UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

FOR THE MONTH OF NOVEMBER 2024

COMMISSION FILE NUMBER 001-39081

BioNTech SE

(Translation of registrant's name into English)

An der Goldgrube 12
D-55131 Mainz
Germany
+49 6131-9084-0
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F: Form 20-F \boxtimes Form 40-F \square Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): \square Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): \square

DOCUMENTS INCLUDED AS PART OF THIS FORM 6-K

On November 14, 2024, BioNTech SE is hosting an edition of its Innovation Series Day. The presentation is attached as Exhibit 99.1.

SIGNATURE

Pursuant to the requirements of the Exchange Act, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BioNTech SE

By: /s/ Jens Holstein

Name: Jens Holstein Title: Chief Financial Officer

Date: November 14, 2024

By: /s/ Dr. Sierk Poetting

Name: Dr. Sierk Poetting Title: Chief Operating Officer

EXHIBIT INDEX

<u>Exhibit</u> <u>Description of Exhibit</u>

99.1 <u>Presentation</u>





This Slide Presentation Includes Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, but not limited to, statements concerning: BioNTech's expected revenues and net profit/(loss), particularly for those figures that are derived from preliminary estimates provided by BioNTech's partners; the rate and degree of market acceptance of BioNTech's expected revenues and net profit/(loss), particularly for those figures that are derived from preliminary estimates provided by BioNTech's partners; the rate and degree of market acceptance of BioNTech's expectations regarding anticipated changes in COVID-19 vaccine demand, including changes to the ordering environment and expected regulatory recommendations to adapt vaccines to address new variants or sublineages; the initiation, timing, progress, results, and cost of BioNTech's research and development programs, including BioNTech's current and future preclinical studies and clinical trials, including statements regarding the expected timing of initiation, enrollment, and completion of studies or trials and related preparatory work and the availability of results, and the timing and outcome of applications for regulatory approvals and marketing authorizations. BioNTech's expectations regarding potential future commercialization in oncology, including goals regarding iniming and indications; the targeted timing and number of additional potentially rejistrational trials, and the registrational potential or any initiate; discussions with regulatory approvals; the impact of BioNTech's expectations with respect to intellectual property; BioNTech's acquisition of Biotheus, which is subject to customary closing conditions, including regulatory approvals; the impact of BioNTech's acquisition of Biotheus upon closing; collaboration and licensing agreements; the development, nature and feasibility of sustainable vaccine production and supply solutions; the deployment of Al across BioNTech's preclinical and clinical

The forward-looking statements in this presentation are based on BioNTech's current expectations and beliefs of future events, and are neither promises nor guarantees. You should not place undue reliance on these forward-looking statements because they involve known and unknown risks, uncertainties, and other factors, many of which are beyond BioNTech's control and which could cause actual results to differ materially and adversely from those expressed or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to: the uncertainties inchanted in research and development, including the ability to meet anticipated clinical endpoints, commencement and/or completion dates for clinical trials, projected data release timelines, regulatory submission dates, regulatory approval dates and/or launch dates, as well as risks associated with preclinical and clinical data, including the data discussed in this release, and including the possibility of unfavorable new preclinical, clinical or safety data; the nature of the clinical data, which is subject to ongoing peer review, regulatory submission dates, regulatory submission dates, regulatory approval dates and/or launch dates, as well as risks associated with preclinical and clinical data, which is subject to ongoing peer review, regulatory review and market interpretation: BioNTech's pricing and coverage negotiations regarding its COVID-19 vaccines or related to BioNTech's ability to or related to BioNTech's dollers product candidates, including those with different mechanisms of action and different manufacturing and distribution constraints, on the basis of, among other things, efficacy, cost, convenience of storage and distribution, breadth of approved use, side-effect profile and durability of immune response; the timing of and BioNTech's ability to obtain and mainten regulatory approval for its product candidates; the ability of BioNTech's advertise or late of the product candidates; the ability of BioNTech's advertise t

BIONTECH

Innovation Series 2024 – Today's Presenters

Prof. Ugur Sahin, M.D. Chief Executive Officer, Co-founder



Annemarie Hanekamp Chief Commercial Officer



Prof. Ilhan Celik, M.D. Vice President, Clinical Development



Michael Wenger, M.D. Vice President, Clinical Development







__ Innovation Series 2024 Agenda

1	Welcome and Introductory Remarks	10:30 AM	15 min
_ 2	The Next Frontiers in Oncology	10:45 AM	45 min
 3	Commercialization: Next Era of BioNTech	11:30 AM	15 min
 4	BNT327 ¹ Clinical Development Strategy	11:45 AM	45 min
	Break	12:30 PM	15 min
	mRNA Cancer Vaccines	12:45 PM	30 min
 6	Select Targeted Therapies: HER2-ADC BNT323/DB-1303 ² & CLDN6 CART BNT211	1:15 PM	25 min
 7	Path to Value Creation	1:40 PM	5 min
	Closing Remarks and Q&A	1:45 PM	30 min

Partnered with: 1. Biotheus; 2. DualityBio.



BioNTech's Journey

2008

Founding & Platform Building Seed financing & first collaborations



2019

Nasdaq IPO



2020-2022

COMIRNATY®¹ Development, approval & worldwide launch



From 2023

Advancing towards becoming a multi-product biotechnology company







Entering a new stage of value creation for patients, society and shareholders

Partnered with 1. Pfizer; 2. Genentech, a member of the Roche Group; 3. DualityBio



ECH

Driven to Address the World's Most Pressing Health Challenges With pioneering technologies delivered at scale



1. Partnered with Pfizer; 2. As of Q3 2024; 3. Consists of cash and cash equivalents of €9,624.6 million, non-current security investments of €1,137.2 million, and current security investments of €7,078.0 million, as of September 30, 2024.



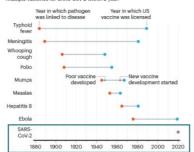
Developing and Approving the First mRNA Medicine

The fastest vaccine development in the history of medicine¹

The strongest launch of any pharmaceutical product²

VACCINE INNOVATION

Most vaccines take years to develop, but scientists cre multiple vaccines for SARS-CoV-2 within a year.



>4.9 billion doses of BNT162b2 shipped

>180 countries and territories³



1. Ball P. Nature. 2021; 2. Measured by sales recorded for a single product in a single year (>\$40 billion combined of direct sales recorded by Pfizer or BioNTech in both 2021 and 2022); 3. Cumulative doses shipped in the years 2021, 2022 and 2023.



Long-Term Need for Seasonally Adapted Vaccines Anticipated

Continuous evolution

Ongoing antigenic evolution of SARS-CoV-2^{1,2}

Long-term health consequences

Accumulating evidence demonstrates that COVID-19 vaccination reduces long-COVID⁴



Risk remains high

For severe COVID-19 in vulnerable populations³

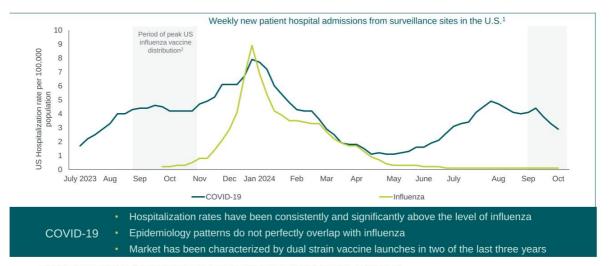
Variant-adapted vaccines

Designed to be effective against multiple variants of concern⁵

1. World Health Organization Tracking SARS-CoV-2 variant <a href="https://doi.org/10.25/14.25/24



— COVID-19 and Influenza Disease Burdens Show Different Seasonality Patterns



 $\underline{1.} \ Respiratory \ Virus \ Hospitalization \ Surveillance \ Network; \ Data \ last \ updated: \ November \ 1., 2024; \ 2. \ https://www.cdc.gov/flu/hcp/vaccine-supply/2023-2024.htm \ Annual Proposition \ Pro$



Variant-Adapted Vaccine Approval Timelines Came Earlier as Compared to 2023

Approval da	tes of variant-adapted COVII	D-19 vaccines¹		
	2023	2024	Approval Date Change	
U S	Sep 11 (XBB.1.5)	Aug 22 (KP.2)	20 days	
EC EC	Sep 1 (XBB.1.5)	Jul 3 (JN.1)	60 days	
UK	Sep 5 (XBB.1.5)	Jul 24 (JN.1)	43 days	
● JP	Sep 1 (XBB.1.5)	Aug 8 (JN.1)	24 days	

Potential for further alignment of regulatory timelines and COVID-19 seasonal epidemiology to meet public health needs

Partnered with Pfizer;
1 is a SARS,CoV-2 variant, KR 2 is a lineage of the 1N 1 variant, KR 2 vaccine.

N.1 is a SAKS-COV-2 variant, KP.2 is a lineage of the JN.1 variant. KP.2 vaccine approval took place on September 26 and October 10 in the EU and UK, respectively

COVID-19 Vaccine Franchise¹ with Lean Cost Structure



Leveraging COVID-19 Vaccine Business Model for Sustainable Value Creation





Today's Focus: Key Value-Driving Oncology Programs

Transformational Opportunities with Pan Tumor Potential					
\ <u>\</u> ''	BNT327/PM8002 (bispecific PD-L1xVEGF) ¹				
Z	Autogene cevumeran² (personalized mRNA cancer vaccine)				
Z	FixVac (off-the-shelf TAA-targeting mRNA cancer vaccine)				
©	BNT211 (CLDN6-targeted CAR-T + CLDN6 CAR-T amplifying vaccine)				
	BNT323/DB-1303 (HER2 ADC) ³				

Partnered with: 1. Biotheus; 2. Genentech, a member of the Roche Group; 3. DualityBio.



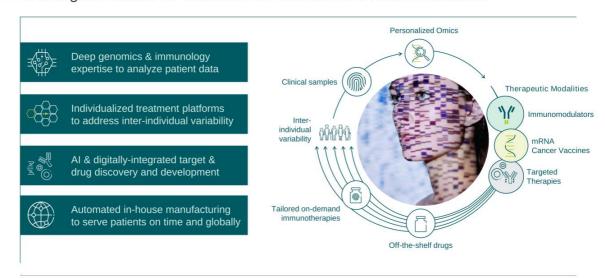
2

The Next Frontiers in Oncology

Prof. Ugur Sahin, M.D. CEO and Co-founder



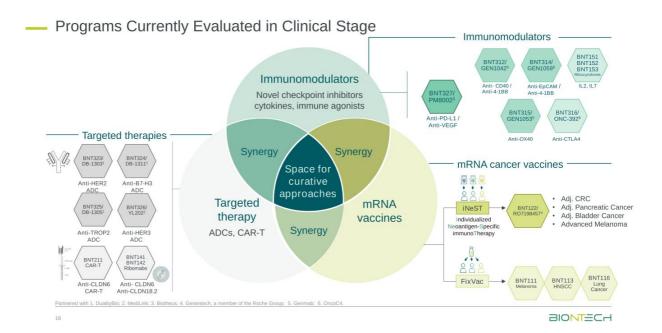
— Charting the Course for Tomorrow's Personalized Precision Medicine



Our Concept Towards a Potentially Curative Approach to Cancer

- Immunomodulators -· Aiming to augment anti-tumorimmunity **Immunomodulators** · Focus on crucial IO pathways Novel checkpoint inhibitors · Bispecific targeting aimed for synergy cytokines, immune agonists · Intended to promote durable antitumor effect -Targeted therapies -Synergy Synergy • Precise therapies aimed to reduce Space for mRNA cancer vaccines tumor burden across all disease stages including late lines approaches Targeted · ADC as potential "augmenters" · Eliminate polyclonal residual **mRNA** disease with multiof immunomodulators and mRNA therapies vaccines antigen approaches and cancer vaccines Synergy ADCs, CAR-T, individualized vaccines Ongoing focus on HER2, HER3, Ribomabs · Polyspecific activity by targeting TROP2, B7-H3 as combination multiple antigens at once partners Establish <u>long-lasting</u> <u>immunological memory</u> to prevent

