

# **Better Antibodies By Design**

Investor Presentation November 2015



## **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 gualified 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 Cancer

- Differentiated human antibodies
- Track record breakthrough therapeutics



#### **Robust Product Pipeline**

- Daratumumab blockbuster potential (marketed as Darzalex<sup>™</sup> in MM)
- Ofatumumab cancer & autoimmune potential (marketed as Arzerra® in various CLL indications)
- HuMax<sup>®</sup>-TF-ADC in Phase I solid cancers



### Passion for Innovation

- World class antibody know-how
- Proprietary technologies DuoBody<sup>®</sup> & HexaBody<sup>™</sup>
- Innovative pre-clinical pipeline



 $\mathsf{Partnerships} \to \mathsf{Product}\ \mathsf{Ownership}$ 

- Key collaborations drive current pipeline
- Product opt-ins + retain products for future value
- Well capitalized

# Innovative Pipeline

Product		Development Phase				
	Disease Indications	Pre- clinical	I.	II	ш	
<b>Ofatumumab</b> Target: CD20	Chronic lymphocytic leukemia (CLL)					
Indication: Cancer Partner: Novartis	Follicular lymphoma (FL)					
<b>Ofatumumab</b> Target: CD20 Indication: AI Partner: GSK (transfer to Novartis)	Pemphigus vulgaris (PV) (SubQ)					
	Relapsing remitting multiple sclerosis (RRMS) (SubQ)		Ann	ounced		
	Neuromyelitis optica (NMO) (SubQ)		Annound	ed	>	
<b>Daratumumab</b> Target: CD38 Partner: Janssen	Multiple myeloma (MM)					
	Non-Hodgkin's Lymphoma (NHL)					
HuMax-TF-ADC Target: TF Partner: Seattle Genetics	Solid Cancers					
<b>Teprotumumab</b> Target: IGF-1R Partner: River Vision	Graves' Orbitopathy				•	
	Diabetic macular edema					
HuMax-TAC-ADC Target: CD25 Partner: ADCT	Lymphoma					
	Acute myeloid leukemia (AML)	Anno	unced			
HuMax-IL8 Target: IL-8 Partner: Cormorant	Metastatic solid tumors		$\rightarrow$			
➢ 30 Active Pre-clinical programs incl. HuMax-AXL-ADC	Partnered programs: HuMab, DuoBody & HexaBody					
	Proprietary programs: HuMab, HuMab-ADC, DuoBody, DuoBody-ADC & HexaBody					

### Genmab

# Darzalex<sup>™</sup> (daratumumab) First-in-Class Antibody with Broad-Spectrum Killing Activity

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Sponsored by J

### First-in-Class Fully Human Antibody

- Targets CD38 five ways of attacking cancer cells
- Multiple Myeloma & other blood cancers
- Blockbuster potential
- Promising MM clinical data
- Broad & expansive development in MM
- Breakthrough Therapy Designation

#### Partner: Janssen Biotech

- Janssen funds development & commercialization
- > \$1.1B potential deal value, + double-digit royalties
- Zero cost / limited financial risk for Genmab
- Approved by the FDA, November 2015
- MAA filed with EMA, September 2015, accelerated assessment granted

Expar	nsive Dara	tumumab C	linica	al De	velopn		Senmab	
Indication	dication Disease Stage	Thorany	No.	Development Phase				
mulcation			Pts*	1	I/II	II	III	
Multiple Myeloma**	Front line (transplant & non-transplant)	Dara + VMP	700		MMY300	07 (Alcyone	)	
		Dara + Revlimid + Dex	730		MMY3	008 (Maia)		
		Dara + VTD	1,080		MMY3006	6 (Cassiopei	a)	
	Relapsed or Refractory	Multi combo: 1 Study	190	MMY1	001 (Equul	leus)		
		Dara + Revlimid + Dex	45		GEN50	3		
		Dara + Revlimid + Dex	570		MMY30	03 (Pollux)		
		Dara + Velcade + Dex	480		MMY30	04 (Castor)		
		Dara +Vel+Dex, Japan	6	MMY1	005			
		Mono, Japan	9	MMY1	002			
		Mono, safety	104	G	EN501			
		Subcutaneous	128	MMY1	004			

