



*Innovating
antibodies,
improving lives*

Better Antibodies By Design

Jefferies 2013 Healthcare Conference

New York, NY June 2013



Forward Looking Statement

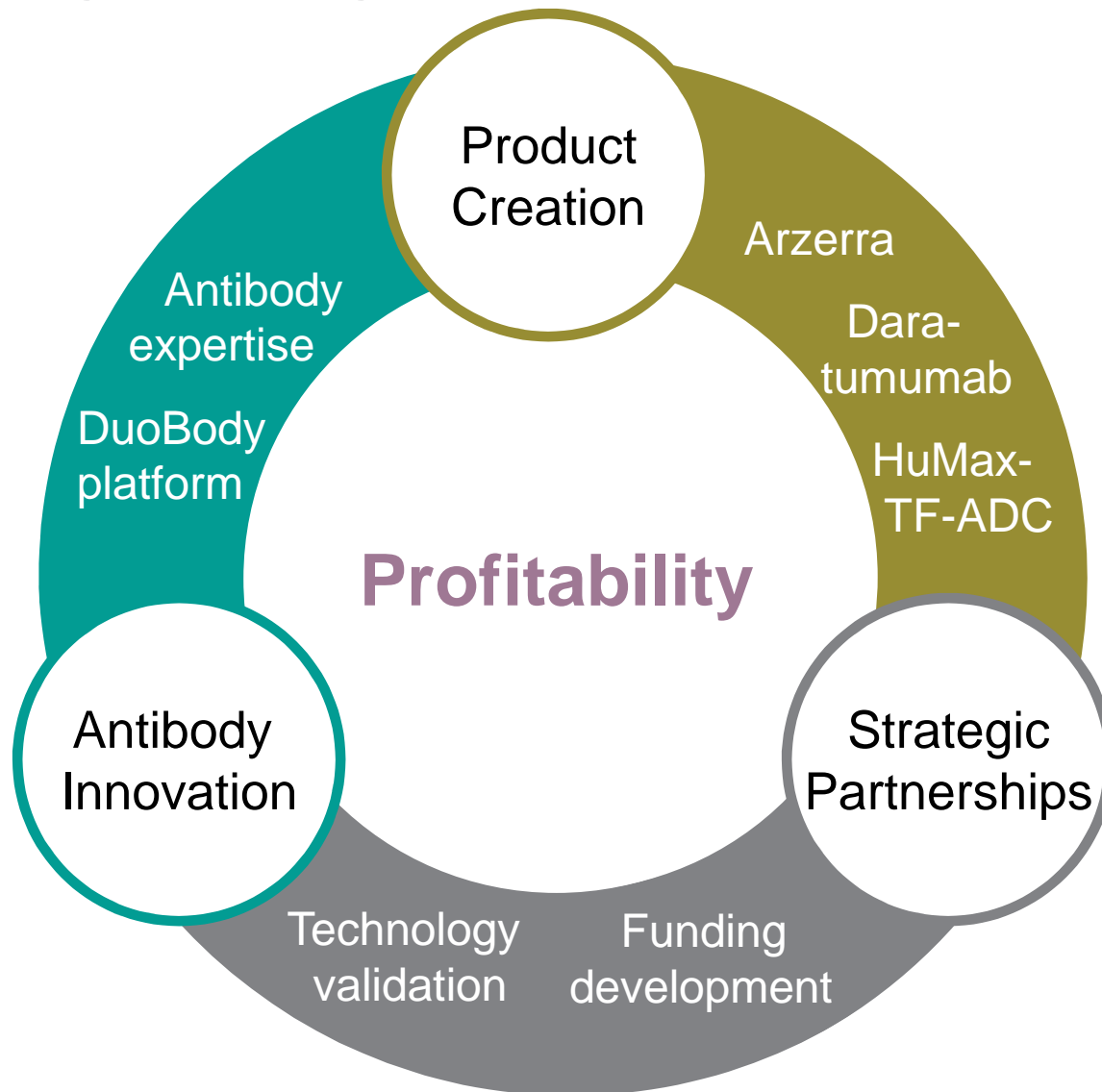
This presentation contains forward looking statements. The words “believe”, “expect”, “anticipate”, “intend” and “plan” and similar expressions identify forward looking statements. All statements other than statements of historical facts included in this presentation, including, without limitation, those regarding our financial position, business strategy, plans and objectives of management for future operations (including development plans and objectives relating to our products), are forward looking statements. Such forward looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding our present and future business strategies and the environment in which we will operate in the future. The important factors that could cause our actual results, performance or achievements to differ materially from those in the forward looking statements include, among others, risks associated with product discovery and development, uncertainties related to the outcome of clinical trials, slower than expected rates of patient recruitment, unforeseen safety issues resulting from the administration of our products in patients, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. Further, certain forward looking statements are based upon assumptions of future events which may not prove to be accurate. The forward looking statements in this document speak only as at the date of this presentation.