This is a conceptual slide and does not imply published data as bases for



Select Candidates Suitable for Late-Stage Development Across Multiple Cancer Indications

Immunomodulators BNT327/PM8002¹ PD-L1 × VEGF bispecific antibody Validated across 25+ tumor types with >700 patients treated Anti-VEGF A Anti-PD-L1 • Broad applicability across range of cancers • Planned Ph3 in SCLC, NSCLC and



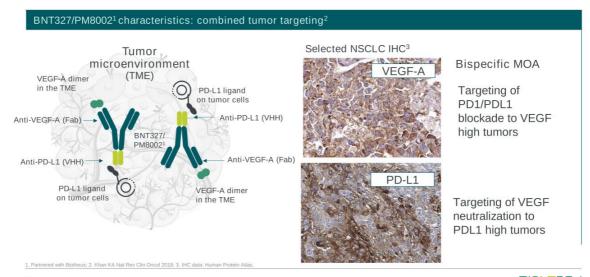


Targeted Therapy BNT211 Autologous CLDN6-targeting CAR-T + CAR-T cell amplifying RNA vaccine ("CARVac") CLDN6 RNA CLDN6 RNA LIPOSOMES • Targeting CLDN6+ cancers, including ovarian, testicular, endometrial, sarcoma, lung, and gastric cancer

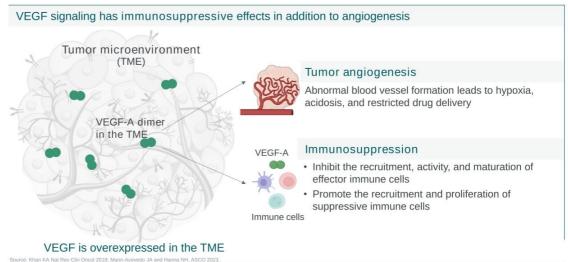
Partnered with; 1. Biotheus. 2. Genentech, a member of the Roche Grou

TNBC

BNT327/PM8002¹: Synergistic Targeting of PD-L1 and VEGF



Anti-VEGF Treatment May Reverse Immune-Suppressive Effects and Potentially Improve Outcome of IO Treatment



BNT327/PM8002¹ is Being Investigated Across Multiple Tumor Types with >700 Patients Treated



BNT327/PM8002¹ with nab-paclitaxel Shows Clinically Meaningful Efficacy Irrespective of PD-L1 Status in 1L TNBC

Phase 1/2b (NCT05918133): clinical activity of BNT327/PM8002¹ in combination with nab-paclitaxel Y. Meng et al. Presented at ESMO 2024. Presentation 384MO PD-L1 PD-L1 PD-L1 CPS<1 1≤CPS<10 CPS≥10 Variable Population 42 9 13 16 (n) ORR % 73.8 76.9 56.3 100.0 -60 DCR % 95.2 100.0 100.0 93.8 ■ 1≤CPS<10 CPS≥10 -100 mPFS (mo) 13.5 NR 14.0 10.8 Benchmark comparator data by PD-L1 expression level Indication Benchmark regimen ORR mPFS mOS Benchmark Study ITT population: mDoR 11.7 mos; mOS not reached TNBC (CPS <10) Chemo 35% 5.6 mo 15.0 mo KEYNOTE-355 ² TNBC (CPS <10) Chemo 35% 5.6 mo 15.0 mo KEYNOTE-355 ²

TNBC (CPS ≥10) Pembro + Chemo 62% 9.7 mo 23.0 mo KEYNOTE-355 ²

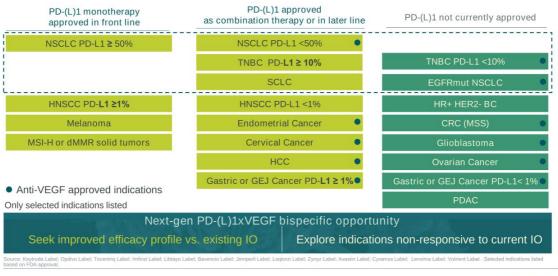
Partnered with Biotheus;
 Cortes, J, et al. N. Engl. J. Med. 2022.
 PD-L1 testing was not done in 4 patients (not shown). ORR: 75.0% and mPFS 14.0 months

BNT327/PM8002¹ May Drive Clinical Benefit Irrespective of PD-L1 Status

BNT327/PM8002¹ can potentially become backbone IO therapy irrespective of PD-L1 status BNT327/PM8002¹ + chemo in 1L TNBC Y. Meng et al. Presented at ESMO 2024. Presentation 384MO BNT327/PM80021 MOA dual mechanisms: tumor PD-L1 CPS<1 targeting and synergy in reversing Anti-VEGF immunosuppression PD-L1 1≤CPS<10 Clinical signals observed ORR 56.3% in studies enrolling >700 Anti-PD-L1 patients across 10+ PD-L1 CPS >10 Indications ORR 100.0%

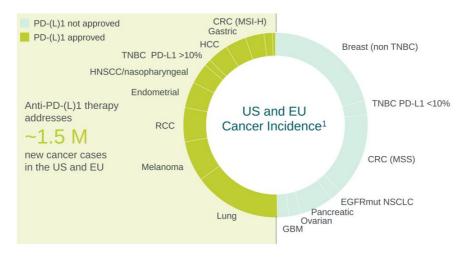
Partnered with Biotheus; Source: Y. Meng et al. Presented at ESMO 2024. Presentation 384MC

— Next-generation Bispecific Can Potentially Expand the Reach of IO Therapy





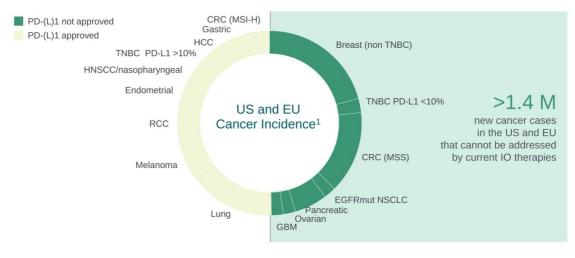
— Anti-PD-(L)1 Therapy Only Addresses a Fraction of Cancer Incidence



1. US incidence source: NIH and American Cancer Society data EU incidence source: European Cancer Information System, Indications listed on the previous slide are shown.



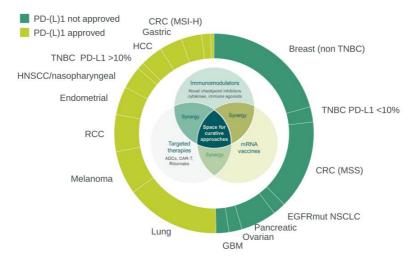
— Significant Patient Population Not Addressed by Existing IO Therapies



1. US incidence source: NIH and American Cancer Society data EU incidence source: European Cancer Information System, Indications listed on the previous slide are shown.



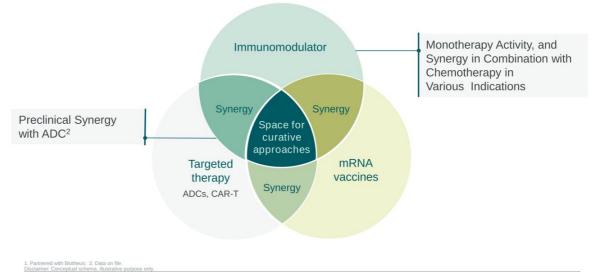
We Aim to Bring New Approaches Across Indications through Our Combination Strategy



1. US incidence source: NIH and American Cancer Society data EU incidence source: European Cancer Information System, Indications listed on the previous slide are shown.

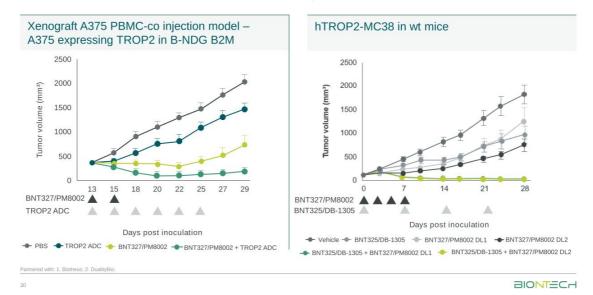


Focus on BNT327/PM8002¹ as Backbone for Late-Stage Development





BNT327/PM8002¹ + BNT325/DB-1305² TROP2-ADC: Preclinical Data Demonstrate Enhanced Anti-Tumor Efficacy when Combined

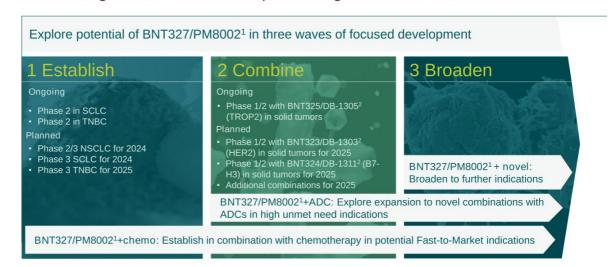


BNT327/PM8002¹ Clinical Development Taking Full Control of Global Rights and Clinical Programs

Global clinical	Indication	Target population	Regimen	Phase	Status	BNT327/PM8002
trials	SCLC	1L or 2L	+ chemo	2	Ongoing	Proven capabilities of BioNTech + Biotheus
	TNBC	1L or 2L	+ chemo	2	Ongoing	
	SCLC	1L	+ chemo vs. atezolizumab + chemo	3	US IND approved	Bion rech + Biotheus
	NSCLC	1L	+ chemo vs. pembrolizumab + chemo	2/3	US IND approved	
	TNBC	1L	+ chemo vs. chemo	3	Planned	>700 patients enrolled
	Selected solid tumors		+ BNT325/DB-1305 ²	1/2	Ongoing	The second secon
	Selected solid tumors		+ BNT324/DB-1311 ²	1/2	US IND approved	across 10+ indications
	Selected solid tumors		+ BNT323/DB-1303 ²	1/2	US IND approved	
China-based	Indication	Target population	Regimen	Phase	Status	19 clinical trials ongoing or planned, including 3 global registrational trials in 1L TNBC, SCLC, and NSCLC
clinical trials	TNBC	1L	+ chemo vs. chemo	3	Ongoing	
	SCLC	2L	+ chemo vs. chemo	3	Ongoing	
	NSCLC	2L+ EGFRmut	+ chemo	2/3	Ongoing	
	SCLC	1L	+ chemo	2/3	Ongoing	
		2L	+ chemo	2	Primary completion	
	TNBC	1L	+ chemo	1/2	Ongoing	
	HCC	1L	+ chemo	2	Ongoing	
	1100	1L	+ TIGIT x PVRIG (PM1009)	1/2	Ongoing	
	NEN	2L	+ chemo	2	Ongoing	
	MPM	1L	+ chemo	2	Ongoing	

Partnered with: 1. Biotheus; 2. DualityBio; 3. Indications included in Ph2a: NSCLC, mucosal melanoma, renal cell carcinoma, endometrial cancer, cervical cancer, platinum resistant ovarian cancer.

Accelerating Global Clinical Development Program for BNT327/PM80021



Partnered with: 1. Biotheus; 2. DualityBio.