\*Approx. no. based on clinicaltrials.gov \*\*Maintenance integrated into some study protocols

VMP = bortezomib & melphalan-prednisone VTD = bortezomib, thalidomide & dexamethasone BTD = Breakthrough Therapy Designation

#### Genmab

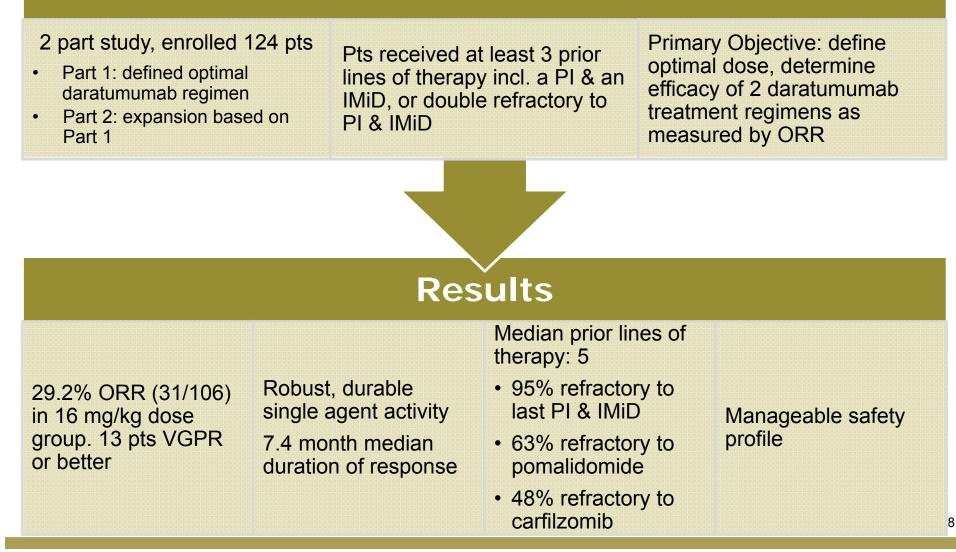
# **Expansive Daratumumab Clinical Development** Additional Indications

Indication	Disease Stage		No. Devel			pment Phase		
		Therapy	Pts*	I	I/II	II	ш	
yeloma**	High Risk Smoldering	Mono	120	SMM	12001 (Cer	ntaurus)		
Multiple Myeloma**	Double Refractory	Mono, BTD population (BLA PDUFA March 9, 2016)	124	MMY2002 (Sirius)				
NHL (DLBCL / MCL / FL)	Relapsed or Refractory	Mono	210	LY	′M2001 (Ca	arina)		

