

Better Antibodies By Design

Morgan Stanley Global Healthcare Conference 9-11 September 2013





Forward Looking Statement

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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 potential next to market
- Strong innovation
 - 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



Innovative Pipeline

Product	Disease Indications	Development Phase					
		Pre- clinical	1	I/II	Ш	Ш	IV
Ofatumumab 18 studies Partner: GSK	Chronic lymphocytic leukemia (CLL)						
	Follicular lymphoma (FL)						
	Diffuse large B-cell lymphoma (DLBCL)						
	Pemphigus vulgaris (PV)						
	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	CVD: Healthy volunteers						
	CVD: Saphenous vein graft disease						
	CVD: Acute coronary syndrome (ACS)*						
Teprotumumab Target: IGF-1R Partner: River Vision	Active thyroid eye disease						
HuMax-TF-ADC Target: Tissue factor Partner: SeaGen	Solid cancers	IND filed					
> 10 Active Pre-clinical Programs	HuMab, Enhanced HuMab, HuMab-ADC, DuoBody or DuoBody-ADC						

*Study completed



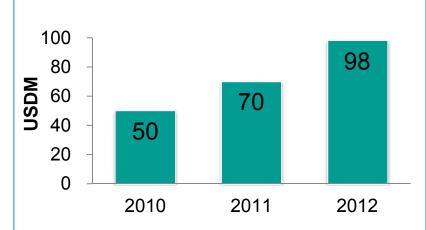
Arzerra[®] (ofatumumab)

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 other CD20 mAbs, targets slice of > \$7 Bn market
- Successful GSK collaboration since 2006



GSK Arzerra Sales Growth



- Genmab Cancer Royalty = 20%
- H1 2013 sales GBP 38.3M (~\$59M); royalty DKK 67M

Future Growth Drivers

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

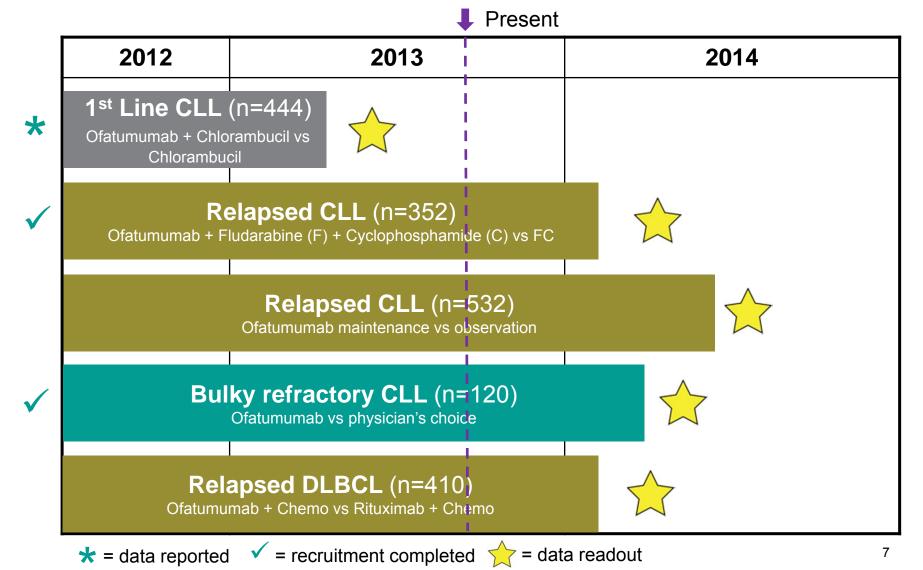


Ofatumumab + Chlorambucil Extends Progression Free Survival: Phase III Results

- 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%)