— Announced Planned Acquisition of Biotheus



BioNTech to Acquire Biotheus to Boost Oncology Strategy

November 13, 2024

- Acquisition to support the global execution of BioNTech's oncology strategy and provide full global rights to BNT327/PM8002, an investigational PD-L1 x VEGF-A bispecific antibody, with potential to replace current checkpoint inhibitor standard of care treatments for solid tumors
- With the acquisition of Biotheus, BioNTech aims to further strengthen its capabilities to develop, manufacture and commercialize next-generation bispecific antibodies and novel treatment combinations
 BioNTech and Biotheus plan to initiate multiple registrational trials with BNT327/PM8002 in late 2024 and 2025; further clinical trials evaluating BNT327/PM8002 as combination therapies are planned to start in 2024 and 2025
 BioNTech to pay \$800 million to acquire 100 percent of the issued share capital and up to \$150 million in potential
- milestone payments

 Additional details will be shared at BioNTech's Innovation Series R&D Day event on 14 November 2024

Upfront cash and BioNTech stock payment of \$800 Million	Milestone-based cash earn-out of up to \$150 million
Biotheus to become a wholly-owned BioNTech subsidiary	Closing expected Q1 2025 ¹

1. Subject to regulatory approvals and other customary closing con

Biotheus Acquisition to Accelerate BNT327/PM8002¹ Development Execution



Advancing BNT327/PM80021 in multiple indications, aiming for first-to-market approvals



BNT327/ PM8002¹ development acceleration and expansion

Global control of BNT327/PM8002¹ development and commercialization program

Streamline execution of initial BNT327/PM8002¹ + ADC development plans



Clinical development capability establishment in China

~80-person clinical development organization in China with demonstrated execution ability



Manufacturing site supporting initial launch

cGMP manufacturing facility with multiple 2000L bioreactors



Full pipeline and platform ownership

Comprehensive E2E bispecific antibody discovery and development capabilities

6 clinical stage assets

Pre-clinical ADC pipeline

1 Partnered with Biotheus.



Biotheus Manufacturing Facility to Supply Clinical Trial Expansion and Early Launches

Biotheus Brings Fully-Integrated CMC, Manufacturing and Fill Finish Capabilities

200L Pilot plant: support IND and Phase 1 studies

2000L Production plant:

Support global clinical development and early launches

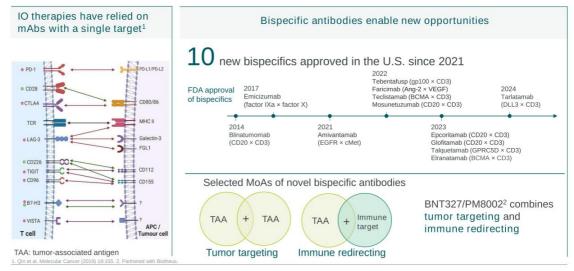
IND documentation has met global regulatory standards including China, Australia and





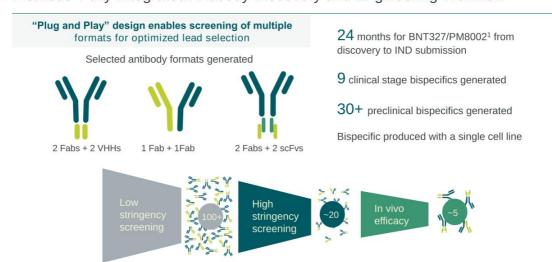
Biotheus 2000L cGMP manufacturing site

Oncology Treatment is Entering the Bispecific Antibody Era





Biotheus' Fully-Integrated Antibody Discovery and Engineering Workflow



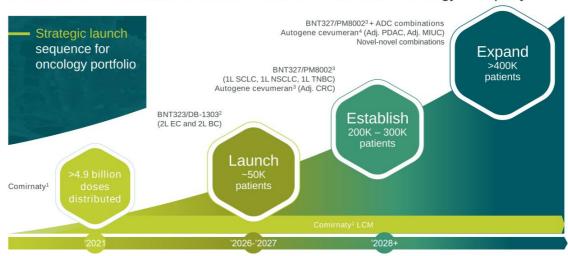
Biotheus Pipeline Enables Exploration of Novel IO + IO Combinations

Biotheus Pipeline overview		A broad range of targets to be	
Selected Clinical Assets		explored for IO+IO combos	
BNT327/PM8002 ¹ (PD-L1 × VEGF bispecific)	Phase 2 / Phase 3 in China	o PD-1 PD-L1/PD-L2	
PM1009 (TIGIT × PVRIG bispecific)	Phase 1	○CTLA4 CD80/86	
PM1022 (TIGIT × PD-L1 bispecific)	Phase 1	TCR MHC II	
PM1015 (CD73 mAb)	Phase 1	CD226	
PM1080 ² (EGFR × cMET bispecific)	Phase 1	• TIGIT • CD112	
PM1032 (4-1BB × CLDN18.2 bispecific)	Phase 1	8 B7-H3 7	
Multiple Pre-clinical Candidates Multiple bispecifics in pre-clinical deve	elopment, including bispecific ADCs.	T cell APC/	





BioNTech is in Transition to a Multi-Product Commercial Oncology Company



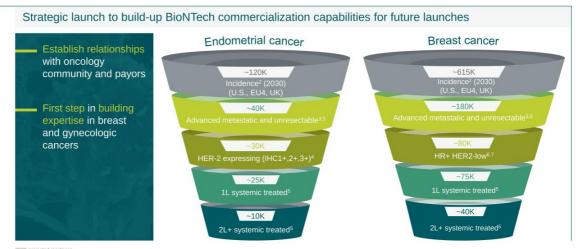
Partnered with: 1. Pfizer; 2. DualityBio; 3. Biotheus; 4. Genentech, a member of the Roche Group; Patient numbers sourced from DRG; LCM = Lifecycle Management



— Maintaining COVID-19 Vaccine Franchise¹ with Lean Commercial Infrastructure



First Launch with BNT323/DB-1303¹ to Address Unmet Need in Endometrial and Breast Cancer Patients



2009 projected includence and Dusting Bio; 2. Projected incidence using historical figures from American Cancer Society (US); Globocan (EU4+UK); 3. SEER; 4. Triangulation of Plotkin, et al., 2024, and Fleming, et al., 2009; 5. CancerMPact; 6. Modi et al., 2022; 7. Bergeron et al., 2023.



BNT327/PM8002¹: Combine with SoC Chemotherapy in Potential Fast-to-Market Indications

Building on existing commercial infrastructure, rapidly scaling up to establish lung and breast cancer franchises NSCLC TNBC SCLC Aiming to address remaining high unmet need through ~415K improved duration of ncidence (2030) (US, EU4, UK) response and survival cidence (2030) ³ (US, EU4, UK) cidence (2030) ³ (US, EU4, UK) Expanding breast cancer franchise while ~310K ~55K ~30K building a presence in lung cancer Establishing nextgeneration IO backbone for novel 1L systemic treated* 10 1L systemic treated* ¹⁰ 1L systemic treate non- AGA* ^{10, 13-1} combinations

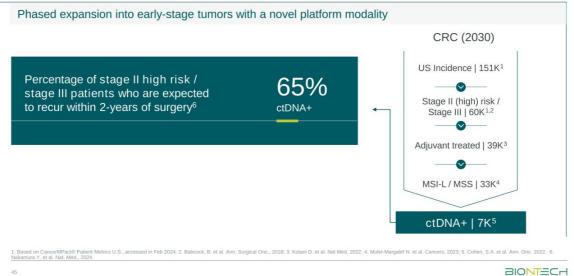
03) projected incidence; * Final patient pool will depend on Ph3 design .
Patimened with Biotheus; 2. Globocan – Cancer Tomorrow; 3. SEER data for diagnosed SCLC and TNBC incidence in US; 4. Cancer Research UK; 5. Zentrum für Krebsregisterdaten; 6. Sante Publique; 7. AIOM; 8. EPDATA .
SEER Stat Research Tool; 10. CancerMPact 2024; 11. Dayen et al. (2019); 12. Halpern et al. (2007); 13. Deverakonda, et al., 2015; 14. Pikor, et al., 2013; 15. Lam, et al., 2019; 16. Friedlænder et al., 2019.

Creating an AI Infused Commercialization Model Focused on Delivering our Innovations to Patients at Scale

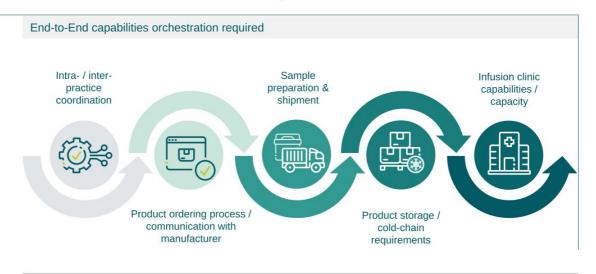


Partnered with: 1. DualityBio; 2. Biotheus.

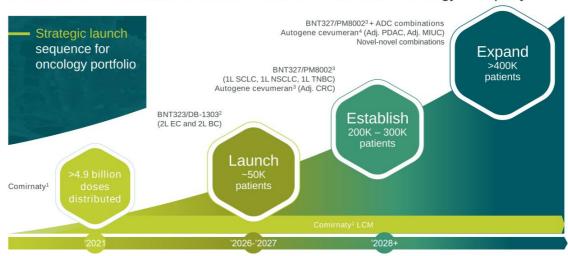
Aiming to Establish New Pillar of Care for Early-Stage Colorectal Cancer Patients with Autogene Cevumeran



Building a Patient-Centric Commercialization Model to Support the Establishment of Individualized mRNA Cancer Therapies



BioNTech is in Transition to a Multi-Product Commercial Oncology Company



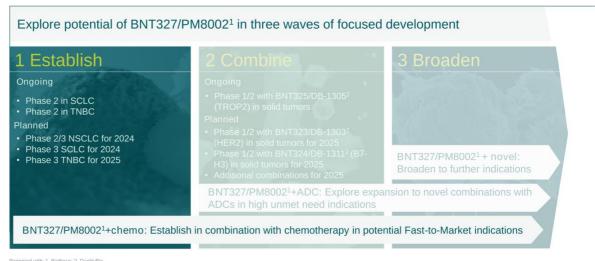
Partnered with: 1, Pfizer; 2. DualityBio; 3. Biotheus; 4. Genentech, a member of the Roche Group; Patient numbers sourced from DRG; LCM = Lifecycle Managemen

+7





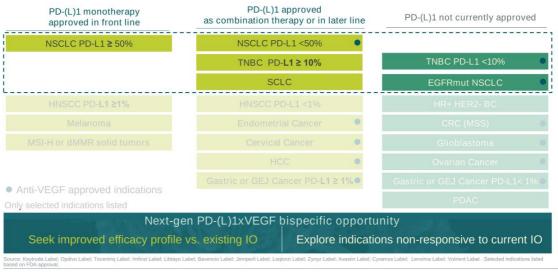
Accelerating Global Clinical Development Program for BNT327/PM80021



Partnered with: 1. Biotheus; 2. DualityBio



— Next-generation Bispecific Can Potentially Expand the Reach of IO Therapy





TNBC Patients Face Poor Outcomes Due to Limited Therapeutic Options



Lincidence from SEER (US); Zentrum für Krebsregisterdaten (DE); Giobocan (ES); Sante Publique (FR); AIOM (IT); Cancer Research UK 2. CancerMPactib 2024 Treatment Architecture EU5 and US 3.Danziger N, et al., Variable Landscape of PD-L1 Expression in Breast Carcinoma as Detected by the DAKO 22C3 Immunohistochemistry Assay. Oncologist. 2023 Apr 6:28(4):319-326. 4. Cortes, J, et al., Pembrolizumab plus Chemotherapy in Advanced Triple-Negative Breast Cancer N. Engl. J. Med. 2022. 387, 217-226.