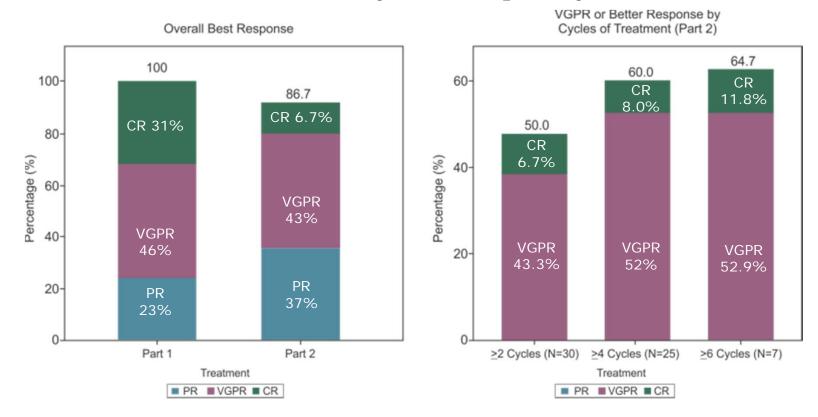


### **Positive Results:** Daratumumab Ph II Study Double Refractory MM (filed FDA)

### **Study Design**



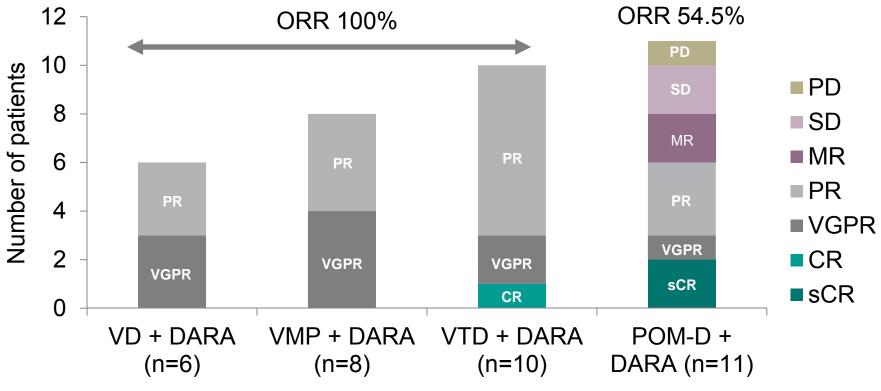
# Daratumumab: Early Signs of Clinical Activity Ph I/II Revlimid Combo Study in Multiple Myeloma



- Part 1; ORR 100% (31% CR, 46% VGPR)
- Part 2; ORR 87% (7% CR, 43% VGPR)
- 75% VGPR or better in patients treated for at least 6 months

Genmab

Daratumumab: Early Signs of Clinical Activity Ph Ib MM Combo Study with Velcade / Pomalidomide Regimens



- ORR:
  - 100% in newly diagnosed group (Velcade combinations)
  - 54.5% in relapsed group -2 sCR (POM-D combination)

V, bortezomib; D, dexamethasone; DARA, daratumumab; M, melphalan; P, prednisone; T, thalidomide; POM, pomalidomide. sCR, stringent complete response; VGPR, very good partial response; PR, partial response; MR, minimal response; PD, progressive disease.

Genmab

# Arzerra<sup>®</sup> (ofatumumab)

Sales by GSK

- 2014 sales GBP 54.5M (~\$82.2M); royalty DKK 101M
- Genmab Cancer Royalty = 20%

Hrzerro 1 steriit koncentrat steriili konsentraat Ofatumumab/Ofat i.v. 1000 mg/50 ml

### **Our First Marketed Product**

- Human antibody targeting CD20 on cancerous B-cells
- Differentiated vs other CD20 mAb, targets slice of > \$8B market

#### Cancer

- Approved\*
  - US 1<sup>st</sup> Line CLL in combo w/ chlorambucil
  - EU 1<sup>st</sup> Line CLL in combo w/ chlorambucil or bendamustine
  - Fludarabine and alemtuzumab refractory CLL
- Phase III trials in CLL & FL
- · Partnered with Novartis
- US & EU reg. subm. for maintenance therapy relapsed CLL
  - PDUFA date: Jan. 21, 2016

