
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
of the Securities Exchange Act of 1934

For the month of March 2026

Commission File Number: 001-37643

PURPLE BIOTECH LTD.
(Translation of registrant's name into English)

4 Oppenheimer Street, Science Park, Rehovot 7670104, Israel
(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 ☒ Form 40-F ☐

Purple Biotech

On March 18, 2026, Purple Biotech Ltd. (the “**Registrant**”) issued an updated Company presentation, “**Purple Biotech Corporate Presentation March 2026**”, which is attached hereto as Exhibit 99.1.

Exhibit

99.1 [Purple Biotech Corporate Presentation March 2026](#)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

March 18, 2026

PURPLE BIOTECH LTD.

By: /s/ Gil Efron
Gil Efron
Chief Executive Officer



Advancing the next Generation of
Immuno-oncology

CORPORATE PRESENTATION
March 2026

NASDAQ/TASE: PPBT

Forward-looking Statements and Safe Harbor

Certain statements in this presentation that are forward-looking and not statements of historical fact are forward-looking statements within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements include, but are not limited to, statements that are not statements of historical fact, and may be identified by words such as “believe”, “expect”, “intend”, “plan”, “may”, “should”, “could”, “might”, “seek”, “target”, “will”, “project”, “forecast”, “continue” or “anticipate” or their negatives or variations of these words or other comparable words or by the fact that these statements do not relate strictly to historical matters. You should not place undue reliance on these forward-looking statements, which are not guarantees of future performance. Forward-looking statements reflect our current views, expectations, beliefs or intentions with respect to future events, and are subject to a number of assumptions, involve known and unknown risks, many of which are beyond our control, as well as uncertainties and other factors that may cause our actual results, performance or achievements to be significantly different from any future results, performance or achievements expressed or implied by the forward-looking statements. Important factors that could cause or contribute to such differences include, among others, risks relating to: the plans, strategies and objectives of management for future operations; product development for NT219, CM24 and IM1240; the process by which such early stage therapeutic candidates could potentially lead to an approved drug product is long and subject to highly significant risks, particularly with respect to a joint development collaboration; the fact that drug development and commercialization involves a lengthy and expensive process with uncertain outcomes; our ability to successfully develop and commercialize our pharmaceutical products; the expense, length, progress and results of any clinical trials; the impact of any changes in regulation and legislation that could affect the pharmaceutical industry; the difficulty in receiving the regulatory approvals necessary in order to commercialize our products; the difficulty of predicting actions of the U.S. Food and Drug Administration or any other applicable regulator of pharmaceutical products; the regulatory environment and changes in the health policies and regimes in the countries in which we operate; the uncertainty surrounding the actual market reception to our pharmaceutical products once cleared for marketing in a particular market; the introduction of competing products; patents obtained by competitors; dependence on the effectiveness of our patents and other protections for innovative products; our ability to obtain, maintain and defend issued patents; the commencement of any patent interference or infringement action against our patents, and our ability to prevail, obtain a favorable decision or recover damages in any such action; and the exposure to litigation, including patent litigation, and/or regulatory actions; the impact of the economic, public health, political and security situation in Israel, the U.S. and other countries in which we may operate or obtain approvals for our products or our business, and other factors that are discussed in our Annual Report on Form 20-F for the year ended December 31, 2025 and in our other filings with the U.S. Securities and Exchange Commission (“SEC”), including our cautionary discussion of risks and uncertainties under “Risk Factors” in our Registration Statements and Annual Reports. These are factors that we believe could cause our actual results to differ materially from expected results. Other factors besides those we have listed could also adversely affect us. Any forward-looking statement in this press release speaks only as of the date which it is made. We disclaim any intention or obligation to publicly update or revise any forward-looking statement or other information contained herein, whether as a result of new information, future events or otherwise, except as required by applicable law. You are advised, however, to consult any additional disclosures we make in our reports to the SEC, which are available on the SEC’s website, <https://www.sec.gov>. The trademarks, tradenames, service marks and logos included herein are the property of the owners thereof and are used for reference purposes only. Such use should not be construed as an endorsement of the products or services of the Company



Snapshot: Company Highlights

- 1 Lead Program Entering the Clinic**
IMI240, our first tri-specific antibody from the CAPTN-3 platform

- 2 CAPTN-3: Differentiated multi-specific platform with Efficacy & Safety advantages**
The only platform designed to engage both T cells AND NK cells for enhanced anti-tumor potency, while incorporating a masking technology demonstrating 300x improved safety compared to the non-masked comparator

- 3 Clinical-Stage Assets with Partnership/Investment Potential**
Two Phase 2 programs (CM24 in pancreatic cancer, NT2I9 in head and neck) with positive data — available for partnership

- 4 Funded Through Key Milestones**
Cash runway extends into 2027, covering IMI240 Tox, IND filing up to Phase 1 initiation



FINANCIALS

Cash
\$9.5M

As of December 31, 2025

Runway
INTO H12027

Exchange
**NASDAQ + TASE:
PPBT**

Shares Outstanding
930K

As of December 31, 2025

The Problem: T Cell Therapies Need a New Approach

While multi-specific biologics have demonstrated initial success in hematologic cancers, current T-cell engagers face substantial challenges that have constrained their broader clinical impact in solid tumors.



Imprecise Targeting

Many T-cell engagers are "always on" — activating throughout the body rather than selectively at tumors

51-90%

CRS rates with current TCEs

* Synnott et al., Cancer, 2025 ([URL](#))

Severe Toxicity

T-cell engagers cause cytokine release syndrome (CRS), limiting therapeutic doses



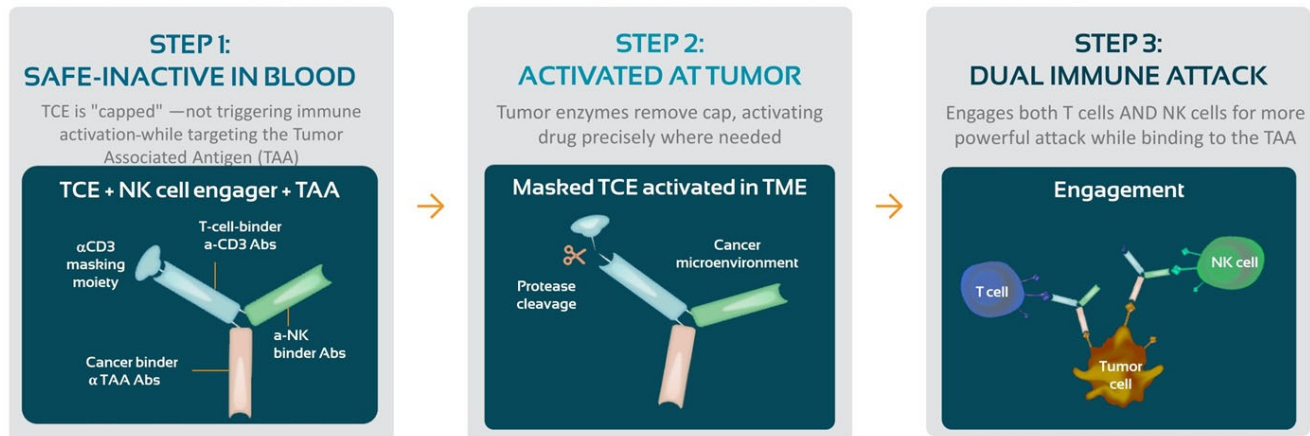
Limited Potency

Engaging only T cells isn't enough — tumors adapt and escape single-mechanism therapies



Our Lead Program: CAPTN-3 Platform

Solid tumors are the next frontier for T-cell engagers: With CAPTN-3, tri-specific antibodies that enhance immune activation only at tumors site- combining safety with powerful anti-tumor activity



Key Advantage:

In preclinical studies, IM1240 had improved safety at doses 300x higher than the non-capped variant

A pipeline dedicated to advancing oncology therapies

PROGRAM

INDICATION

PRECLINICAL

PHASE 1

PHASE 2

COLLABORATOR

KEY NEXT
MILESTONES

CAPTIN-3 PLATFORM — Lead Program

IM1240

Capped-CD3xT4xNKG2A

Solid Tumors



TOX, IND,
in 2026, Ph I
Initiation in
2027

IM1305

Capped-CD3xTROP2xNKG2A

Solid Tumors



CLINICAL ASSETS — Partnership Opportunities

CM24

CEACAM1 mAb

Pancreatic



Partnering

NT219

IRS1/2 + STAT3

Head and Neck



Data
Expected in
2026



2026: Multiple Upcoming Value-Creating Catalysts

Q3 2026	Q4 2026	Q1 2027	Ongoing
IM1240 GLP Tox Complete Final safety studies to support IND filing	IM1240 IND Submission FDA application to begin human trials	IM1240 Phase I Start First patient dosed	NT219 Interim Data Phase 2 head and neck readout IM1305 Advancement TROP2 program preclinical progress CM24 partnership Phase 2b initiation upon partnership

 IM1240 advancement into Phase 1 represents a major de-risking event for CAPTN-3





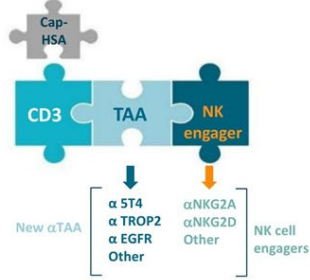
CAPTN-3: Conditionally-Activated Tri-Specific Antibody Platform

CAPTN-3: Built to Stand Out — Enhanced Efficacy with Improved Safety



*Based on publicly available information

Plug & Play Tri-specific Scaffold Differentiated by Capped TCE with an NK Cell Activating Arm

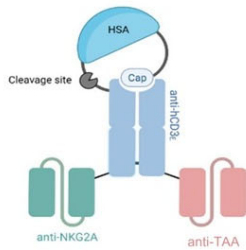


Modular TCE architecture

- Allows integration of multiple TAAs or NK-activating arms, enabling a robust pipeline of novel drug candidates.
- Multiple opportunities for development and partnering

Differentiated TCE Platform

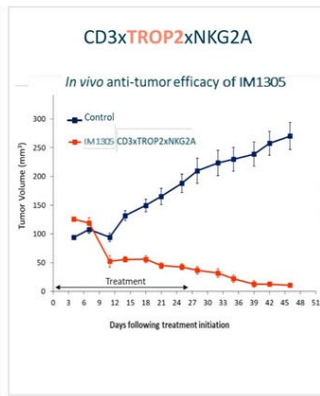
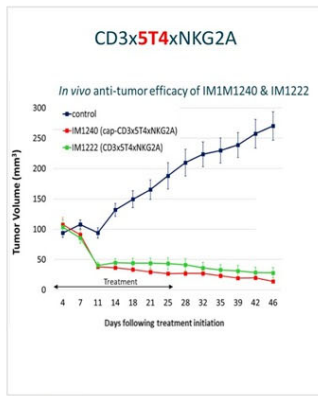
- **Dual immune activation** of T cells and NK cells drives synergistic and robust efficacy
- **Potent activation of highly cytotoxic T-cell subsets** (CD8⁺, γδ2), further enhanced by checkpoint modulation (NKG2A/HLA-E axis)
- **Conditionally activated TCE design** delivers a superior safety profile with enhanced antitumor activity
- **Optimized pharmacokinetics and stability** enabled by the capping design and **incorporation of human serum albumin (HSA)**
- Tumor-selective activation via **multi-protease**-mediated cap cleavage and a **non-capped TAA design** enables efficient targeting across multiple tumor types and optimal immune engagement