BNT327/PM8002¹ in Combination with Nab-Paclitaxel for 1L Metastatic TNBC



1. Partnered with Biotheus; 2. J. Cortes et al, Pembrolizumab plus chemotherapy in advanced triple-negative breast cancer, N. Engl. J. Med. 387 (2020) pp 217-226; 3. Obtained from subgroup analysis.



BNT327/PM8002¹: Safety Profile Appears Manageable in 1L TNBC

Phase 1b/2 (NCT05918133) Y. Meng et al. Presented at ESMO 2024. Presentation 384MO

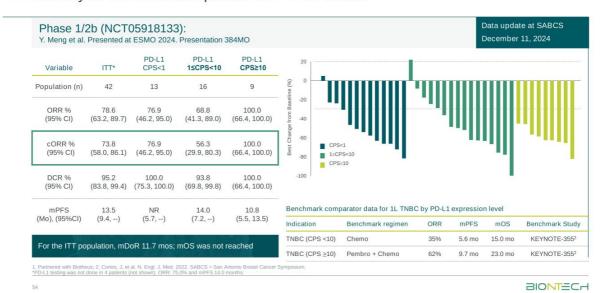
Safety Overview (N=42)	n (%)
All TRAEs	42 (100)
Grade ≥3 TRAEs	24 (57.1)
SAEs	10 (23.8)
TRAE leading to dose interruption	27 (64.3)
TRAE leading to dose reduction	7 (16.7)
TRAEs leading to treatment discontinuation	2 (4.8)
irAE	15 (35.7)
Grade ≥3 irAE	4 (9.5)

TRAEs of Interest (N=42)	All grades, n (%)	Grade ≥ 3, n (%)
Neutrophil count decreased	36 (85.7)	13 (31.0)
White blood cell count decreased	32 (76.2)	10 (23.8)
Anaemia	32 (76.2)	2 (4.8)
Proteinuria	24 (57.1)	2 (4.8)
Hypertriglyceridaemia	18 (42.9)	4 (9.5)
Epistaxis	17 (40.5)	0
Aspartate aminotransferase increased	11 (26.2)	2 (4.8)
Alanine aminotransferase increased	10 (23.8)	1 (2.4)
Hypertension	8 (19.0)	2 (4.8)

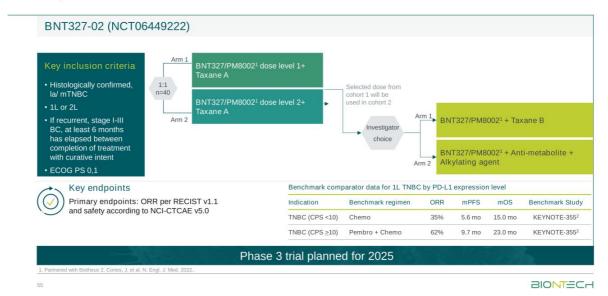
Observed TRAEs are known safety signals of PD-(L)1 / VEGF-A targeting therapies plus chemotherapy and resulted in low discontinuation rate



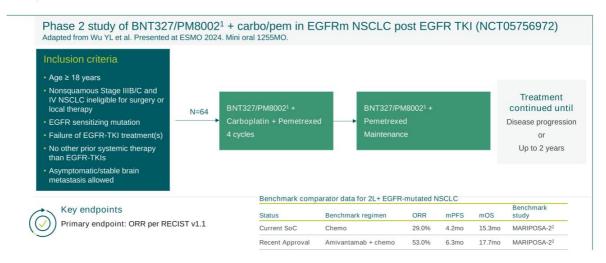
BNT327/PM8002¹ in Combination with Chemo Shows Clinically Meaningful Efficacy in 1L TNBC Irrespective of PD-L1 Status



BNT327/PM8002¹ Phase 2 in Combination with Chemotherapy for 1L/2L Triple Negative Breast Cancer



BNT327/PM8002¹ in Combination with Chemotherapy for EGFR-mutated, post-TKI NSCLC



 $1. \ Partnered \ with \ Biotheus; \ \ 2. \ \underline{https://www.accessdata.fda.gov/drugsatfda_docs/label/2024/761210s004lbl.pdf} \ \ (accessed \ on \ 13Nov2024)$



Safety Profile of BNT327/PM8002¹ + Chemotherapy in Patients with EGFRm NSCLC after Progressing on Prior EGFR TKI

Phase 2 study of BNT327/PM8002 1 + carbo/pem in EGFRm NSCLC post EGFR TKI (NCT05756972) Adapted from Wu YL et al. Presented at ESMO 2024. Mini oral 1255MO.

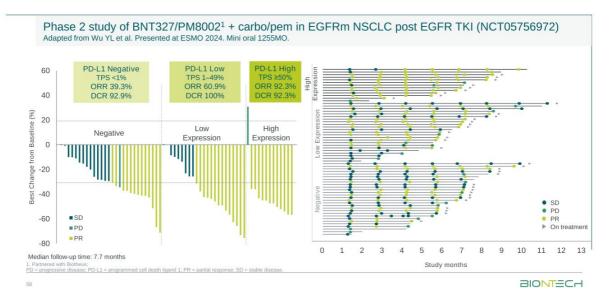
Safety Overview, TRAE, (n=64) Any		n (%)	
SAE		11 (17.2)	
Leading to interruption of BN	IT327/PM8002	20 (31.3)	
Leading to discontinuation of	only BNT327/PM8002	4 (6.3)	
	only chemotherapy	4 (6.3)	
	BNT327/PM8002 and chemotherapy	1 (1.6)	
Leading to death*		1 (1.6)	
Any-grade immune-related		26 (40.6)	
Grade ≥3 immune-related		4 (6.3)	
Grade ≥3 VEGF-related (hypertension/elevated blood		7 (10.9)	

TRAEs of Interest (N=64)	All grades, n (%)	Grade ≥ 3, n (%)
White blood cell count decreased	48 (75.0)	9 (14.1)
Anaemia	47 (73.4)	6 (9.4)
Neutrophil count decreased	44 (68.8)	19 (29.7)
Platelet count decreased	37 (57.8)	6 (9.4)
Alanine aminotransferase increased	34 (53.1)	1 (1.6)
Aspartate aminotransferase increased	31 (48.4)	1 (1.6)
Proteinuria	25 (39.1)	1 (1.6)
Gamma-glutamyltransferase increased	24 (37.5)	5 (7.8)
Lymphocyte count decreased	24 (37.5)	7 (10.9)
Hypertension	13 (20.3)	5 (7.8)

Observed TRAEs are known safety signals of PD-(L)1 / VEGF-A targeting therapies plus chemotherapy and resulted in low discontinuation rate

Partnered with Biotheus; *TRAE leading to death: 1 case of pneumonia

BNT327/PM8002¹ in Combination with Chemo Shows Clinically Meaningful Efficacy in EGFRm NSCLC Irrespective of PD-L1 Status



Non-Small Cell Lung Cancer is One of the Highest Incidence Cancers Globally¹



Globocan – Cancer Tomorrow. 2. Cancent/Pact® 2024 Treatment Architecture EUS and US; Note that 5-year survival reported includes all comer NSCLC population in including with actionable genetic alterations. 3. Garni AK, et al. Update of incidence, Prevalence, Survival, and Initial Treatment in Patients With Non-Small Cell Lung Cancer in the US. JAMA Oncol. Dict. 9. Mansons Wils Let at PD-L1 expression in Non-Small Cell Lung Cancer in the US. JAMA Oncol. Dict. 9. Mansons Wils Let at PD-L1 expression in Non-Small Cell Lung Cancer in the Cancer Speciments. Provided Prevalence and Melecular Alterations. Int J Mid Sci. 2022 Apr 19:23(9):4517. 5. Saze de Gordos, K. et al. PD-L1 Expression in Non-Small Cell Lung Cancer in the International Prevalence of the Patients of the Patients



BNT327/PM8002¹: Phase 1/2 Dose Expansion Trial with Monotherapy in 1L NSCLC



* Additional cohorts are part of study NCT05918445 and not included in this presentation. 1. Partnered with Biotheus: 2. Garassino MC, et al. Pembrolizumab Plus Pemetrexed and Platinum in Nonsquamous Non-Small-Cell Lung Cancer: 5-Year Outcomes From the Phase 3 KEYNOTE-189 Study, J Clin Oncol. 2023 Apr 10:41(11):1992-1998; 3. Silvia Novello et al., Pembrolizumab Plus Chemotherapy in Squamous Non-Small-Cell Lung Cancer: 5-Year Update of the Phase III KEYNOTE-407 Study. JCO 41, 1999-2006(2023).

BIONTECH

BNT327/PM8002¹: Monotherapy Safety Profile Appeared Manageable in 1L NSCLC

Phase 1b/2a (NCT05918445): Safety across all 3 NSCLC cohorts Wu, C. et al. presented at ASCO 2024. Poster #8533.

n (%)	
52 (85.2)	
12 (19.7)	
24 (39.3)	
15 (24.6)	
5 (8.2)	

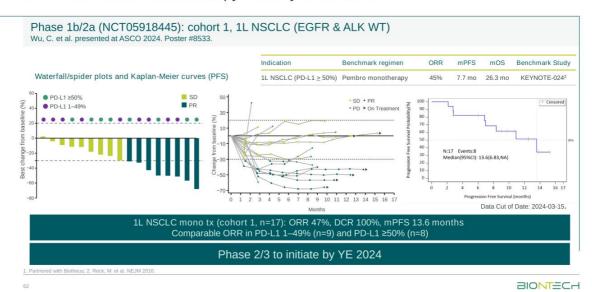
Common TRAEs (n=61)	All grades, n (%)	Grade ≥ 3, n (%)
Proteinuria	33 (54.1)	3 (4.9)
Hypertension	15 (24.6)	6 (9.8)
Hypothyroidism	13 (21.3)	0
Hypoalbuminemia	12 (19.7)	0
Hypocalcemia	11 (18.0)	0
Anemia	9 (14.8)	1 (1.6)
Alanine aminotransferase increased	8 (13.1)	8 (13.1)

No Grade 4/5 TRAEs observed, most AEs were Grades 1-2

1. Partnered with Biotheus.



BNT327/PM8002¹ Monotherapy Efficacy in 1L NSCLC



Extensive-Stage Small Cell Lung Cancer is a High-Incidence Cancer with Poor Long-term Survival Rates



High unmet need for ES-SCLC patients as long-term survival outcomes remain very poor

	Limited-Stage SCLC	Extensive-Stage SCLC
mOS	CRT: 25 – 30 mos (CONVERT) ³	Atezo + chemo: 12.3 mos (IMPower133) ^{4,5}
24 mos OS	CRT: ~50% (CONVERT) ³	Atezo + chemo: ~ 25% (IMPower133) ^{4,5}
5-year survival ²	20%	3%

^{1.}Incidence from: SEER data for diagnosed SCLC incidence in US; Cancer Research UK; Zentrum für Krebsregisterdaten; Sante Publique; AIOM; EPDATA.

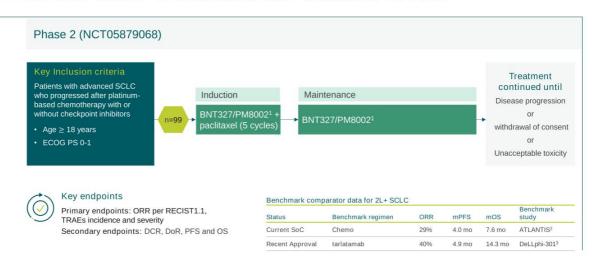
BIONTECH

^{2.} Ideals committed by the control of the control o

^{4.}L. Horn et al., First-line atezoitzuman plus chemotherapy in extensive-stage small-cell lung cancert. Engl. J. Med., 3/19 (2019), pp. 2220-2229

5. Stephen V. Liu et al., Updated Overall Survival and PD-11 Subgroup Analysis of Patients With Extensive-StamBl-Cell Lung Cancert Treated With Atezolizumab, Carbopiatin, and Etoposide (Mpower133). JCO 39, 619-630(2021).