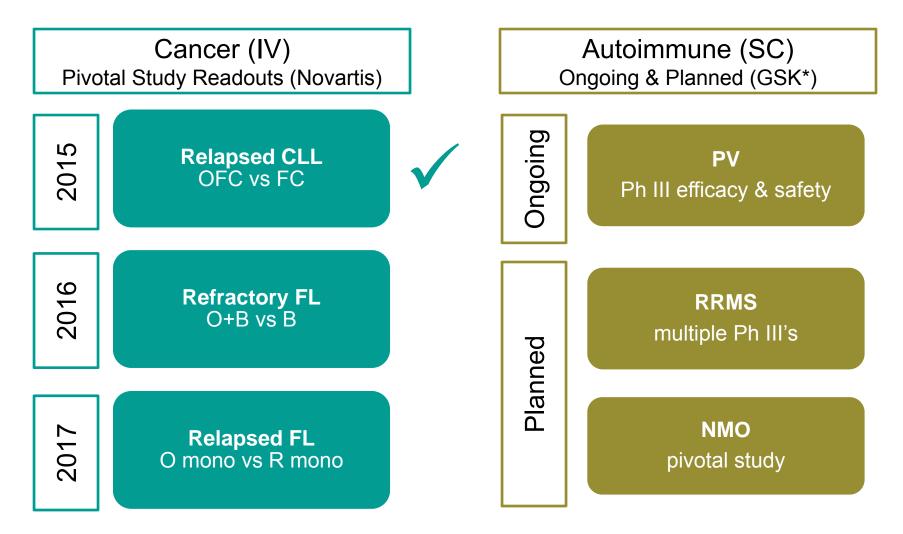
#### Autoimmune diseases (unapproved)

- · Phase III trial ongoing in PV
- Relapsing remitting MS Ph III's & pivotal NMO trials announced
- Current partner GSK; Aug. 2015 Novartis announced acquisition of AI rights from GSK

\*In US approved in combination with chlorambucil for the treatment of previously untreated patients with CLL for whom fludarabine-based therapy is considered inappropriate as well as for the treatment of patients with CLL refractory to fludarabine and alemtuzumab.

In EU approved in combination with chlorambucil or bendamustine for the treatment of patients with CLL who have not received prior therapy and who are not eligible for fludarabinebased therapy, as well as for the treatment of patients with CLL refractory to fludarabine and alemtuzumab.

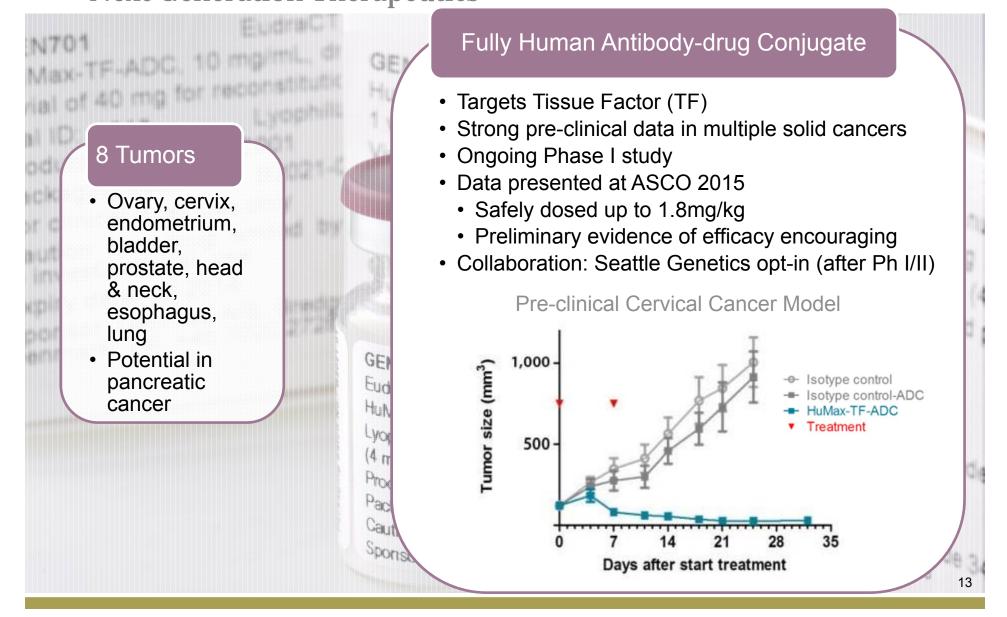
# **Ofatumumab: Planned & Ongoing Trials**