Genmab

Ofatumumab: Driving Value Through Data Pivotal Studies Due in Next 12 months





Daratumumab (HuMax®-CD38) First-in-Class Antibody with Broad-Spectrum Killing

First-in-Class Fully Human Antibody

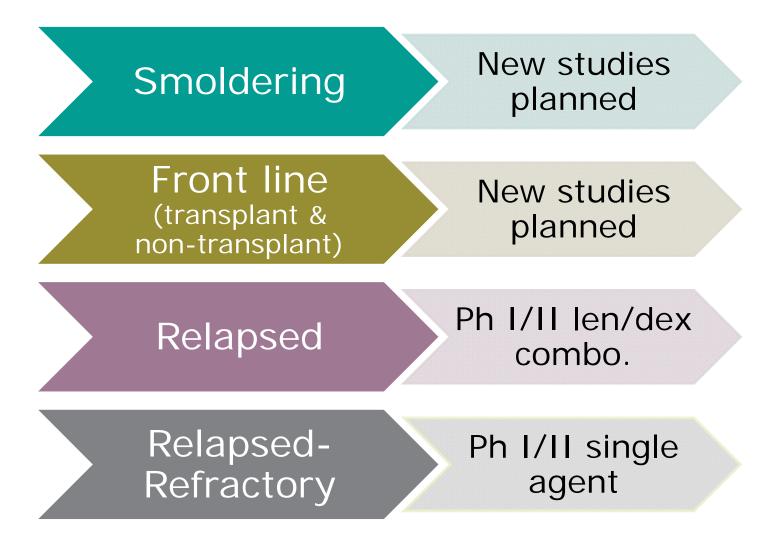
- Targets CD38 molecule on multiple myeloma (MM) cells
- Potential in: MM, DLBCL, FL, Plasma Cell Leukemia, ALL, Mantle Cell Lymph., AML
- Blockbuster potential
- Promising early clinical data
- Breakthrough Therapy Designation, Fast Track & Orphan Drug status awarded by FDA

Partner: Janssen Biotech

- Janssen fully funds development & commercialization
- \$55M upfront payment
- \$80M equity investment by J&J (10.7% stake)
- > \$1.1Bln potential deal value, + double-digit royalties
- Zero cost / limited risk for Genmab

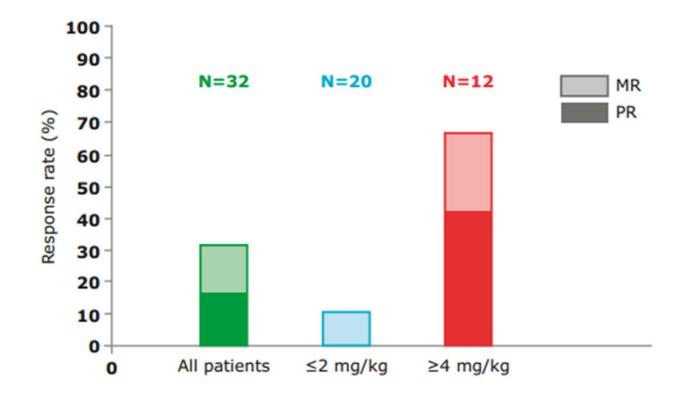


Extensive Daratumumab Development Plans in Multiple Myeloma



Daratumumab: Early Signs of Clinical Activity

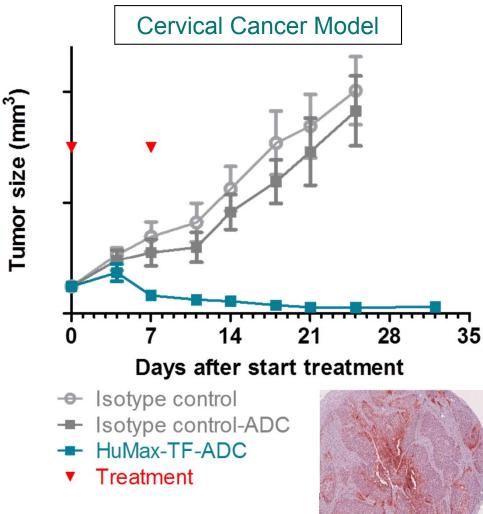
- Preliminary Ph I/II data in relapsed / refractory multiple myeloma
- 12 patients received ≥ 4 mg/kg of daratumumab
 - 8 clinical responses observed, 5 PR and 3 MR
 - Median PFS not reached at 18.4 weeks





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 filed July 2013
- Collaboration with Seattle Genetics





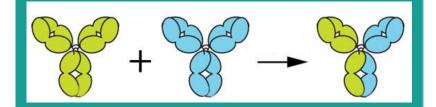
DuoBody Platform Innovative Technology for Bispecific Antibodies

O DuoBody

- Dual-targeting, potential to improve specificity, efficacy
- Large scale manufacturing
 - Minimal protein engineering
 - Excellent quality antibodies at very high yields
- Differentiated from competitor platforms
 - Proper in vivo half-life
 - Fc-effector functions
 - Good manufacturability

Major Collaborations -\$1.9B Potential Value

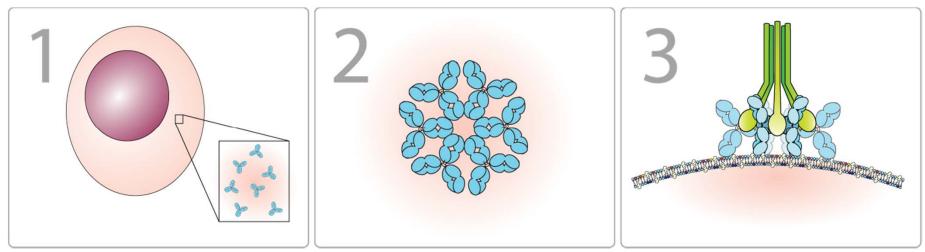
- Novartis
 - 2 programs, \$175M total pot. deal value, plus royalties
- Janssen Biotech
 - 10 programs, \$1.75B total pot. deal value, plus royalties