BNT327/PM8002¹ in Combination with Paclitaxel for 2L SCLC



1. Partnered with Biotheus 2. Aix S.P. et al. Lancet Resp Med 2023. 3. Ahn M. et al. NEJM 2023.

BNT327/PM80021 Combined with Paclitaxel Shows Acceptable Safety Profile in _ 2L SCLC

Phase 2 (NCT05879068) Ying Cheng et al. Presented at ESMO 2023. Poster#1992P

Safety overview (n=48)	n (%)	TRAE ≥10% of patients	All grades, n (%)	Grade ≥ 3, n (%)
All TRAEs	45 (93.8)	Neutropenia	23 (47.9)	22 (45.9)
TRAE ≥3	30 (62.5)	Leukopenia	23 (47.9)	12 (25.0)
SAE	16 (33.3)	Decreased platelet count	12 (25.0)	1 (2.1)
TRAE leading to treatment discontinuation 1 (2.2)	1 (2.1)	Anemia	11 (22.9)	0
		Proteinuria	9 (18.8)	2 (4.2)
		Pneumonitis	6 (12.5)	1 (2.1)*

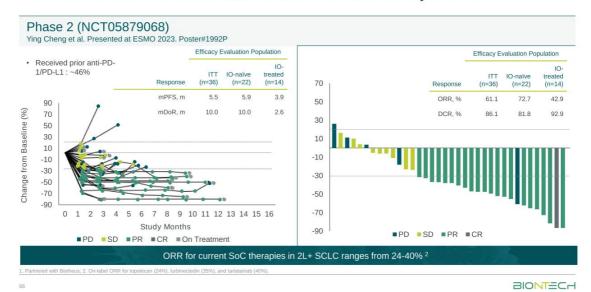
*One grade 5 event due to pneumonitis

Observed TRAEs are known safety signals of PD-(L)1 / VEGF-A targeting therapies plus chemotherapy and resulted in low discontinuation rate (2.1%)

1. Partnered with Biotheus



BNT327/PM8002¹ Combined with Paclitaxel Shows Efficacy in 2L SCLC



BNT327/PM8002¹: Phase 2 Dose Optimization in Combination with Chemotherapy for 1L/2L SCLC



1. Partnered with Biotheus; 2. L. Horn et al, First-line atezolizumab plus chemotherapy in extensive-stage small-cell lung cancerN. Engl., J. Med., 379 (2018), pp. 2220-2229.

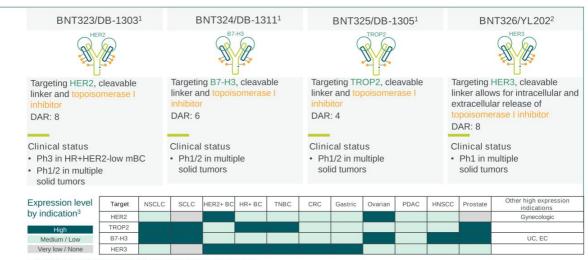
BIONTECH

Accelerating Global Clinical Development Program for BNT327/PM80021



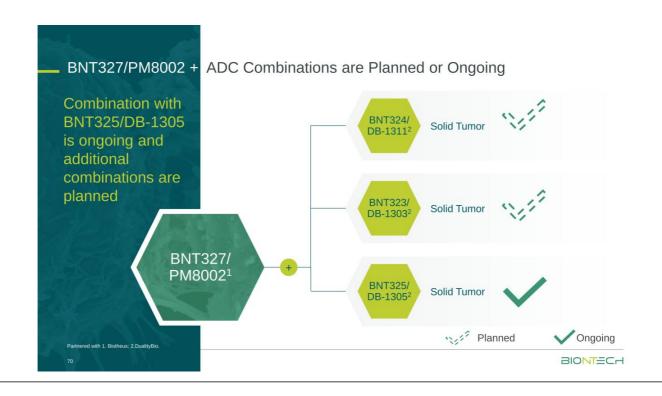


— Well-Positioned in ADCs with Therapeutic Candidates Across Multiple Tumors



Partnered with DualityBio; 2. Partnered with MediLink; 3. RNAseq data from AACR Project GENIE





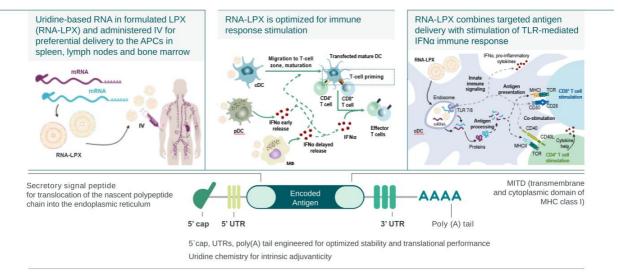
Time for a 15 minute break

Prof. Özlem Türeci, M.D. CMO and Co-founder

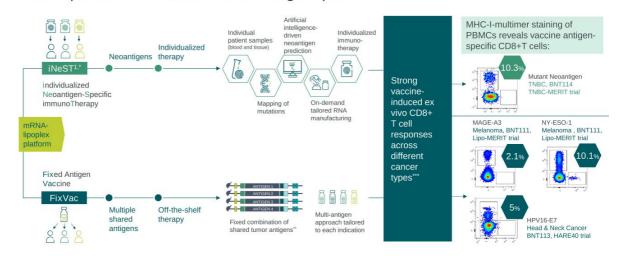
Michael Wenger, M.D. VP, Clinical Development



Uridine-based mRNA-LPX Vaccines for Systemic Delivery and Induction of Potent Polyspecific Immune Responses Against Cancer Antigens



— Full Exploitation of Cancer Vaccine Target Space



1. In collaboration with Genentech, a member of the Röche Group. ** Antigens vary across programs; "T cell responses analyzed by ex vivo multimer staining analysis in blood.



___ Multiple Clinical Trials Demonstrate Execution Across iNeST and FixVac Portfolio

	Individ	dualized vaccine	FixVac				
	Autogene cev	umeran (BNT12	BNT111 ²	BNT113	BNT116		
	Adjuvant		1L	R/R	R/R	1L	Multiple settings
MIUC Phase 2 + Nivolumab	CRC Phase 2 Monotherapy	PDAC Phase 2 + Atezolizumab	Melanoma Phase 2 + Pembrolizumab	Solid Tumors Phase 1 + Atezolizumab	Melanoma Phase 2 + Cemiplimab	HPV16+ HNSCC Phase 2 + Pembrolizumab	NSCLC Phase 1 & 2 Monotherapy, + Cemiplimab or CTX
Recruitment started	Recruitment ongoing Data presented from epi sub-study at ASCO 2024 and from biomarker sub-study at ESMO-GI 2024.	Recruitment ongoing Data presented from investigator- initiated Ph 1 trial at ASCO 2022 & AACR 2024 and published. (Rojas et al., Nature 2023)	Enrollment completed Ph 1 data on prototype vaccine published (Sahin et al., Nature 2017). Analysis of Ph 2 PFS as primary endpoint will be based on events and defined when reporting results.	Enrollment completed Data presented at AACR 2020. Manuscript accepted in Nature Medicine	Data presented from Ph 1 at multiple conferences incl. SITC 2021 and published.		Recruitment ongoing in Ph 2 in 1L NSCLC ² Ph 1 trial ongoing. Data presented at SITC 2023, AACR 2024, and SITC 2024.

1. Partnered with Genentech, a member of the Roche Group; 2. In collaboration with Regeneron.



Evaluating Autogene Cevumeran¹ in the Adjuvant Treatment Setting for Cancers of High Unmet Need

Rationale for adjuvant setting

Low tumor mass with residual cancer cells

Resistance mechanisms and immune suppression not fully established

Healthier immune system and uncompromised T-cell function

Unmet medical need

Pancreatic Ductal Adenocarcinoma

69-75% relapse rate within 5 years after adjuvant therapy^{2,3}

- Projected to be 2nd leading cause of cancer-related death (US) by 2030⁴
- 5-year survival rates after resection are ~10%⁵
- Largely CPI resistant due to low mutation burden ⁶

Phase 1 trial completed and published Randomized Phase 2 trial ongoing

Colorectal Cancer

20-35% relapse rate within 4 years after adjuvant therapy⁷

- 5-year survival rates of locoregional disease are ~70%
- Median disease-free survival for ctDNA-positive, Stage 2 (high risk) and Stage 3 CRC post adjuvant chemotherapy: ≈ 11 months (Reinacher-Schick et al., ASCO 2024)

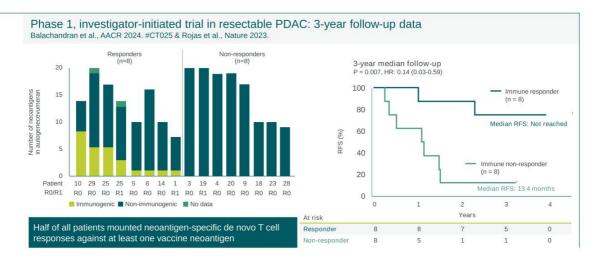
Data update in late 2025/early 2026

Randomized Phase 2 trial ongoing

1. Partnered with Generatech, a member of the Roche Group; 2. Jones et al., JAMA Surgery 2019; 3. Conroy et al., JAMA Oncology 2022; 4. Rahib et al., JAMA Network Open 2021; 5. Bengtsson et al., Sci Rep 2020; 6. Kabacaoglu et al., Frontiers Immunol 2018; 7. André et al., JCO 2015; 8. NIH SEER cancer stat facts (Accessed October 30, 2024).



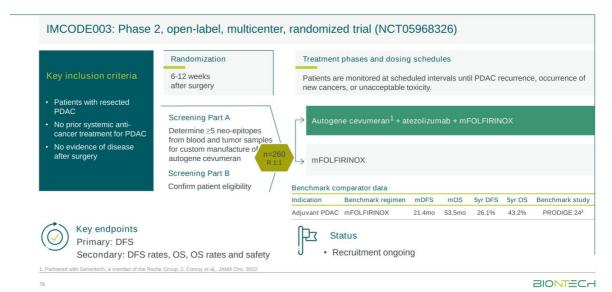
— Response to Autogene Cevumeran¹ Correlates with Delayed PDAC Recurrence



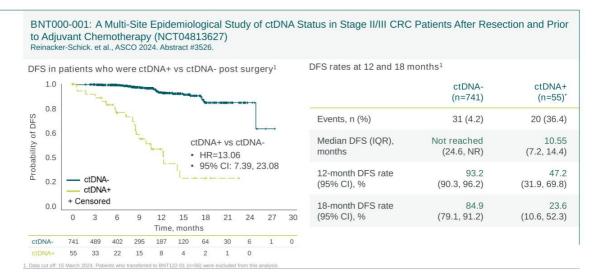
1. Partnered with Genentech, a member of the Roche Group



Autogene Cevumeran¹ Investigated in a Phase 2 Randomized Trial vs SoC in Resected PDAC Patients

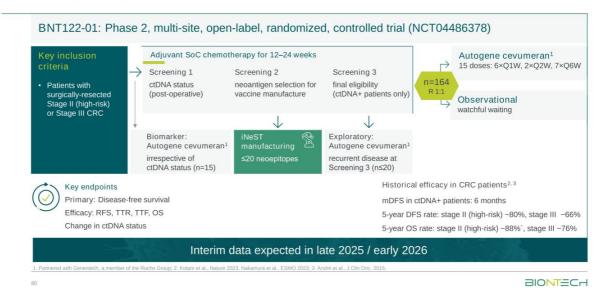


Post-Surgery ctDNA Positivity in CRC is Associated with Significantly Shorter DFS and Can Identify Patients at High Risk of Disease Recurrence

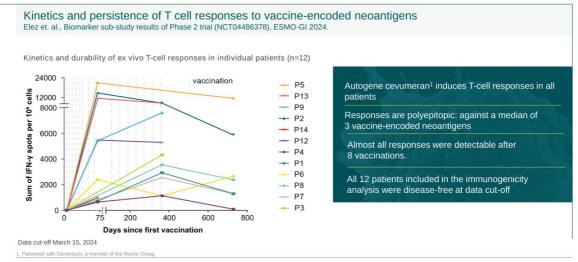


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Autogene Cevumeran¹ Investigated in a Phase 2 Randomized Trial vs. Watchful Waiting in Adjuvant Colorectal Cancer



Functional Vaccine-Induced T Cells are Long-Lived and Detected One Year After Last Vaccination with Autogene Cevumeran in all Evaluable Patients



Autogene Cevumeran¹ Investigated in a Phase 2 Randomized Trial in Combination with Nivolumab in Adjuvant MIUC Patients

Medical need

Standard of care

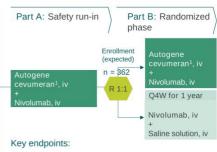
Neoadjuvant chemotherapy, followed by cystectomy and for eligible patients this is followed by adjuvant treatment with an immune checkpoint inhibitor (ICI).