Note: The indications above are unapproved

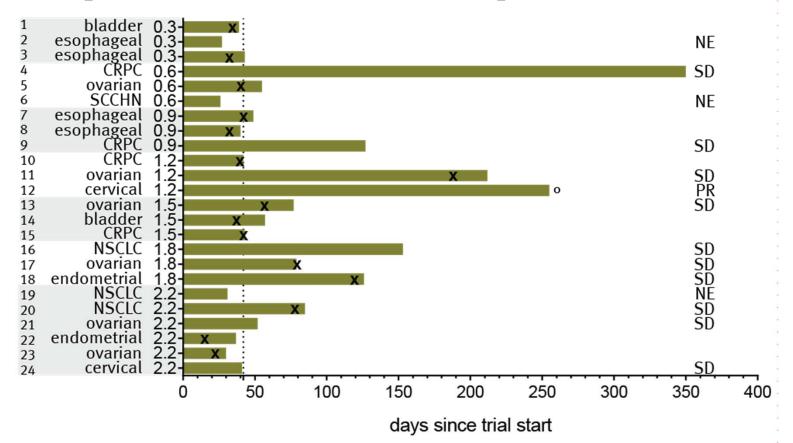
\*AI rights to be acquired by Novartis

## HuMax<sup>®</sup>-TF-ADC: In the Clinic Next Generation Therapeutics



#### Genmab

### HuMax-TF-ADC in Patients with Solid Tumors Best Response and Duration of Follow-up

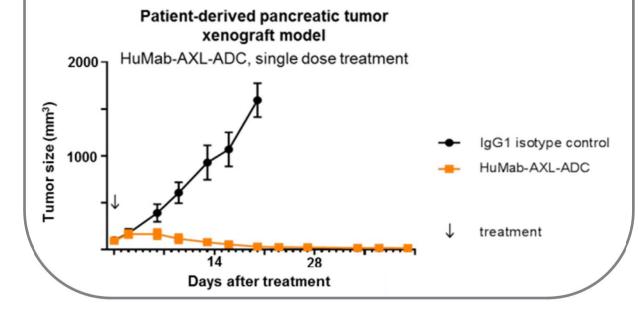


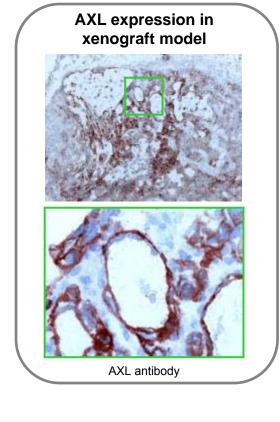
 Footnote: X denotes time of disease progression. Patients still in the trial have an "O" following the end of their bar. Dashed vertical line at 6 weeks denotes the SD-threshold, Not evaluable (because of insufficient follow-up) patients are denoted with an NE. SD: stable disease, PR: partial response.

# HuMax-AXL-ADC Efficacy in *in vivo* Tumor Model

### Fully Human Antibody-Drug Conjugate

- Targets AXL signaling molecule expressed on many solid cancers
- HuMax-AXL-ADC shows anti-tumor activity in patient-derived xenograft model with heterogeneous target expression
- Collaboration: Seattle Genetics







### DuoBody<sup>®</sup> Technology Efficient & Versatile Platform for Bispecific Antibodies

### DuoBody

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

### **Ongoing Collaborations**

- 5 Commercial deals
  - Novartis (2 progr., \$175M potential deal value + royalties)
  - Janssen Biotech (20 progr., \$3.6B potential deal value + royalties)
  - Novo Nordisk (2 progr. \$250M each exclusive license / \$200M each non-exclusive license + royalties)
  - BioNovion\* (expansion research deal, joint development / ownership)
  - BioNTech (joint development / ownership)
- 4 Research deals
- Undisclosed major Biotech, Agenus, Humabs BioMed, Pierre Fabre

\*Sept 2015 Aduro BioTech, Inc. announced definitive agreement to acquire BioNovion