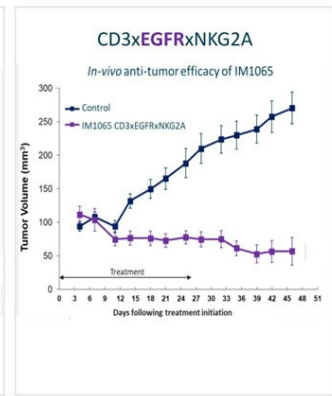
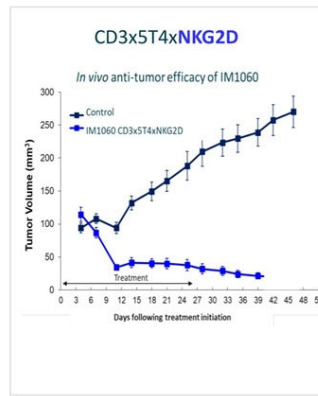
Plug & Play Platform Capabilities Demonstrated *In-Vivo*

Sustained tumor regression was presented for several tri-specifics, targeting various TAAs and NK receptors:

Pipeline candidates

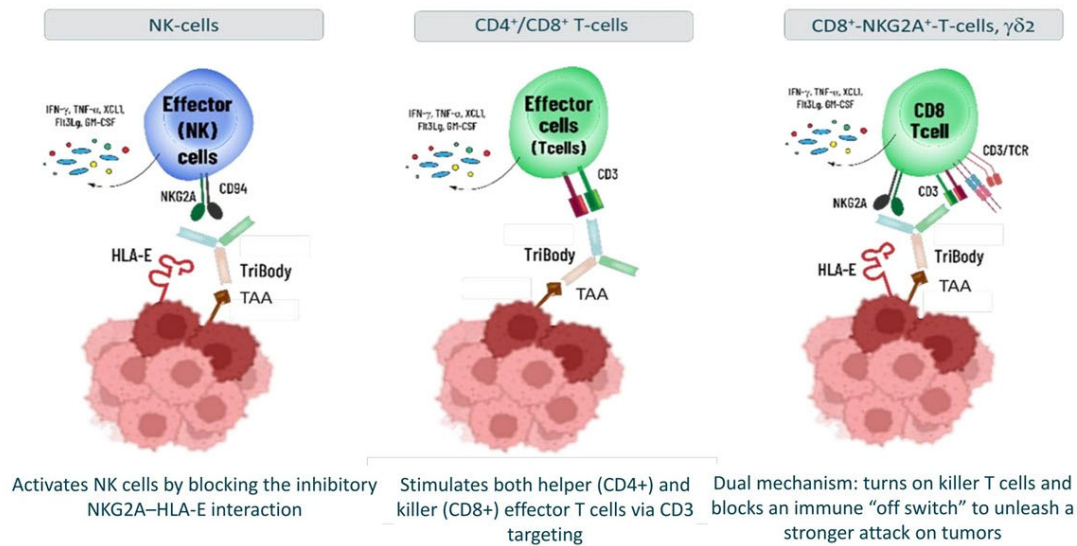


Platform demonstrations



Unleashing both innate and adaptive immune response

Dual activation of cytotoxic T-cells by CD3 engagement & NKG2A inhibition

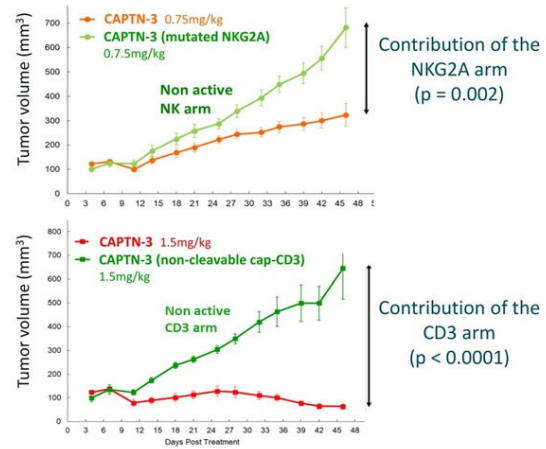


Significant contribution of the NK and CD3 arms to the anti-tumor activity in vivo (EACR 2025)

Substantial contribution of the NKG2A arm was demonstrated:

- **in-vivo:** IL15 KI mouse model
- **in patient-derived explants (PDE)**
- in cell-based assays:
 - reinvigoration of exhausted T cells
 - NKG2A⁺gd2 cell activation and anti-cancer activity
- Blocking of NK arm function through mutation resulted in a substantial reduction in anti-cancer efficacy of CAPTN-3
- The synergistic effect of the NK arm and the CD3 arm was demonstrated

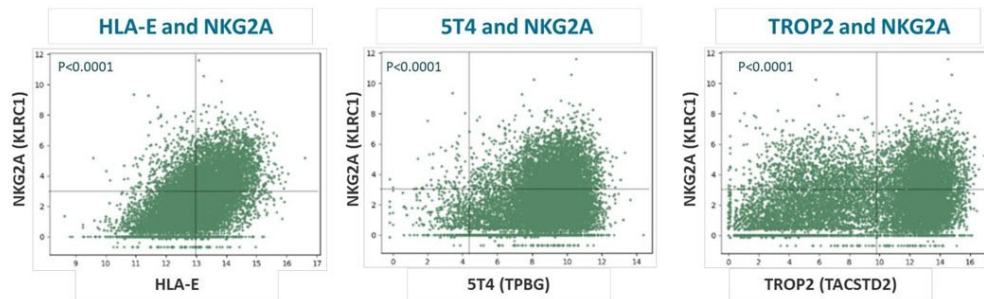
TNBC tumor growth inhibition in IL15 KI mice* Significant effects of the NK and CD3 arms



*Xenograft model of B-NDG IL15 KI mice inoculated with PBMC+MDA-MB-231, treatments were QOD till end of study. The added value of the NKG2A arm was tested by comparing IM1240 activity to a capCD3xST4xmutatedNKG2A (IM1340) at 0.75mg/kg dose. The added value of the CD3 arm was tested by comparing IM1240 activity to a non-cleavable capCD3xST4xNKG2A (IM1242) at 1.5mg/kg dose.

The power of NK arm inclusion in CAPTN-3 structure

NKG2A is consistently accompanied by tumor expression of 5T4 or TROP2 (ESMO-IO 2025)



Transcriptomic analysis of approximately ~11,000 primary cancers (TCGA)

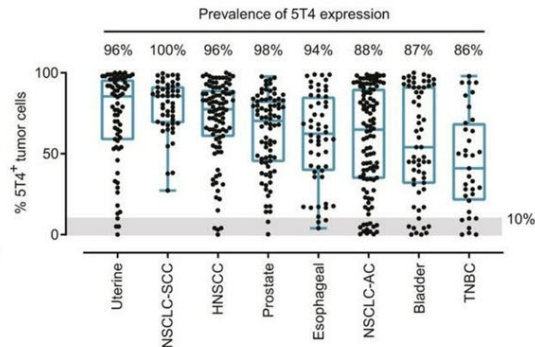
- NKG2A and HLA-E expression in tumors demonstrates an invariant relationship.
- NKG2A expression was strongly correlated to 5T4 and TROP2 expression, supporting the CAPTN-3 design of combining T cell engagement with these TAAs with the inhibition of the NKG2A:HLA-E axis.



5T4 & TROP2

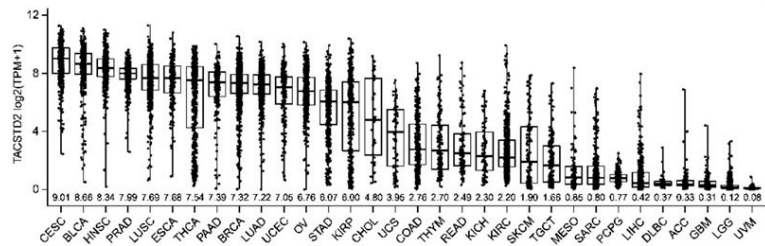
Sought-after targets in oncology expressed on solid tumors

5T4 is a Tumor Associated Antigen prevalent in several large indications



Kemper et al. LSA 2022;5:e202201481

Trop-2 expression distribution across multiple solid tumors



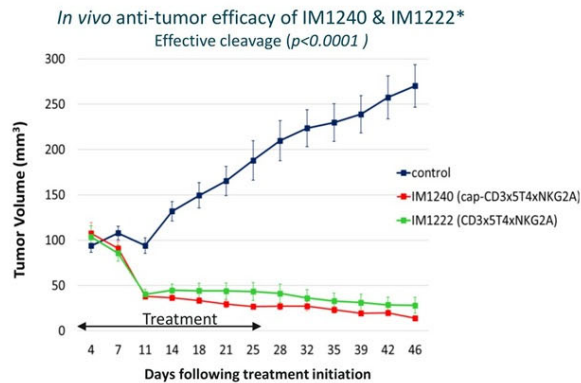
Kuo, Peiwen, et al. PLoS one 20.4 (2025): e0321555



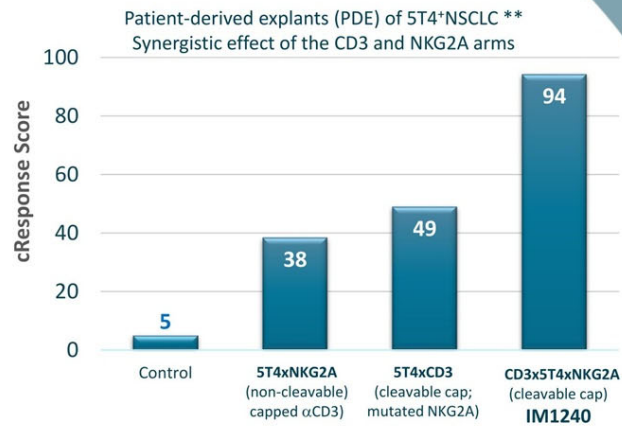
CESC, cervical squamous cell carcinoma and endocervical adenocarcinoma; BLCA, bladder urothelial carcinoma; PRAD, prostate adenocarcinoma; LUAD and LUSC, NSCLC; ESCA, esophageal carcinoma; THCA, thyroid carcinoma; PAAD, pancreatic adenocarcinoma; UCEC, uterine corpus endometrial carcinoma

IM1240: capped-CD3x5T4xNKG2A

In vivo efficacy and synergistic effect of the CD3 and NKG2A arms



- Tumor regression by IM1240 is demonstrated. No tumor recurrence observed
- Similar effects for IM1240 (CD3-capped) and IM1222 (CD3-non capped) suggest efficient IM1240 efficacy following cap-cleavage



- Disabling either the CD3 or NKG2A arm diminished activity (score of 38 or 49), while the full tri-specific antibody drove powerful cancer cell killing (score of 94)



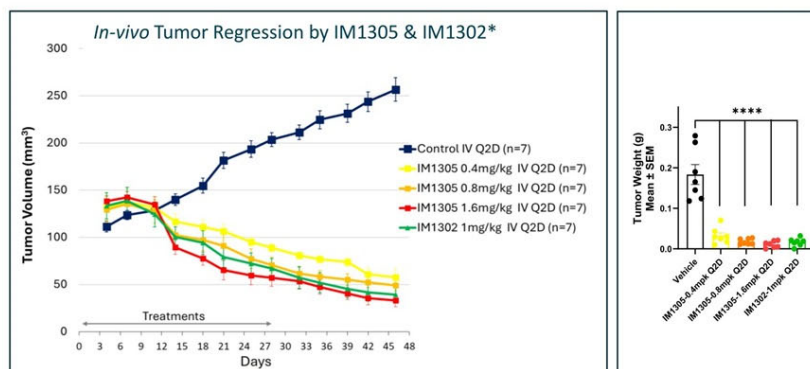
*TNBC MDA-MB-231 cells were s.c. inoculated 1:1 with PBMCs on day 0. Treatments: IV QOD 1mg/kg (non-capped) or equimolar dose 1.7 mg/kg (capped, 1240) till day 24, 8 mice per group. Follow up 20 days following treatment completion

**5T4⁺NSCLC Patient-Derived Explant (PDE)* at 10nM concentration

***Ex vivo patient-derived tumor explants (PDE) involve the culture of resected tumor fragments that retain the TME native architecture and immune cell array, tumor heterogeneity and the proliferative capacity (Golan 2023, Powley 2020). Fresh NSCLC patient-derived biopsy was cultured as 250um slices, treated for 96hr, fixed, and H&E slides were blindly scored for response based on cell viability and damage to the cancerous tissue according to pathological criteria. A scale of 0–100 was created with a score of 0 representing completely viable cancer tissue and a score of 100 representing no viable cancer cells. The analysis included functional (cell death) score of response (cResponse) using proprietary artificial intelligence (AI) algorithm (Curesponse).

