

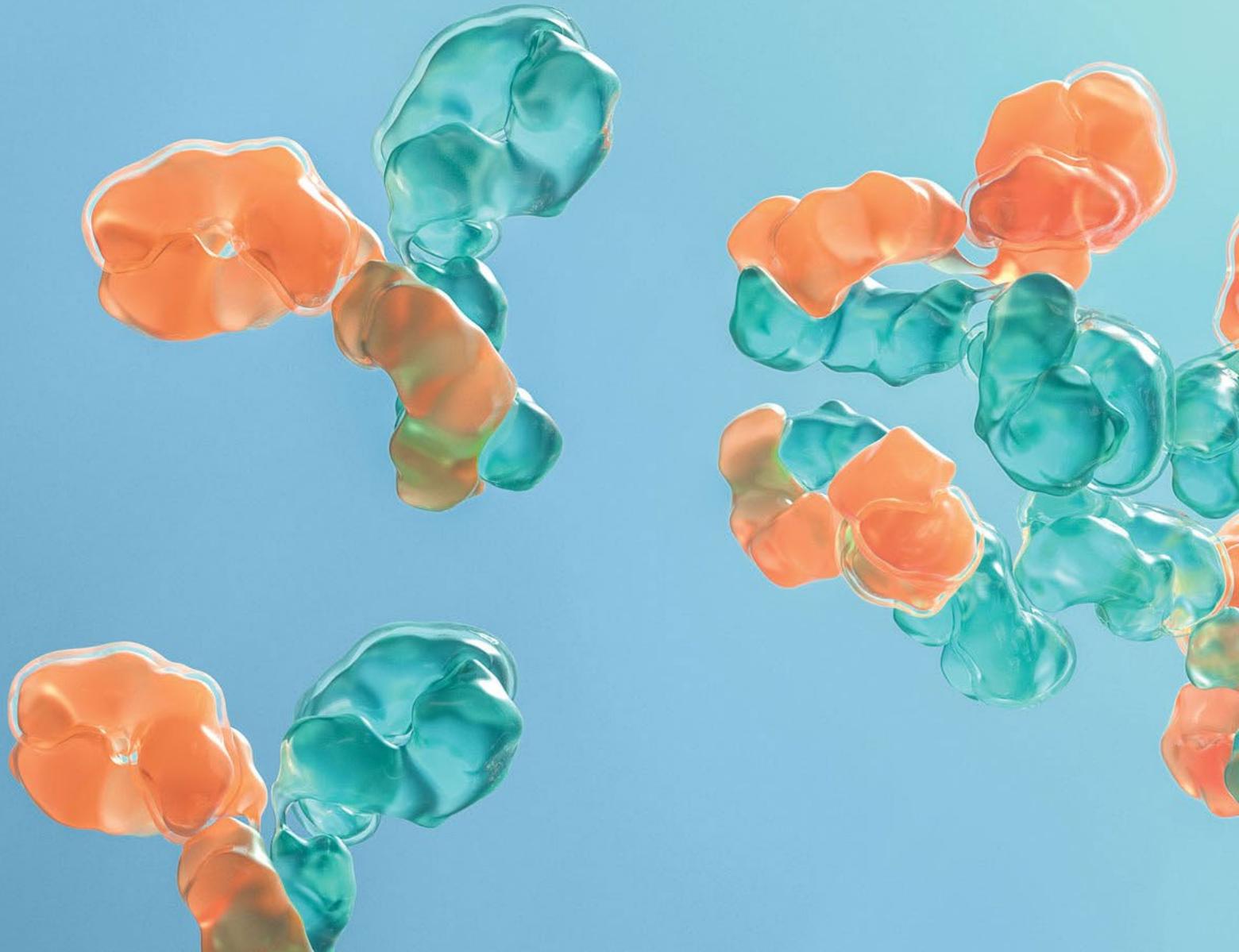


Genmab

Rooted in Science, Inspired by Patients

41st Annual J.P. Morgan Healthcare
Conference

January 11, 2023



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. Genmab does not undertake any obligation to update or revise forward looking statements in this presentation nor to confirm such statements to reflect subsequent events or circumstances after the date made or in relation to actual results, unless required by law.

