

Creating innovative antibodies for cancer & severe autoimmune diseases

J.P. Morgan 33rd Annual Healthcare Conference, 11-14 Jan 2016

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Introduction

Creating value from highly differentiated antibodies



Rich pipeline with multiple proprietary programs

- Oncology & severe autoimmune diseases
- 4 products in clinical phase



Strategic alliances with premier pharma partners

- Industrial partners
- Innovative Access Program



Competitive technology suite

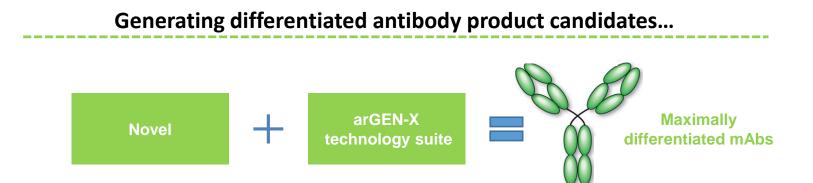
- Antibodies with differentiated modes of action
- Based on llama immune system and unique Fc engineering



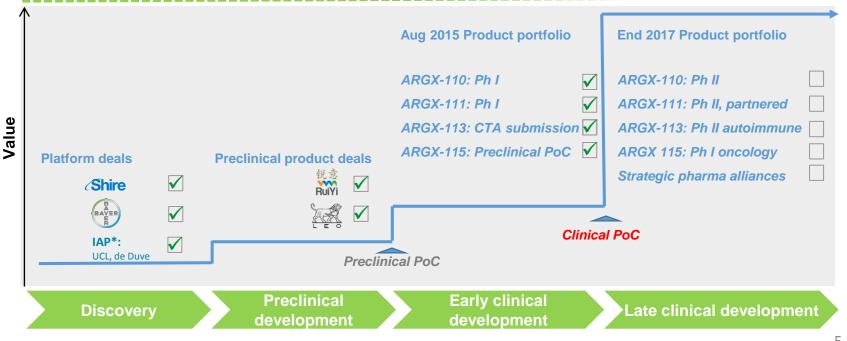
Financial strength

- Strong cash position (€ 46.6M/\$ 49.3M Sept 2015)
- € 1.4B potential future income from partnerships

Business model maximizing shareholder value



... towards Phase II value inflection point

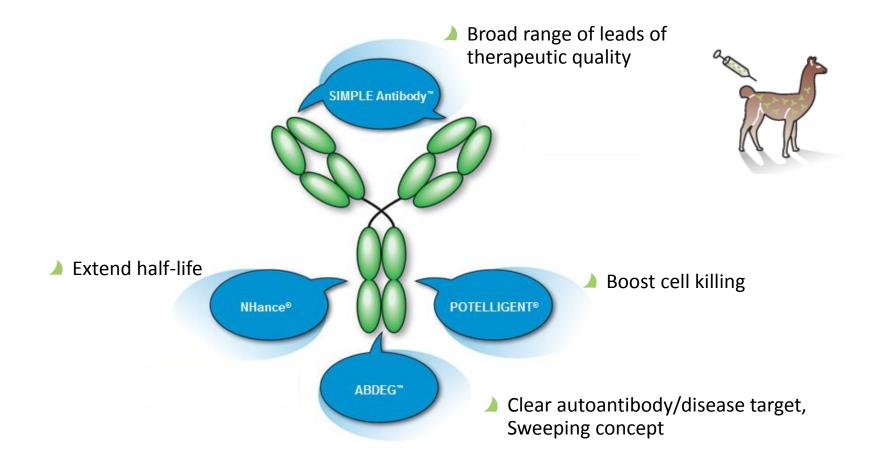


Rich pipeline approaching major value inflection points

		Drug Candidate	Indication	Preclinical	Phase 1	Phase 1b	Owner- ship
		ARGX-110 (CD70)	Blood cancers			\rightarrow	
•	Cancer immunotherapy	ARGX-110 (CD70)	Solid tumors			\rightarrow	
		ARGX-115 (GARP)	Cancer immunotherapy				Who
•	Cancer metastasis	ARGX-111 (c-MET)	Solid tumors Blood cancers			\rightarrow	Wholly owned
		ARGX-113 (FcRn)	Autoimmunity Myasthenia gravis		\rightarrow		ned
•	Autoimmune diseases	ARGX-110 (CD70)	Autoimmunity				
	uiseases	Discovery	Autoimmunity Cancer	multiple			
		锐意 RuiYi	Autoimmunity Cancer				
•	Non-dilutive income	CShire	Undisclosed				Partnered
		LEO	Chronic inflammation				ered
		BAYER	Undisclosed				