HexaBody[™] Antibody Technology Enhancing multiple Natural Killing Mechanisms

- Builds on natural antibody biology minimal engineering required
- Enables antibodies to more readily form clusters of 6 (hexamers)
- Induces & enhances target cell killing after binding via CDC
 - CDC capability to essentially any antibody
- Can create novel, differentiated products in cancer & infectious disease
 - Repurpose/rescue drug candidates that failed in Phase II/III
 - Life cycle management

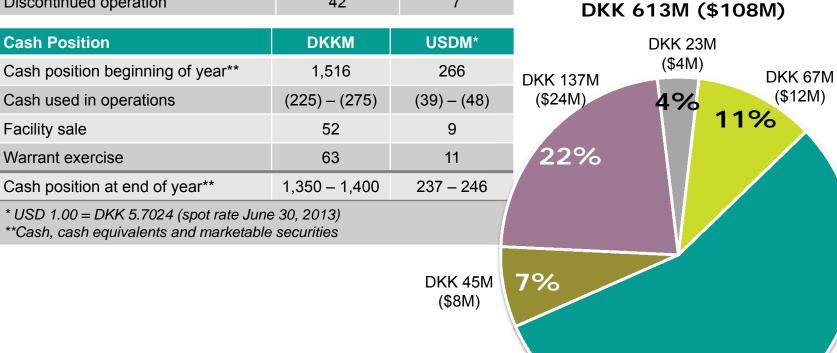




2013 Expense Base

2013 Guidance as of August 14

Income Statement	DKKM	USDM*	
Revenue	550 – 590	96 – 103	
Operating expenses	(600) – (625)	(105) – (110)	
Operating loss continuing operations	(10) – (75)	(2) – (13)	
Discontinued operation	42	7	



Development

Depreciation & Warrants

Research

Salary

Other

DKK 341M

(\$60M)

56%



2013: A Year of Data and Deals

Priority	Milestone	Current Progress
Maximize value of ofatumumab	 Ph III frontline CLL; ofa + chlorambucil vs chlorambucil data Ph II front and 2nd line CLL; ofa + bendamustine data Ph III CLL; ofa maintenance safety interim data Update progress ofa sc autoimmune development 	 Positive headline data reported in May Positive headline data reported in May IDMC recommends continuing study Recruitment in Ph II MS study completed Phase III study in pemphigus vulgaris
Expansion Arzerra	» Approval in Japan» Launch & reimbursement in new countries	 Approved in March Launched in Japan in May
Fully exploit the potential of daratumumab	 » Ph I/II MM monother. matured safety & effic. data » Ph I/II MM combi therapy preliminary safety & efficacy data » Initiate additional MM clinical studies 	 Updated data pres. at Intl. Myeloma Workshop / ASCO 2013 / EHA 2013 Received Fast Track, Orphan Drug & Breakthrough Therapy Designations
Expand pipeline	 File IND for HuMax-TF-ADC Initiate first clinical trial with HuMax-TF-ADC Update progress pre-clinical programs including ADC and DuoBody projects 	 IND filed in July DuoBody platform presented at multiple conferences
Next generation technologies	 » Expand DuoBody technology collaborations » Validate and advance HexaBody technology 	 Janssen activated 4th & 5th bispecific antibody programs; one in vivo and one technical POC milestone reached 1st development milestone reached in Novartis collaboration
Partnerships	» Report progress partnered programs» Enter new collaboration	 Ph II inclacumab data reported & new Ph I study initiated Ph II teprotumumab study initiated by River Vision Entered 50:50 agreement for HuMax-TAC-ADC with ADC Therapeutics
Disciplined expense management, reduce cash burn	 » 2013 operating loss < than in 2012 » Reduce cash burn, lengthen cash runway 	 ✓ Guidance improved ✓ MN facility sold in Q1 2013

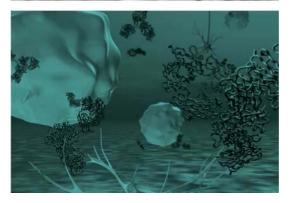


On Track to a Sustainably Profitable Future

- World class antibody know-how
- Next generation antibody technologies
- Arzerra sales on the rise
- Expansive daratumumab development with Janssen Biotech
- HuMax-TF-ADC IND filed
- Broad pre-clinical pipeline includes multiple DuoBody & ADC programs
- New partnership deals
- Well capitalized: Cash runway > 51/2 years
- Disciplined spending & selective investing









Better Antibodies By Design

