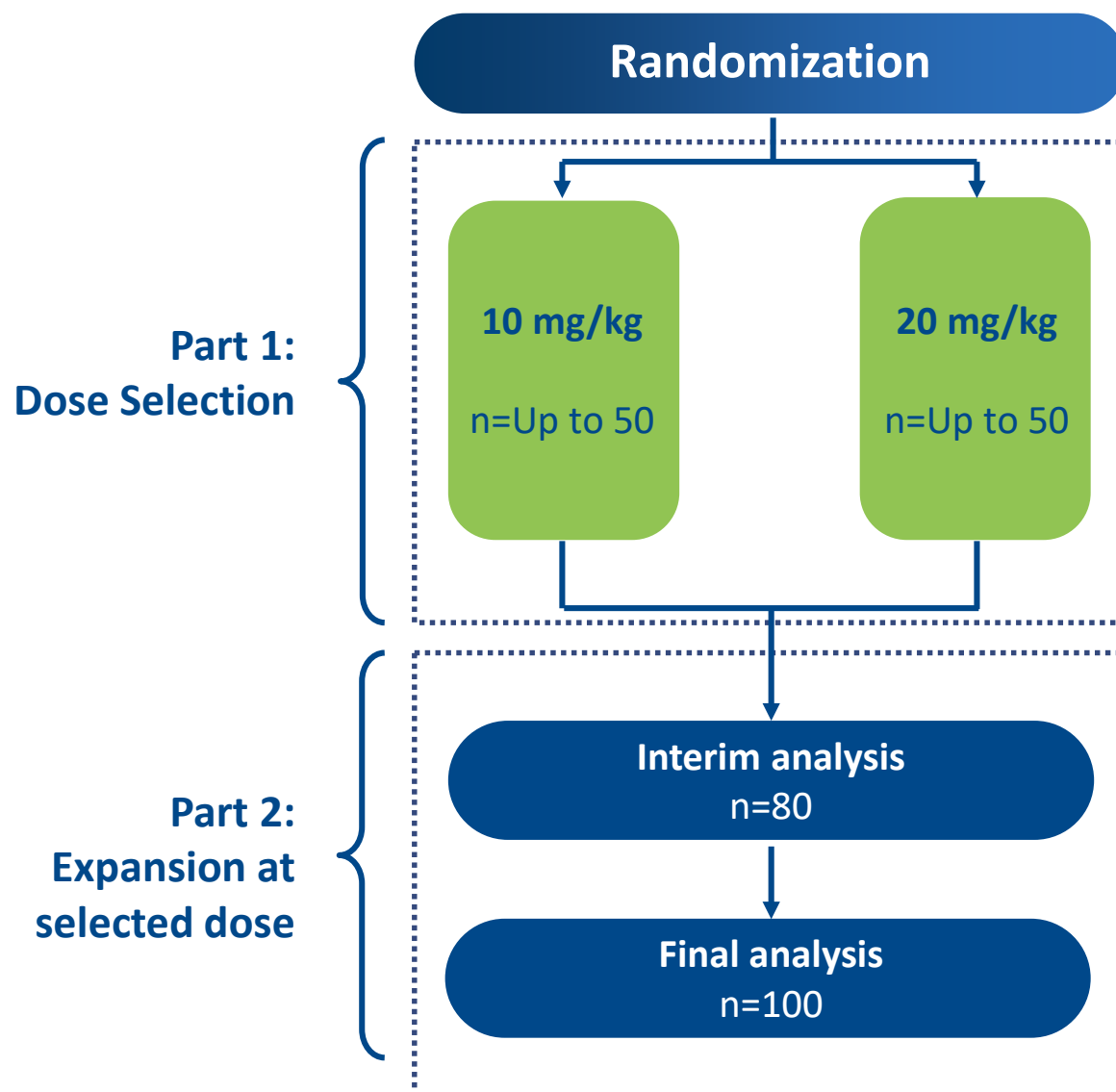
- MD from KUL (Belgium)
- Janssen Research Foundation (BE) - developed Reminyl™ / Razadyne™ for Alzheimer's Disease
- Head of Development at Tibotec (BE), established Tibotec Inc. (USA) - developed and launched Prezista™, Intelence™ & Edurant™, three innovative HIV drugs
- Head of Development of Janssen's Infectious Diseases and Vaccines therapeutic - discovery and development of novel medicines for HIV, Hepatitis C (Incivo™, Olysio™/Sovriad™), TB (Sirturo™) and respiratory viral diseases
- Head of R&D of Janssen's Global Public Health group, responsible for a portfolio including programs in HIV, TB, other mycobacterial infections, Dengue and Malaria

Cusatuzumab Induces LSC Differentiation



- Novel target and mechanism of action¹
- Biologic with potential for combination therapy and extended dosing²
- Inhibition of CD70 pathway leads to differentiation and death of leukemia cells³
- Single-agent biologic activity in AML
- Phase 1/2 study: 92% response rate with 10 of 12 patients showing a complete response (CR/CRi) after Cusatuzumab treatment in combination with azacitidine (AZA) in newly diagnosed AML patients⁴
- IAP Program with Bern University – Prof. Ochsenbein

Phase 2 Clinical Study in Newly Diagnosed, Unfit AML Patients



Combination therapy: Cusatuzumab + Azacytidine

Patient Population: Newly diagnosed AML patients unfit for intensive chemotherapy (total n= up to 150)

Primary Objective: To determine the efficacy (CR rate)