Towards 2030: Evolving Into a Fully Integrated Biotech Innovation Powerhouse



Core Purpose

Our unstoppable team will improve the lives of patients through innovative and differentiated antibody therapeutics.

Our Strategy

- ✓ Focus on core competence
- ✓ Turn science into medicine
- ✓ Build a profitable & successful biotech

Vision

By 2030, our KYSO antibody medicines are fundamentally transforming the lives of people with cancer and other serious diseases.

Solid Track Record and Financial Foundation Fuel Our Growth

- ✓ 40 Cumulative INDs since 1999
- ✓ Innovative clinical pipeline: 9 Genmab owned $\geq 50\%$
- ✓ 6 approved medicines based on Genmab's innovation and antibody expertise
- ✓ First medicine on the market: Tivdak[®] (tisotumab vedotin-tftv), co-promoting with Seagen in U.S.
- ✓ Growing recurring revenue
- ✓ Sustainably profitable with cash position of ~USD 3B
- ✓ Investing in our capabilities
- ✓ Experienced, international leadership team



Tivdak is being co-developed and co-promoted by Genmab and Seagen.

The Genmab Model



Deep insight into antibody biology & disease targets

- Solid tumors
- B-cell NHL
- Multiple Myeloma



Proprietary technologies enable us to build a world-class pipeline

- DuoBody[®]
- HexaBody[®]
- DuoHexaBody[®]
- HexElect[®]



Match in-house expertise with strategic collaborations & partnerships

- Discovery / academic
- Technology based
- Product based



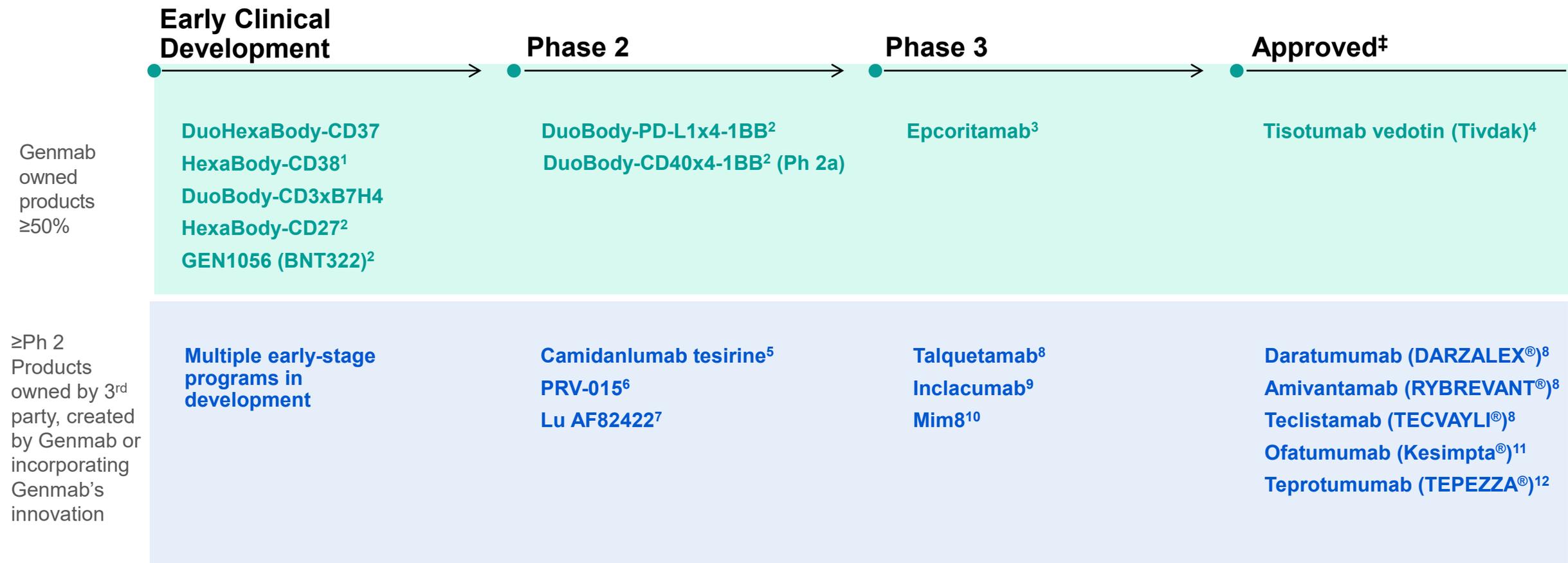
Strong pipeline of potential 1st-in-class / best-in-class products