Antibody Innovation Generating World Class Products

- Focus on human antibodies to treat cancer
- Proven ability to bring product to market
 - One marketed product (Arzerra[®]) with growing sales
 - First-in-class daratumumab next potential product
- Strong innovation focus
 - Proprietary technologies – DuoBody[®] & HexaBody[™]
 - Innovative pre-clinical pipeline including HuMax[®]-TF-ADC
 - World class antibody know-how
- Collaborations with blue chip partners incl. GSK and Janssen
- Capital efficient model aimed at creating a sustainably profitable business

Hybrid Business Model

Trend-Setting Technologies & Differentiated Products



Innovative Pipeline

Product	Disease Indications	Development Phase					
		Pre-clinical	I	I/II	II	III	IV
Ofatumumab 19 studies Partner: GSK	Chronic lymphocytic leukemia (CLL)						
	Follicular lymphoma (FL)						
	Diffuse large B-cell lymphoma (DLBCL)						
	Relapsing remitting multiple sclerosis (RRMS)						
	Waldenström's Macroglobulinemia (WM)						
Daratumumab 2 studies Target: CD38 Partner: Janssen	Multiple myeloma (MM)						
Inclacumab Target: p-Selectin Partner: Roche	Saphenous vein graft disease						
	Acute coronary syndrome (ACS)*						
HuMax-TF-ADC Target: Tissue factor Partner: SeaGen	Solid cancers						
> 10 Active Pre-clinical Programs	HuMab, Enhanced HuMab, HuMab-ADC, DuoBody or DuoBody-ADC						

*Study completed

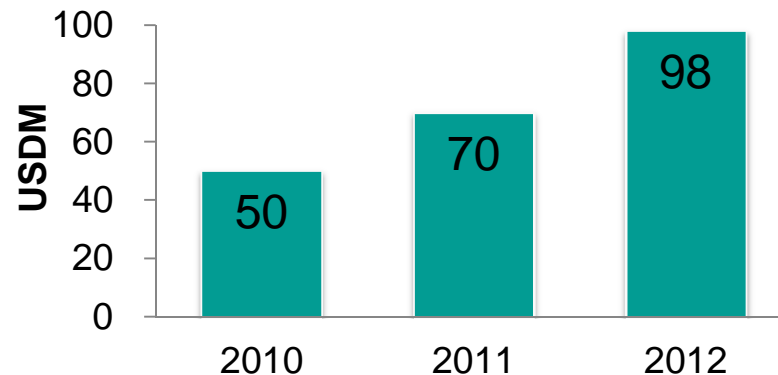
Arzerra[®] (ofatumumab)

About Arzerra

- Fully human antibody
- Approved in US, EU, Japan & other territories for CLL patients that do not respond to current treatments (fludarabine & alemtuzumab)
- Targets CD20 on (cancerous) B-cells
- Highly effectively engages immune system
- Slow release from disease target
- Differentiated to rituximab, targets slice of > \$7 Bn market
- Successful GSK collaboration since 2006



GSK Arzerra Sales Growth



- Genmab Cancer Royalty = 20%
- Q1 2013 sales GBP 20.5M (~\$31M); royalty DKK 36M