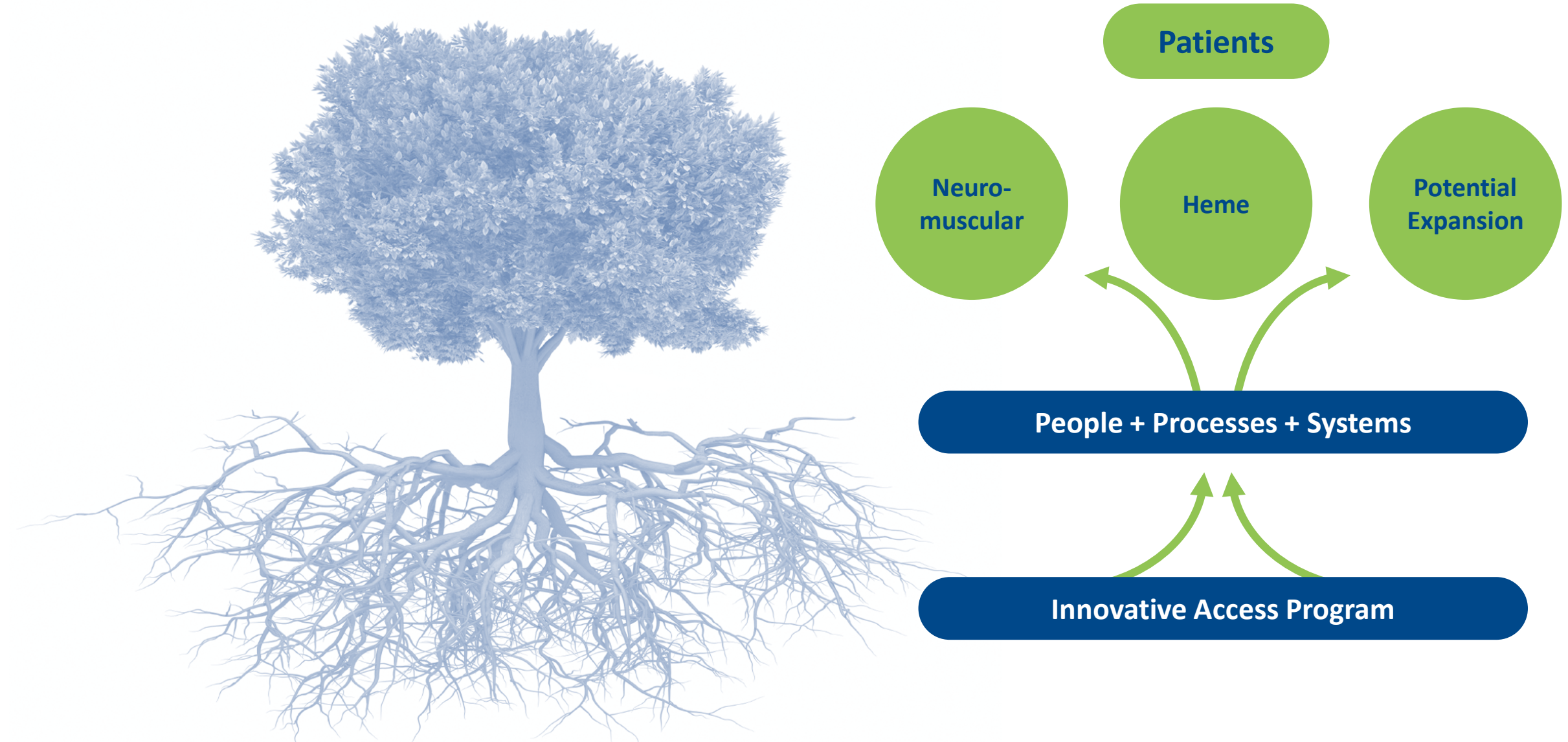
Secondary Objective: To assess

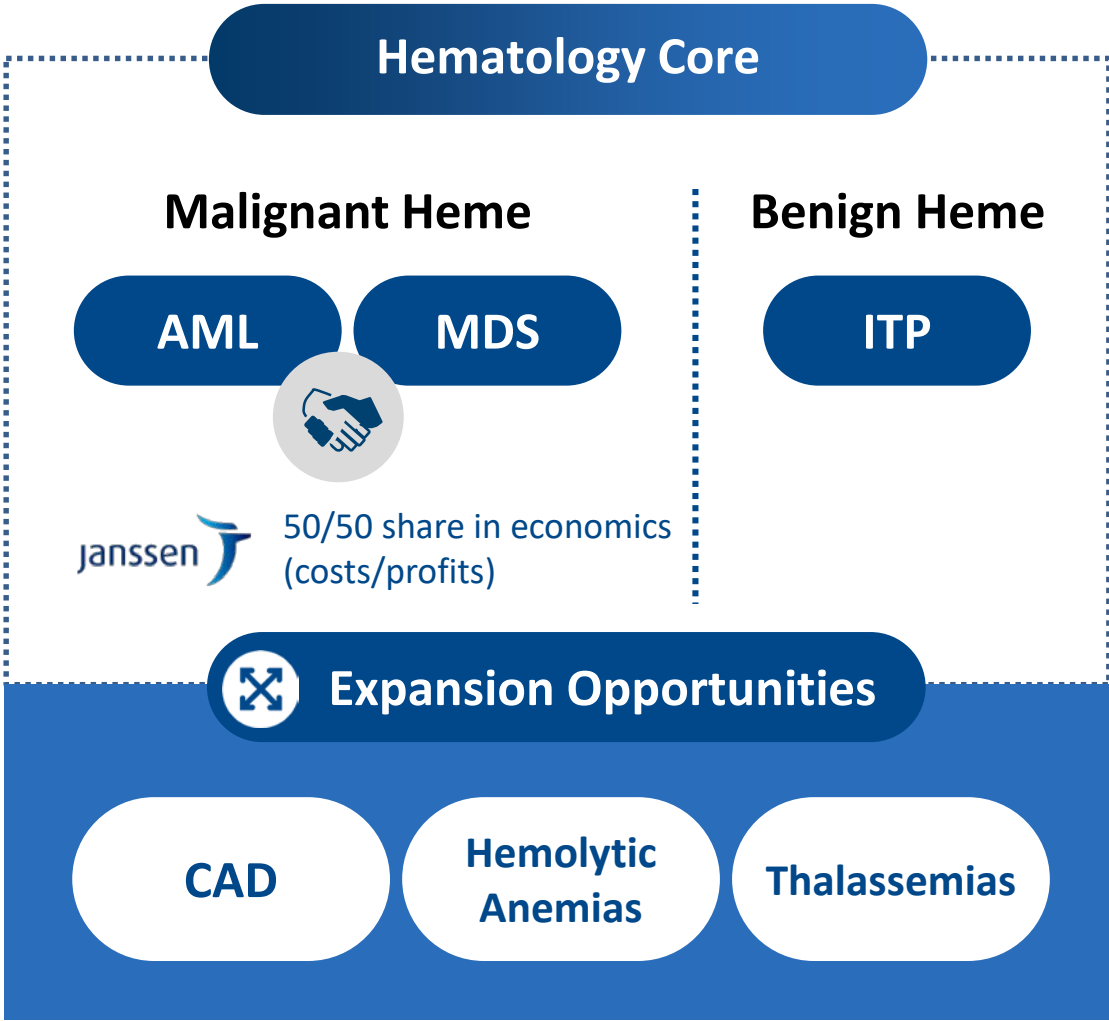
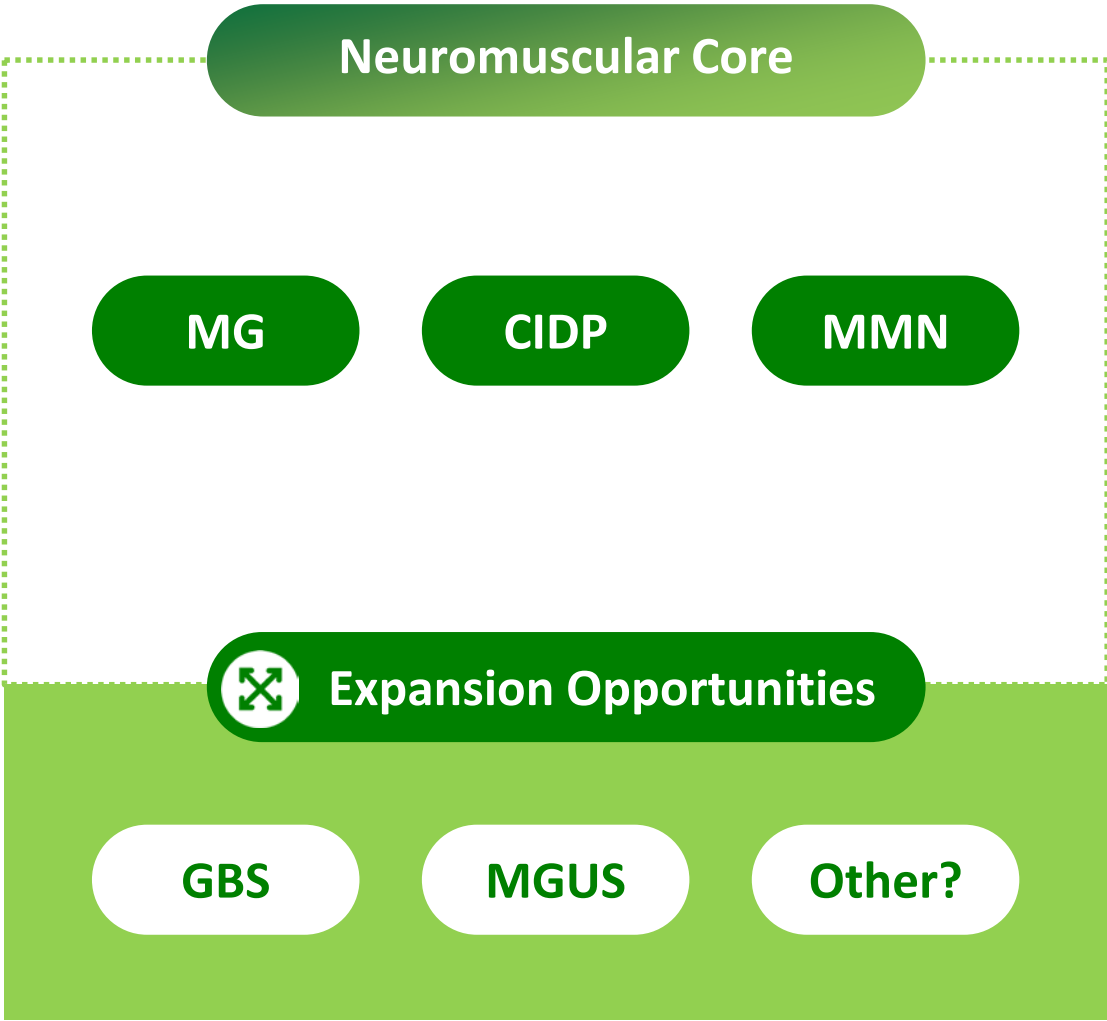
- ORR = (CR + CRh + CRi)
- Time to response and duration of response
- Event-free survival
- Overall survival
- Safety
- PK/immunogenicity
- MRD