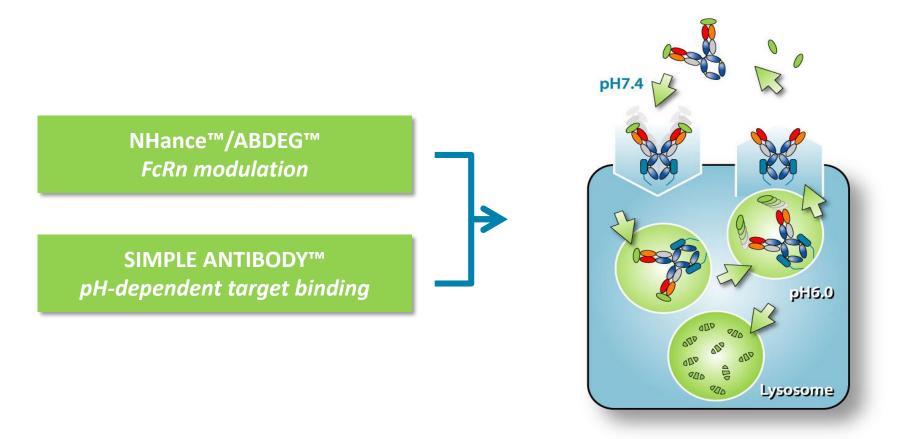
Creating innovative antibodies

Unique technology platform: multiple modes of action



- SIMPLE Antibody[™]: Unlock novel and complex targets
- NHance[™], ABDEG[™], POTELLIGENT[®]: Enhance SIMPLE Antibody[™] leads
- Multiple layers of IP protection in place until 2028-2033 (excluding any PTE)

Continuous technology innovation – antibody mediated target clearance



• Clinical potential for indications:

- with high circulating target concentrations
- which require fast target clearance
- e.g. inflammatory cytokines (receptors)



What is autoimmune disease?



- Immune system attacks own organs
- Tissue destruction by autoantibodies
- Common diseases include: multiple sclerosis, lupus, rheumatoid arthritis, psoriasis, myasthenia gravis

Why target autoimmune diseases?

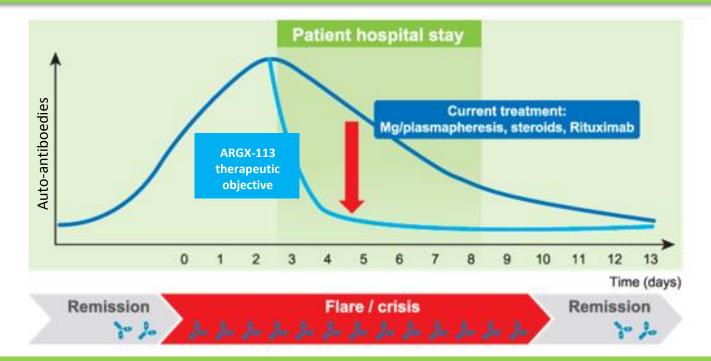
- 10% of population suffers from autoimmune diseases
- Antibody therapy used for rheumatoid arthritis, multiple sclerosis & psoriasis
- ARGX-113 targets severe autoimmune diseases

Current treatment

- High dose corticosteroids and broad immunosuppressive agents: severe side effects
- IVIg or Plasmapheresis: incomplete effect, slow onset of action

ARGX-113: Potential breakthrough in autoimmune disease

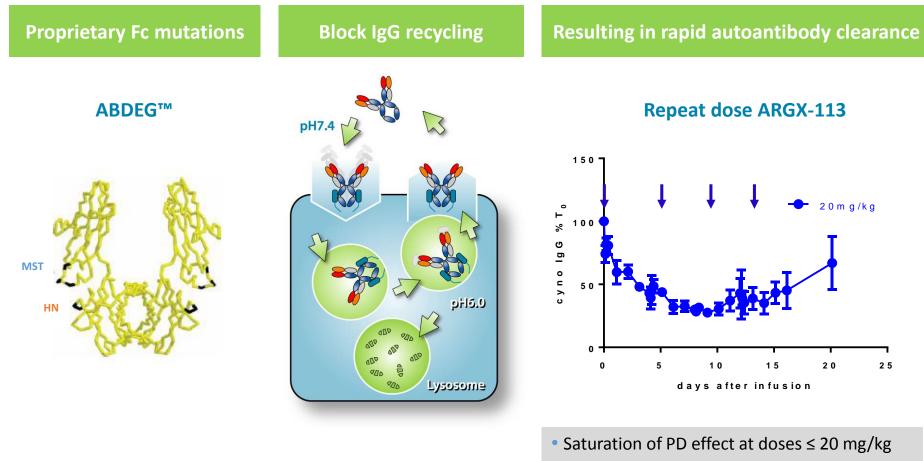
ARGX-113 addresses acute autoimmune flares more effectively



Clinical rationale for targeting autoantibody clearance

Treatment	Plasmapheresis in human *	ARGX-113 in primate **
Decrease in antibody levels (%)	62.8	75
Decrease in disease score (%)	60.8	N/A
Speed of onset	slow	fast

