

Creating innovative antibodies for cancer & severe autoimmune diseases

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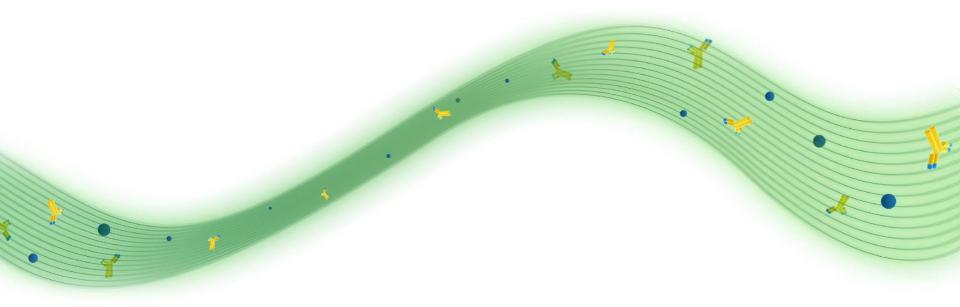


Agenda

- Introduction
- Creating innovative antibodies
- Differentiated products
- Collaborations
- Financials



Introduction



Creating value from highly differentiated antibodies



Rich proprietary pipeline

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



Thriving strategic alliances

- Industrial partners
- Innovative Access Program



Obbyie Shire

Competitive technology suite

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



Strong financials

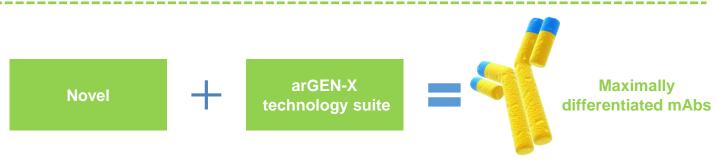
- Strong cash position
 (€ 54Mio March 2016; AbbVie € 35Mio April '16, Private Placement € 30Mio June '16)
- > € 2B potential future income from partnerships



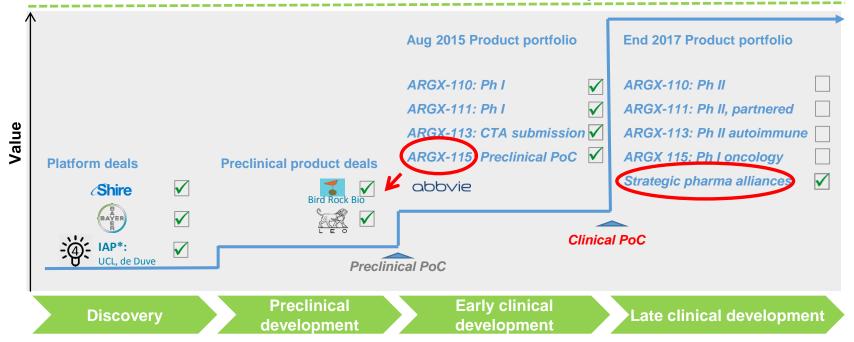
Business model maximizing shareholder value



Generating differentiated antibody product candidates...



... towards Phase II value inflection point



6

Proprietary pipeline in cancer and severe autoimmunity argenx



		Drug candidate	Target	Indication	Pre- clinical	Phase 1	Phase 2
Autoimmune diseases	•	ARGX-113	FcRn	Autoimmunity, Myasthenia Gravis			
Cancer immunotherapy		ARGX-110	CD70	Cancer (Blood & Solid), [Autoimmunity]			
Cancer metastasis	•	ARGX-111	c-MET	Solid tumors Blood cancer			
		Discovery		Multiple cancer, Autoimmunity	•		
	abbvie	ARGX-115		Cancer Immunotherapy			
	BIND ROCK BIO	ARGX-109 Gerilimzumab		Autoimmunity	_	\rightarrow	
Partnered, non- dilutive income	L E O	Undisclosed		Skin inflamation			
	Shire	Undisclosed		Undisclosed	>		
	BAYER	Undisclosed		Undisclosed	>		