Anticipate start Phase 2 study in US: mid 2019

argenx 2021: Global Commercial Vision

Keith Woods | Chief Operating Officer





New Horizons: Complement or IgG-mediated Disease in Kidney and Skin

IgAN

AMR

Lupus Nephritis

Membranous Neph

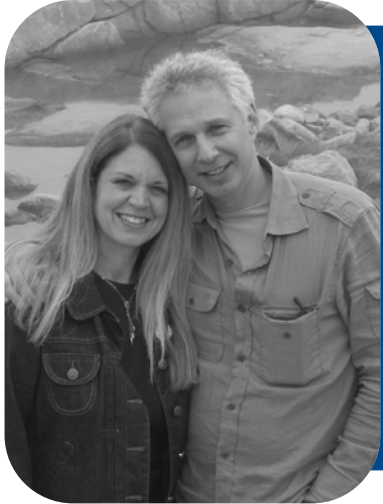
Myositis

PV

Bullous Pemphigoid

Neuromuscular and Hematology Opportunities

High unmet medical need



Dave, 66, lives with CIDP

“The weakness was the most difficult symptom to deal with. Simple activities like walking to my car became an exhausting task.”



Lauren, 32, lives with generalized MG

“I also know that the treatment is mostly a band aid at this point; it’s not solving my issues, but rather just patching them.”



Barbara, 61, lives with ITP

“I wasn’t on medication for most of my childhood. We kept in touch with doctors, but we didn’t get my platelet counts regularly. Since there was a great lack of treatment options, my parents thought, *what is the use in knowing?*”