ARGX-113: How it works - Antibody clearance capability



• Repeat dosing > single dose



Clinical rationale for targeting autoantibody clearance

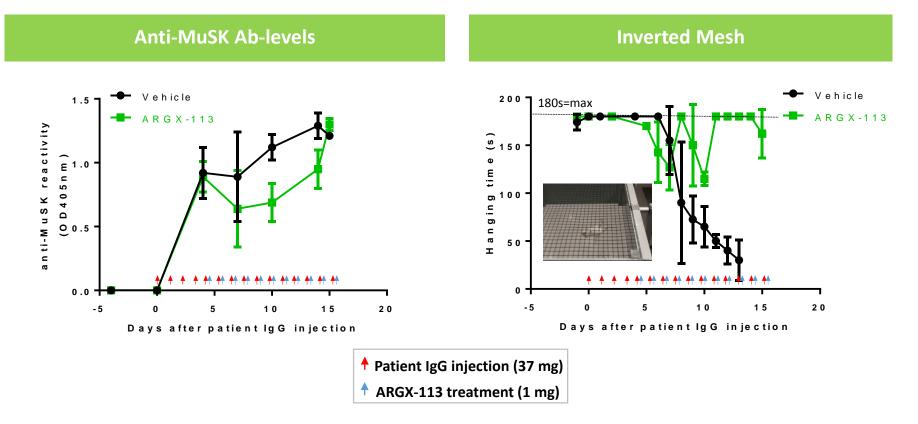
Myasthenia gravis autoantibody levels and disease score following therapy

Treatment*	Plasmapheresis	Immunoadsorption	IVIg	
Decrease in antibody levels (%) after treatment	62.2 ± 6.3	55.1 ± 3.2	28.9 ± 3.8	
Decrease in disease score (%) after treatment	60.8 ± 3.5	42.4 ± 4.2	23.8 ± 3.7	
Clinical efficacy rate after 14 days**	12/15	7/10	6/15	
Duration of hospital stay (days)	12.80 ± 0.28	13.50 ± 0.50	16.00 ± 0.50	

* Comparison between 3 cycles of Plasmapheresis/Immunoadsorption every 24h-48h and 5 cycles of IVIG every 24h (Liu et al, 2009) ** Clinical ly effective if disease score has improved by >50% 14 days after treatment

- Degree of autoantibody reduction: correlates with clinical improvement & reduced hospital stay
- Similar observations reported for other autoimmune disorders

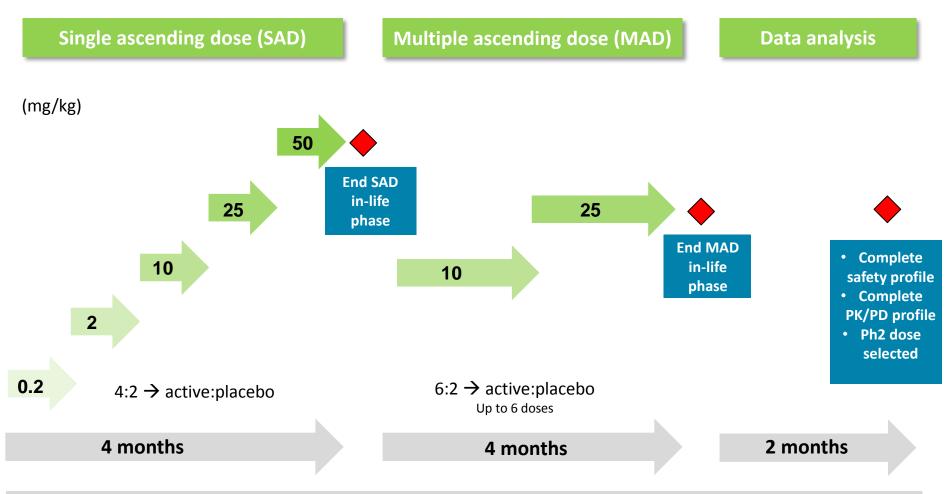
ARGX-113: *In vivo* PoC MuSK-MG transfer model – therapeutic setting



- Daily injection of MuSK-MG patient IgG causes Myasthenia gravis in NOD/SCID mice
- ARGX-113 (1mg) administration:
 - reduces autoantibody levels (anti-MuSK Ab-levels)
 - stabilizes disease: measured by inverted mesh (see graph) and grip strength (not shown)

ARGX-113: Phase 1 study design & interim safety read out

Double-blinded, placebo-controlled study in healthy volunteers

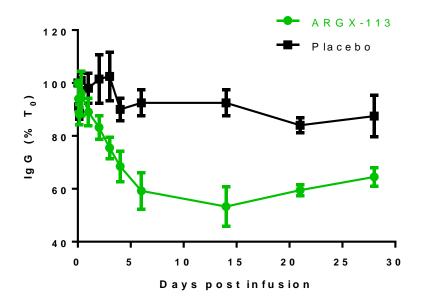


- SAD completed according to plan (38 healthy volunteers in total)
- Favourable safety and tolerability profile observed (no serious adverse events reported)