- Tisotumab vedotin
- Epcoritamab
- DuoBody-PD-L1x4-1BB
- DuoBody-CD40x4-1BB
- DuoHexaBody-CD37
- HexaBody-CD38
- DuoBody-CD3xB7H4
- HexaBody-CD27



Tisotumab vedotin is being co-developed and co-promoted in the U.S. by Genmab and Seagen; Epcoritamab is being co-developed by Genmab and AbbVie; DuoBody-PD-L1x4-1BB (GEN1046/BNT311), DuoBody-CD40x4-1BB (GEN1042/BNT312) and HexaBody-CD27 (GEN1053/BNT313) are being co-developed by Genmab and BioNTech; HexaBody-CD38 is being developed in exclusive worldwide license and option agreement with Janssen.

Innovative Clinical Pipeline: Genmab Proprietary* and Partnered Products - Most Advanced Development Phase



*Products where Genmab has ownership of at least 50%

‡See local prescribing information for full indications / safety information

¹Genmab is developing HexaBody-CD38 in an exclusive worldwide license and option agreement with Janssen;

²Co-development with BioNTech; ³Co-development with AbbVie; ⁴Co-development with Seagen; ⁵Development

by ADC Therapeutics; ⁶Development by Provention Bio; ⁷Development by Lundbeck; ⁸Development and/or

discovery by Janssen; ⁹Development by Global Blood Therapeutics; ¹⁰Development by Novo Nordisk;