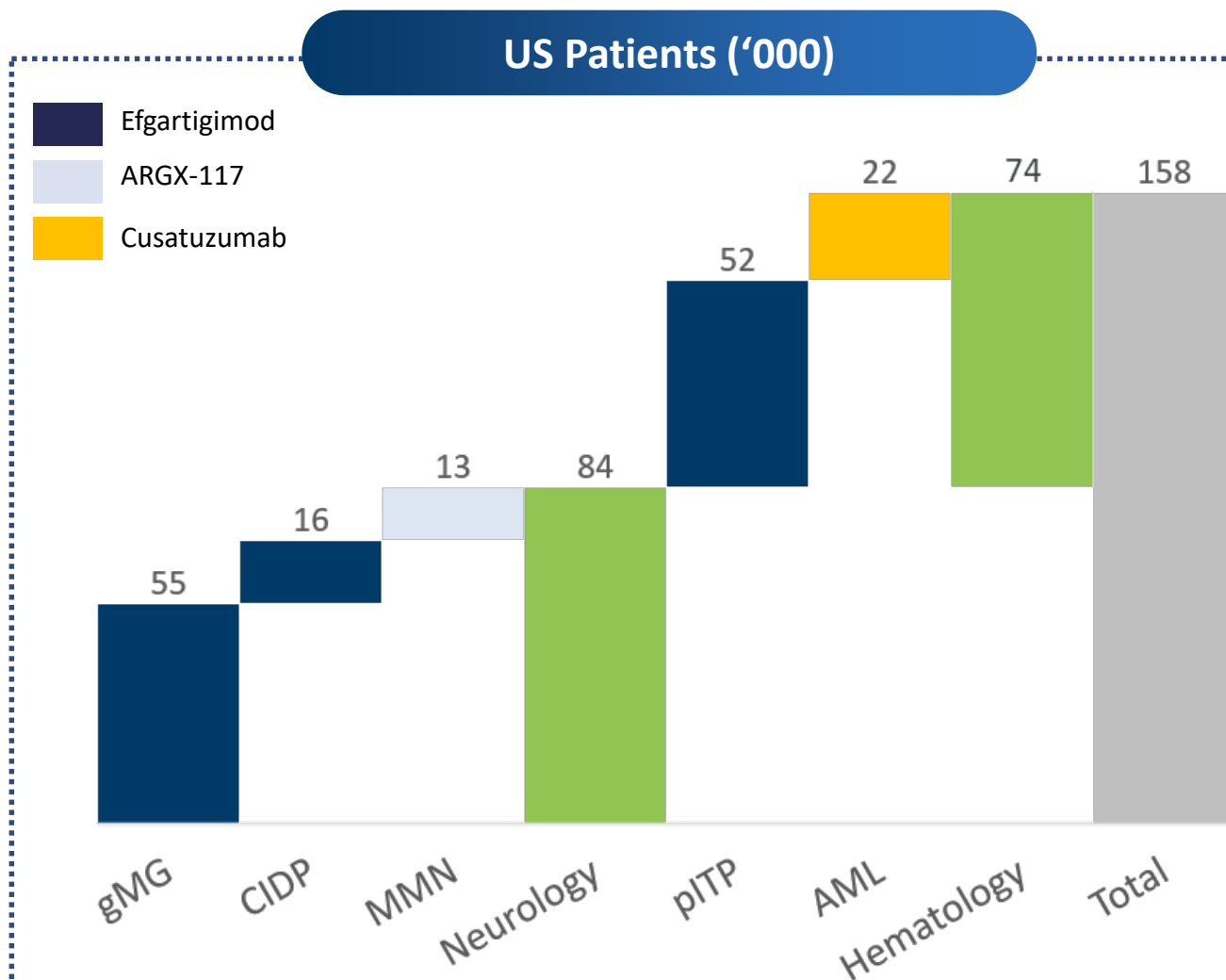


Sharon, 70, lives with pemphigus vulgaris (PV)

“The specialist was at a loss and couldn’t give me a diagnosis. He basically shrugged his shoulders, wished me good luck, and closed the door behind me.”

Pipeline-in-product assets create scaling opportunity across our franchises

To add sources



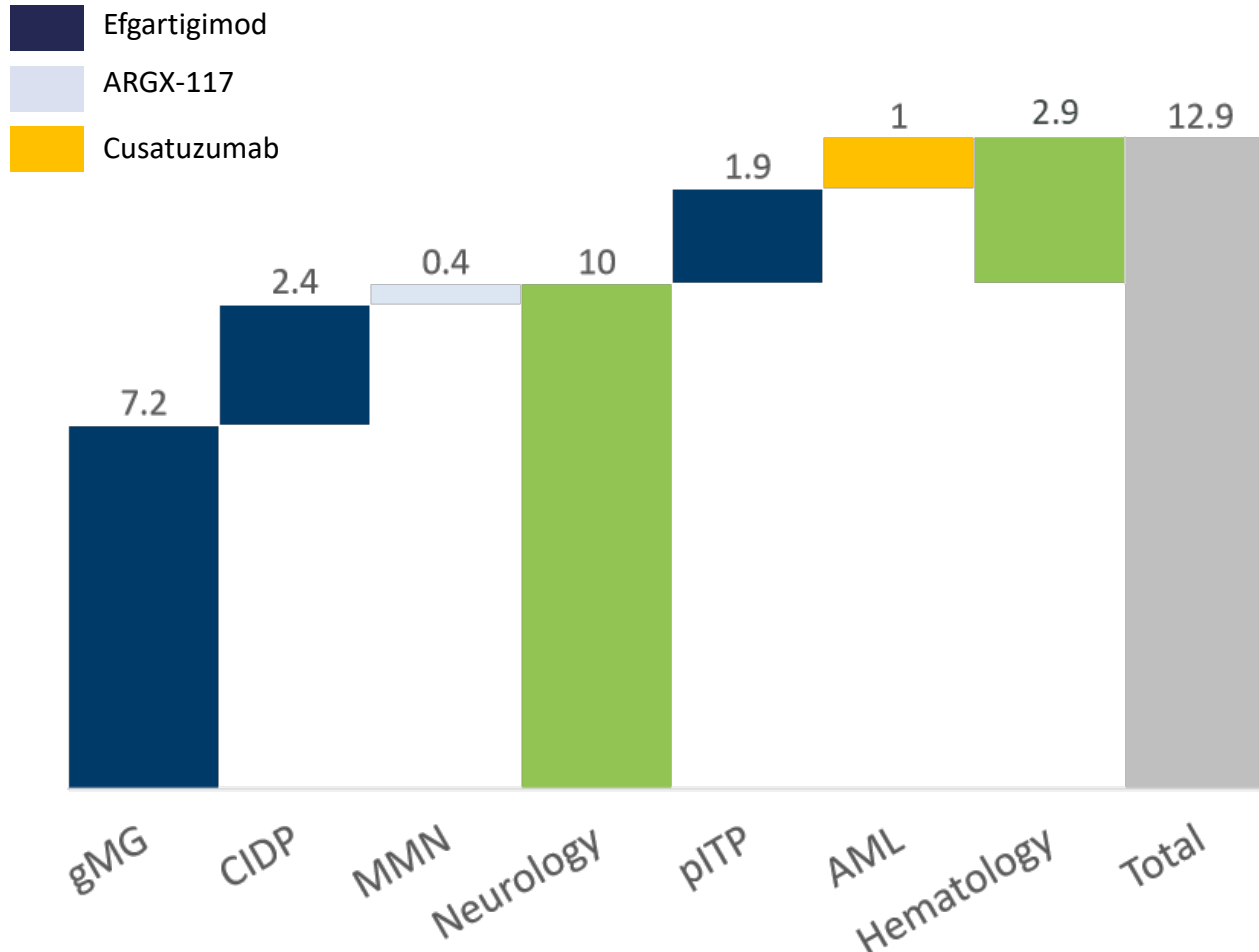
Global opportunity

- Indication prevalence comparable to US across other key geographies (EU / JP), meaning **~370,000 patients** in US / EU5 / JP for current indications
- Neurology / hematology opportunities are growing at double digit percent overall
- Will expand and announce new indications for efgartigimod and ARGX-117 **[in Q1 2020]**