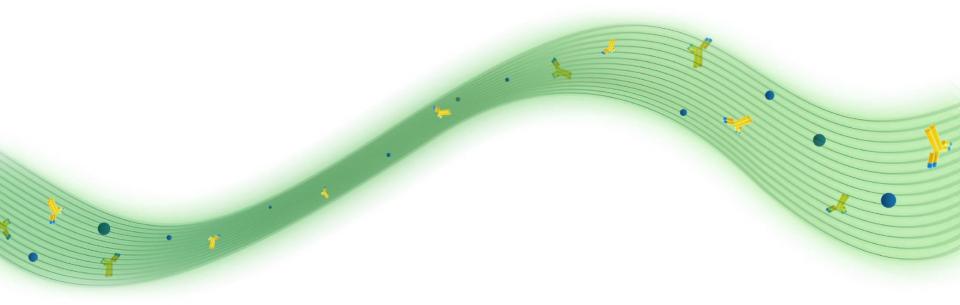
Upcoming news flow 2016



January	February	March	April	May	June
113 JP Morgan: pre SAD HV data	111 eliminary	onfirmation Favorable safety profile Signs of anti-tumor activity MET-amplified patients	111 ASCO: Ph1 safety expansion update		
	LEO Pharma milestor	ne payment	115	AbbVie collaboration	
July	August	September	October	November	December
	110 First combo trial 110 NPC results 110 TCL results				
113 MAD HV preliminary data	1		D & MAD HV o line data		113 Start Ph2 Dec 2016
		ot)			

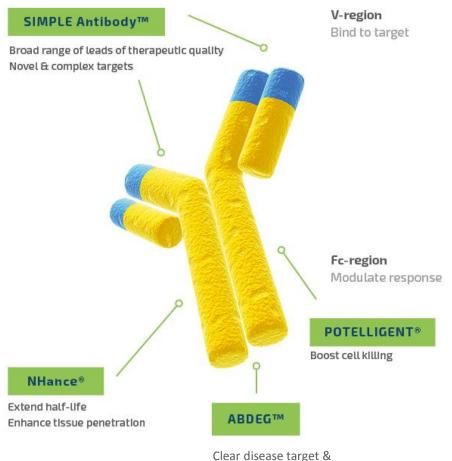


Creating innovative antibodies



Unique technology platform: multiple modes of action







Leapfrogging transgenics:

- V-regions llama & human antibodies virtually identical
- Unprecedent epitope coverage

- auto-antibodies
- 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

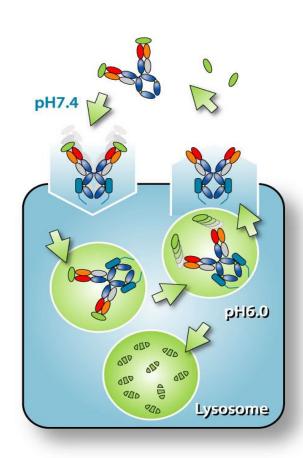


NHance®/ABDEG™ FcRn modulation

SIMPLE ANTIBODY™

pH-dependent target binding

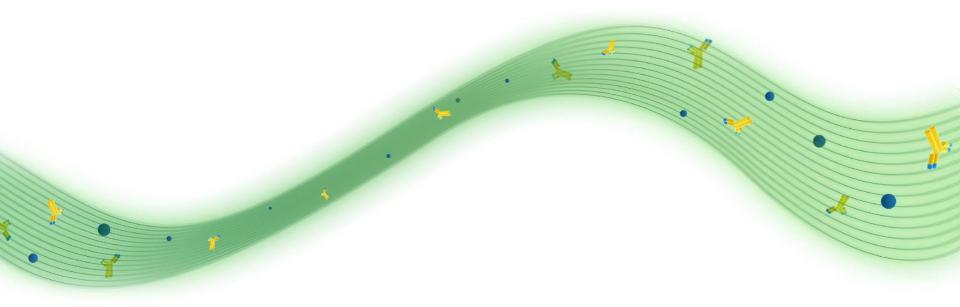




- Clinical potential for indications:
 - with high circulating target concentrations
 - which require fast target clearance
 - e.g. inflammatory cytokines (receptors)



ARGX-113



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?

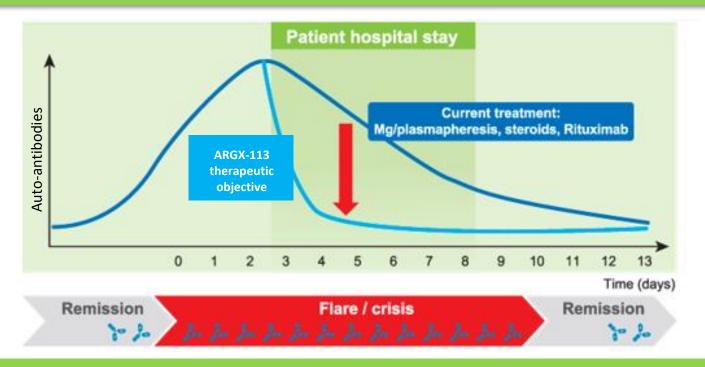
- 10% of population suffers from autoimmune diseases
- Antibody therapy used for rheumatoid arthritis, multiple sclerosis & psoriasis
- ARGX-113 targets severe autoimmune diseases