Unmet medical need

- Adjuvant ICI significantly increases disease-free survival in patients. Despite this, a significant number of patients will relapse in the first two
- The 5-year survival among MIUC patients with distant metastasis has been reported to be about 8%.3

IMCODE004: Phase 2, multi-site, open-label, randomized, controlled trial (NCT06534983)

- Age ≥ 18 years
- Histologically confirmed MIUC or upper urinary tract
- Surgical resection of MIUC of the bladder or upper tract without any adj. chemotherapy or radiotherapy
- Absence of residual disease or metastasis, confirmed by CT or MRI
- TNM classification of resected specimen is (y)pT3-4 or (y)pN+ and M0





Primary

INV-DFS in PD-L1 ≥ 1 Secondary OS, Safety

Trial currently recruiting

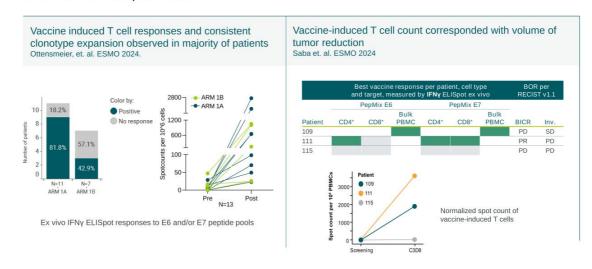
Multiple Clinical Trials Demonstrate Execution Across iNeST and FixVac Portfolio

	Individualized vaccine: iNeST ¹					FixVac	
Autogene cevumeran (BNT122/RO7198457)					BNT111 ²	BNT113	BNT116
Adjuvant 1L R/R				R/R	1L	Multiple settings	
MIUC Phase 2 + Nivolumab	CRC Phase 2 Monotherapy	PDAC Phase 2 + Atezolizumab	Melanoma Phase 2 + Pembrolizumab	Solid Tumors Phase 1 + Atezolizumab	Melanoma Phase 2 + Cemiplimab	HPV16+ HNSCC Phase 2 + Pembrolizumab	NSCLC Phase 1 & 2 Monotherapy, + Cemiplimab or CTx
Recruitment started	Recruitment ongoing Data presented from epi sub-study at ASCO 2024 and from biomarker sub-study at ESMO-GI 2024.	Recruitment ongoing Data presented from investigator-initiated Ph 1 trial at ASCO 2022 & AACR 2024 and published. (Rojas et al., Nature 2023)	Enrollment completed Data of prototype version Ph 1 published (Sahin et al., Nature 2017). Analysis of Ph 2 PFS as primary endpoint will be based on events and defined when reporting results.	Enrollment completed Data presented at AACR 2020. Manuscript accepted in Nature Medicine	Enrollment completed Positive topline data announced July 2024 Data presented from Ph 1 at multiple conferences incl. SITC 2021 and published. (Sahin et al., Nature 2020)		Recruitment ongoing in Ph 2 in 1L NSCLC ² Ph 1 trial ongoing. Data presented at SITC 2023, AACR 2024, and SITC 2024.

1. Partnered with Genentech, a member of the Roche Group; 2. In collaboration with Regeneron.



BNT113 Showed Consistent Immune Responses in Adjuvant and Advanced Disease in Multiple Studies



BNT113 Showed Activity with ORR¹ of 40% in PD-L1+ HPV16+ HNSCC Patients

Results from safety run-in of Phase 2 AHEAD-MERIT in 1L metastatic HNSCC (NCT04534205) Saba et. al., ESMO 2024 Tumor overall response, treatment and survival status by BICR Antitumor activity² N=15 Unconfirmed ORR (BICR), % 40.0 109 CR, n PR, n 103 • • • 113 114 Unconfirmed DCR (BICR), % 53.3 Unconfirmed ORR (investigator), % 33.3 ₩ 111 £115 Unconfirmed DCR (investigator), % 60.0 106 Time on treatment (BNT13+perbroizumab) III Time off treatment X Death III End of treatment visit Treatment ongoing ◆ Complete response ◆ Partial response ◆ Partial response • Stable disease ▼ Status ◆ Best overall response PFS by BICR Median (95% CI), months ± 105 3.9 (2.1-10.6) # 110 6-month rate, % 12-month rate, % 42.3 14.1 108 18-month rate, % 14.1 PFS by investigator Median (95% CI), months 101 6.0 (2.3-10.4) 107 OS, median (95% CI), months 22.6 (9.8-NE) 12 15 18 21 27 30 Data cut-off: 24 June 2024

1. Assessed per blinded independent central review (BICR); 2. The efficacy analysis set was defined as all patients who received at least one dose of BNT113 (N=15)



BNT113 in Combination with Pembrolizumab as 1L Treatment in Patients with R/R HPV16+ HNSCC Expressing PD-L1

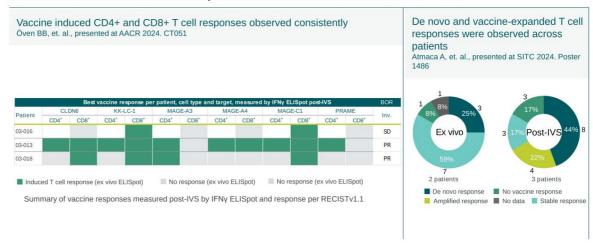
AHEAD-MERIT: a Phase 2 controlled trial in 1L metastatic HNSCC (NCT04534205) Medical need Standard of care n=15 BNT113 (8xQ1W, then Q3W) + pembrolizumab (Q3W) up to 24 months Advanced, unresectable, recurrent or metastatic HNSCC Pembrolizumab-based regimens are SoC for patients with PD-L1 CPS≥1, while platinum-Randomized part Positive for HPV16 DNA based regimens are preferred for patients with · Measurable disease per RECIST v1.1 n=267 R 1:1 PD-L1 CPS<0 Pembrolizumab (Q3W) up to 24 months Unmet medical need Endpoints Safety run-in Randomized part TEAEs; up to 27 months ORR, DOR, DCR PFS, OS, biomarkers OS, ORR; up to 48 months INV-ORR, PFS, DCR, DOR, safety Up to 25% of patients with early-stage HPV16+ tumors will relapse within two years. 2 Benchmark comparator data for 1L HNSCC (~22% patients HPV16+) 5-year survival rates for patients with relapsed advanced HPV16+ tumors is 75%.3 Benchmark regimen mOS Benchmark Study Indication 1L HNSCC (CPS ≥1) KEYNOTE-0484 Pembrolizumab 19% 3.2 mo 12.3 mo 1. Partnered with Genentech, a member of the Roche Group; 2. Gorphe et al., Radiother Onc 2022 3. Munoz-Bello et. Al, Cell 2024; 4. Harrington et. al., J Clin Oncol. 2023.

L Parmered with Genentech, a member of the Roche Group; 2. Gorphe et al., Radiother Onc 2022 3, Munoz-Beilo et, Al, Cell 2024; 4. Harrington et, al., J Clin Oncol. 202.

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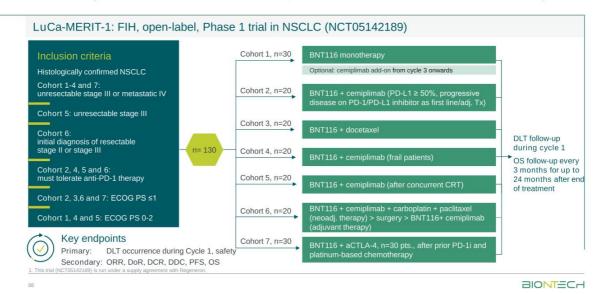
BNT116¹-Induced T cell Responses Have Been Observed in NSCLC



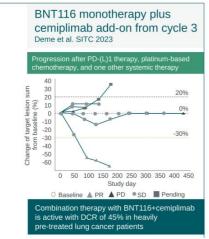
1. This trial (NCT05142189) is run under a supply agreement with Regeneror

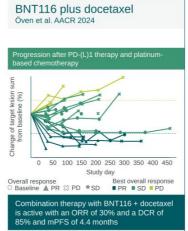


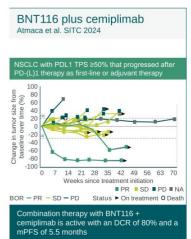
— Assessing BNT116's Potential in Multiple Combinations and Disease Settings¹



BNT116 Has Shown Clinical Activity as Single Agent & in Combination with Chemo or anti-PD-1 in Advanced NSCLC in Phase 1 Trial¹





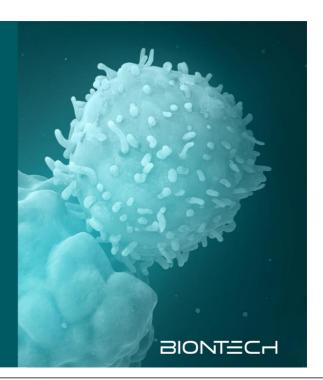


1. This trial (NCT05142189) is run under a supply agreement with Regeneror

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Select Targeted Therapies: HER2-ADC BNT323 CLDN6 CART BNT211 Dr. Michael Wenger, MD VP Clinical Research

Prof. Özlem Türeci, M.D. CEO and Co-founder



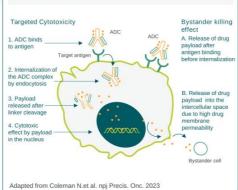
BNT323/DB-1303¹: A HER2 ADC with a Potentially Differentiated Profile

BNT323/DB-1303¹ is a 3rd generation ADC

- A humanized anti-HER2
 IgG1 monoclonal antibody
- A proprietary DNA topoisomerase I inhibitor
- A maleimide tetrapeptidebased cleavable linker



Mode of action



Preclinical Data

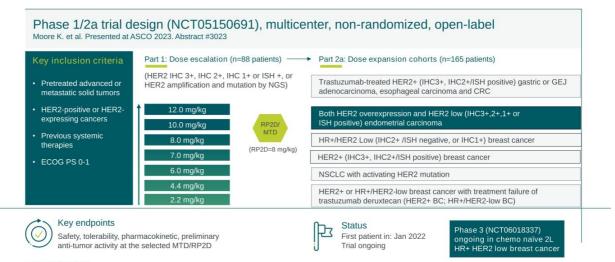
Lin S. et al. Abstract #252. Presented at EORTC-NCI-AACR in 2022 & data on file.