Pipeline-in-product assets create scaling opportunity across our franchises

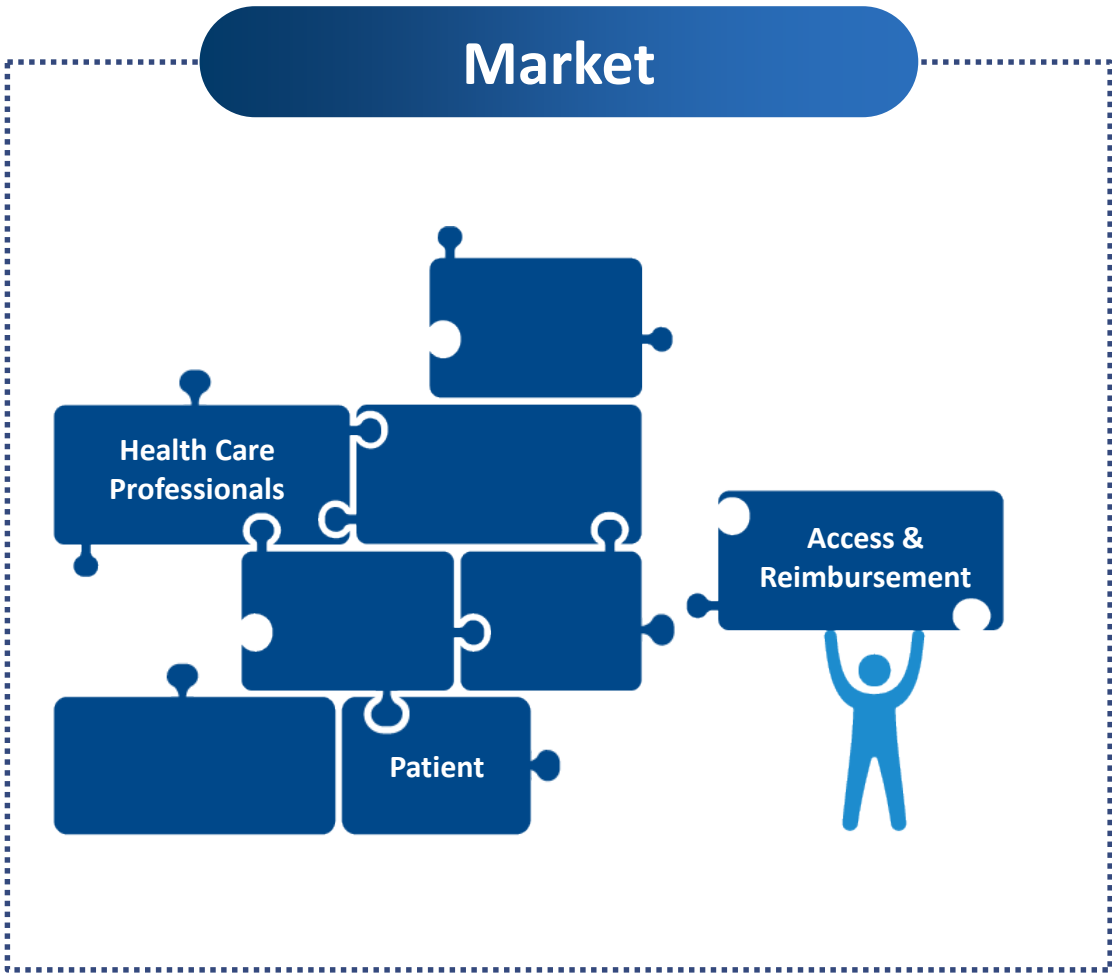
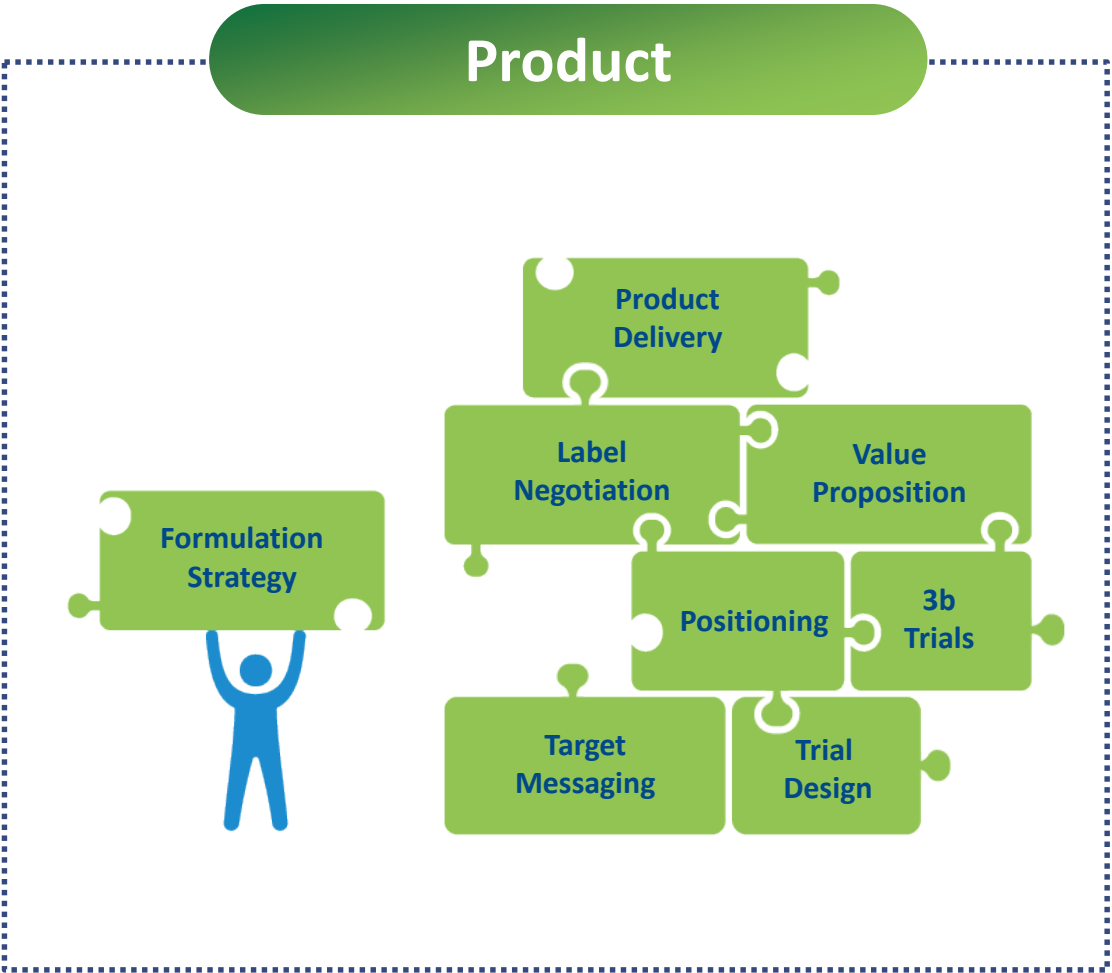
To add sources