Future Growth Drivers

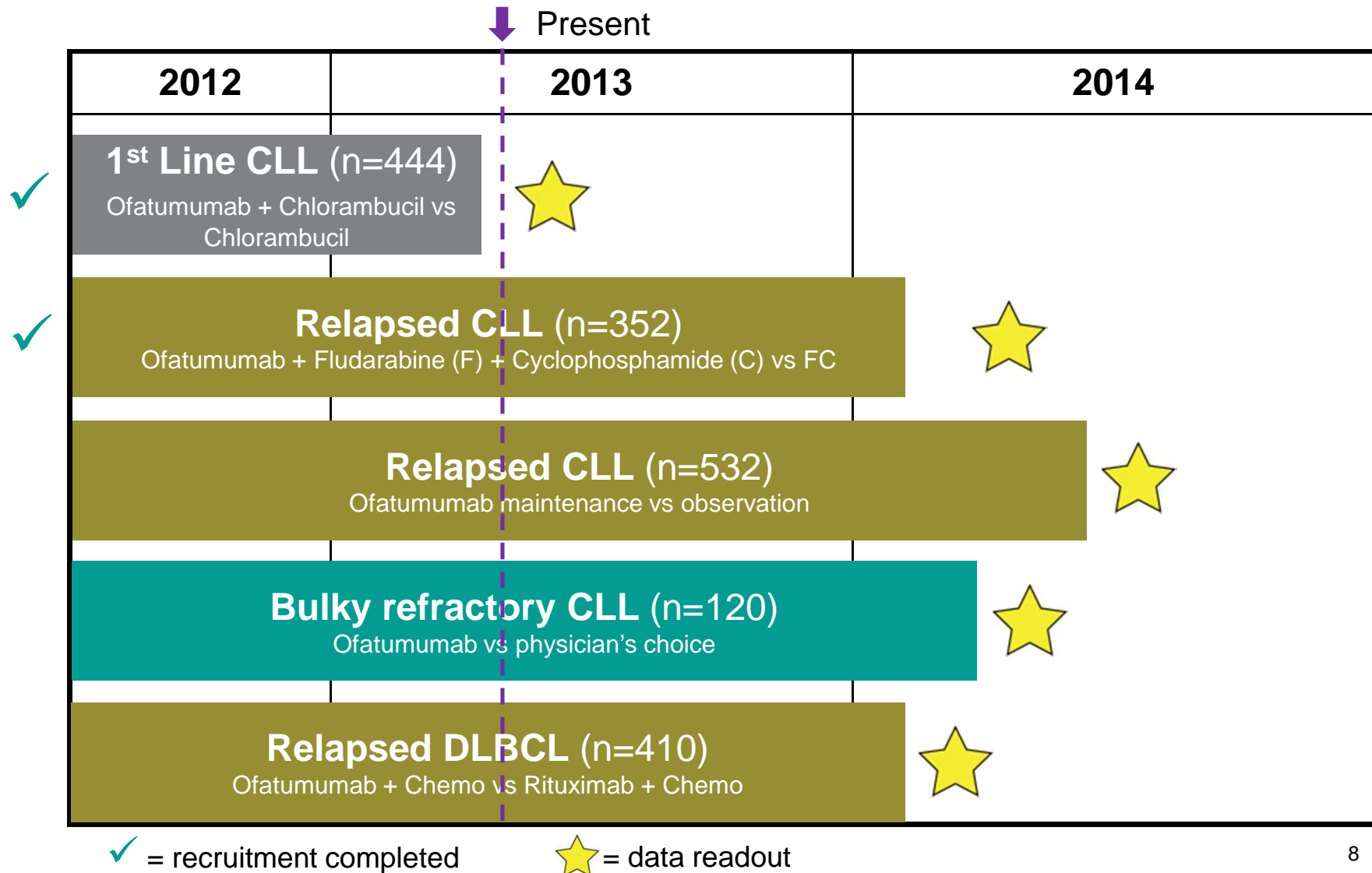
- Continued worldwide rollout
- Blockbuster potential in Cancer; broad potential in Autoimmune diseases
- Broad clinical program - 7 cancer pivotal trials ongoing

Ofatumumab + Chlorambucil Extends Progression Free Survival: Phase III Results

- Ofatumumab + chlorambucil vs. chlorambucil alone in front line CLL
- 447 patients in the study
- Met primary endpoint in the study - PFS
- 9.3 month improvement in PFS in patients treated with ofatumumab + chlorambucil vs chlorambucil alone
- 22.4 month median PFS in ofatumumab + chlorambucil arm
- 13.1 month median PFS in chlorambucil arm
- No unexpected safety findings
- Most common SAEs
 - Neutropenia (5%), anemia (4%), pneumonia (4%) and pyrexia (2%)

Ofatumumab: Driving Value Through Data

Five Pivotal Studies in Next 15 months



Daratumumab (HuMax[®]-CD38)

- First-in-class fully human antibody
- Targets CD38 molecule on multiple myeloma (MM) cells
- Potential in: MM, DLBCL, FL, Plasma Cell Leukemia, Mantle Cell Lymph., ALL & AML
- Partnership with Janssen
- Blockbuster potential
- Encouraging pre-clinical data
 - Broad-spectrum killing activity
 - Inhibits tumor growth at very low doses
 - Enhances cell killing in combination with current treatments (Revlimid, Velcade)
- Promising early clinical data
- Breakthrough Therapy Designation & Fast Track status awarded by FDA