ARGX-113: PD marker readout for SAD

Double-blinded, placebo-controlled study in healthy volunteers



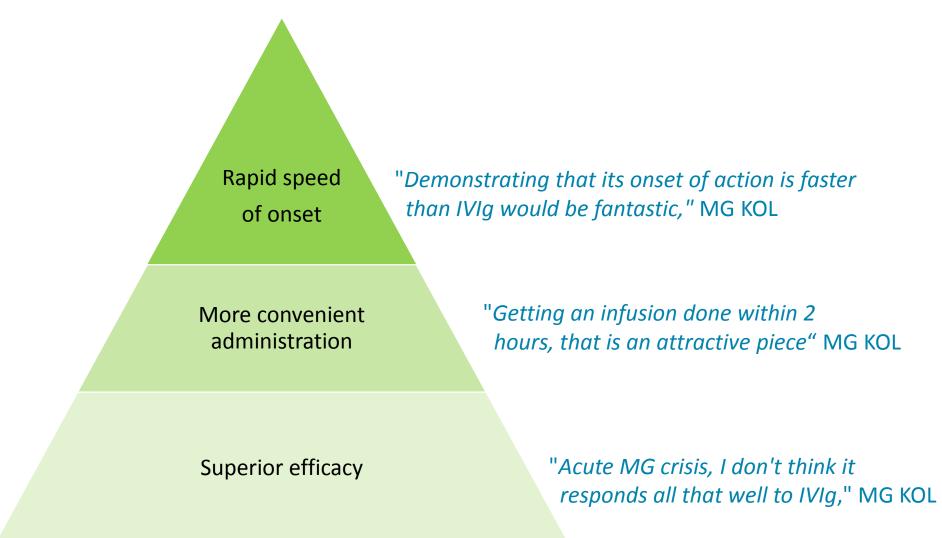


	ARGX-113 vs. IVIg [*]
Speed of IgG reduction	>>>
Level of IgG reduction	>>
Duration of PD effect	>

* Extrapolated based on literature data

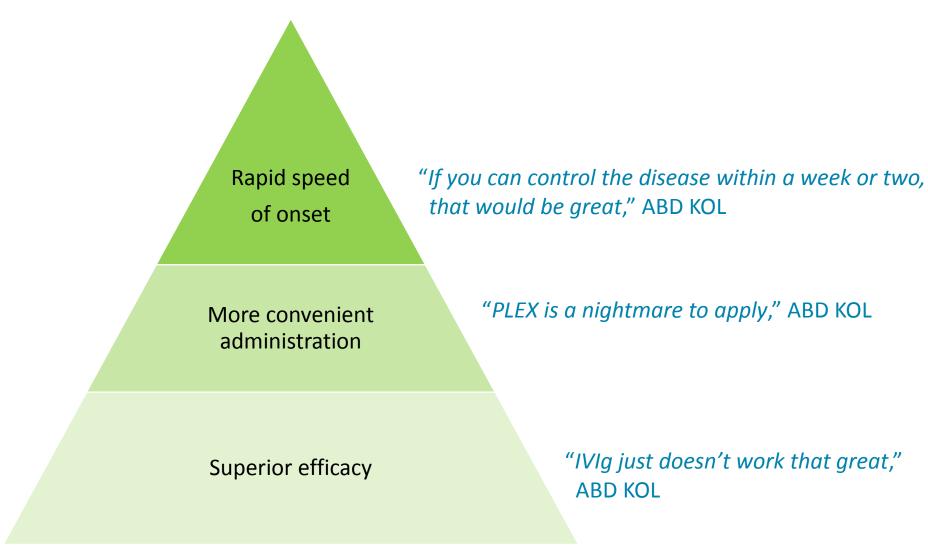
- Single 2h infusion: rapid reduction of IgG, not affecting IgM/IgA levels
- Maximal PD effect (~50% IgG reduction) as of 6 days after infusion
- Low IgG levels maintained for >1 week

ARGX-113 vs. IVIG/PLEX: Key differentiators for MG



Better tolerated, shorter procedure with limited follow-up

ARGX-113 vs. IVIG/PLEX: Key differentiators for ABD



Better tolerated, shorter procedure with limited follow-up

ARGX-113: What next?