IM1305: capped-CD3xTROP2xNKG2A

In vivo PoC: Dose Depended, Effective and Sustainable

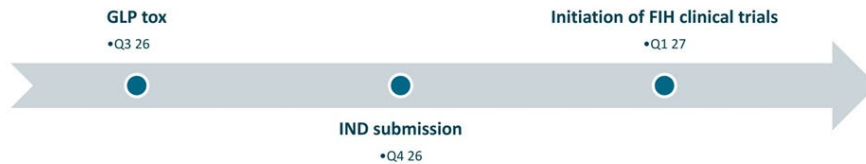


- Sustained tumor regression by IM1305. No tumor recurrence observed.
- Similar results were obtained with equimolar doses of the non-capped variant, IM1302, suggesting efficient cleavage of the cap in the TME.



*IM1302 is uncapped-CD3xTROP2xNKG2A. TNBC MDA-MB-231 cells were s.c. inoculated 1:1 with PBMCs on day 0 in IL15-KI BNDG mice (8 mice per group). 20 days following treatment completion tumor was removed and weighed (day 48). Statistics performed by 2-side Anova test.

Next Steps: IM1240 and Other CAPTN-3 Antibodies



Non GLP Dose range finding toxicology study in non-human primates for IM1240 completed successfully:

- Demonstrated improved safety at doses up to 300-fold higher than a non-capped comparator
- Showed increased systemic exposure and a prolonged circulating half-life enabled by its human serum albumin moiety and capping design
- Data support optimization of the planned toxicology study design and reinforce confidence in the safety profile.

Planned IM1240 Phase 1 Study

- Basket trial in certain advanced/metastatic solid tumors likely to express 5T4 potentially including:
TNBC, esophageal, SCCHN, NSCLC, ovarian, gastric adenocarcinoma and bladder cancers
- Primary Objectives: to assess the safety, tolerability and MTD of IM1240 in patients, determine the RP2D of IM1240
- In a pre-IND meeting, the FDA provided a clear roadmap for non-clinical and clinical development

Initiated development of IM1305: capped-CD3xTROP2xNKG2A





CM24: an α -CEACAM1* mAb

Significant opportunity in multiple large indications with unmet medical need

Clinical POC achieved in PDAC

*Carcinoembryonic Antigen Cell Adhesion Molecule

CM24: Targeting CEACAM1 expressing tumors

Attractive new target

- CEACAM1 is **overexpressed** in >90% of colon, pancreatic and bladder cancers and in >70% in lung, gastric and biliary tract cancers
- CEACAM1 is a part of the **Neutrophil Extracellular Traps (NETs) structure**

Demonstrated mechanism of action

- CM24 increases **T cell and NK cell-mediated cytotoxicity** against tumors
- CM24 **binds** to CEACAM1 on NETs and **inhibits NET-related activities**
- CM24 shows benefits in combination with immuno-oncology treatments

PoC Clinical efficacy

- 19% reduction in risk of death (HR=0.81) and 25% reduction in the risk of progression or death (HR=0.75) and 25% ORR, in **metastatic PDAC** as second-line treatment
- **Potential biomarkers:** Serum CEACAM1 and MPO, CEACAM1⁺ tumor cells and CPS

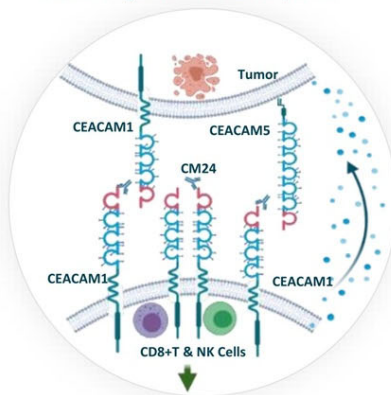
Sizable market potential

- **Large opportunities** to leverage the MoA in multiple indications (lung, colon, GI etc.)
- Significant unmet medical need in pancreatic ductal adenocarcinoma (PDAC), the most common form of pancreatic cancer



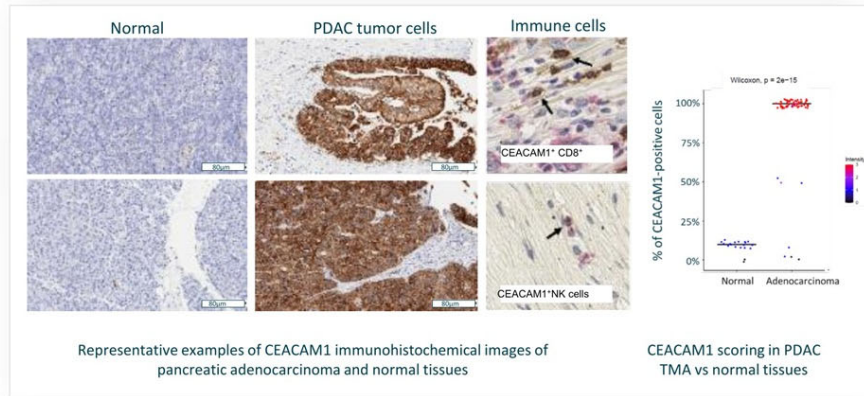
CM24: Immune modulation of CEACAM1 expressing TMEs

Activating the immune response



Making the tumor visible

CEACAM1 expression on tumor and tumor-infiltrating immune cells in PDAC

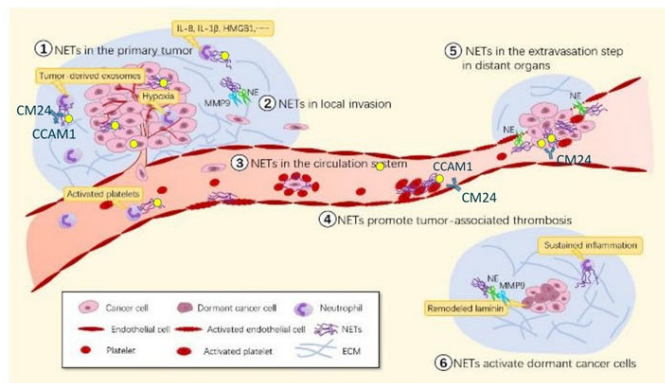


TME- Tumor Microenvironment

Markel et al. *J Immunol* 2002, 2006; *Immunology*, 2008; *Cancer Immunol Immunother* 2010; Ortenberg et al. *Mol Cancer Ther* 2012; Zhou, 2009; Li, 2013; Huang, 2015; Acharya N, et al. *J Immunotherapy Canc* 8:e911-22, 2020.; Gerstel, D. et al. CEACAM1 creates a pro-angiogenic tumor microenvironment that supports tumor vessel maturation. *Oncogene* 30, 4275-4288 (2011), *Beauchemin N, *Cancer Metastasis Rev* 32, 643-671 (2013)

CM24 blocks NET-related activities by CEACAM1 inhibition

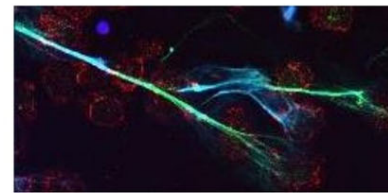
CEACAM1 is a part of the **Neutrophil extracellular traps (NET)** structure



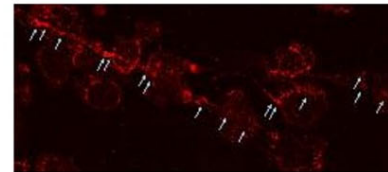
NETs are web-like structures involved in:

- Tumor immune evasion
- Tumor progression
- Metastasis
- Cancer-associated thrombosis

CM24 binds to CEACAM1 on NETs



MPO (green) DAPI (blue), CM24 (red)



CM24 (red)



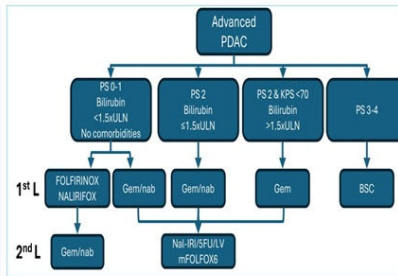
[adapted from "Chen, Q et al. Cancers 2021, 13, 2832"; Reyes RF, et al. Neutrophil Extracellular Trap-Associated CEACAM1 as a Putative Therapeutic Target to Prevent Metastatic Progression of Colon Carcinoma. J Immunol. 2020; NETs Primed intercellular communication in cancer progression as a promising therapeutic target [Shang et al. Biomarker Research (2023) 11:24]

Large market opportunity based on CEACAM1 expression in PDAC

Key PDAC Statistics

- ~60K new cases/year in the US¹; 140K new cases in EU in 2023
- 5-year relative survival rate of 12%¹
- 2nd line chemo has 5-year overall survival rate of 3%¹
- 2nd line Overall Survival of 6 to 8 months^{2,3,4}

Limited Treatment Options



pan-RAS inhibitor advancing in Phase 3 as second-line treatment

CM24 Opportunity

- CEACAM1 expression correlates with poor prognosis in pancreatic cancer⁵
- Clinical and preclinical data support targeting patients based on CEACAM1 levels
- Synergy of CM24 with currently marketed IO therapies

Market opportunity in additional indications based on CEACAM1 expression



1. <https://seer.cancer.gov/statfacts/html/pancreas.html>, 2. De Jesus VH, Camandaroba MPG, Calsavara VF, Riechelmann RP. 3. Systematic review and meta-analysis of gemcitabine-based chemotherapy after FOLFIRINOX in advanced pancreatic cancer. Therapeutic Advances in Medical Oncology. 2020;12. doi:10.1177/1758835920905408 4. Wang-Gillam A, Hubner RA, Siveke JT, et al. NAPOLI-1 phase 3 study of liposomal irinotecan in metastatic pancreatic cancer: Final overall survival analysis and characteristics of long-term survivors. Eur J Cancer. 2019;108:78-87. doi:10.1016/j.ejca.2018.12.007 5. Calinescu et al, Journal of Immunology Research 2018: 7169081; Carcinoembryonic antigen-related cell adhesion molecules (CEACAM) 1, 5 and 6 as biomarkers in pancreatic cancer, DOI:10.1371/journal.pone.0113023

Completed Randomized Phase 2 Combination Study (NCT04731467)

A randomized Bayesian study of CM24 in combination with nivolumab plus SoC chemotherapy in 2nd line PDAC patients*