¹¹Development by Novartis; ¹²Development by Horizon Therapeutics



World-class R&D Engine



DuoBody technology



HexaBody technology



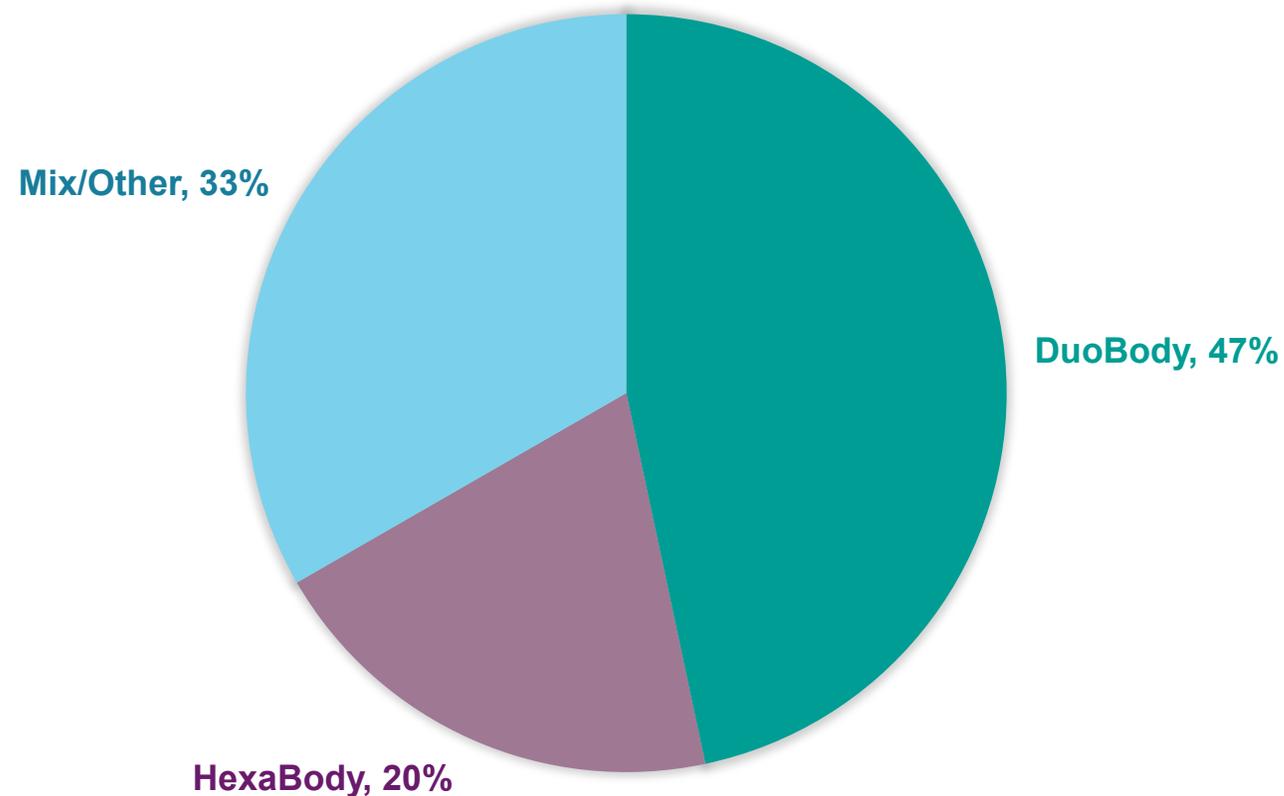
DuoHexaBody technology



HexElect technology



Innovative Technologies Powering Our Pipeline

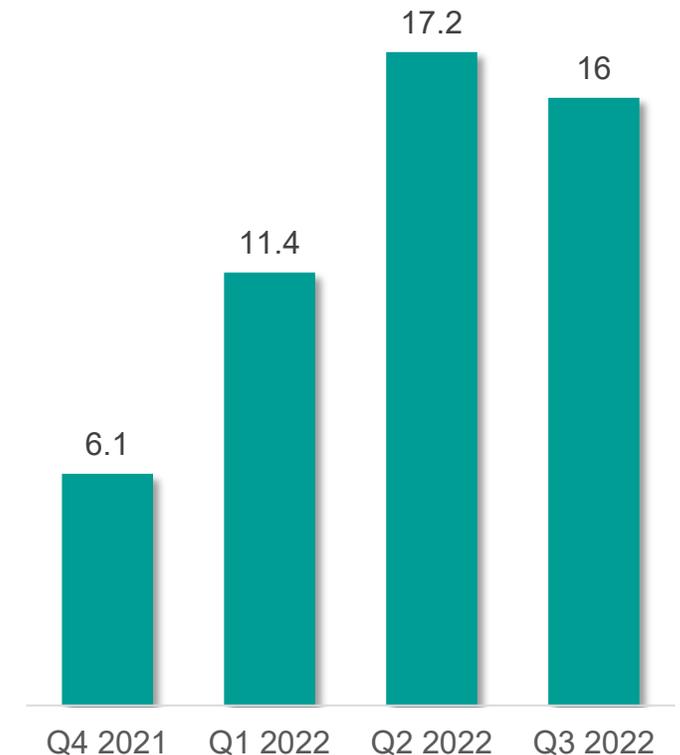


First Genmab Approved Therapy: Tivdak (tisotumab vedotin-tftv) in Collaboration with Seagen

- U.S FDA accelerated approval: recurrent or metastatic cervical cancer with disease progression on or after chemo*
- 1st and only approved ADC for this population
- First Genmab-owned therapy to receive regulatory approval
- Pursuing potential in early lines of Cervical Cancer and in other solid tumors



Sales Since Launch (USD M)