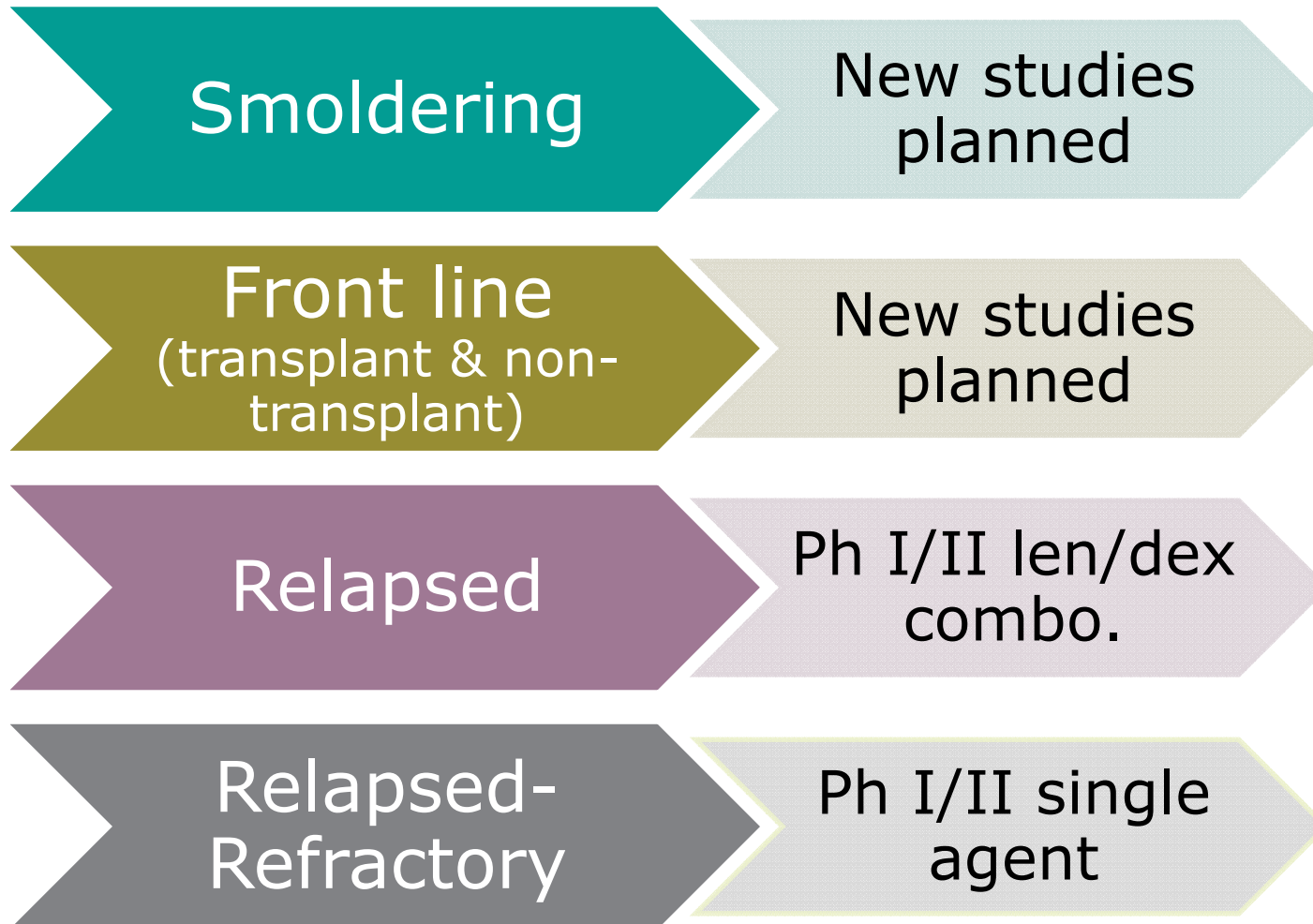
Daratumumab Collaboration Billion Dollar Deal, Zero Costs

- Janssen Biotech* licenses worldwide rights: fully funds all development & commercialization
- \$55M upfront payment
- \$80M equity investment by J&J Devel. Corporation (10.7% stake)
- > \$1.1 Bn total potential deal value
- Incl. development, regulatory, and sales milestones
- Plus double digit tiered royalties on global sales
- Zero cost / limited risk for Genmab