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



Mode of action

- Targeting auto-immune diseases driven by pathogen autoantibodies (IgG's)
- Fast & deep reduction of pathogenic IgG's
- Prevention & control of disease flares/exacerbation

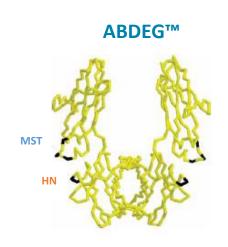
ARGX-113: How it works - Antibody clearance capability

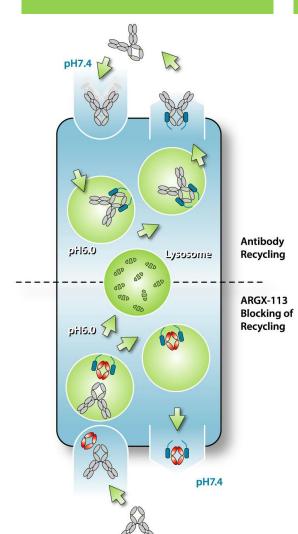


Proprietary Fc mutations

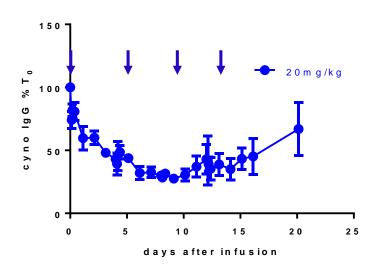
Block IgG recycling

Resulting in rapid autoantibody clearance





Repeat dose ARGX-113



- Saturation of PD effect at doses ≥ 20 mg/kg
- 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

^{**} Clinically effective if disease score has improved by >50% 14 days after treatment



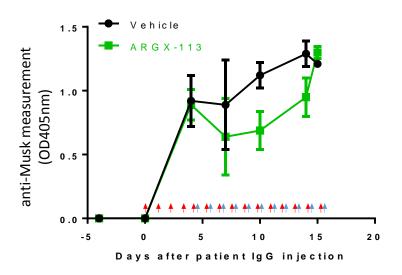
Liu et al., 2009

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

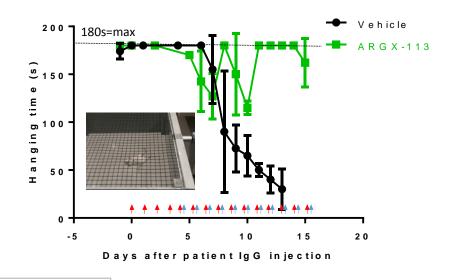
ARGX-113: In vivo PoC MuSK-MG transfer model – therapeutic setting



Anti-MuSK Ab-levels

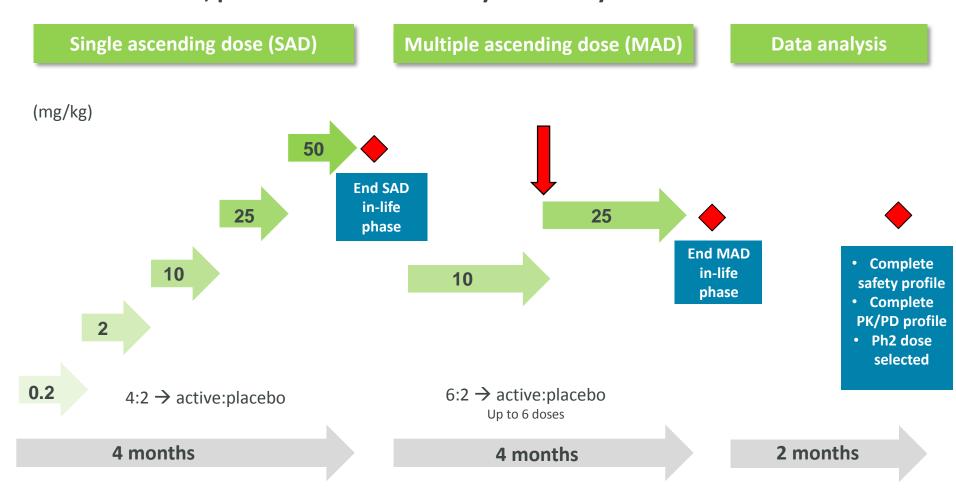


Inverted Mesh



- ↑ Patient IgG injection (37 mg)↑ ARGX-113 treatment (1 mg)
- 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