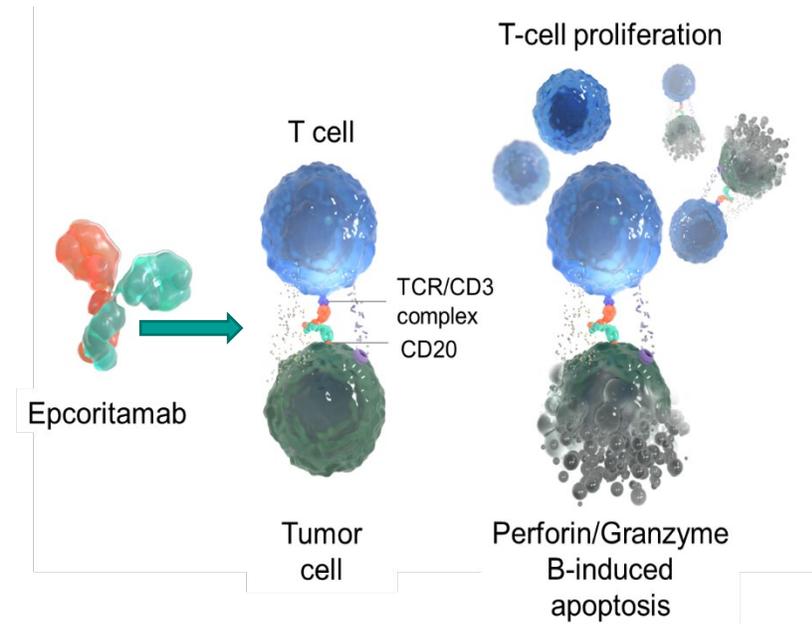


Epcoritamab (DuoBody-CD3xCD20) in Collaboration with AbbVie

- Demonstrated manageable safety profile, substantial antitumor activity in patients with heavily pretreated B-cell NHL in first-in-human trial¹
- Bispecific antibody delivered as off the shelf, rapid, SC injection, studied in B-NHL^{2,3}
- 2022: regulatory submissions in U.S., EU and Japan
- BLA **received Priority Review** from U.S. FDA



Mechanism of Action



TCR, T-cell receptor.

1. Hutchings M, et al. *Lancet*. 2021;398:1157-69. 2. Engelberts PJ, et al. *EBioMedicine*. 2020;52:102625. 3. van der Horst HJ, et al. *Blood Cancer J*. 2021;11:38.

Broad Collaboration with BioNTech



DuoBody-PD-L1x4-1BB (GEN1046/BNT311)

- First-in-class, bispecific next gen. checkpoint immunotherapy
- Potential in solid tumors
- Encouraging clinical activity & manageable safety¹
- Phase 2 trial in combo. with pembrolizumab in recurrent NSCLC and Phase 1/2 trial - expansion cohorts ongoing in other solid tumors



DuoBody-CD40x4-1BB (GEN1042/BNT312)

- First-in-class bispecific next gen. immunotherapy
- Potential in solid tumors
- Encouraging clinical activity & manageable safety²
- Phase 1/2 trial - expansion cohorts, incl. combination therapy with pembrolizumab and chemo, currently enrolling



HexaBody-CD27 (GEN1053/BNT313)

- Proprietary HexaBody technology
- Potential in solid tumors
- In preclinical studies *in vitro* and *in vivo*, HexaBody-CD27 increased T-cell activation, proliferation, cytokine secretion, cytotoxic activity³
- FiH study in solid tumors currently ongoing



1. Garralda E, et al. SITC 2020. Poster 412..
2. Johnson M. et al SITC 2021
3. Nürnberg K. et al SITC 2022
50:50 Collaboration with BioNTech for all investigational medicines

Genmab Owned Investigational Medicines in Clinical Development

DuoHexaBody-CD37 (GEN3009)

- Combination of DuoBody & HexaBody platforms
- Novel target for hematological malignancies
- Unique MoA
- Dose escalation ongoing incl. arm in combo w/ epcoritamab

HexaBody-CD38 (GEN3014)

- Proprietary HexaBody technology
- Promising data in pre-clinical models for MM, DLBCL & AML
- Potentially add to/broaden DARZALEX franchise
- Preliminary dose escalation data: ASH 2022
- Developing under exclusive WW license and option agreement with Janssen

DuoBody-CD3xB7H4 (GEN1047)