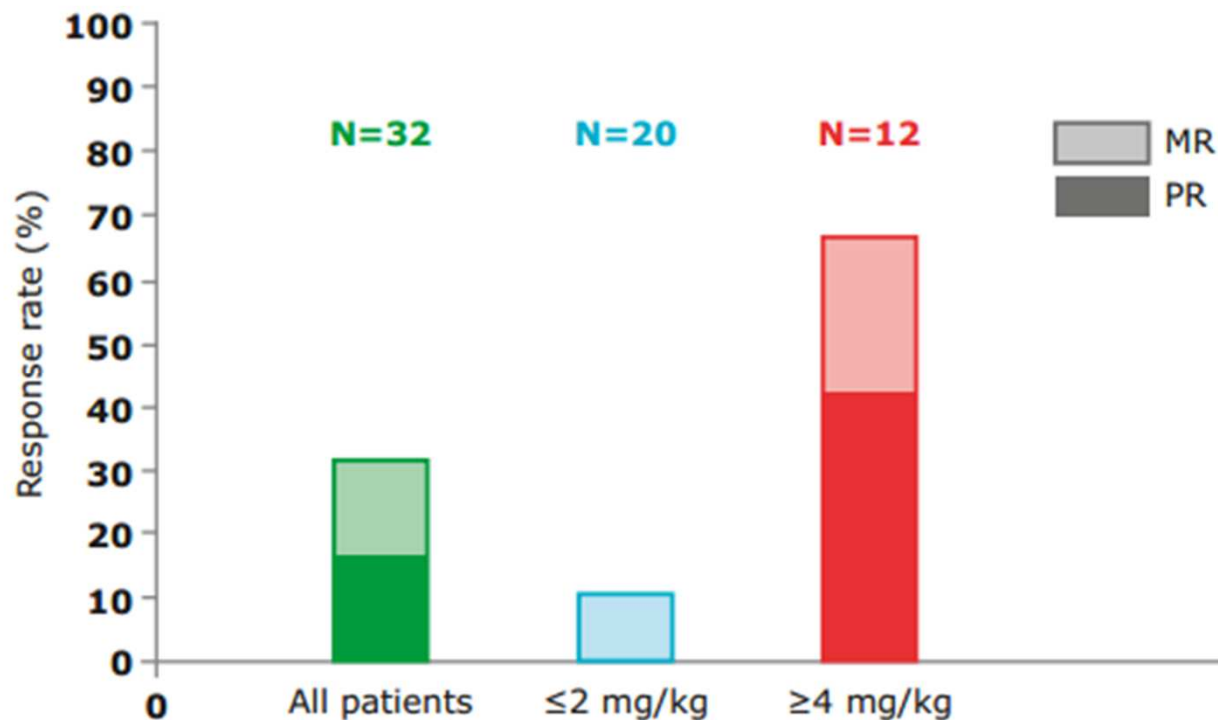
*Janssen Biotech, Inc., one of the Janssen Pharmaceutical Companies

Extensive Daratumumab Development Plans in Multiple Myeloma



Daratumumab: Early Signs of Clinical Activity

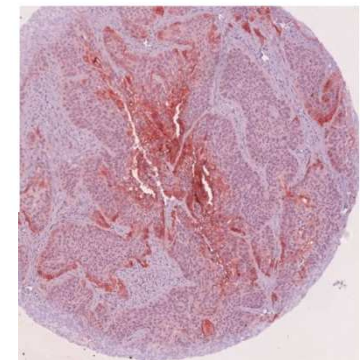
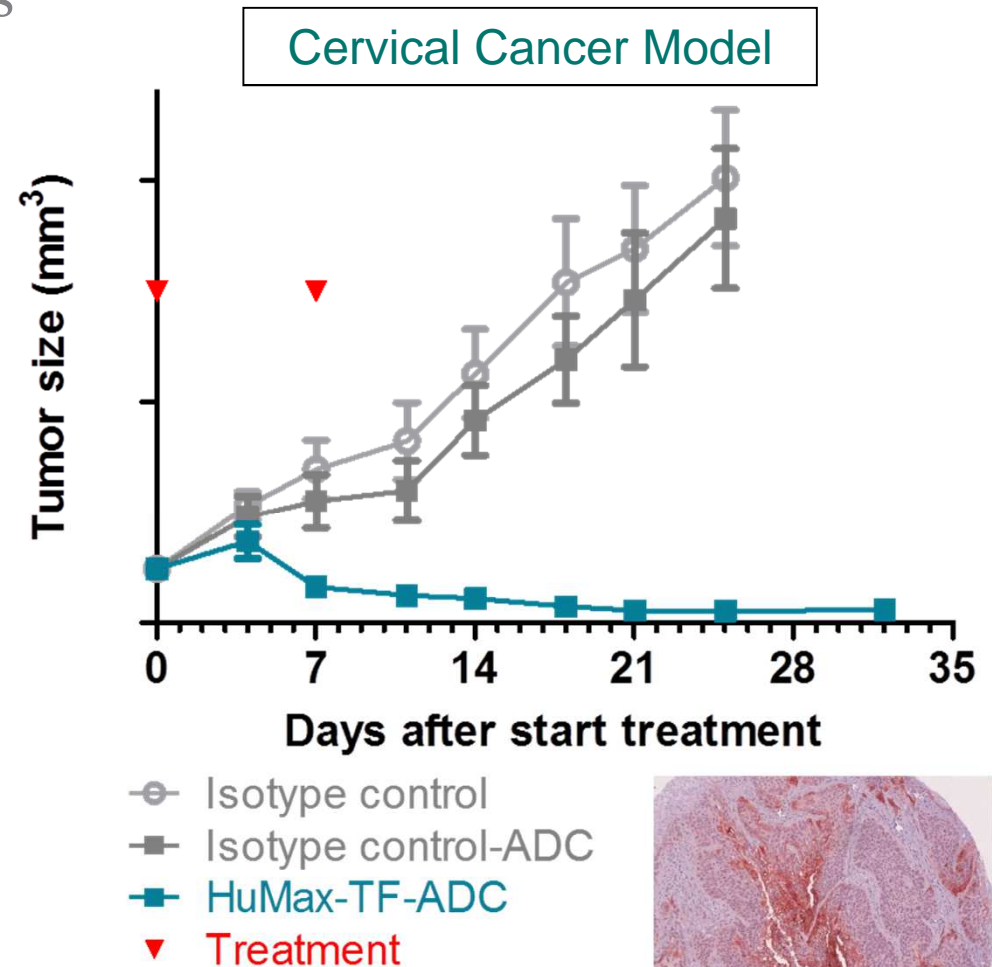
- Preliminary Ph I/II data in relapsed / refractory multiple myeloma
- 12 patients received ≥ 4 mg/kg of daratumumab
 - 8 clinical responses observed, 5 PR and 3 MR
 - Median PFS not reached at 18.4 weeks