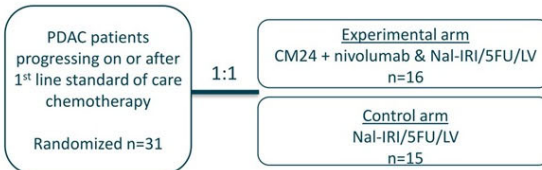
Primary endpoint : OS

Secondary endpoints: PFS, ORR, DCR

OS rate @ 6 & 12 months, PFS rate @ 3 & 6 months

Exploratory biomarkers:

Serum & tumor CEACAM1,
NET marker (Myeloperoxidase-MPO),
PDL1



Demographics and patient characteristics (ITT)

Characteristic	Nal-IRI/5FU/LV	
	Experimental (n=16)	Control (n=15)
Age (median)	66.0	68.0
Male (n, %)	10 (62.5)	8 (53.3)
Female (n, %)	6 (37.5)	7 (46.7)
Race/ white (n, %)	15 (93.8)	14 (93.3)
BMI (median)	23.4	23.1
ECOG (n, %) 0	5 (31.3)	3 (20.0)
1	11 (68.8)	12 (80.0)
Time from initial diagnosis (median, m)	17.8	17.6
Time from most recent disease progression (median, m)	1.0	1.0
BOR CR/PR to prior line (%)	6.3	33.3
BOR SD to prior line (%)	37.5	26.7
BOR CR/PR/SD to prior line (%)	43.8	60.0
Tumor M1 stage at study entry: N (%)	14 (87.5)	14 (93.3)
Pancreaticoduodenectomy	0 (0.0)	1 (6.7)

Safety- well tolerated

Grade ≥3 TEAE	Nal-IRI/5FU/LV	
	Experimental (n=16) N (%)	Control (n=15) N (%)
Neutropenia	2 (12.5)	0 (0.0)
Diarrhea	4 (25.0)	1 (6.7)
Fatigue	2 (12.5)	0 (0.0)
Anaemia	0 (0.0)	0 (0.0)
Nausea	1 (6.3)	0 (0.0)
Vomiting	1 (6.3)	0 (0.0)
Thrombocytopenia	0 (0.0)	0 (0.0)
White blood cell count decreased	0 (0.0)	0 (0.0)



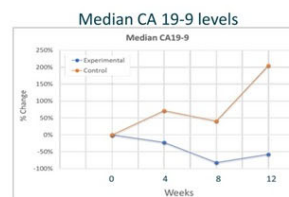
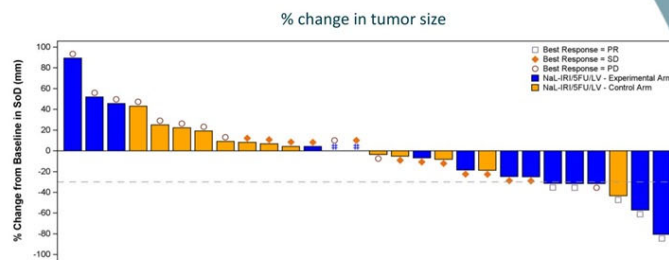
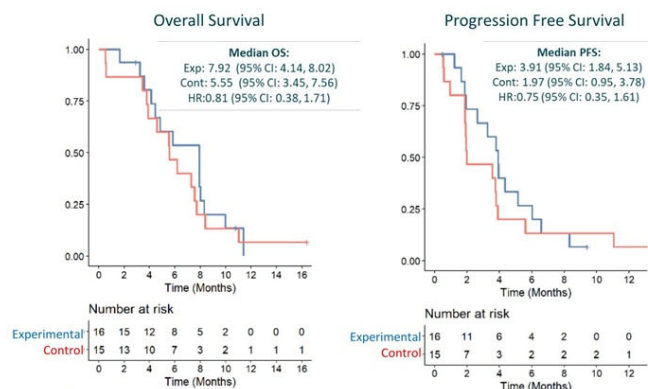
*The other part of the study with gemcitabine/nab-paclitaxel regimen (n=32) was affected by informative censoring hence non interpretable

Phase 2 Efficacy

Proof of Concept demonstrated: Consistent efficacy across all endpoints

- **19% reduction** in risk of death (**HR=0.81**) and **25% reduction** in the risk of progression or death (**HR=0.75**)
- **Prolongation of 2.3 months** in median overall survival and **1.9 months** in median progression-free survival

- **Higher objective response rate (ORR) (25% vs 6.7%)**
- **Higher disease control rate (DCR) (62.5% vs 46.7%)**
- Consistent and continuous **decrease of CA19-9**

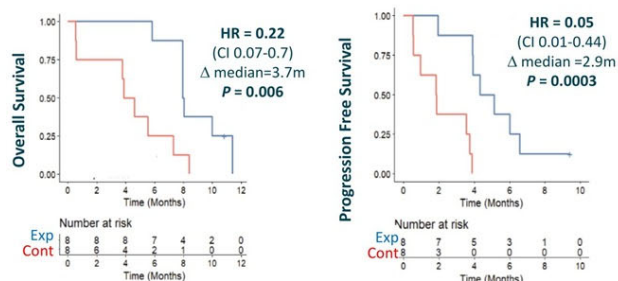


Phase 2 Biomarkers analysis in serum or tumor

Significantly improved OS, PFS and ORR

Serum/tumor CEACAM1 enriched patients

CEACAM1⁺Tumor cell H score 115-275 or Serum CEACAM1 6K-15K pg/mL

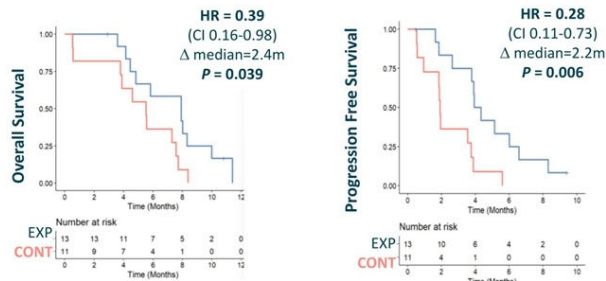


Statistically significant results in patients with pre-treatment serum CEACAM1 levels (6K-15K pg/mL) or tumor CEACAM1 expression (H-score 115-275)

- 78% reduction in risk of death (HR 0.22, p 0.006) and 95% reduction in the risk of progression or death (HR 0.05, p 0.0003)
- Prolongation of 3.7 months in median overall survival and 2.9 months in median progression-free survival
- Higher objective response rate (ORR) (37.5% vs 0%)

serum CEACAM1 or MPO enriched patients

6K < sCCAM1 < 15K pg/mL or 200 < MPO < 600 ng/mL



Statistically significant results in patients with baseline serum CEACAM1 or serum MPO levels representing 80% of patients in the study:

- 61% reduction in risk of death (HR = 0.39, p 0.039) and 72% reduction in the risk of progression or death (HR=0.28, p 0.006)
- Prolongation of 2.4 months in median overall survival and 2.2 months in median progression-free survival
- Higher objective response rate (ORR) (30.7% vs 0%)



NT219: Small Molecule Degradar of IRS 1/2 and Blocker of STAT3

Recurrent/Metastatic Head & Neck Cancer (R/M
SCCHN)

NT219: Novel IRS1/2 and STAT3 dual inhibitor for multiple indications

Innovative MOA

- **Covalently** binds to Insulin Receptor Substrate **IRS1/2** and leads to their **degradation**
- Dual inhibitor of **STAT3 & IRS1/2**, both required to overcome drug resistance
- Affects both the **tumor and the TME**
- Suppresses **cancer stem cells**

Robust preclinical package

- **Outstanding efficacy** in various PDX models in monotherapy and in combination
- Potential in **EGFRi, MAPKi and ICI resistant cancers**

Clinical Stage

- **No DLTs** in monotherapy or in combination
- **Early clinical proof-of-mechanism**
- Activated IGF1R and STAT3 identified as potential **predictive biomarkers**
- **RP2D determined at 100 mg/kg, Phase 1 concluded. Phase 2 initiated**

Broad Market Potential

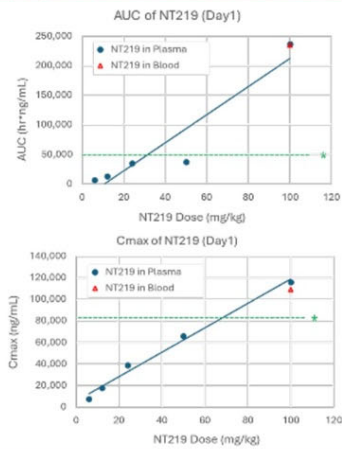
- Opportunity to **establish a Standard of Care** in 2L r/m SCCN patients
- **Multiple market upsides** in combination with approved cancer treatments
- **NT219 is the only IRS degrader available** for clinical investigation



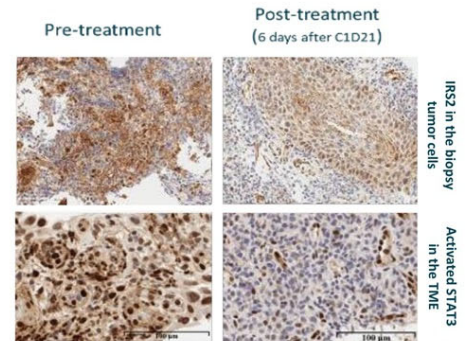
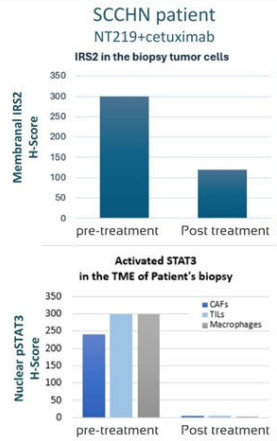
Dose escalation in combination with cetuximab:

Well tolerated, target exposure reached, responses observed

Dose-proportional increase in AUC and Cmax values



Target engagement demonstrated in patients' biopsies



- NT219 was well tolerated as monotherapy and in combination with cetuximab; No DLTs reported
- Human Equivalent Dose exposure was reached at 50 mg/kg
- RP2D determined at 100 mg/kg



NT219: Activity in mono and combo dose escalation

Monotherapy efficacy:

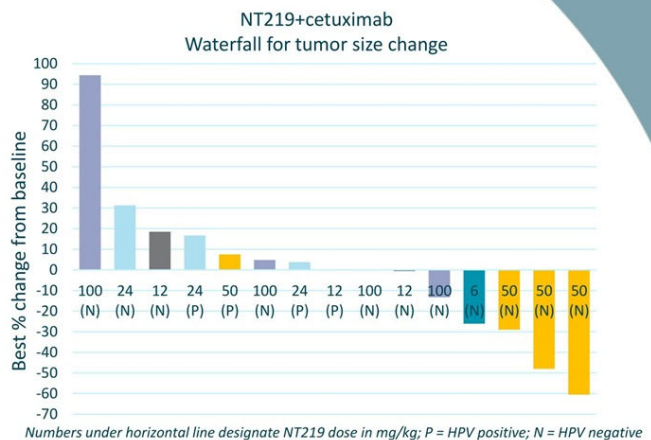
- 20 evaluable patients (all doses): 2 PR (confirmed-GEJ, unconfirmed-PDAC), 5 SD

Efficacy overview of combination arm in SCCHN patients:

- 16 evaluable patients (all doses 6, 12, 24, 50, 100 mg/kg)
- **Median follow-up of 9.4 months (95% CI: 3.4-10.0)**
- Out of 8 treated with active doses (50 and 100 mg/kg):
 - **2 confirmed PRs; 3 SD**
 - ORR:25%, DCR: 62.5%

Biomarker analysis at 50mg/kg dose of NT219 with cetuximab:

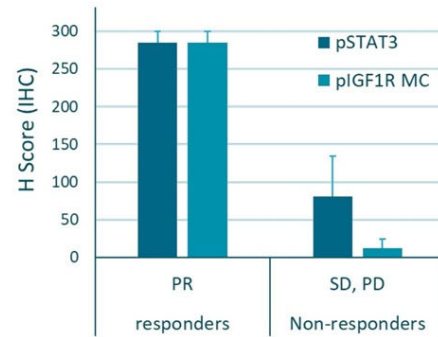
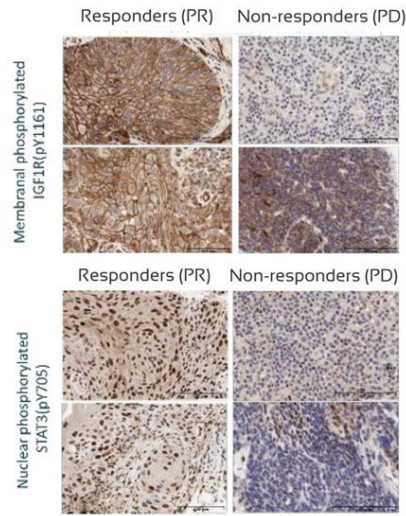
- Significant differences in the activated pIGF1R and pSTAT3 were revealed in the 2 responders (PR) compared to the 2 non-responders (PD), verified in the 100mg/kg cohort.