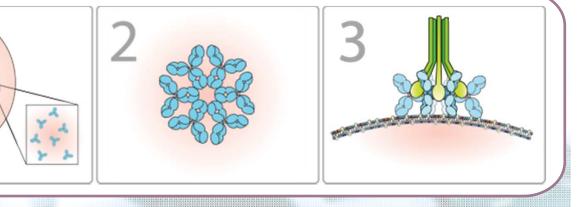


# HexaBody<sup>TM</sup> Technology Robust Effector Function Enhanced Antibodies

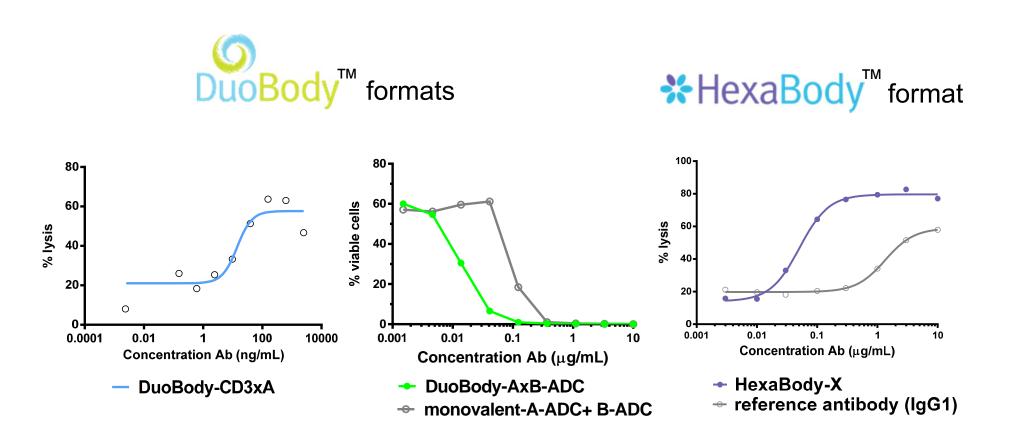
### HexaBody

\*HexaBod

- Enables antibodies to readily form clusters of 6 (hexamers)
- Induces & enhances target cell killing after binding via CDC
- CDC capability to essentially any antibody
- Builds on natural antibody biology minimal engineering
- Create novel, differentiated products in cancer & infect. dis.
- Repurpose / rescue drug candidates that failed in Phase II/III
- Life cycle management
- Collab. w. undiscl. major Biotech, Humabs BioMed & Agenus