Next steps

Clinical Status

- First healthy volunteer study ongoing (SAD)
- Multiple Ascending Dose study (MAD)

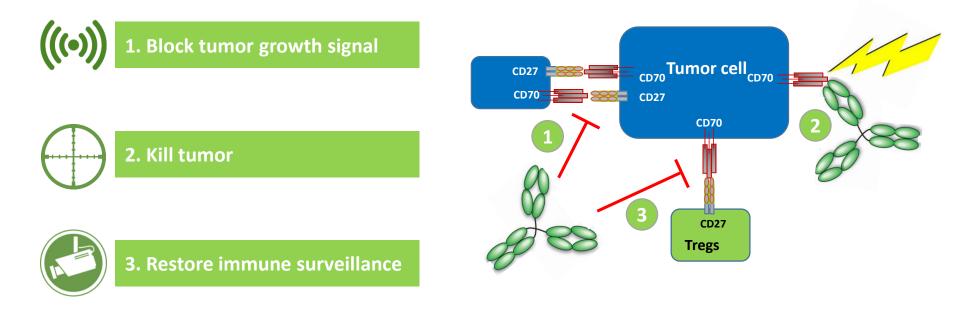
Market potential

Benchmark therapeutic treatments

- IVIg: annually > \$ 4B (autoimmune diseases approx. 50%)
- IVIg: \$ 79K/cycle
- Benlysta[®]: \$ 35K/year
- Plasmapheresis: \$ 101K/cycle
- Xolair[®] annual sales exceed \$ 800M

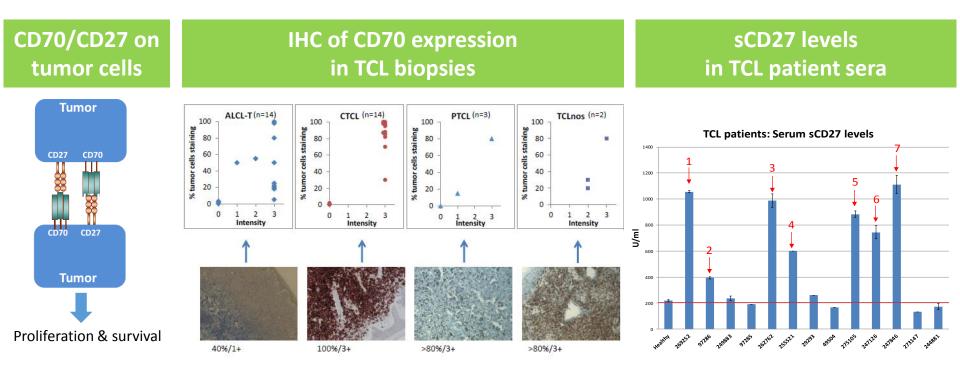


ARGX-110: 3 distinct modes of action





ARGX-110: CD70/CD27 pathway highly relevant in TCL

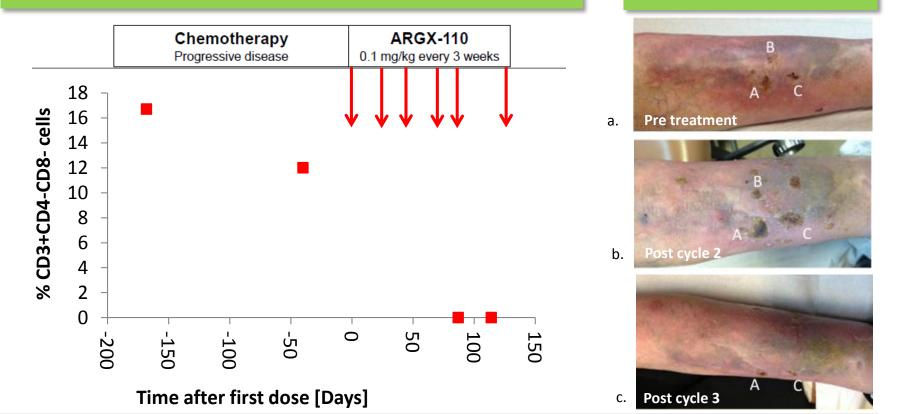


- CD70 strongly overexpressed across different TCL types
- Elevated sCD27 levels suggest strong pathway activity in TCL

ARGX-110: Proof of biological activity in 2 patients with Cutaneous T-Cell Lymphoma (Sézary-Syndrome)

Blood compartment cleared from malignant cells (





78 year old woman with CTCL-SS; refractory to multiple lines of chemotherapy

- ARGX-110 treatment (0.1 mg/kg every 3 weeks)
 - Complete response in blood compartment
 - Stabilized disease in skin lesions (see image a. & c.) & lymph nodes
- Elimination of CD70 positive Sézary cells from blood in 2nd CTCL-SS patient anecdotes 24

ARGX-110: Proof of biological activity in patient with Cutaneous Follicular Helper T Cell Lymphoma