- Proprietary DuoBody technology
- In preclin. studies, induced T-cell mediated cytotoxicity of B7H4-positive tumor cells
- Potential in solid cancer indications known to express B7H4
- Dose escalation ongoing

Building Our Capabilities



Research

Track record of success and investing for tomorrow

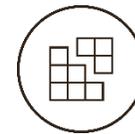
- State-of-the-art facilities
- Novel technologies and formats
- External innovation



Development

Scaling up to expand from early to late stage

- Clinical development & operations
- Disease area expertise
- Medical Affairs, Translational Research, Safety and Regulatory



Commercialization

Evolving into end-to-end, fully integrated biotech

- Experienced team in place
- Focused on U.S. and Japan
- First successful launch: Tivdak

Enabling functions to support growth & manage risk

Data Sciences to drive insights

Approved Antibody Therapeutics Incorporating Genmab's Innovation



Developed & commercialized
by Janssen

Redefining Treatment of
Multiple Myeloma (MM)*



Developed &
commercialized by Novartis

Approved in U.S., EU &
Japan in relapsing multiple
sclerosis (RMS)*



Developed and
commercialized by Horizon
Therapeutics

Approved in U.S. in thyroid
eye disease (TED)*



Medicines Incorporating Genmab's DuoBody Technology



Developed &
commercialized by
Janssen

Approved in U.S. & EU
for patients with locally
advanced or metastatic
NSCLC with EGFR
Exon 20 insertion
mutations*



Developed &
commercialized by Janssen

Approved in U.S. & EU for
patients with relapsed and
refractory MM*

*See local prescribing information for full indication and safety information.

2022 Guidance

Recurring Revenue Growth and Focused Investments

| Key Figures (DKKM) | Guidance | ~USDM |
|--------------------|-------------------|-------------------|
| Revenue | 13,500 – 14,500 | 1,875 – 2,014 |
| Operating Expenses | (8,000) – (8,400) | (1,111) – (1,167) |
| Operating Profit | 5,100 – 6,500 | 708 – 903 |

DARZALEX royalties of ~DKK 10.0B to ~DKK 10.3B to drive significant 69%* growth in recurring revenue

Operating expenses driven by expanding and accelerating our clinical pipeline and investing in accelerated epcoritamab launch readiness activities

Significant underlying profitability



**Mid-point of guidance range.
All amounts in DKK millions unless otherwise noted
2022 guidance assumes a USD/DKK exchange rate of 7.2*

2023 Priorities:

Further Advancing Our
Differentiated Product
Pipeline Towards The Market

K Y S O
KNOCK YOUR SOCKS OFF



Bring Our Own Medicines to Patients

Epcoritamab¹

- Launch in R/R DLBCL²
- Submit an sBLA³
- Broaden clinical development program

Tivdak⁴

- Progress successful uptake in 2L+ r/m Cervical Cancer patients
- Progress clinical development program



Invest in Our People & Culture

Further scale organization aligned with differentiated antibody product portfolio growth and future launches



Build World-class Differentiated Pipeline

DuoBody-CD40x4-1BB⁵

- Establish efficacy and safety data in solid tumor indication⁶
- Progress towards late-stage clinical development

DuoBody-PD-L1x4-1BB⁵

- Establish proof of concept data in solid tumor indication

Expand and advance proprietary clinical product portfolio



Become a Leading Integrated Biotech Innovation Powerhouse

Use solid financial base to grow and broaden antibody product and technology portfolio

1. Co-development w/ AbbVie; 2. Subject to regulatory approvals; 3. Subject to supportive U.S. FDA feedback; 4. Co-development w/ Seagen; 5. Co-development w/ BioNTech; 6. NCT04083599

Driving Towards Our 2030 Vision



- **Clear Vision**
- **Focused Strategy**
- **Effective Execution**



Genmab Today

- ✓ 1 approved medicine
- ✓ 1 potential near-term product launch
- ✓ Significant & growing recurring revenues
- ✓ Strong rationale to invest
- ✓ Focused & disciplined



Our Future

- ✓ Fully-integrated biotech innovation powerhouse

Rooted in Science,
Inspired by Patients



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