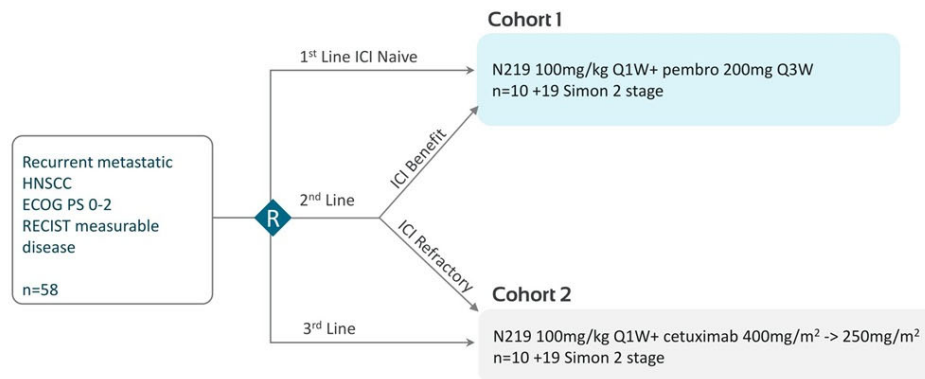
Activated pIGF1R and STAT3, NT219 targets, as potential predictive biomarkers

Biomarker analysis at the effective doses of NT219 (50&100mg/kg) with cetuximab:

- Significant differences in the pretreatment levels of activated pIGF1R and pSTAT3 were revealed in the responders (PR) compared to the non-responders (PD,SD)
- The findings at the 50mg/kg were verified at the 100mg/kg dosed patients



Phase 2: NT219 + pembro or cetuximab in patients with R/M HNSCC



Phase 2 study initiated June 2025

Lead PI: Antonio Jimeno MD, PhD; U. Colorado



Snapshot: Company Highlights

- 1 Lead Program Entering the Clinic**
IMI240, our first tri-specific antibody from the CAPTN-3 platform

- 2 CAPTN-3: Differentiated multi-specific platform with Efficacy & Safety advantages**
The only platform designed to engage both T cells AND NK cells for enhanced anti-tumor potency, while incorporating a masking technology demonstrating 300x improved safety compared to the non-masked comparator

- 3 Clinical-Stage Assets with Partnership/Investment Potential**
Two Phase 2 programs (CM24 in pancreatic cancer, NT2I9 in head and neck) with positive data — available for partnership

- 4 Funded Through Key Milestones**
Cash runway extends into 2027, covering IMI240 Tox, IND filing up to Phase 1 initiation



FINANCIALS

Cash
\$9.5M

As of December 31, 2025

Runway
INTO H12027

Exchange
**NASDAQ + TASE:
PPBT**

Shares Outstanding
930K

As of December 31, 2025

Leadership Team



Eric K. Rowinsky, MD
Chairman of the Board
Former CMO at ImClone, Stemline,
Board member at Biogen Inc.



Gil Efron
Chief Executive Officer
Former Deputy CEO & CFO at
Kamada (NASDAQ:KMDA)



Shai Lankry
Chief Financial Officer
Former CFO at Gamida Cell Ltd.
(NASDAQ:GMDA)
gamida 



Michael Schickler, PhD
Head of Clinical and Regulatory Affairs
Formerly at Hoffmann-La Roche,
CEO at CureTech



Hadas Reuveni, PhD
VP Research & Development
Formerly at Keryx
(NASDAQ:KERYX)

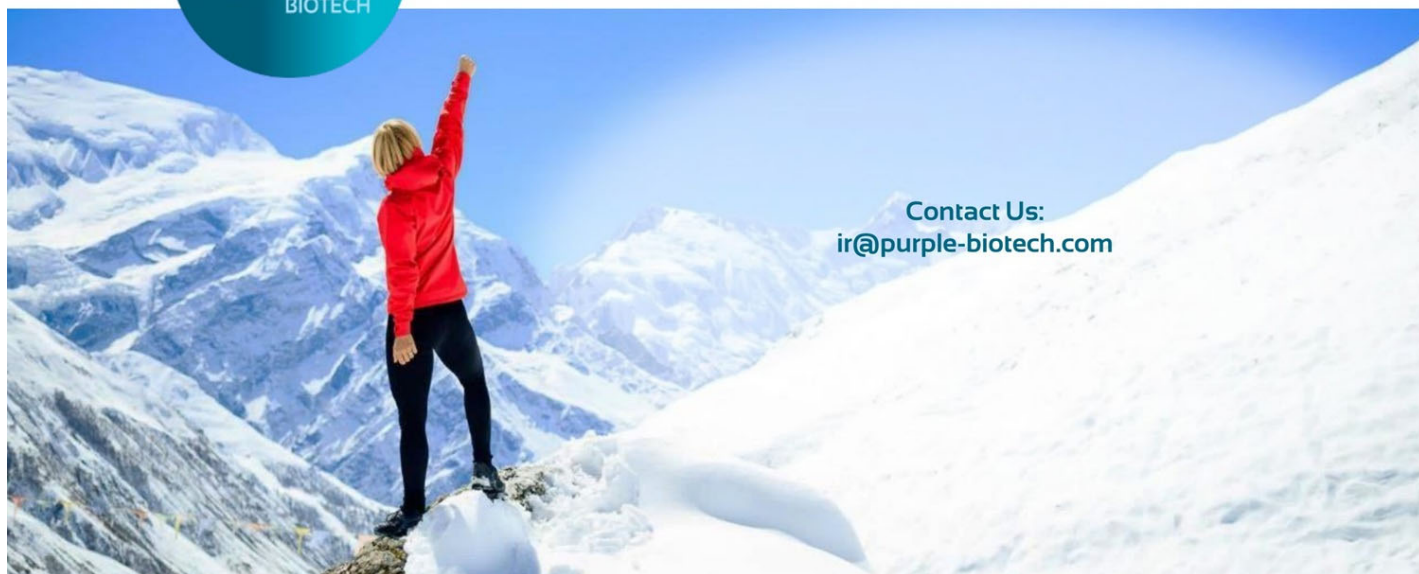


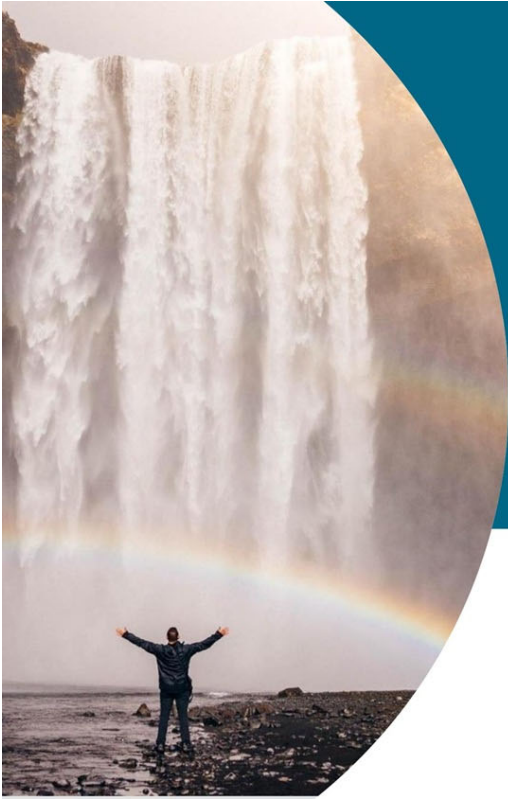
PURPLE
BIOTECH

THANK YOU

Contact Us:

ir@purple-biotech.com

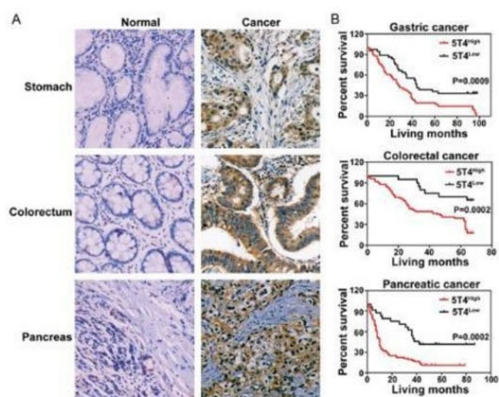




Appendix A | CAPTN-3

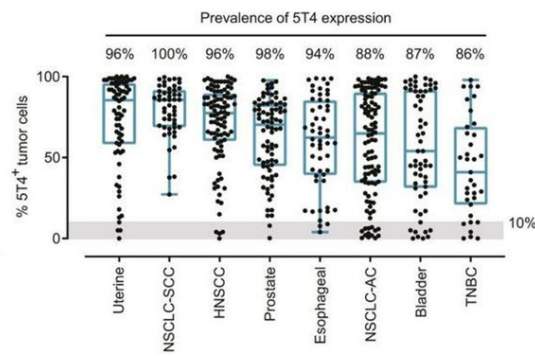
5T4: a Novel Target in Oncology Expressed on Solid Tumors

5T4 is highly expressed on common cancer types and relates to a poor prognosis



Am J Cancer Res 2018;8(4):610-623 www.ajcr.us /ISSN:2156-6976/ajcr0074519

5T4 is a Tumor Associated Antigen prevalent in several large indications



Kemper et al. LSA 2022;5:e202201481

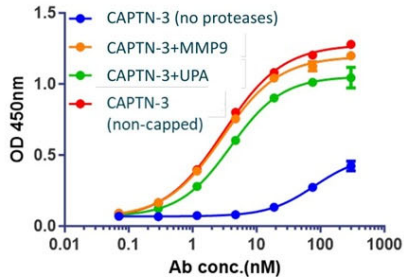


Multiple 5T4 targeting programs are advancing with different modalities

CD3 Cap inhibits T cell binding and cleavage restores activity: CAP advantages: improved safety, PK, and therapeutic window