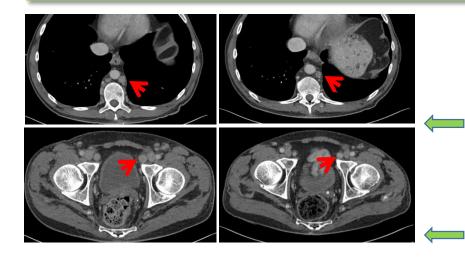
Stable disease in skin lesions

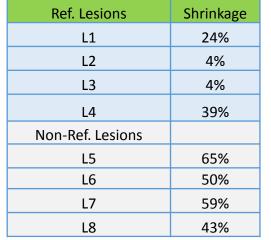
- 55 year old male with cutaneous T_{FH} lymphoma
- Disease in skin
- Treated with Interferon and PUVA
- ARGX-110 treatment (5 mg/kg)
 - Stabilized disease up to cycle 3
 - After 3 cycles: skin lesions decreased in number and size
 - Patient already 10 cycles on study (6 months)

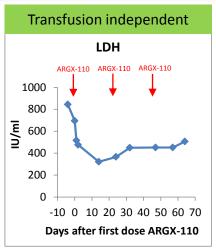


ARGX-110: Proof of biological activity in patient with Angioimmunoblastic T-Cell lymphoma (AITL)

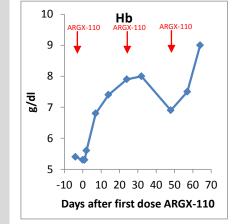
Tumor shrinkage in lymph nodes







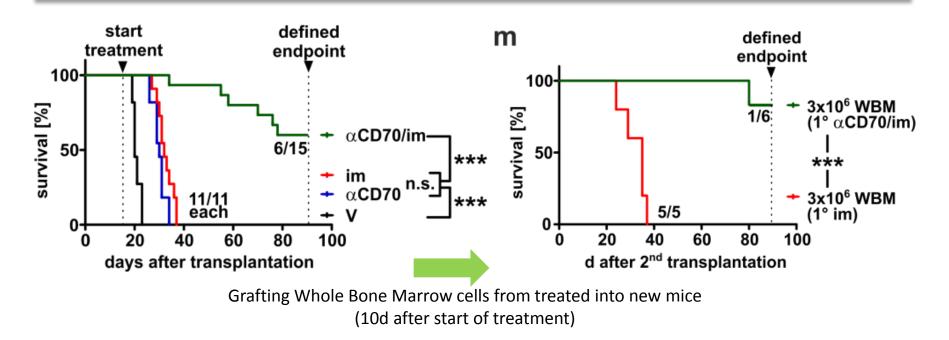
- 61 year-old male AITL patient with severe Hemolytic Anemia
 Refractory to chemotherapy: CHOP + Etoposide/Cyclosporine
 - /Bendamustine Transplant
- After 2 doses of ARGX-110 (5 mg/kg)
 - Clinical response in lymph nodes
 - Reference lesions shrink between 4-40 %
 - Clear tendency for all other lesions to shrink
 - Clinical response in blood
 - Transfusion independent
 - Coomb positive → Coomb negative after 1 cycle



- Patient anecdote -

ARGX-110/BCR-ABL1 inhibitor eliminates leukemic stem cells in CML model

Curative potential of combo treatment ARGX-110/BCR-ABL1 inhibitor



- Leukemic stem cells (LSCs) resistant to BCR-ABL1 inhibitors via CD70 overexpression
- Combo treatment with CD70 blocking mAb eliminates LSCs by synergistic blockade of Wnt signalling pathway Im: imatinib; V: vehicle; WBM: whole bone marrow

ARGX-110: What next?

Next steps

Ongoing clinical studies

- Hematological tumors
 - T-Cell Lymphoma (TCL): Phase 1b \rightarrow 6 sites (BE, FR, IT)
 - Recruiting 10 CTCL (min 5 Sz) 10 PTCL (min 5 AITL) patients
 - 10 patients identified, 1 patient treated

Site	Investigator	Status	Patients (pre)screening	Treated
UZ Ghent (BE)	Dr. Offner	Open		1X CTCL
Jules Bordet Institute (BE)	Dr. Maerevoet	Open	1x CTCL	
Gustav Roussy (FR)	Dr. Ribrag	Open	5X CTCL & PTCL	
St. Louis (FR)	Dr. Bagot	Open	3 X CTCL	
Lille (FR)	Dr. Morschhauser	Open in Jan		
Bologna (IT)	Dr. Zinzani	Open in Jan		

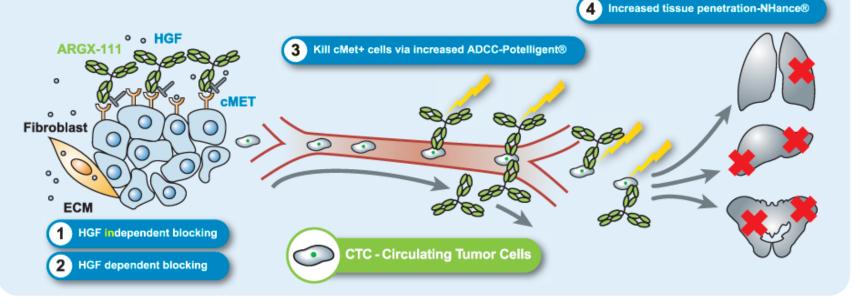
Solid tumors

• Nasopharyngeal carcinoma (NPC): Phase 1b (UZ Gent)