HuMax[®]-Tissue Factor-ADC: Towards the Clinic

Next Generation Therapeutics

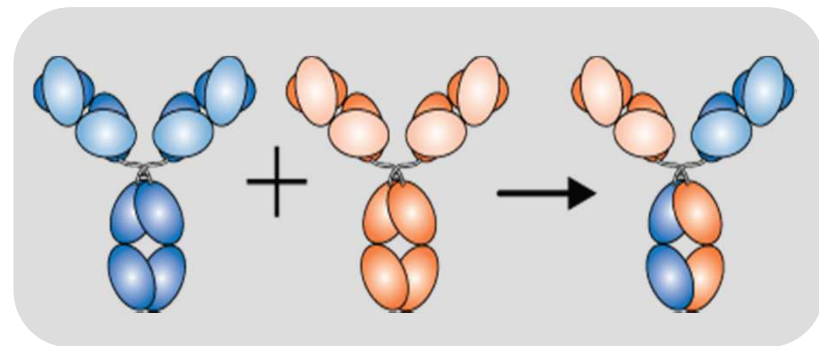
- Fully human antibody-drug conjugate
- Targets Tissue Factor (TF)
- Potential in multiple solid cancers including pancreatic, lung, bladder, cervix, ovarian, and prostate cancer
- IND submission prepared for 2013
- Collaboration with Seattle Genetics



DuoBody Platform

Innovative Technology for Therapeutic Bispecific Antibodies

- Uses dual-targeting, potential to improve specificity & efficacy
- Suitable for large scale manufacturing
 - Minimal protein engineering
 - Produces excellent quality antibodies at very high yields
- Distinguished from competitor platforms
 - Proper in vivo half-life
 - Fc-effector functions
 - Good manufacturability



DuoBody process for bispecificity

- IgG1
- Controlled conditions
- Unidirectional reaction

Potential Value of Two Major DuoBody Collaborations: Over \$1.9 Billion

Novartis

- 2 DuoBody programs
- Genmab receives
 - \$2 million upfront payment
- \$175 million total potential deal value
- Royalties on sales
- Novartis fully funds research

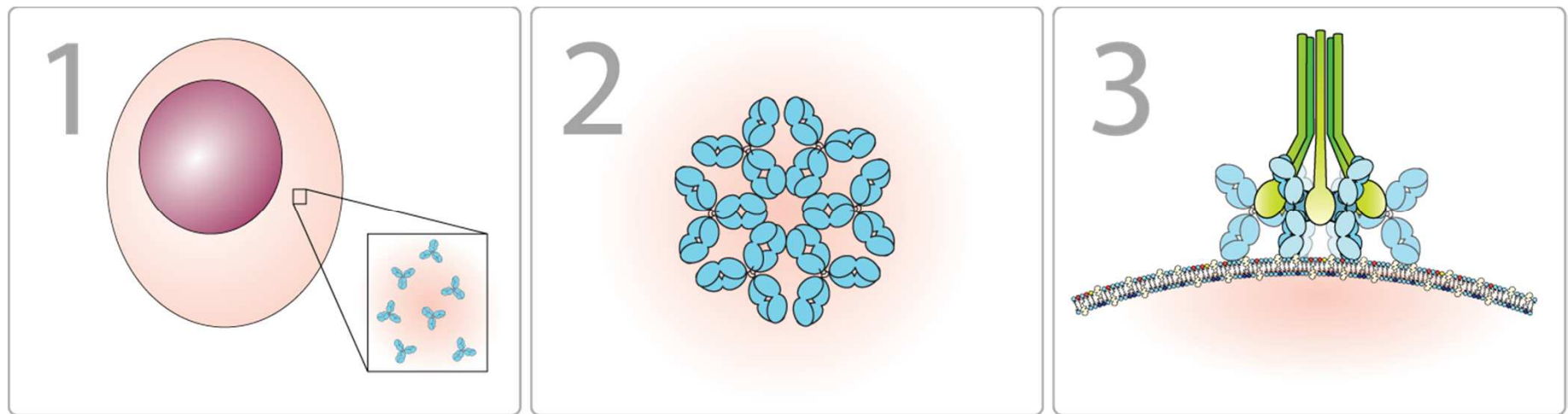
Janssen Biotech

- 10 DuoBody programs
- Genmab receives
 - \$3.5M up front payment
 - \$175M in potential milestone & license payments per product
- \$1.75 billion total potential deal value
- Royalties on sales
- Janssen fully funds research