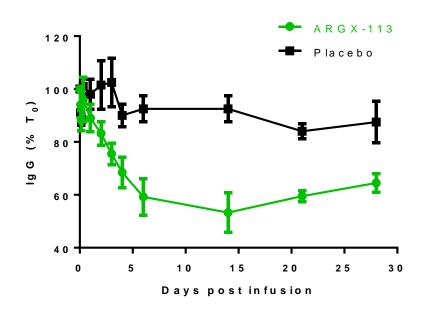


- SAD completed according to plan (38 healthy volunteers in total)
- Favourable safety and tolerability profile observed (no serious adverse events reported)

ARGX-113: PD marker readout for SAD Double-blinded, placebo-controlled study in healthy volunteers



Rapid, deep and specific IgG reduction



	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 and albumin 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



Rapid speed of onset

"Demonstrating that its onset of action is faster than IVIq would be fantastic," MG KOL

More convenient administration

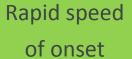
"Getting an infusion done within 2 hours, that is an attractive piece" MG KOL

Superior efficacy

"Acute MG crisis, I don't think it responds all that well to IVIg," MG KOL

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





"If you can control the disease within a week or two, that would be great," ABD KOL

More convenient administration

"PLEX is a nightmare to apply," ABD KOL

Superior efficacy

"IVIg just doesn't work that great,"
ABD KOL

Better tolerated, shorter procedure with limited follow-up

ARGX-113: What next?



Next steps

Clinical Status

- Multiple Ascending Dose study (MAD)
- Start of Phase 2 in first indication

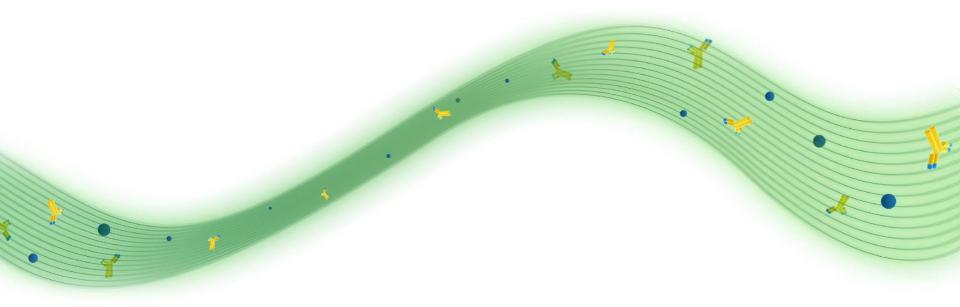
Market potential

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



ARGX-110: 3 distinct modes of action





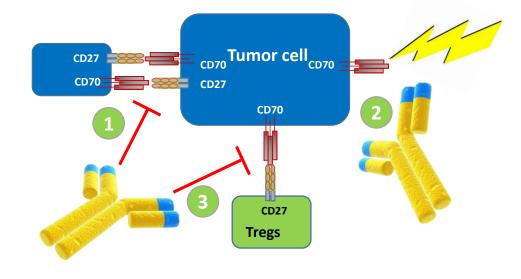
1. Block tumor growth signal



2. Kill tumor



3. Restore immune surveillance





Why T Cell Lymphoma?





T Cell Lymphoma: rare and heterogeneous disease

- Eldery (> 60y)
- Rare (1/100,000) but underdiagnosed
- Treatment: first by dermatologist, then by oncologist
- Present in skin, blood and lymph compartments;
 susceptible to infections

"We haven't made much progress in TCL survival in the last decades. With PFS getting worse after each relapse, we are desperate for the next Rituxan for TCL. This would be a real game changer."

Dr. O'Connor, Columbia University Medical Center

Very high unmet medical need

- Unfit for chemo or stem cell transplantation
- Current thearpies: only moderately effective, not curative
 - Retinoids; HDAC inhibitors
 - Antifolates; chemo

ARGX-110 potential

- Ph I results demonstrate biological activity in skin, blood, lymph compartment
- Favorable safety profile enables mono and combo therapy

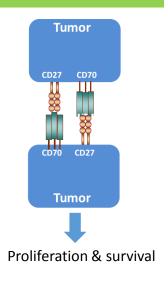
ARGX-110: CD70/CD27 pathway highly relevant in TCL