ARGX-111: Addressing the end game of cancer

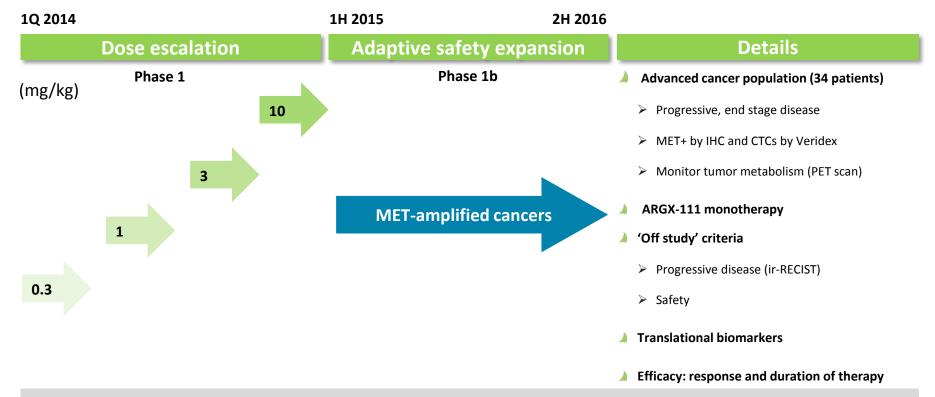
Targeting MET, receptor responsible for tumor growth and metastasis



Hultberg 2014; Pachmann 2008

- ARGX-111 has several distinct modes of action
 - HGF-dependent blocking
 - HGF-independent blocking
 - Killing MET-expressing cells

ARGX-111: Phase 1 trial design

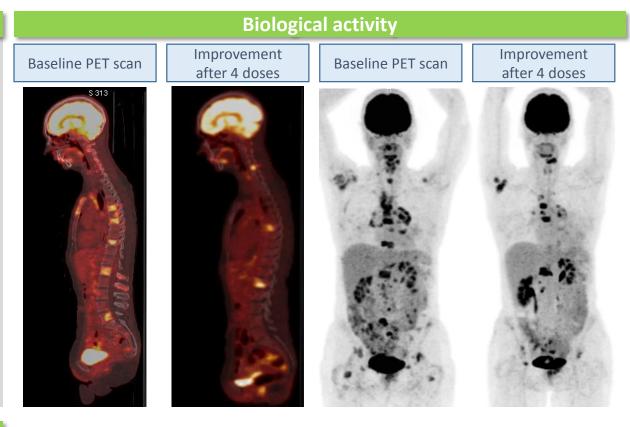


- ~50% of patients screened have CTCs
- Safety observations: Infusion related reactions (class effect)
- Biological activity observed in individual patient with gastric cancer with bone metastases

ARGX-111: Proof of biological activity in MET-amplified cancer patients

Gastric cancer patient

- 50 year old gastric cancer patient with bone metastases; MET-amplified
- Multiple lines of previous treatment
- PET/CT scan: biological activity
- CTCs reduced by 75%
- Good clinical performance



Renal cancer patient

- 57 year old renal cancer patient with metastases; MET-amplified
- Progressive disease stabilized after 2 cycles ARGX-111
- PET/CT scan: biological activity
- 30% reduction of lesion in lymph node

ARGX-111: What next?

Next steps

Clinical Status

- Phase 1b in MET-amplified patients ongoing
- 4 clinics open (BE, FR)
- Opening 3 clinics in Asia
- Recruiting up to 15 MET-amplified patients

Market potential

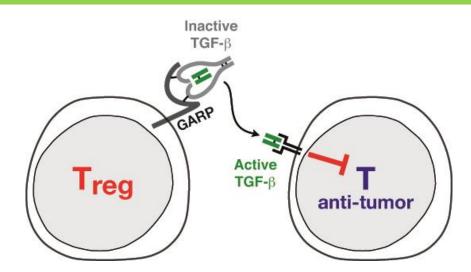
Benchmark cancer treatments

- Herceptin[®]: \$ 54K/y
- Avastin[®]: \$ 42.8K– 55K/y
- Erbitux[®]: \$80K/y
- Crizotinib: \$ 1B sales based on 3% of ALK-positive NSCLC patients