HexaBody™ Antibody Technology

Enhancing Natural Killing Mechanisms

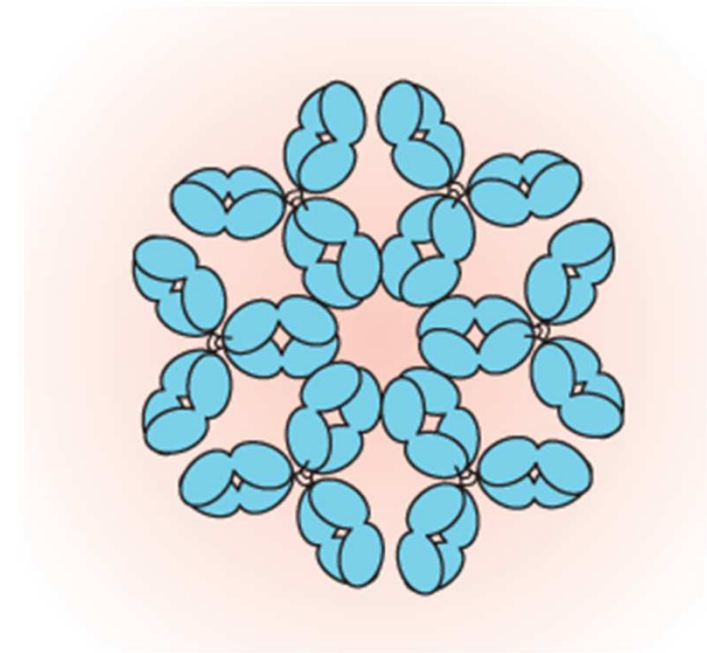
- Builds on natural antibody biology
- Minimal engineering required
- Enables antibodies to more readily form clusters of 6 (hexamers)
- Induces and enhances target cell killing after binding via CDC, a major mechanism of action of antibodies
- Can impart CDC capability to essentially any antibody



HexaBody Antibody Technology

New Business Opportunities

- Novel, differentiated products
 - Hematology, Oncology, Infectious diseases
- Attractive alternative to pay-load enhanced antibodies
- Other opportunities
 - Repurpose / rescue drug candidates that failed in Phase II / III
 - Life cycle management