- Superior in vitro plasma stability in human plasma
- Rapid systemic clearance in monkeys
- Potent anti-tumor effect in both HER2 positive and HER2 low tumor models with a wide therapeutic window
- Toxicity studies² in monkeys show favorable toxicity profile

Stable linker and fast clearance may contribute to the improved toxicity profile of BNT323/DB-1303¹

1. Partnered with DualityBio; 2. DS-8201 is an in-house produced analog of trastuzumab deruxteca

First-in-Human Trial with BNT323/DB-1303¹ in Patients with Advanced HER2-Expressing Solid Tumors



. Partnered with Duality

BNT323/DB-1303¹ Data Facilitates a Potential Path to Registration in HER2-Expressing Endometrial Cancer

Phase 1/2a FIH study (NCT05150691): Clinical Efficacy Moore K. et al. Presented at ESGO 2023. Abstract # 430

- HER2 tumor expression of IHC 1, 2 and 3+: 31%, 41% and 25%, respectively. Clinical response observed across HER2-expression levels, including IHC 1+
- Patients received median 2 lines of prior treatment. ~60% of patients had prior IO, ~38% prior anti-HER2 antibody
- Data cutoff: May 8, 2023

Escalation		Dose Expansion		
7 mg/kg (n=4) ^b	8 mg/kg (n=4) ^b	8 mg/kg (n=9) ^b	Total (n=17) ^b	
2 (50)	4 (100)	4 (44)	10 (59)	
1 (25)	3 (75)	0	4 (24)	
1 (25)	1 (25)	4 (44)	6 (35)	
4 (100)	4 (100)	8 (89)	16 (94)	
	Escala 7 mg/kg (n=4) ^b 2 (50) 1 (25) 1 (25)	Escalation E 7 mg/kg 8 mg/kg (n=4) ^b (n=4) ^b 2 (50) 4 (100) 1 (25) 3 (75) 1 (25) 1 (25)	Escalation Expansion 7 mg/kg (n=4) ^b 8 mg/kg (n=9) ^b 8 mg/kg (n=9) ^b 2 (50) 4 (100) 4 (44) 1 (25) 3 (75) 0 1 (25) 1 (25) 4 (44)	

By investigator.
 ~ Response-evaluable subjects, which includes subjects witr
 ≥1 postbaseline overall response.

Benchmark comparator data for 2L+ HER2+ Endometrial Cancer

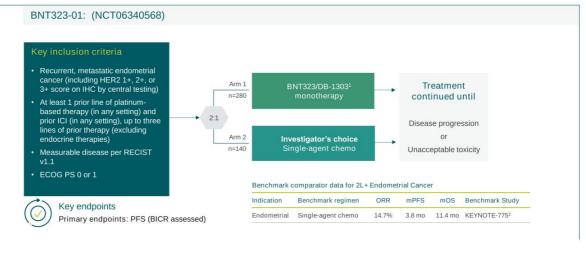
 Indication
 Benchmark regimen
 ORR
 mPFS
 mOS
 Benchmark Study

 Endometrial
 T-DXd
 57.5%
 11.1 mo
 26.0 mo
 DESTINY-PanTumor02²

1. Partnered with DualityBio; 2. Meric-Bernstam F. et al. J Clin Oncol 2024.



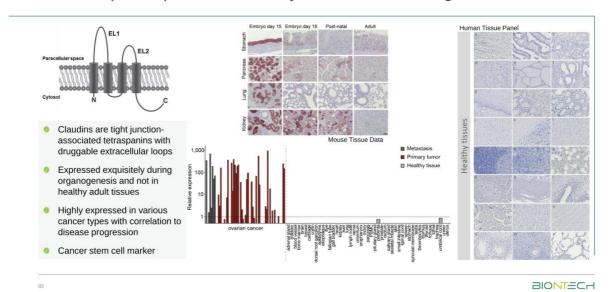
Phase 3 Study of BNT323/DB-1303¹ vs Chemotherapy in 2L+ HER2-expressing Endometrial Cancer



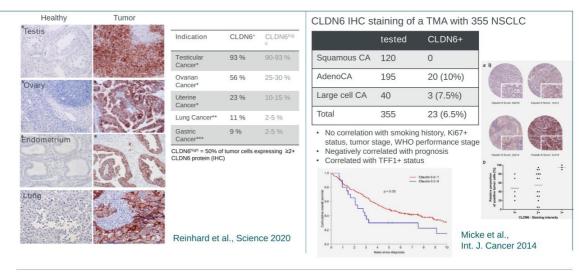
1. Partnered with DualityBio; 2. Makker V. et al. NEJM 2022.



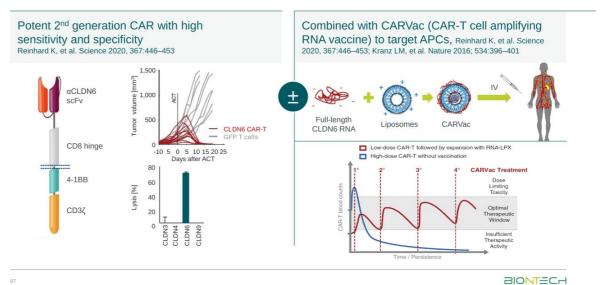
— Claudin-6 (CLDN6) is a Carcinoembryonic Cell Surface Antigen



— CLDN6 is Expressed in High Medical Need Cancers Including Lung Cancer



BNT211: A CLDN6 CAR-T-Cell Therapy + CLDN6-Encoding CARVac that Enhances Expansion and Persistence of the Infused CAR-T Cells



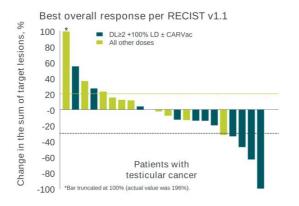
BNT211 as Monotherapy or in Combination with Ribonucleic Acid Lipoplexes (RNA-LPX) in Patients with CLDN6-Positive Advanced Solid Tumors

Phase 1, FIH, open-label, dose escalation study with expansion cohort to evaluate safety and efficacy of BNT211 with/without RNA-LPX in patients with CLDN6+ R/R solid tumors (NCT04503278) Part A: Manual product (n=22; completed)1 Part B: Automated product (n=78; ongoing)² • ≥50% tumor cells with CLDN 6 IHC 2+/3+ CLDN6 positivity (immunohistochemistry) Monotherapy Combination* Monotherapy Combination DL3 n=0 → + fixed CARVac DL2 n=48 + fixed CARVac Measurable disease per RECIST v1.1 or elevated tumor marker $^{\rm so}$ Three patients were treated at an optional de-escalation dose (DL 1.5=5×10 $^{\rm 7}$ cells) to further evaluate clinical safety and efficacy. Mackensen et al., Nature Medicine, 2023 Key endpoints Safety & tolerability, MTD, RP2D Primary: Secondary: ORR, DCR, DOR

1. Mackensen A, et al. Nature Med 2023;29:2844–2853; 2. Haanen JBAG, et al. Ann Oncol 2023;34 (suppl_2):S1281–S128

BNT211-01: Overall Response Rate – Testicular Cancer

Overall ORR was 24%; at DL2 and DL3 ORR was 41.7%. Two patients had a surgical complete response that lasted for over a year. Haanen et. al., ESMO 2024



Responsea	Total (N=27)		
Evaluable patients, n	25		
ORR, n (%) 95% CI (%)	6 (24.0) 8.6–42.3		
DCR, n (%) 95% CI (%)	14 (56.0) 32.0–71.3		

Responsea	± CARVac (N=14) ^{b,c}
Evaluable patients, n	12
ORR, n (%)	5 (41.7)
95% CI (%)	12.8–64.9
DCR, n (%)	9 (75.0)
95% CI (%)	35.1-87.2

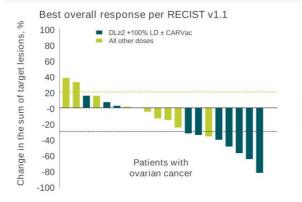
Data cut-off: May 16, 2024.

a. Includes tumor marker responses; b. Excludes patients who received an out-of-specification product; c. DL2=1×10⁸; DL3=2-5×10⁸ CAR T cells

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BNT211-01: Overall Response Rate – Ovarian Cancer

In the 24 evaluable patients across all dose levels, ORR was 33.3% and DCR was 75% - the same parameters when considered for Dose Level 2 and above were 58.3% and 83.3% respectively. Haanen et. al., ESMO 2024



ses; b. Excludes patients who received an out-of-specification product; c. DL2=1×10%; DL3=2-5×10% CAR T cells

Responsea	Total (N=30)b			
Evaluable patients, n	24			
ORR, n (%)	8 (33.3)			
95% CI (%)	12.3-45.9			
DCR, n (%)	18 (75.0)			
95% CI (%)	40.6-77.3			

Responsea	± CARVac (N=16) ^{b,c}
Evaluable patients, n	12
ORR, n (%)	7 (58.3)
95% CI (%)	19.8–70.1
DCR, n (%)	10 (83.3)
95% CI (%)	35.4-84.8

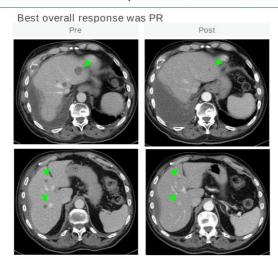
Data cut-off: May 16, 2024.

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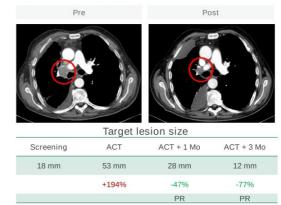
a. Includes tumor marker respo



Best Overall Response to CLDN6 CAR T+ CARVac in a Patient with NSCLC1



- Patient with AGA-neg NSCLC, CLDN6+ (50% 2+/3+, 80% any positivity), IO-experienced, 2 previous treatment lines, former smoker Received CAR T + 5x CARVac

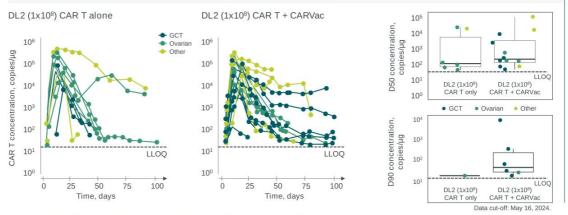


1. Data on file. Presented by U. Sahin at Lung Cancer Summit, NY, 2024



CARVac Improves CAR T Persistence

Adding CARVac limits the decline and induces a plateau of CAR-T cells with robust and ongoing detection in patients¹ who received DL2+CARVac. Haanen et. al., ESMO 2024



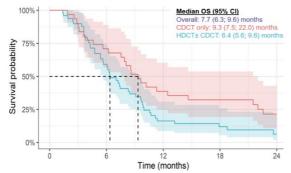
At day 5,0 the proportion of patients with measurable CAR T > than the lower limit of quantification is 6 of 8 for CAR T alone and 12 of 12 for CAR T plus CARVac. At Day 90, 1/7 had detectable CAR T in the CART alone group vs 6/8 in the ART plus CARVac group.



mOS of 7.7 Months in Patients with R/R Testicular Germ Cell Tumors After Initiating Palliative Chemotherapy

Real-world evidence study: Results objective 1 Feldman, D. et al. ASCO 2024.