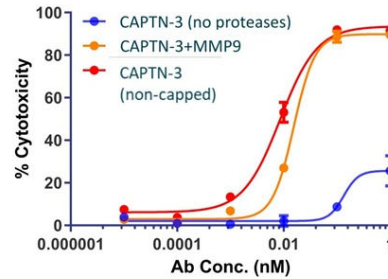
ELISA CD3 binding assay

Binding of CAPTN-3 to CD3 is dependent on protease cleavage



PBMCs mediated cytotoxicity assay

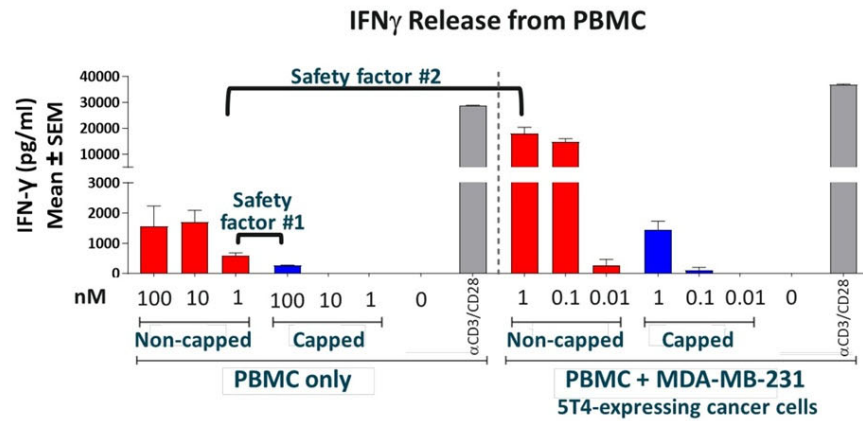
Cytotoxic effect is restored following protease cleavage



- Binding to CD3 and cytotoxic effect is retained following protease cleavage of the CD3 cap
- CAPTN-3 uses multiple TME-specific proteases – increasing likelihood for cleavage by broad-tumor types



Cytokine release is 5T4-dependent and suppressed by the cap for improved safety



Two safety factors through the design of the tri-specific Ab: the TCE capping and the advantage of its TAA arm:

- **Safety factor #1:** The capped variant vs the non capped, showed a decreased IFN γ release > 150-fold
- **Safety factor #2:** In the absence of 5T4-expressing cancer cells, the non-capped variant showed a decreased IFN γ release ~50-fold





Appendix B | CM24

CEACAM1 Plays a Key Role in Cancer Biology

01 | ADHESION

Horst, 2011

Oncogene

"CEACAM1 creates a pro-angiogenic tumor microenvironment that **supports tumor vessel maturation**"

Ferri, 2020

The Journal of Immunology

"Neutrophil extracellular trap-associated CEACAM1 as a putative therapeutic target to **prevent metastatic progression** of colon carcinoma"

02 | IMMUNE CELLS/ IMMUNE EXCLUSION

Tsuzuki, 2020



"**Immune-checkpoint molecules** on regulatory T-cells as a potential therapeutic target in head and neck squamous cell cancers"

Tsang, 2020

Cancer Biotherapy & Radiopharmaceuticals

"[Blockade] **enhances natural killer cell cytotoxicity** against tumor cells through blockade of the inhibitory CEACAM1 / CEACAM5 immune checkpoint pathway"

03 | IMMUNO-ONCOLOGY

Blumberg, 2015

nature

"CEACAM1 **regulates TIM-3-mediated tolerance and exhaustion**"

Shively, 2013

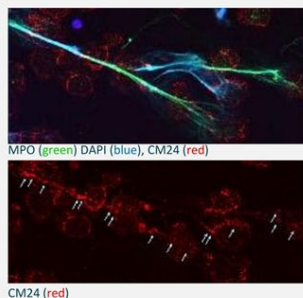
Experimental Cell Research

"CEACAM1 **regulates Fas-mediated apoptosis** in Jurkat T-cells via its interaction with β -catenin"

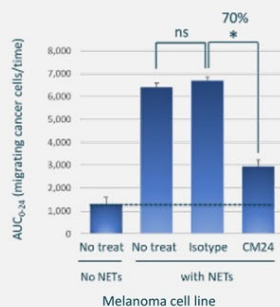


CM24 binding/efficacy can be predicted by MPO levels

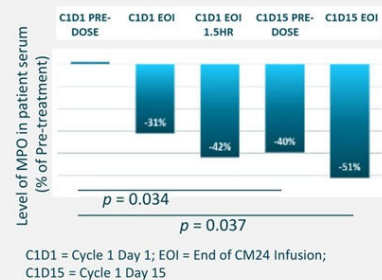
CM24 binds to CEACAM1 on NETs



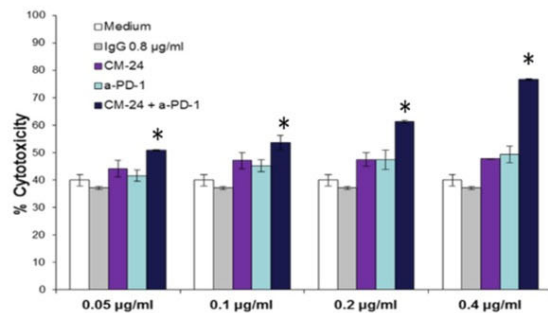
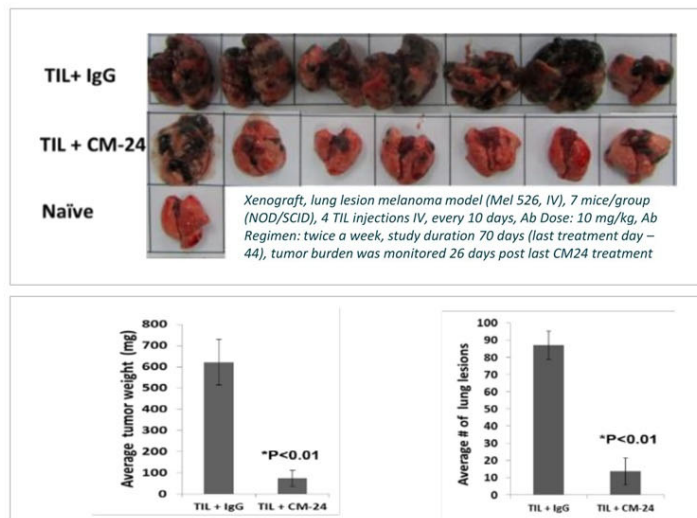
CM24 Inhibits NET-Induced migration of CEACAM1 expressing cancer cells



CM24-Nivo treatment significantly reduced the enhanced NET levels in patient's serum



CM24 Reduces Tumor Burden & Synergetic with α -PD-1



Significant benefits as both single agent and in combination with α -PD-1

Phase 1 Dose Escalation Interim Results

CM24 is Safe and Well Tolerated in Combination with Nivolumab

Study Design

- As of March 8th, 2022, a total of 13 patients were enrolled and 11 patients were evaluable for DLT determination (8 PDAC, 2 CRC and 1 PTC).
- 9 patients had received 2 prior regimens for metastatic disease, 2 patients had one previous line.



Safety

- No DLTs were observed across all dose levels; no Grade 4 AEs or treatment-related deaths have been reported.
- Grade 3 AEs were noted in 6/13 patients (46%).

AE Term	Total	Grade				
		1	2	3	4/5	
Diarrhea	5	4		1		
Abdominal pain	4	1	3			
Fever	4	2	2			
Headache	4	3	1			
Fatigue	4	4				
Nausea	3	1	2			
Creatinine increased	3	2	1			
Hypokalemia	2			2		
Dyspnea	2	1		1		
Constipation	2	2				
Cough	2	2				
Abdominal pain aggravated	1			1		
Alkaline phosphatase increase	1			1		
Atrial flutter	1			1		
C-Diff Colitis	1			1		
GI bleed	1			1		
Leukocytosis	1			1		
Small bowel obstruction	1			1		

CM24 Phase 1 Combination Study (NCT04731467)

Demographics

In the Phase 1 part, patients with indicated refractory cancers were administered CM24 at 10, 15, and 20mg/kg q2w and nivolumab 480mg q4w.

- The primary objective of this part was to evaluate safety, tolerability, pharmacokinetics and determine the RP2D
- Safety was assessed according to CTCAE v5 and preliminary anti-tumor activity was assessed by the investigators according to RECISTv1.1 using CT/MRI
- CM24 and CEACAM1 measurements in serum, biopsy specimens, and TILs, as well as tumor and TILs PD-L1 levels are being determined

As of March 8th, 2022, a total of 13 patients were enrolled and 11 patients were evaluable for dose-limiting toxicity (DLT) determination (8 PDAC, 2 CRC and 1 PTC)

- 9 patients had received 2 prior regimens for metastatic disease and 2 patients had one previous line.

Demographics of patients treated with CM24 (10, 15, 20mg/kg) in combination with nivolumab (480mg)

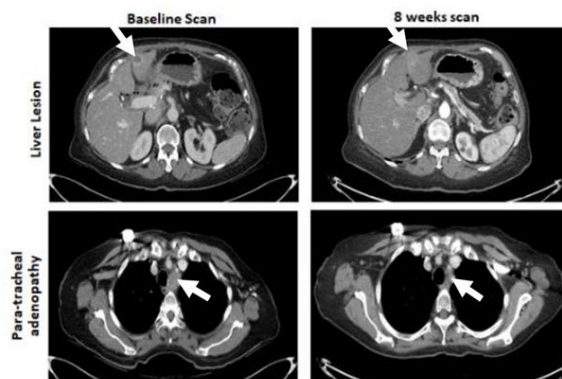
Median age, years (range)	65 (49-76)	Prior Lines of Therapy, n (%)	
Sex, n (%)		1	2 (18%)
Male	5 (45%)	2	9 (82%)
Female	6 (55%)	Diagnosis, n (%)	
Ethnicity, n (%)		Pancreatic cancer	8 (73%)
Not Hispanic or Latino	10 (91%)	Papillary Thyroid cancer	1 (9%)
Hispanic or Latino	1 (9%)	Colorectal cancer	2 (18%)
Race, n (%)		Median Time from Initial Diagnosis months (range)	23 (11-73)
White	10 (91%)	ECOG, n (%)	
Black or African American	1 (9%)	0	7 (64%)
		1	4 (36%)



Confirmed Partial Response in a 3L PDAC Patient

Patient Profile

- 65 y/o female, pancreatic cancer
- 2 prior lines of treatments: FOLFIRINOX and gemcitabine/nab-paclitaxel
- Post Whipple Procedure
- Patient had a germline NF1 VUS, with MSI-S and PDL-1 IHC 2+ and 5% staining
- Confirmed Partial Response: after initial treatment, the patient had a Partial Response of 40%, with a definite reduction of the para-tracheal adenopathy and liver lesions and 58% reduction in CA19-9 levels
- Under treatment for 6 months, still under monitoring.