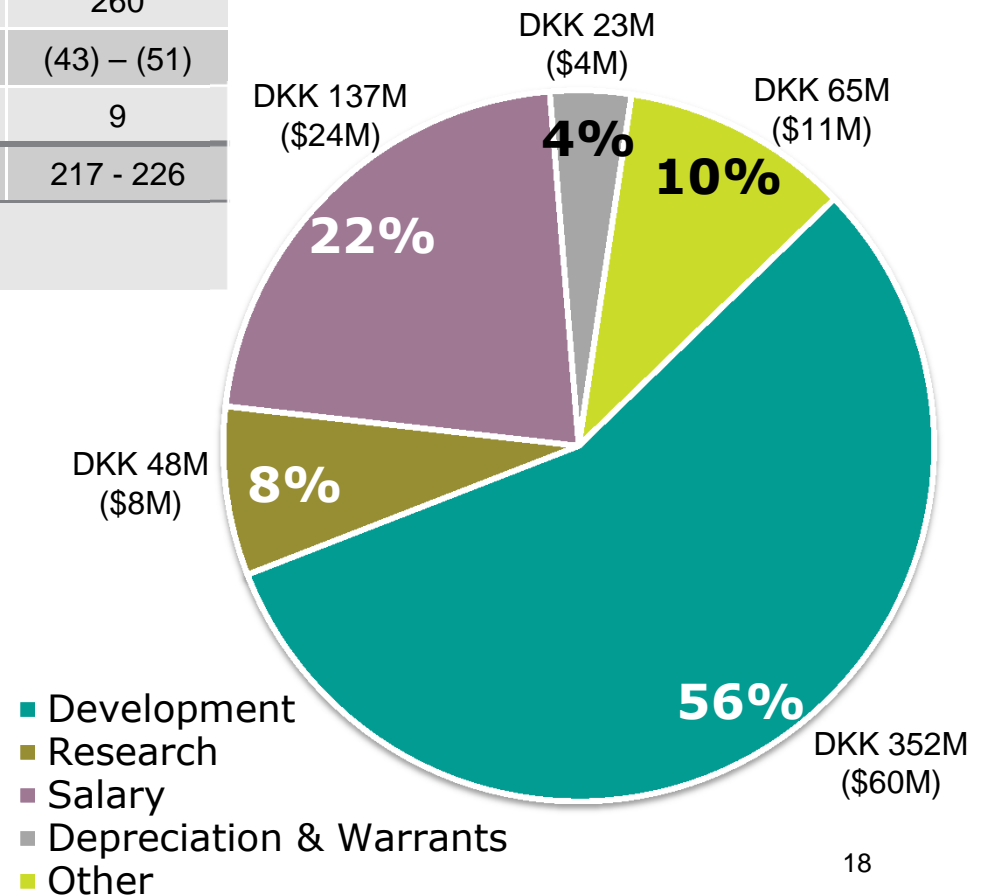


2013 Guidance

	DKK M	USD M*
Revenue	540 - 580	93 - 99
Operating expenses	(600) - (650)	(103) - (111)
Operating loss continuing operations	(40) - (90)	(7) - (15)
Discontinued operation	40	7
Cash position beginning of year**	1,516	260
Cash used in operations	(250) - (300)	(43) - (51)
Facility sale	50	9
Cash position at end of year*	1,266 - 1,316	217 - 226

* USD 1.00 = DKK 5.8371 (spot rate Mar. 31, 2013)
 **Cash, cash equivalents and marketable securities

**2013 Expense Base
DKK 625M (\$107M)**

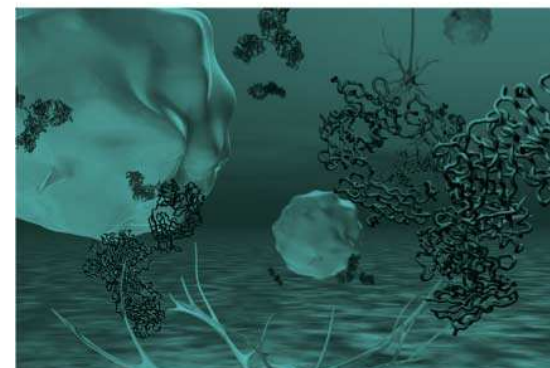


2013: A Year of Data and Deals

Priority	Milestone	Current Progress
Maximize value of ofatumumab	<ul style="list-style-type: none"> » Ph III frontline CLL; ofa + chlorambucil vs chlorambucil data » Ph II front and 2nd line; ofa + bendamustine data » Ph III CLL; ofa maintenance safety interim data » Update progress ofa sc autoimmune development 	<ul style="list-style-type: none"> ✓ Positive data reported in May ✓ Positive data reported in May ✓ IDMC recommends continuing study ✓ Recruitment in Ph II MS study completed
Expansion Arzerra	<ul style="list-style-type: none"> » Approval in Japan » Launch & reimbursement in new countries 	<ul style="list-style-type: none"> ✓ Approved in March ✓ Launched in Japan in May
Fully exploit the potential of daratumumab	<ul style="list-style-type: none"> » Ph I/II MM monother. matured safety & effic. data » Ph I/II MM combi therapy preliminary safety & efficacy data » Initiate additional MM clinical studies 	<ul style="list-style-type: none"> ✓ Updated data pres. at Intl. Myeloma Workshop in Japan ✓ Received Fast Track Designation ✓ Received Breakthrough Designation
Expand pipeline	<ul style="list-style-type: none"> » File IND for HuMax-TF-ADC » Initiate first clinical trial with HuMax-TF-ADC » Update progress pre-clinical programs including ADC and DuoBody projects 	
Next generation technologies	<ul style="list-style-type: none"> » Expand DuoBody technology collaborations » Validate and advance HexaBody technology 	<ul style="list-style-type: none"> ✓ Janssen activated fourth bispecific antibody program
Partnerships	<ul style="list-style-type: none"> » Report progress partnered programs » Enter new collaboration 	<ul style="list-style-type: none"> ✓ Ph II inclacumab data reported
Disciplined expense management, reduce cash burn	<ul style="list-style-type: none"> » 2013 operating loss < than in 2012 » Reduce cash burn, lengthen cash runway 	<ul style="list-style-type: none"> ✓ Guidance maintained ✓ MN facility sold

On Track to a Sustainably Profitable Future

- World class antibody know-how
- Next generation antibody technologies
- Arzerra sales on the rise
- Expansive daratumumab development with Janssen Biotech
- HuMax-TF-ADC scheduled for 2013 IND
- Broad pre-clinical pipeline includes multiple DuoBody & ADC programs
- New partnership deals
- Well capitalized: Cash runway > 4½ years
- Disciplined spending & selective investing





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antibodies,
improving lives*

Better Antibodies By Design