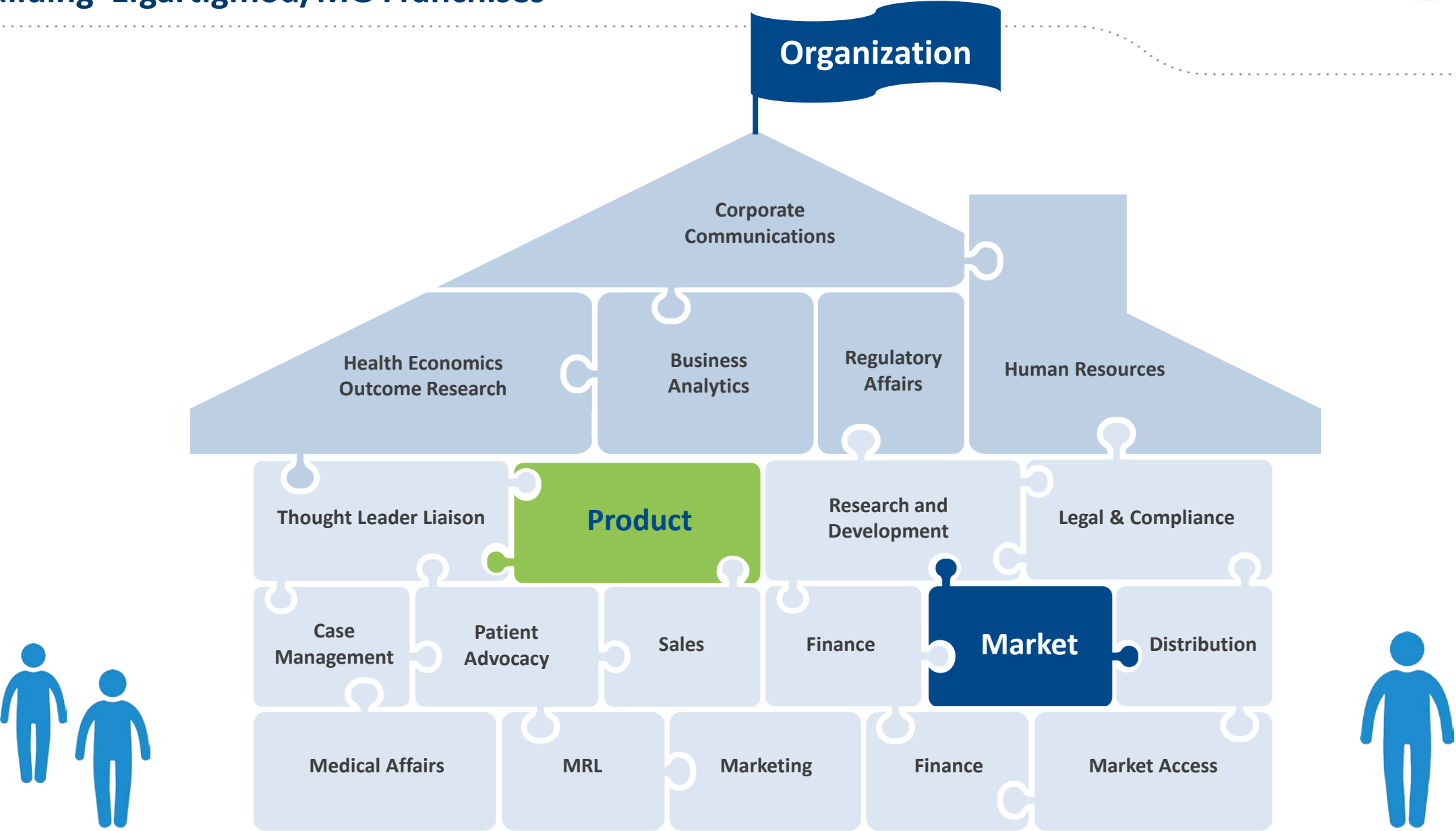
Global Opportunity (\$ Bn)