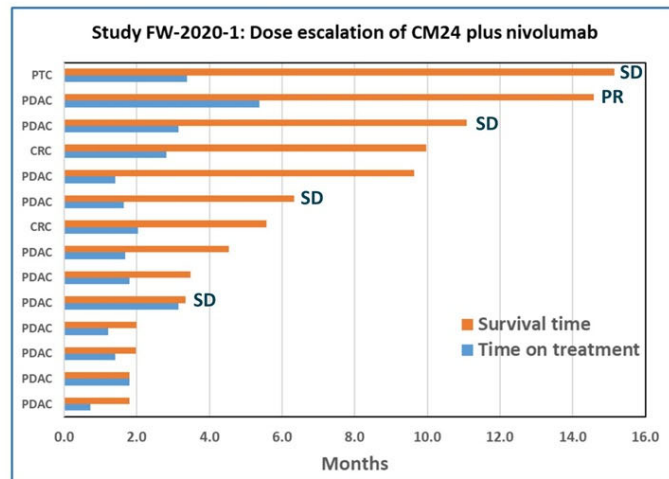
CM24 Phase 1 Dose Escalation Results

Encouraging data in 2L/3L Pancreatic Ductal Adenocarcinoma (PDAC) patients

Study Results

14 patients were evaluable for efficacy:

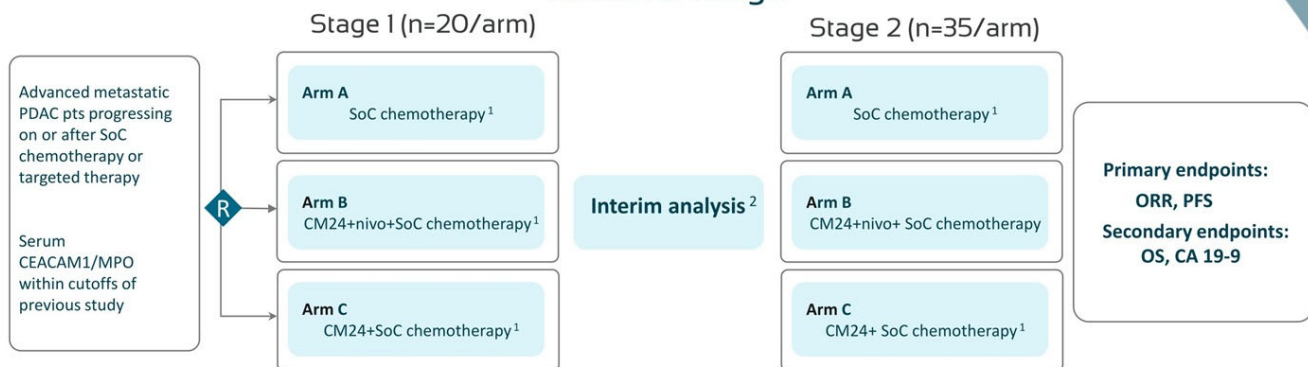
- Best overall response included **1 Partial Response (PR)** (PDAC) and **4 Stable Disease (SD)** (3 PDAC and 1 papillary thyroid cancer (PTC))
- Pharmacokinetic analysis of CM24 shows exposure is dose-proportional across the 3 doses in this study
- Well tolerated with no Dose Limiting Toxicities (DLTs) and no grade ≥ 4 Adverse Events (AEs)
- Median Overall Survival 4.5 months (95% CI 2.0-11.1) for 11 PDAC patients



Planned 2nd & 3rd line PDAC Phase 2b study design

To demonstrate enhanced efficacy in enriched population and contribution of parts

Simon 2-Stage



¹ - Study regimen will alternate and depend on prior regimen

² - Continue to Stage 2 in either arm B or C, **IF** Arm B vs. Arm C ORR/DCR is different, the arm with lower ORR/DCR will be discontinued; if the difference is small or none – continue with both arms



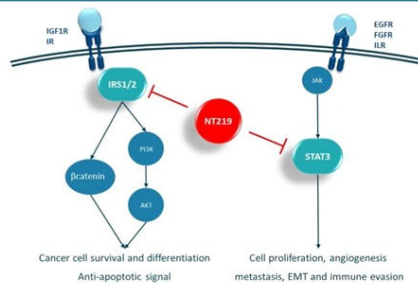


Appendix C | NT219

NT219 targets 2 critical signalling pathways simultaneously leading IRS1/2 to degradation and blocking STAT3

IRS1/2

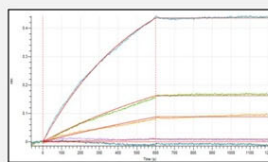
- Promotes a tumor-protective microenvironment
- Overexpressed in multiple tumor types
- Activated as a feedback response to anti-cancer therapies
- Regulates major survival pathways



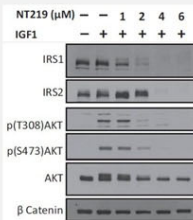
STAT3

- Well-established transcription factor associated with the tumorigenic phenotype
- Hyperactivated in many cancers
- Promotes proliferation, survival, angiogenesis and metastasis
- Critical player in tumor immune evasion

Covalent binding of NT219 leads to IRS degradation



Binding kinetics to IRS1 (Octet)

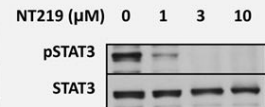


NT219 triggers irreversible dephosphorylation of STAT3

STAT3 dephosphorylation following treatment



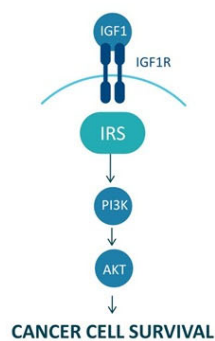
Dose-dependent inhibition



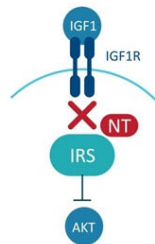
Hadas Reuveni et al. Cancer Res 2013;73:4383-4394; Machado-Neto et al. Clinics 2018; 73,suppl 1 e566; Naokazu Ibuki, Mazhar Ghaffari, Hadas Reuveni et al. Mol Cancer Ther. 2014; 13(12): 2827-2839; Rampias et al. Oncogene 2016; 35(20):2562-4; Flashner-Abramson, Reuveni Hadas, Levitzki Alexander et al. Oncogene 2016;35(20):2675-80; Sanchez-Lopez et al. Oncogene 2016;35(20):2634-44; Zhao C et al. Trends Pharmacol Sci. 2016;37(1):47-6; Johnson, Daniel E et al. Nature reviews. Clinical oncology 2018; 15(4): 234-248; Zi Ying et al. J Cell Biochem. 2018;119:9419-9432.

Novel MOA: IRS Degradation By NT219

Blocking IGF1R-AKT Pathway¹

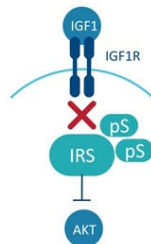


1 Binding to IRS



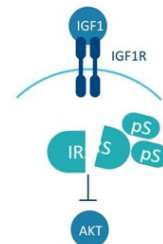
Covalent binding to IRS1/2 leads to the dissociation of IRS1/2 from IGF1R

2 Ser-phosphorylation



Serine phosphorylation prevents re-binding of IRS1/2 to the receptor

3 Degradation



CANCER CELL APOPTOSIS

The proteasome degrades IRS1/2

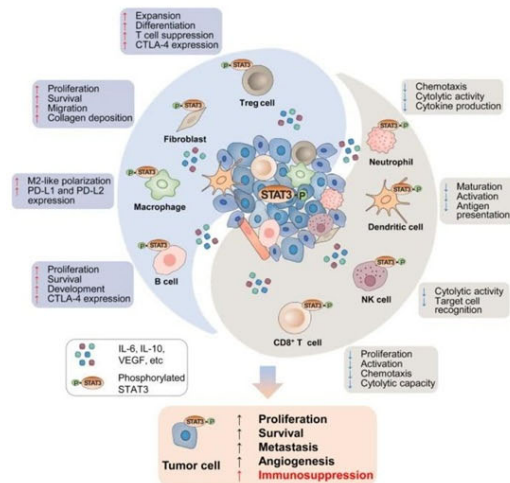
¹Reuveni et al. *Cancer Res* 2013 ; Ibuki et al. *Mol Cancer Ther* 2014

Novel MOA

Signal Transducer and Activator of Transcription 3 (STAT3) Inhibition

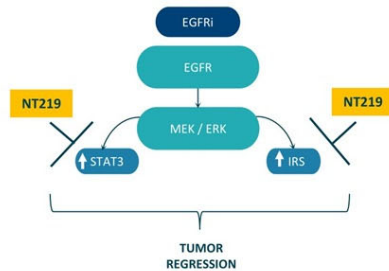
- Point of convergence for numerous oncogenic signaling pathways
- Central in regulating the anti-tumor immune response
- Broadly hyperactivated both in cancer and non-cancerous cells within the tumor ecosystem and plays important roles in inhibiting the expression of crucial immune activation regulators and promoting the production of immunosuppressive factors
- Targeting the STAT3 signaling pathway has emerged as a promising therapeutic strategy for numerous cancers

NT219 demonstrates a durable and dose-dependent suppression of STAT3 tyrosine phosphorylation, affecting both the tumor cells and the tumor microenvironment.

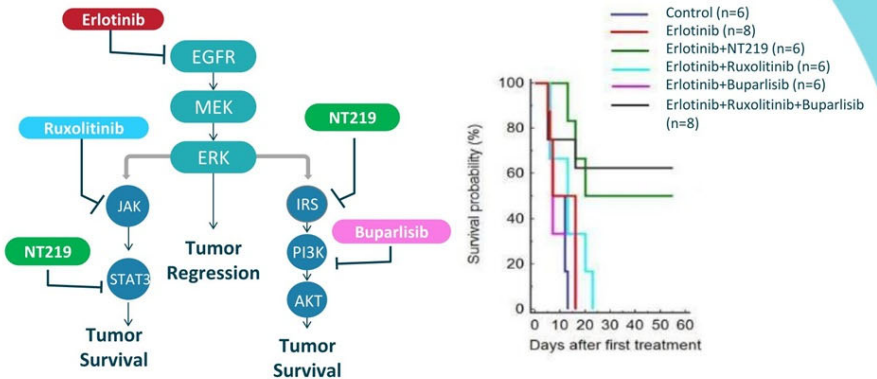


Simultaneous Blockade of STAT3 and AKT Pathways are Required to Overcome Resistance to EGFRi

Overcoming drug resistance



Proof of Concept: PDX model of Head and Neck Cancer

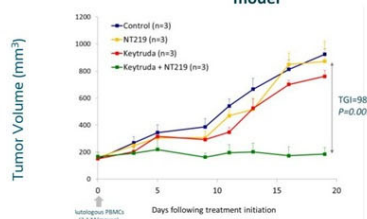


By blocking both STAT3 and IRS resistance pathways, NT219 re-sensitizes tumors to anti-cancer therapies



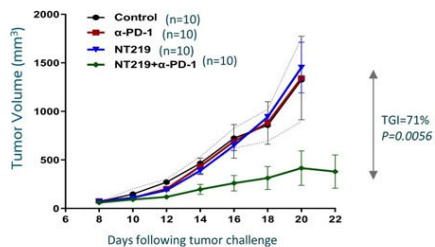
NT219 re-sensitizes α PD1-refractory models and restores sensitivity to EGFRi

NT219+Pembrolizumab reverse α PD1-resistant GEJ tumors in a PDX model



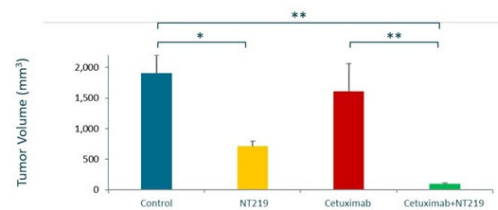
Biopsy and PBMC are from a GEJ cancer patient who progressed on keytruda. Mice were treated 3 times (days 0,5,10); Keytruda - 6mg/kg IP NT219 - 60mg/kg IV

NT219+ α PD1 reverse α PD1-resistant melanoma in a syngeneic mouse model*



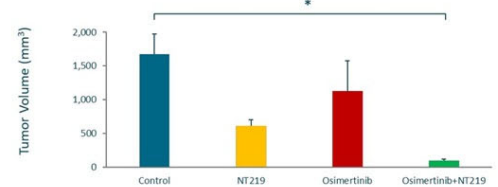
* Collaboration with Prof. Barelli and Prof. Curran, M.D. Anderson cancer center; presented at AACR 2023