ARGX-115: Towards a next generation Yervoy®

GARP: a novel immune checkpoint

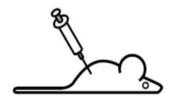


- GARP upregulated specifically on surface of Tregs only
- GARP presents and activates latent TGF-ß1, activating Tregs and suppressing Teff cells
- SIMPLE Antibody™ hitting unique, patented epitope on GARP
- GARP blockade sufficient for MoA no Treg depletion
- Graft-versus-host-disease model delivered convincing PoC

ARGX-115: Towards a next generation Yervoy[®]

hPBMC

In vivo efficacy of anti-GARP-TGFβ SIMPLE Antibody[™] in GVHD Model



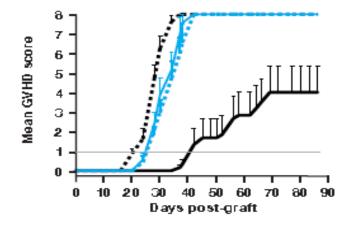
NSG mice injected with:

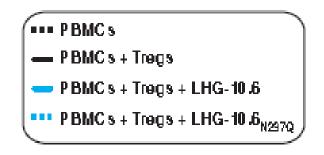
➔ hPBMC (i.e. CTLs) attack host cells (GVHD)

+/- hTregs

hTregs delay GVHD

+/- anti GARP → LHG-10.6 blocks Treg-mediated protective activity





Partnerships

Building partnerships for the long term

Strategic Alliances Shire

- Non-exclusive product discovery and development, leveraging entire technology suite
- Upfront funding, R&D support, development milestones, royalties, product reversion rights
- Collaboration Agreements





- Non-exclusive discovery collaborations, applying SIMPLE Antibody[™] to complex targets
- Technology access fees, R&D support, milestones, royalties
- Innovative Access Program UCL UNNAMED BIOTECH
 - Non-exclusive access to antibody technologies for academic and biotech centers of excellence
 - Creative deal structures including option to acquire asset, golden share,...

- € 22.7M in cumulative revenue (30 June 2015)
- >€ 1.4B* potential cumulative revenues from existing partnerships

Financials

Well capitalized to execute strategic plan

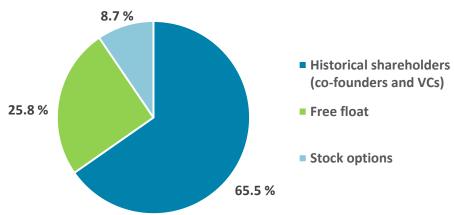
Operating income 24.6 Internal R&D funded Operating income 7.3 55.9 **R&D** expenses 48 HC **G&A** expenses 14.5 R&D 14.2 G&A **Capital raised** 87.8 3.3 Cash and cash-equivalants 46.6 0 20 40 60 80 100

(*) not including deferred revenue and accruals

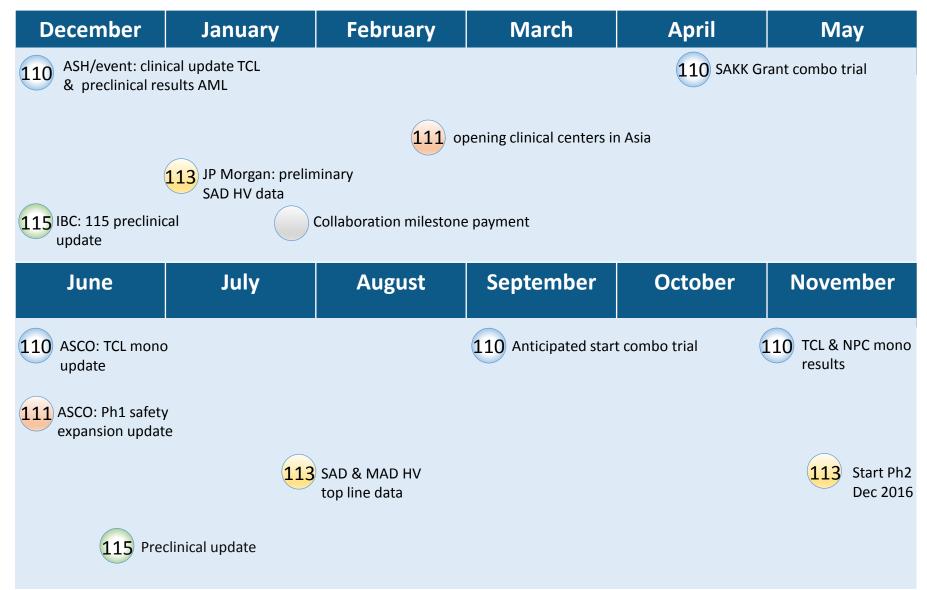
Operating income, expenses and capital raised since inception (MEUR) 3Q15 (*)

Shareholder structure (30 Sept 2015) *Fully diluted*

Operating income and expenses (MEUR) 3Q15



Upcoming news flow 2016





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J.P. Morgan 33rd Annual Healthcare Conference, 11-14 Jan 2016