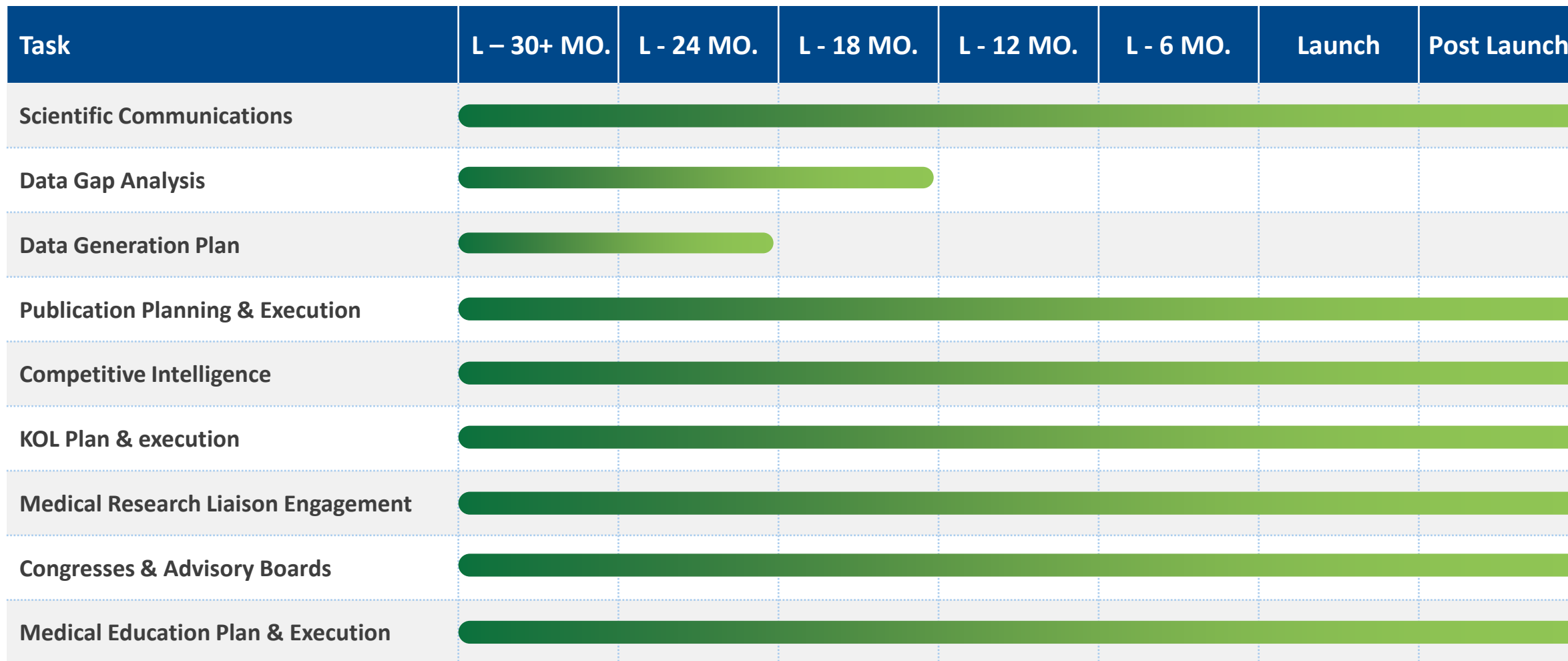
Global opportunity

- Indication prevalence comparable to US across other key geographies (EU / JP), meaning **~370,000 patients** in US / EU5 / JP for current indications
- Neurology / hematology opportunities are growing at double digit percent overall
- Will expand and announce new indications for efgartigimod and ARGX-117 **[in Q1 2020]**