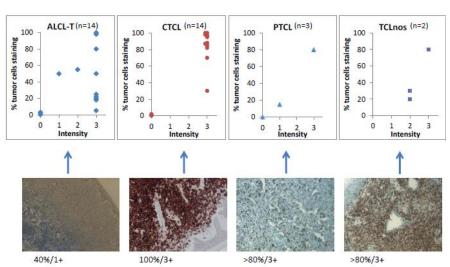


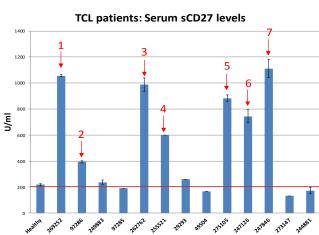


in TCL biopsies

sCD27 levels in TCL patient sera



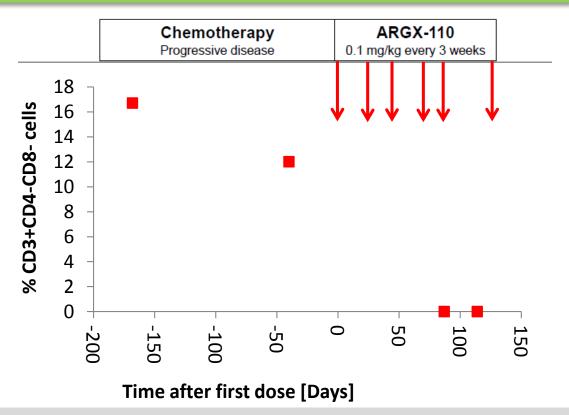




- CD70 strongly overexpressed across different TCL types
- Elevated sCD27 levels suggest strong pathway activity in TCL

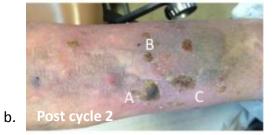
ARGX-110: Proof of biological activity in 2 patients with Cutaneous T-Cell Lymphoma (Sézary-Syndrome)

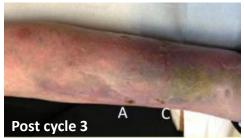




Stabilized skin lesions







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

- 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

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

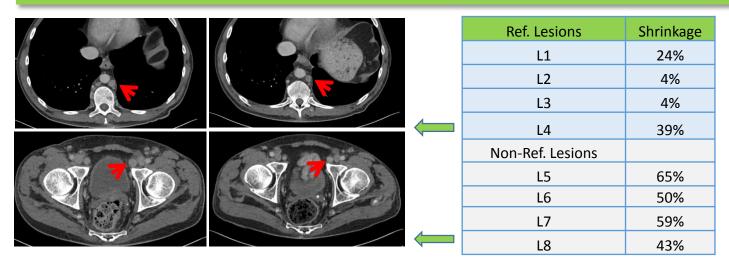
Stable disease in skin lesions

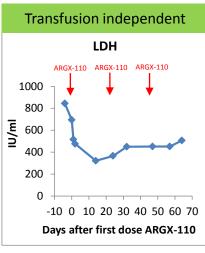


- 55 year old male with cutaneous T_{FH} lymphoma
- Disease in skin
- Treated with Interferon and PUVA
- ARGX-110 treatment (5 mg/kg)
 - Stabilized disease up to cycle 3
 - After 3 cycles: skin lesions decreased in number and size
 - Patient already 19 cycles on study (15 months)

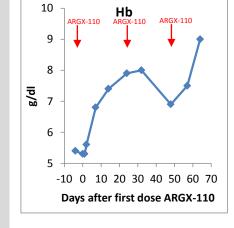
ARGX-110: Proof of biological activity in patient with Angioimmunoblastic T-Cell lymphoma (AITL)

Tumor shrinkage in lymph nodes





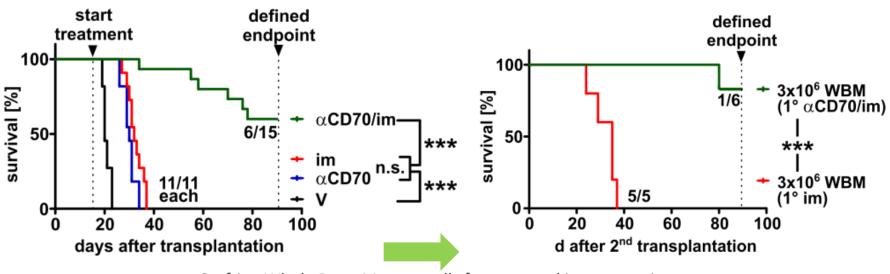
- 61 year-old male AITL patient with severe Hemolytic Anemia
- Refractory to chemotherapy: CHOP + Etoposide/Cyclosporine /Bendamustine - Transplant
- After 2 doses of ARGX-110 (5 mg/kg)
 - Clinical response in lymph nodes
 - Reference lesions shrink between 4-40 %
 - Clear tendency for all other lesions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



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



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



Grafting Whole Bone Marrow cells from treated into new mice (10d after start of treatment)