SCCHN PDX model



Head & Neck Cancer Recurrent/metastatic squamous cell carcinoma of the head and neck (R/M SCCHN) metastasis, patient progressed on chemoradiation, several chemotherapies and pembrolizumab. Treatments on days 0, 3 and 10, cetuximab - 1mg/mouse, 3 mice/group; PBMCs (1.4M cells/mouse) were injected on day 6. ** $p<0.01$, * $p<0.02$ based on one-way ANOVA with post hoc Tukey's HSD test

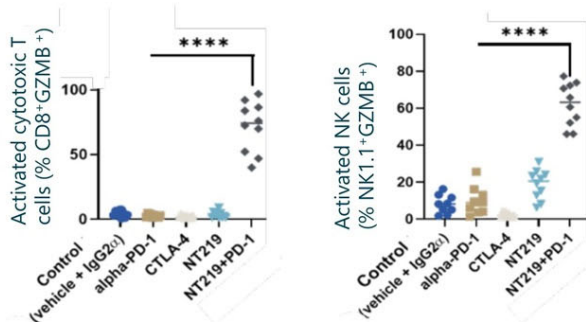
Lung Cancer PDX model



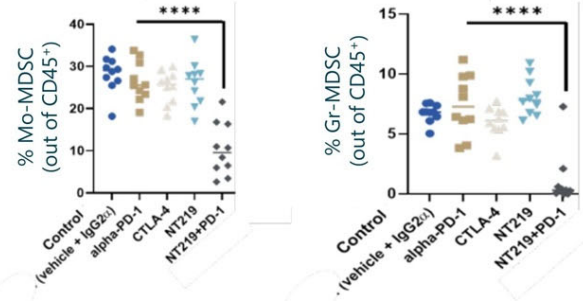
Non-small cell lung cancer (NSCLC) Exon 19 deletion EGFR and T790M, biopsy of bone marrow metastasis, patient previously progressed on afatinib and Osimertinib. Osimertinib 5 mg/kg, NT219 65 mg/kg, mean tumor volume at the end point, 3 mice/group;

NT219 combination with α PD1 achieves significant reprogramming of the TME

NT219+ α PD1 leads to a significant increase in cytotoxic effector cells (T & NK cells)



NT219+ α PD1 leads to a significant reduction in myeloid derived suppressor cells (MDSC)



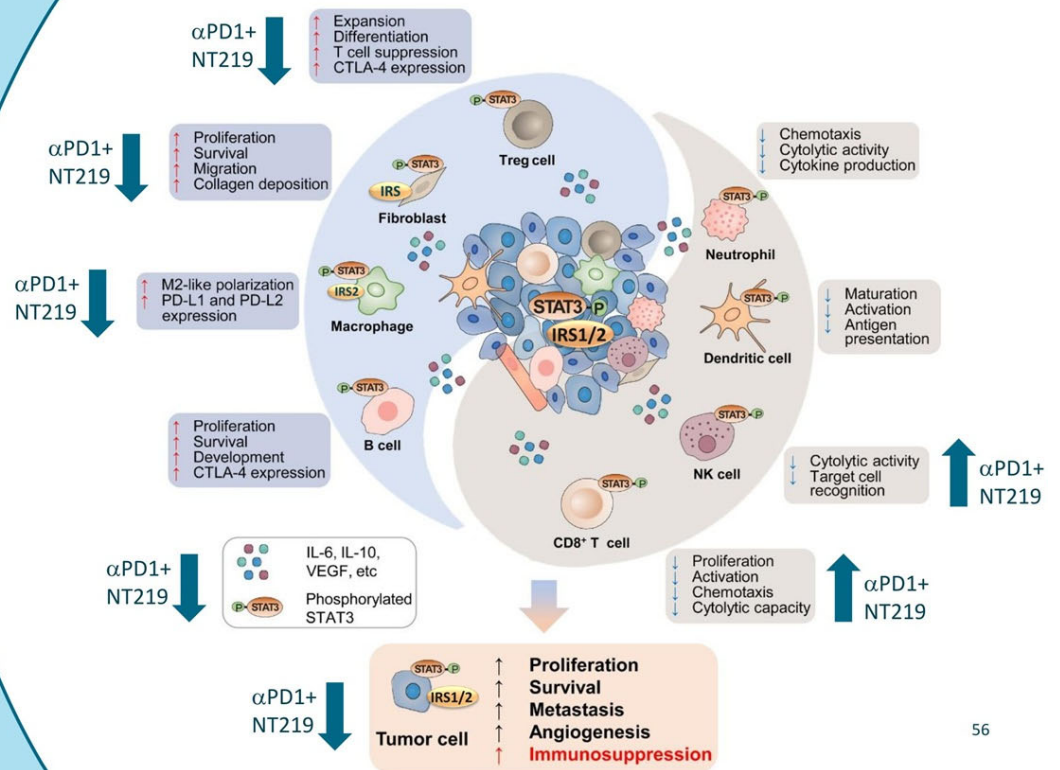
NT219 and α PD1 combination converted immuno-suppressive TME to immuno-reactive



- Immune profiling of the ICB-resistant melanoma tumors following treatment of the mice with the NT219 + α PD1 revealed significant reprogramming of the TME, while none of the monotherapies had an effect (n=10 mice per group, analysis on day 13 following 5 treatments)
- Collaboration with Prof. Barelli and Prof. Curran, M.D. Anderson cancer center, presented at AACR 2023

NT219+αPD1 Converted Immuno- suppressive to Immuno- reactive TME

Zou et al. *Molecular Cancer* (2020) 19:145;
Rampias et al. *Oncogene* (2016) 35:2562;
Flashner, Reuveni, Levitzki et al. *Oncogene*
(2016) 35:2675;
Sanchez-Lopez et al. *Oncogene* (2016) 35:2634



Selected Publications



**Michael
Karin**

ORIGINAL ARTICLE
Oncogene (2015) 34, 2634–2644
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www.nature.com/onc

Targeting colorectal cancer via its microenvironment by inhibiting IGF-1 receptor-insulin receptor substrate and STAT3 signaling

E Sanchez-Lopez¹, E Radtke-Abraham², S Shalounar¹, Z Zhang¹, K Tariguchi^{1,3}, A Luciani⁴ and M Karin¹



**Alexander
Levitzi**

SHORT COMMUNICATION
Oncogene (2015) 34, 2671–2680
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www.nature.com/onc

Targeting melanoma with NT157 by blocking Stat3 and IGF1R signaling

E Radtke-Abraham¹, S Klein¹, G Melnik¹, E Shoshan¹, R Long¹, A She¹, Y Long¹, M Bar-Eli¹, M Sussner^{1,2,3} and A Levitzi^{1,4}



**Menashe
Bar-Eli**

Published Online First May 7, 2013; DOI: 10.1158/0008-5472.CCR-12-3285

Therapeutics, Targets, and Chemical Biology

Therapeutic Destruction of Insulin Receptor Substrates for Cancer Treatment

Hadas Reuveni^{1,2,3}, Eyal Fashen-Abraham¹, Ilia Shalev^{1,2}, Kiril Molekotski^{1,2}, Renduo Song¹, Avner Shai¹, Moshe Hershkov¹, Menashe Bar-Eli¹, and Alexander Levitzi^{1,2}



**Michael
Cox**

Published Online First September 26, 2014; DOI: 10.1158/1535-7183.MCT-13-0842

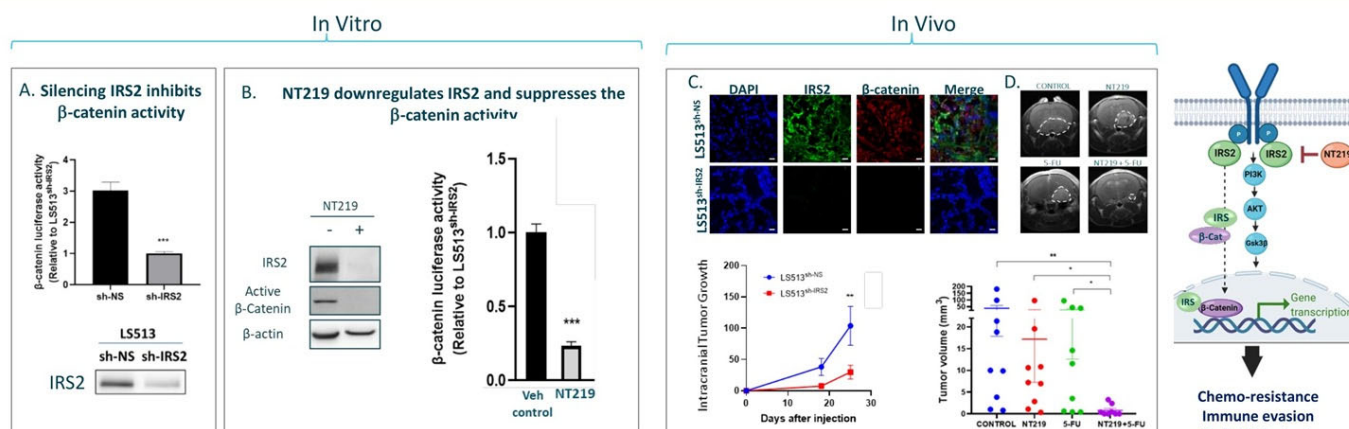
Small Molecule Therapeutics

The Tyrosinase NT157 Suppresses Insulin Receptor Substrates and Augments Therapeutic Response of Prostate Cancer

Nakatsu Baki^{1,2}, Muzir Gaffar^{1,3}, Hadas Reuveni^{1,4}, Mitul Pandey¹, Lucien Fadi¹, Haruhito Asano¹, Martin E. Gleave^{1,5}, Alexander Levitzi¹, and Michael E. Cox^{1,6}



NT219 inhibits the IRS to β -Catenin pathway and synergizes with 5FU to suppress CRC tumor growth in mouse brain



Colon cancer LS-513 cells overexpressing IRS2 demonstrate enhanced β -catenin activity.

Targeted inhibition of IRS2 by NT219 or IRS2-shRNA, suppresses the increased β -catenin activity, overcomes chemo-resistance, and inhibits LS-513 cell viability and tumor growth in intracranial model.



AACR Annual Meeting, April 2021, AACR Virtual Special Conference on Epigenetics and Metabolism, Oct 2020, Ido Wolf, MD, Head of Oncology Division, Tel Aviv Sourasky Medical Center

Market Opportunity

Recurrent or Metastatic Squamous Cell Carcinoma of Head and Neck (R/M SCCHN)



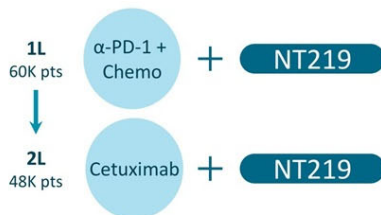
Targeting the unmet medical need

- SCCHN is the 6th most common cancer type
- 175k new cases/year are expected by 2024

- 1L standard of care has shifted from chemotherapy towards immuno-oncology + chemotherapy
- EGFR and PD(L)-1 are the only clinically validated targets in SCCHN
 - < 15% of R/M SCCHN patients respond to cetuximab in 2L
 - < 20% of R/M SCCHN patients respond to Pembrolizumab in 1L
 - New compounds currently in P3 1L

Rationale for combining cetuximab or pembrolizumab + NT219

- STAT3 and IRS-to-AKT/ β catenin pathways, are known to be involved in cancer stem cell renewal, immune evasion, metastasis and highly involved in drug resistance to α PD1 and cetuximab



Market size
forecasted
to >\$5b in
2030



Global Data Epidemiology and Market Size for 8MM, accessed March 2025.