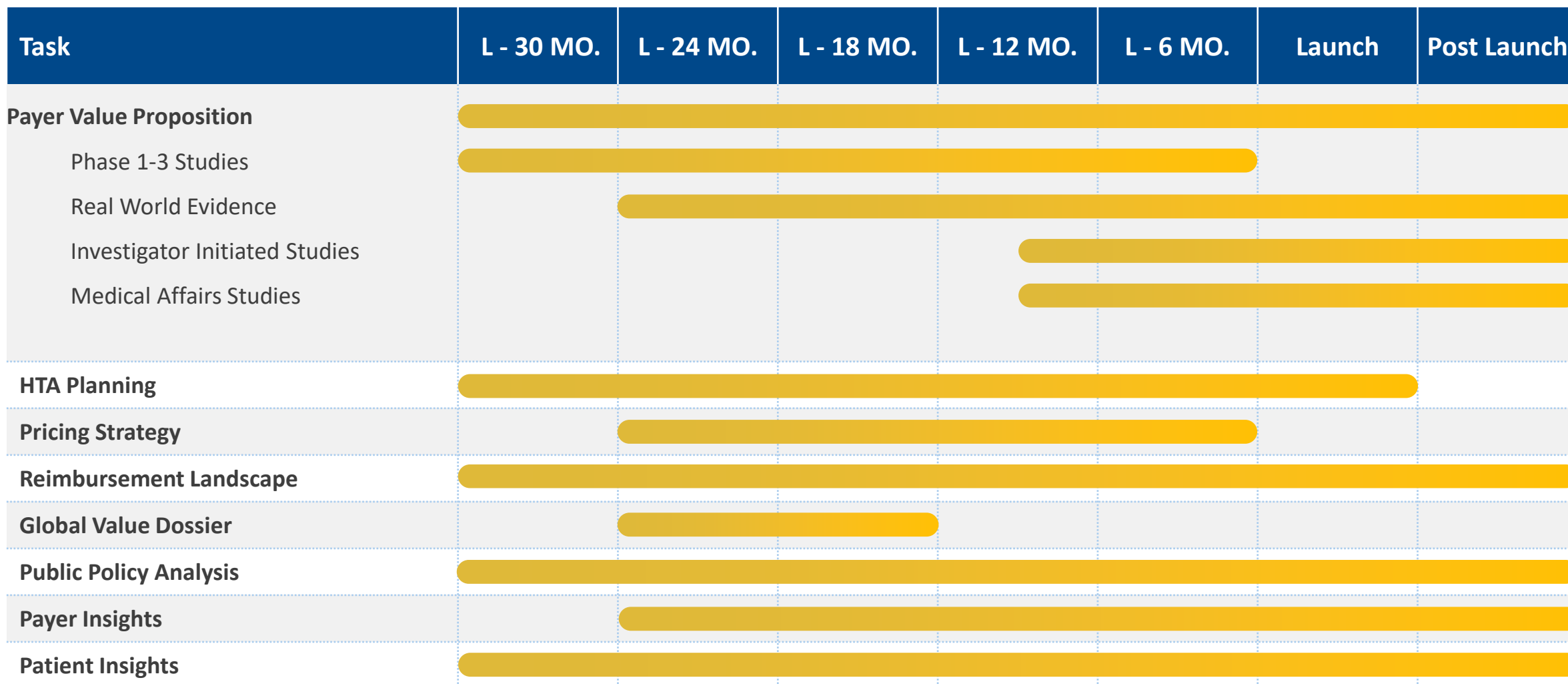




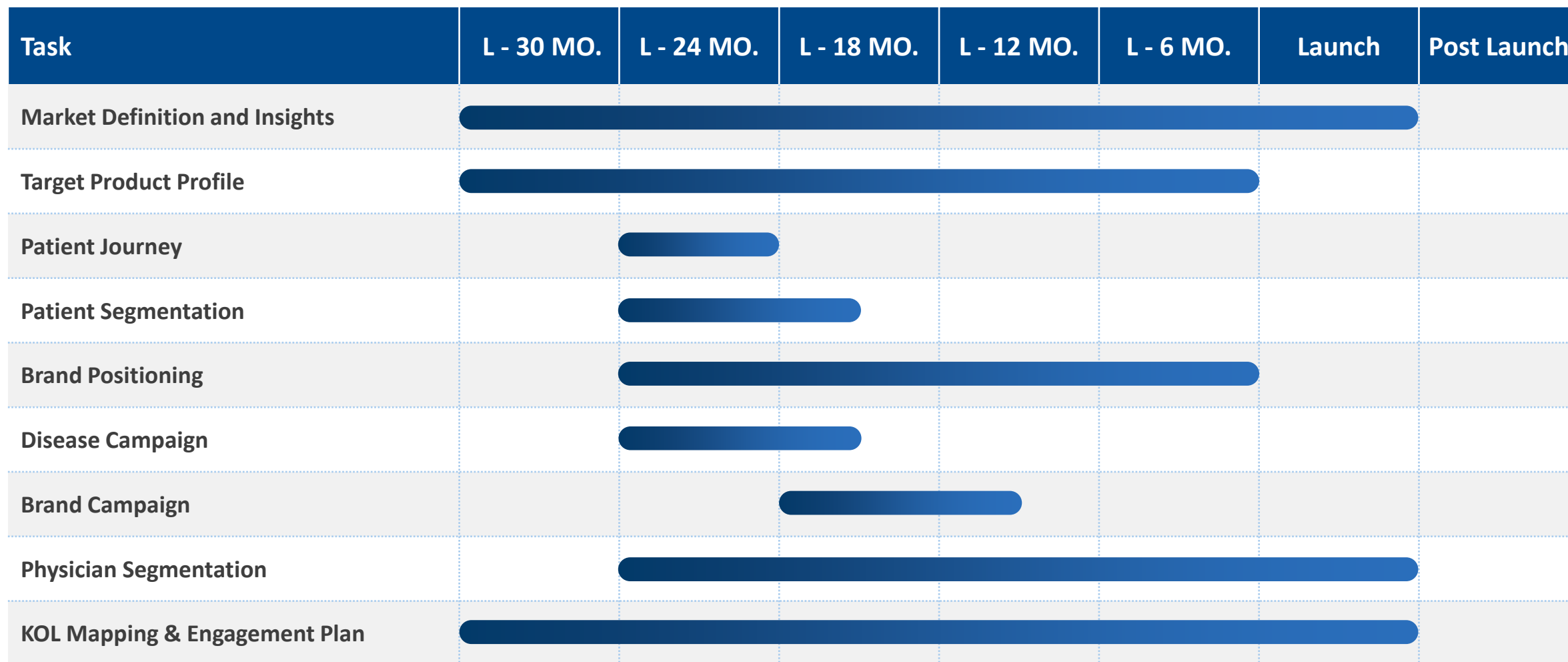
Ensuring Adequate Data and Insights



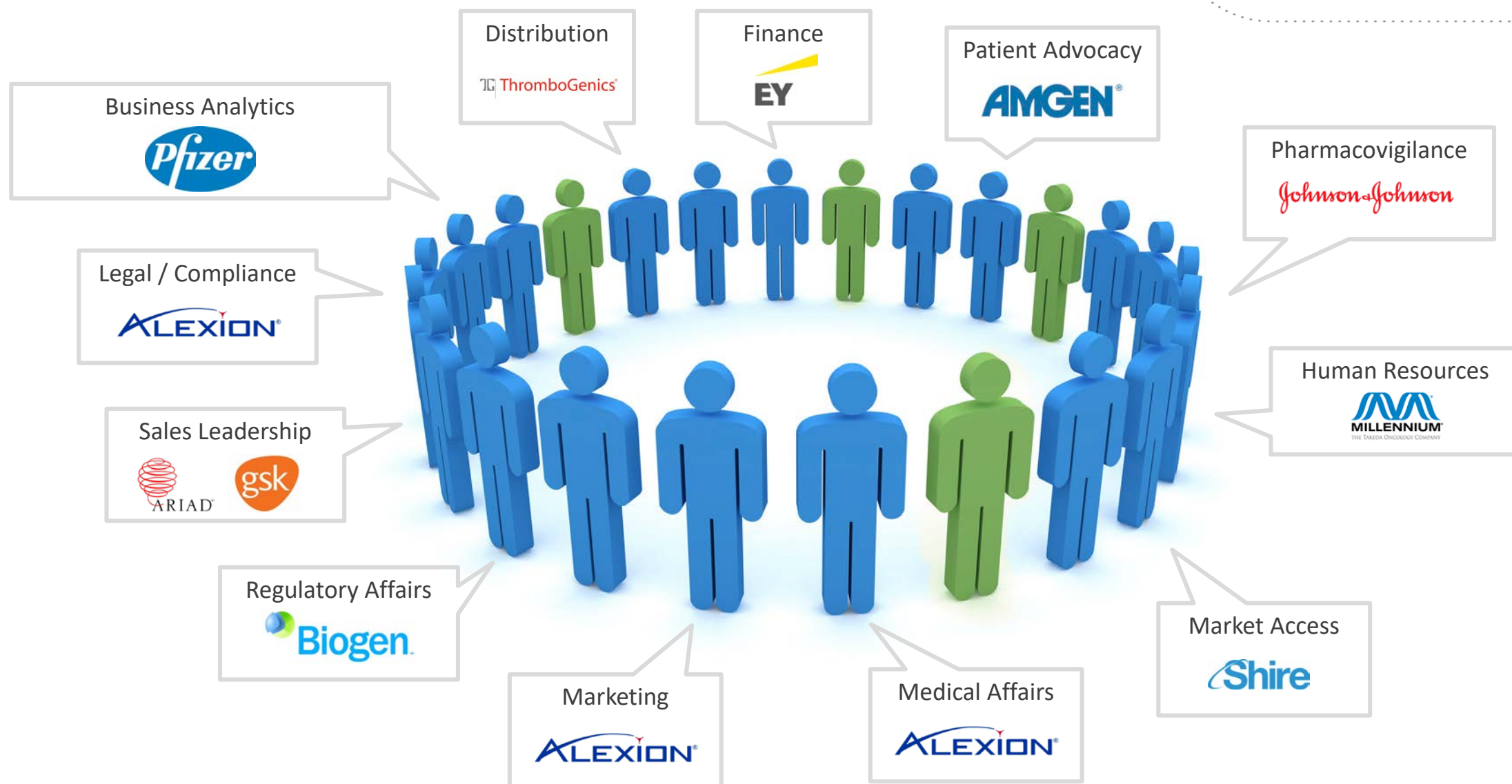
Ensuring Access Before the Launch



Commercial Preparation Well in Advance



Building the Right Organization



Thank you!

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