- 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 → 6 sites (BE, FR, IT)
 - Recruiting up to 10 CTCL (min 5 Sz) 10 PTCL (min 5 AITL) patients
 - 10 patients enrolled; on track to complete enrollment by end July

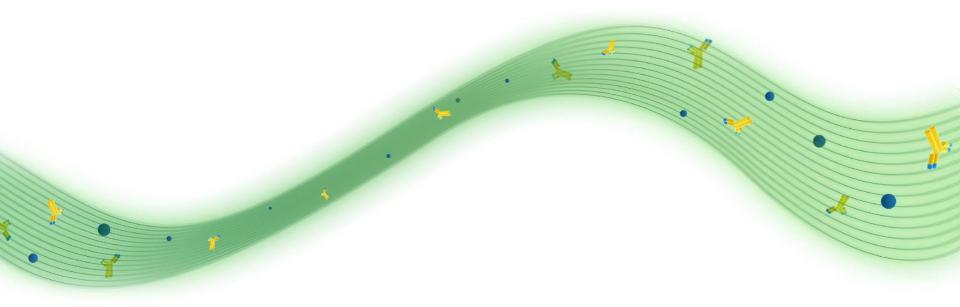
Site	Investigator	Status	Patients (pre)screening	On treatment/ treated
UZ Ghent (BE)	Dr. Offner	Open	2X	1X
Jules Bordet Institute (BE)	Dr. Maerevoet	Open	2X	1X
Gustav Roussy (FR)	Dr. Ribrag	Open	11X	4X
St. Louis (FR)	Dr. Bagot	Open	8X	3X
Lille (FR)	Dr. Morschhauser	Open	3X	1X
Bologna (IT)	Dr. Zinzani	Open	1X	

Solid tumors

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



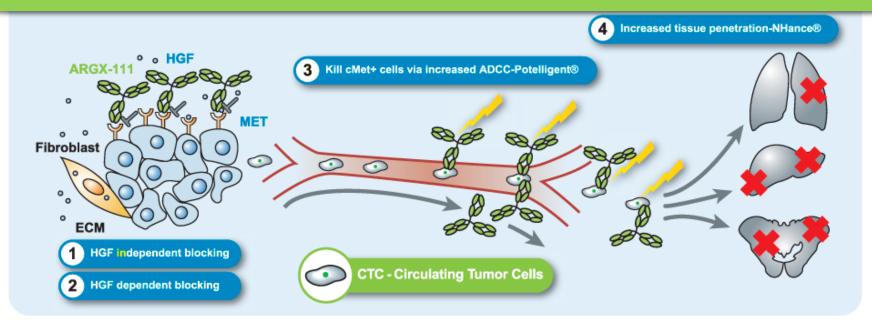
ARGX-111



ARGX-111: Addressing the end game of cancer



Targeting MET, receptor responsible for tumor growth and metastasis



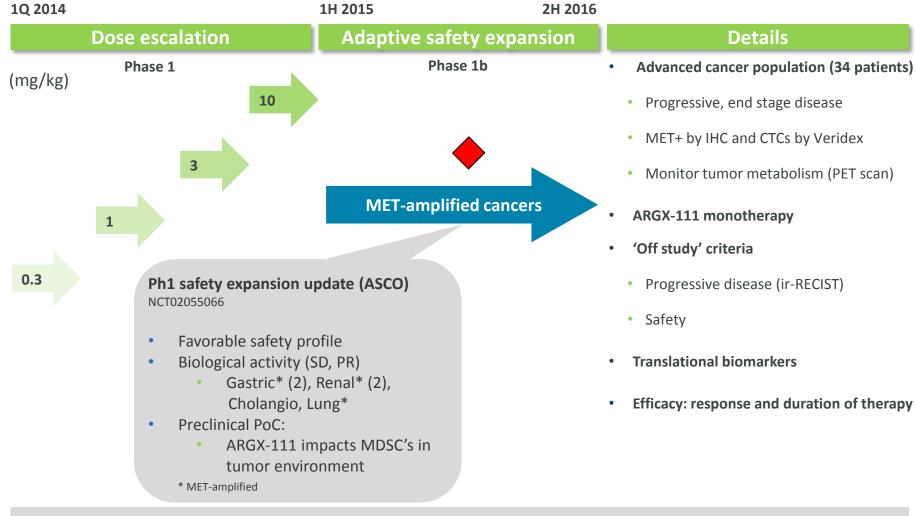


Hultberg et al., 2014, Cancer Research – Gherardi et al., 2013, Nature Reviews Cancer

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

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

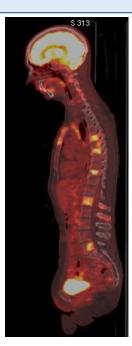
ARGX-111: Proof of biological activity in MET-amplified cancer patients