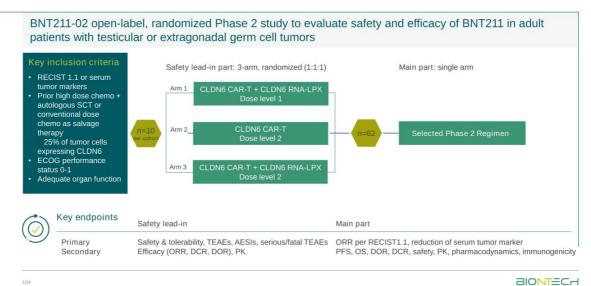
OS among patients with R/R testicular GCT receiving palliative chemotherapy exposure with sufficient follow-up time (N=80)



Time from the index date	0 month	6 months	12 months	24 months
Prior HDCT ± CDCT				
Pts at risk, N	49	29	8	2
Cumulative deaths, N	0	20	41	45
Survival probability, %	100.0	59.2	16.3	6.3
Prior CDCT only				
Pts at risk, N	31	22	12	6
Cumulative deaths, N	0	9	19	24
Survival probability, %	100.0	71.0	38.7	21.5

OS was assessed among 80 patients with R/R testicular GCT who had at least 12 months of follow-up time, which are a subgroup of patients identified for Objective 1 (N = 97).

BNT211 Pivotal Trial in Patients with R/R Testicular Germ Cell Tumors

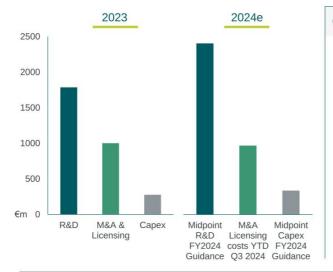




Progress in the Last Twelve Months Demonstrates the Strength of our Model and our Strategy

		2023 \longrightarrow 2024
	COVID-19	Maintained leading market share (>50%)
	Oncology Portfolio	7 Phase 2/3 trial starts >67% year-on-year increase in average quarterly patient enrollment in trials
	Infectious Disease Vaccine Portfolio	Three Phase 1 trial starts
	Corporate Development	Acquisitions of InstaDeep and Biotheus announced Six in-licensed molecules
	Cash Balance	Grew cash balance from Q3 2023 to Q3 2024 (€17.0B to €17.8B¹)
Consists of cash a acquisition considera	and cash equivalents of $69,624.6$ million, current security investments of $67,078$ millions.	n and non-current security investments of €1,137.2 million, as of September 30, 2024, and does not include announced Biotheus
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Our Capital Allocation Strategy Going Forward Will Continue to Focus on Value — Creation



Outlook for 2025

Strategically invest behind late-stage programs with transformational potential

Active portfolio management to create additional P&L headroom for pivotal trial investment

Expect to continue to benefit from interest income potential from strategic cash reserve

Expected Potential Value Creating Milestones and Trials

	2024 - 2025+		Ongoing and Planned Trials with Anticipated Data Disclosures Beyond 2025				
BNT327/PM8002 ² 1L TNBC Phase 2 data	BNT327/PM8002 ² 1L SCLC Phase 2 data	BNT327/PM8002 ² 1L ES-SCLC and 2L SCLC Phase 2 DO data	BNT323/DB-1303 ³ HR+ HER2 low BC Phase 3	Autogene cevumeran (BNT122/RO7198457) ⁴ adj. PDAC Phase 2	Autogene cevumeran (BNT122/RO7198457) ⁴ adj. PD-L1+ MIUC Phase 2		
BNT327/PM8002 ² 1L and 2L TNBC Phase 2 DO data	BNT323/DB-1303 ³ 2L+ HER2 EC Phase 2 data	Autogene cevumeran (BNT122/RO7198457) ⁴ ctDNA adj. CRC Phase 2 topline data	BNT327/PM8002 ² 1L SCLC Phase 3	BNT327/PM8002 ² 1L NSCLC Phase 3	BNT327/PM8002 ² 1L TNBC Phase 3		
BNT111 ⁵ 2L+ melanoma Phase 2 data		BNT323/DB-1303³ 2L+ HER2 EC Regulatory submission	BNT113 HPV16+ PD-L1+ HNSCC Phase 2	BNT116 ⁵ PD-1L > 50% 1L NSCLC Phase 2	BNT316 2L NSCLC Phase 3		

Catalyst-rich upcoming period for mid- to late-stage pipeline to support company vision to achieve a diversified, cashflow-generating multi-product oncology portfolio by 2030

Partnered with: 1. Pfizer; 2. Biotheus; 3. DualityBio; 4. Genentech, member of Roche Group. 5. in collaboration with Regeneron; DO = Dose Optimization

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Data update
Regulatory event

Innovation Series 2024

THANK YOU

Contact us at investors@biontech.de

___ Abbreviations (1)

n L	nth line	CRC	Colorectal cancer	FIH	First in human
AACR	American Association for Cancer Research	CRS	Cytokine release syndrome	Flu	Fludarabine
ACT	Adoptic cell transfer	CRT	Chemoradiation therapy	FPD	First patient dosed
ADC	Antibody-drug conjugate	CT	Computer tomography	GBM	Glioblastoma
adj.	Adjuvant	CTCAE	Common terminology criteria for adverse events	GC/GEJ	Gastric/Gastro-esophageal junction cancer
AE	Adverse event	ctDNA	Circulating tumor DNA	GCT	Germ cell tumor
AGA	Actionable oncogenic alteration	CTFI	Chemotherapy-free interval	GEJ	Gasto-esophageal junction
Al	Artificial intelligence	CTLA-4	Cytotoxic T-lymphocyte-associated protein 4	HCC	Hepatocellular carcinoma
ALK	Anaplastic large-cell lymphoma kinase	CTx	Chemotherapy	HDCT	High dose chemotherapy
APC	Antigen presenting cell	CXCL	Chemokine (C-X-C motif) ligand	HER2 (or 3)	Human epidermal growth factor receptor 2 (or 3)
ASCO	American Society of Clinical Oncology	Cy	Cyclophosphamide	HLA	Human leukocyte antigen
(m)BC	(metastatic) Breast cancer	DAR	Drug-antibody ratio	HLH	Hemophagocytic lymphohistiocytosis
BIRC	Blinded independent central review	DC	Dendritic cell	HNSCC	Head and neck squamous cell carcinoma
BL	Baseline	DCR	Disease control rate	HPV	Human papilloma virus
BOR	Best overall response	DDC	Duration of disease control	HR	Hazard ratio
втс	Biliary tract cancer	DFS	Disease-free survival	HR	Hormone receptor
CAR	Chimeric antigen receptor	DL	Dose level	ICANS	Immune effector cell-associated neurotoxicity syndrom
CARVac	CAR T-cell amplifying RNA vaccine	DLT	Dose limiting toxicity	ICI	Immune checkpoint inhibitor
CnDn	Cycle n day n	dMMR	Deficient DNA mismatch repair	IDMC	Independent Data Monitoring Committee
CD	Cluster of differentiation	(m)DOR	Duration of response	IEC-HS	Immune effector cell-associated HLH-like syndrome
CDCT	Conventional dose chemotherapy	EC	Endometrial cancer	IFN	Interferon
cGMP	Current Good Manufacturing Practice	ECOG (PS)	Eastern Cooperative Oncology Group (performance status)	IgG	Immunoglobulin G
	Confidence interval	E2E	End to end	IHC	Immunohistochemistry
CICON	International Cancer Immunotherapy Conference	EGFR	Epidermal growth factor receptor	HT	Investigator initiated trial
CLDN6	Claudin 6	ELISpot	Enzyme Linked Immuno Spot Assay	IL-x	Interleukin x
CMC	Chemistry, manufacturing and control	EORTC	European Organisation for Research and Treatment of Cancer	IND	Investigational new drug
cogs	Cost of goods sold	ER	Estrogen receptor	iNeST	Individualized NeoAntigen-Specific Therapy
CPD	Confirmed progression	ESMO	European Society for Medical Oncology	INV-	Investigator assessed
CPI	Checkpoint inhibitor	ESMO GI	European Society for Medical Oncology Gastrointestinal	10	Immuno-oncology
CPS	Combined positive score	Fab	Fragment antigen binding	IPO	Initial public offering
CR	Complete response	FDA	U.S. Food and Drug Association	IOR	Interquartile range



___ Abbreviations (2)

irAE	Immune-related adverse event	NSCLC	Non-small cell lung cancer	SITC	Society of Immunotherapy of Cancer
ISH	in-situ hybridization	NY-ESO-1	New York esophageal squamous cell carcinoma-1	S&M	Sales and marketing
	Intention to treat	OPEX	Operational expenditures	SoC	Standard of care
	Intravenously	(c)ORR	(Confirmed) objective response rate	SoD	Sum of diameters
IvS	in vitro stimulation	os	Overall survival	TAA	Tunor-associated antigen
KK-LC-1	Kita-Kyushu lung cancer antigen 1	PBMC	Peripheral blood mononuclear cell	TAP	Transporter associated with antigen processing
LCM	Life cycle management	PD	Progressive disease	TC	Testicular cancer
LLOQ	Lower limit of quantification	PDAC	Pancreatic ductal adenocarcinoma	TCGA	The Cancer Genome Atlas
LD	Lymphodepletion	PD-(L)1	Programmed cell death protein (ligand) 1	TCR	T-cell receptor
LPX	Lipoplex	PFS	Progression-free survival	TEA	Tissue engineering acoustophoretic
m	Median	PK	Pharmacokinetics	TE(S)AE	Treatment-emergent (serious) adverse event
mAB	Monoclonal antibody	PoC	Proof of concept	TKI	Tyrosine kinase inhibitor
MAGE-A3	Melanoma antigen A3	PoT	Proof of technology	TLR	Toll-like receptor
инс	Major histocompatibility complex	PR	Partial response	TME	Tumor microenvironment
MIUC	Muscle-invasive urothelial carcinoma	PR	Progesterone receptor	TNBC	Triple-negative breast cancer
MMR	Mismatch repair	PRAME	Preferentially expressed antigen in melanoma	TNF	Tumor necrosis factor
ΜФ	Macrophage	PROC	Platinum-resistant ovarian cancer	TNM	Classification of malignant tumors (tumor-nodus-metastasis
MoA	Mechanism of Action	PSOC	Platinum-sensitive ovarian cancer	TPS	Tumor proportion score
MPM	Malignant pleural mesothelioma	QxW	Every x week(s)	TRAE	Treatment-related adverse event
MRI	Magnetic resonance imaging	R	Randomized	Treg	Regulatory T cell
mRNA	Messenger ribonucleic acid	(ncc/cc)RCC	(Non-clear cell/clear cell) renal cell carcinoma	TRON	Helmholtz Institute for Translational Oncology
MSI-H (L)	High(low)-frequency microsatellite instability	R&D	Research and development	TROP2	Trophoblast cell-surface antigen 2
MSKCC	Memorial Sloan Kettering Cancer Center	RECIST	Response Evaluation Criteria in Solid Tumors	TTF	Time to treatment failure
MSS	Microsatellite stability	RFS	Recurrence-free survival	TTP	Time to progression
MTD	Maximum tolerated dose	RP2D	Recommended phase 2 dose	TTR	Time to response
NCI PRO-	National Cancer Institute Patient Reported Outcome	R/R	Relapsed/refractory	UC	Urothelial cancer
CTCAE	Common Terminology Criteria for Adverse Events	RT-qPCR	Real-time quantitative polymerase chain reaction	UICC	Union for International Cancer Control
NEN	Neuroendocrine neoplasm	SAE	Severe adverse event	UPD	Unconfirmed progression
NF-ĸB	Nuclear factor kappa B	(E/LS)SCLC	(Extensive/low stage) small cell lung cancer	VEGF(R)	Vascular endothelial growth factor (receptor)
NGS	Next generation sequencing	scFv	Single-chain variable fragment	VHH	Heavy chain variable
NR.	Not reached	SD	Stable disease	WT	Wild type