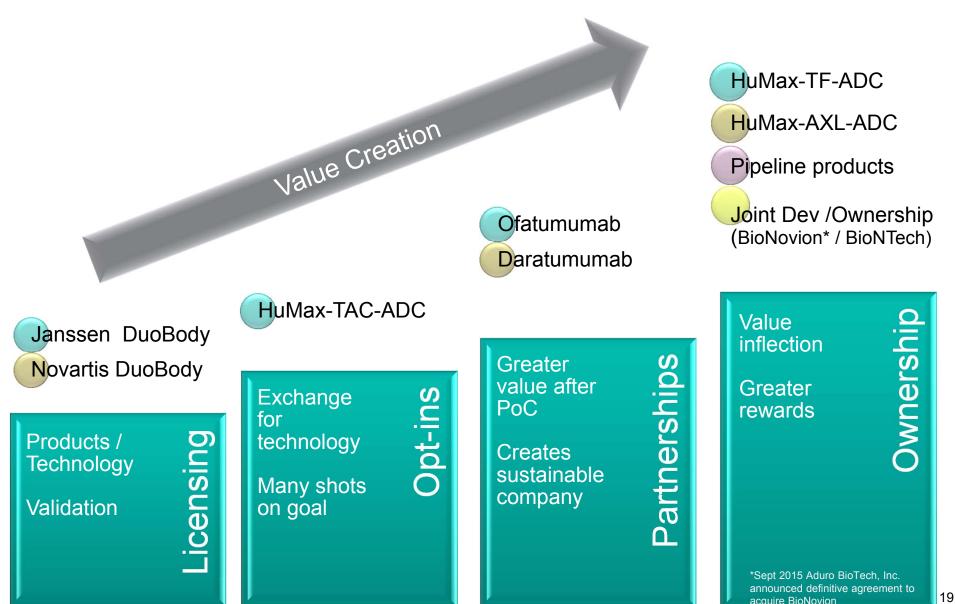


## **Genmab's Robust Innovative Pre-Clinical Pipeline**





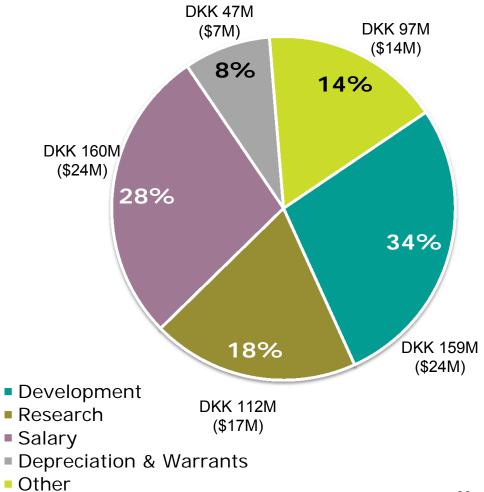
# **Creating Value With Our Technologies**



# Well-Capitalized Biotech – 2015 Guidance

Income Statement	DKKM	USDM*	
Revenue	1,025 – 1,100	154 - 165	
Operating expenses	(550) – (600)	(83) – (90)	
Reversal of GSK Liability	175	26	
Operating income	625 - 700	94 - 105	
Cash position at end of year**	3,000 – 3,100	451 - 466	

\*USD 1.00 = DKK 6.6588 (September 30, 2015) \*\*Cash, cash equivalents and marketable securities 2015 Expense Base DKK 575M (\$86M)



2015 Guidance – November 3, 2015. Revised on November 16, 2015 following the approval of Darzalex



# **2015 Goals: Maximizing Pipeline Value**

Priority	$\checkmark$	Targeted Milestone
Maximize daratumumab clinical progress	✓ ✓ ✓	<ul> <li>» Phase II MM monotherapy data and if favorable, discuss regulatory next steps with health authorities</li> <li>» Start multiple new MM trials</li> <li>» Start non-MM clinical trial</li> </ul>
Optimize ofatumumab value	✓ ✓ X	<ul> <li>» File for an additional indication</li> <li>» Phase III relapsed CLL data</li> <li>» Start Phase III sc autoimmune trials*</li> </ul>
Strengthen differentiated product pipeline	✓ ✓ ✓	<ul> <li>» Phase I HuMax-TF-ADC data</li> <li>» Progress HuMax-AXL-ADC</li> <li>» Progress pre-clinical DuoBody &amp; HexaBody projects</li> </ul>
Broaden partnership portfolio with next generation technologies	<ul> <li>✓</li> <li>✓</li> </ul>	<ul> <li>» Expand DuoBody &amp; HexaBody collaborations</li> <li>» Progress partnered programs</li> <li>» New IND filings</li> </ul>
Disciplined financial management	<b>√</b>	» Maintain cost base while selectively investing to advance pipeline

\*This milestone is not expected to be completed in 2015 due to the expected transfer of the rights for ofatumumab in autoimmune indications from GSK to Novartis.



## **On Track to a Sustainably Profitable Future**



- Robust differentiated product pipeline
  - Daratumumab, ofatumumab, HuMax-TF-ADC
  - Innovative pre-clinical pipeline
- Proprietary technologies -DuoBody & HexaBody
- Partnerships → Product ownership
  - Well capitalized
- Positioned for success
  - For patients & shareholders



# Better Antibodies By Design