Gastric cancer patient

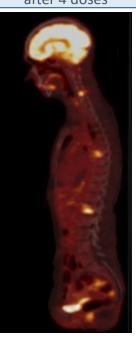
- 50 year old gastric cancer patient with bone metastases; MET-amplified
- Multiple lines of previous treatment
- PET/CT scan: biological activity
- CTCs reduced by 75%
- Good clinical performance

Biological activity

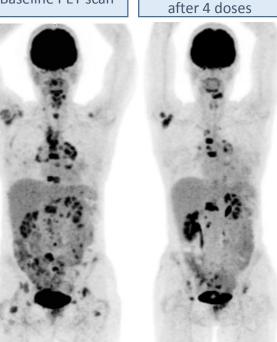
Baseline PET scan



Improvement after 4 doses



Baseline PET scan



Improvement

Renal cancer patient

- 57 year old renal cancer patient; MET-amplified
- 11 cycles on study; progressive disease stabilized after 2 cycles
- PET/CT scan: biological activity
- 30% reduction of lesion in lymph node

Renal cancer patient

- 58 year old year old renal cancer patient; MET-amplified
- 4 cycles on study

ARGX-111: What next?



Next steps

Clinical Status

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

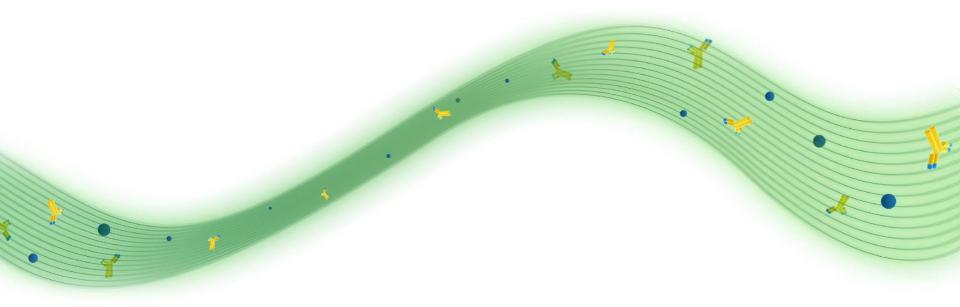
Market potential

Benchmark cancer treatments

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



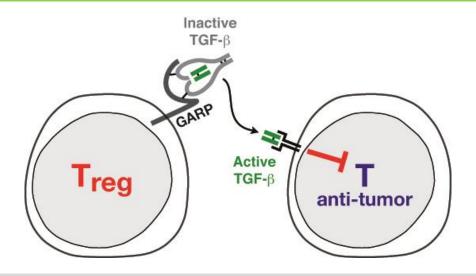
ARGX-115



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

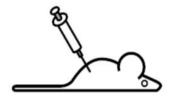


ARGX-115: Towards a next generation Yervoy®

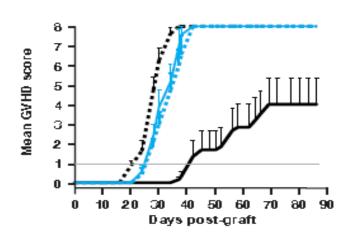


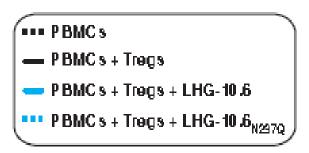
In vivo efficacy of anti-GARP-TGFβ SIMPLE Antibody™ in GVHD Model

NSG mice injected with:



- hPBMC → hPBMC (i.e. CTLs) attack host cells (GVHD)
- +/- hTregs → hTregs delay GVHD
- +/- anti GARP → LHG-10.6 blocks Treg-mediated protective activity







AbbVie Option Deal for ARGX-115: Key Elements



Financial terms

- \$40MM upfront
- Preclinical milestones 2x \$10MM
- Up to \$625MM development, regulatory and commercial milestones
- Tiered, up to double-digit royalty payments on net sales

Deal Structure



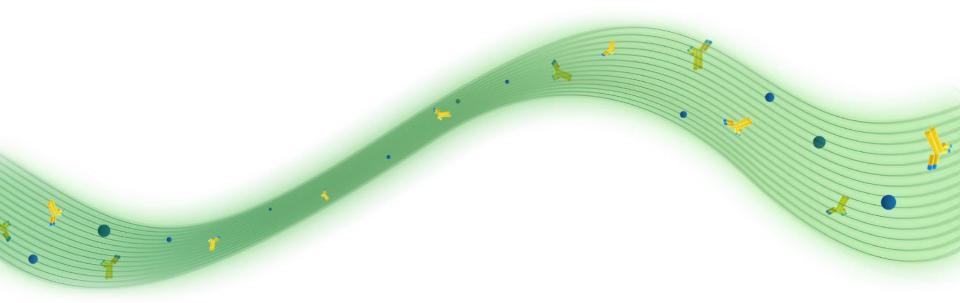
- Responsible for delivering IND data package
- May combine ARGX-115 with its own pipeline mAbs
- Co-promotion right to GARP-targeted products (EU/Swiss Economic Area)

abbvie

- Option to exclusive development and commercialization license
- Will fund further GARP-related research for initial period of 2years, subject to argenx reaching pre-determined preclinical stage milestone
- Right to license additional therapeutic programs resulting from this research in return for additional milestone and royalty payments



Partnerships



Building partnerships for the long term



Alliances with premier pharma partners ○□□□







- Exclusive product partnership
- · Non-exclusive discovery collaborations leveraging entire technology suite
- Upfront payments, R&D funding, development milestones, royalties, product reversion rights
- Innovative Access Program 🥳



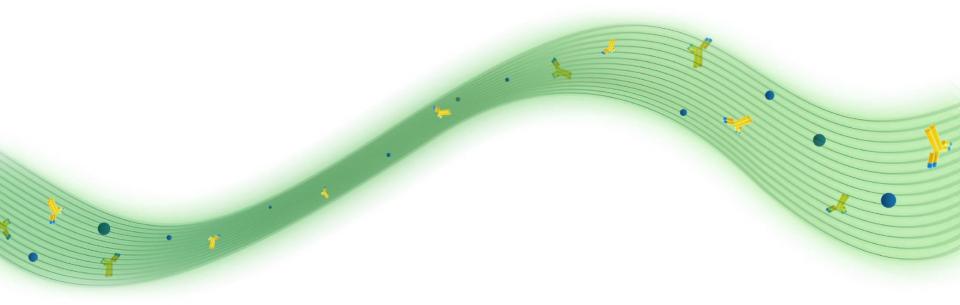
UNNAMED BIOTECH

- Non-exclusive access to antibody technologies for academic and biotech centers of excellence
- Creative deal structures including option to acquire asset, golden share,...

- € 31Mio in cumulative revenue (1Q16) (AbbVie € 35Mio April 2016)
- >€ 2B* potential cumulative revenues from existing partnerships



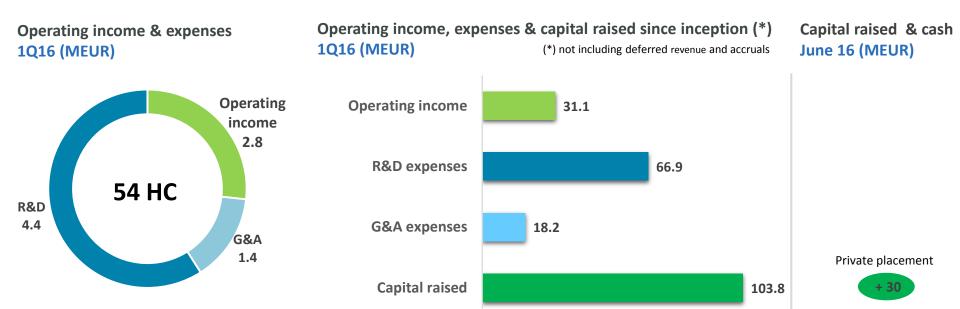
Financials



Well capitalized to execute strategic plan

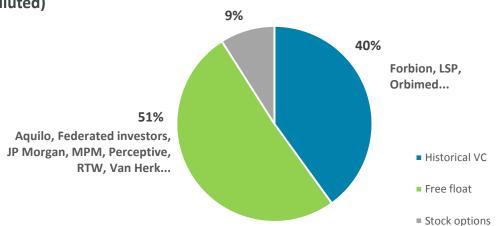
Cash and cash-equivalants







June 16



53.8

AbbVie

+ 35.1

+ 30

Upcoming news flow 2016



January	February	March	April	May	June
111 opening clinical centers in Asia Confirmation → Favorable safety pr → Signs of anti-tumo activity in MET-amplified patients					ASCO: Ph1 safety expansion update
	LEO Pharma milestor	ne payment	115	AbbVie collaboration	
July	August	September	October	November	December
	110 First combo trial 110 NPC results 110 TCL results				
113 MAD HV preliminary data	1		D & MAD HV o line data		113 Start Ph2 Dec 2016
		R&	D day, New York (22 Se _l	ot)	