

## 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. 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 and CM24; the process by which early stage therapeutic candidates such as NT219 and CM24 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 lack of sufficient funding to finance the 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 attained 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, and other factors that are discussed in our in our Annual Report on Form 20-F for the year ended December 31, 2020 and in our other filings with the U.S. Securities and Exchange Commission (the "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 presentation 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, http://www.sec.gov.



## **Business Highlights**

CM24 - First-in-class  $\alpha$ -CEACAM1 mAb, validating clinical collaboration with Bristol Myers Squibb

NT219 - First-in-class, small molecule, dual inhibitor of IRS 1/2 and STAT3

**H2:21 - Two phase 1 study readouts** 

# Strong balance sheet and cash position

Purple Biotech (NASDAQ/TASE: PPBT)

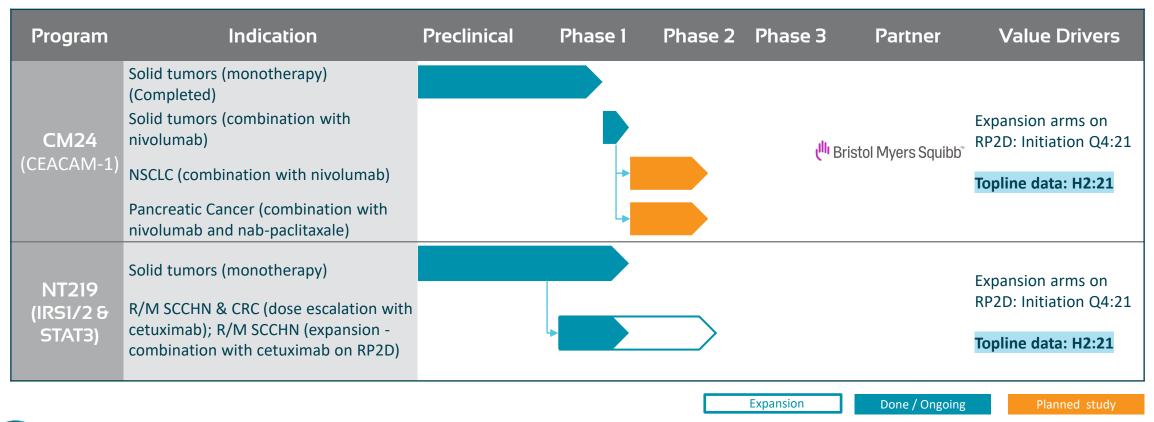
ADSs outstanding: 17.5M

\$53M cash as of June 30st, 2021

Cash runway into 2024



# Advancing Clinical-stage Novel Oncology Therapies





# **Experienced Leadership**













Isaac Israel
Chief Executive Officer
Former CEO of BeeContact Ltd.
(TASE:BCNT). NextGen Biomed
(TASE: NXGN)



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



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



Hadas Reuveni, Ph.D Vice President, R&D Formerly at Keryx (NASDAQ:KERX)



Bertrand Liang, MD, Ph.D, MBA/AMP, FAAN Chief Medical Officer Formerly at Biogen Idec, Amgen, NCI



Michael Schickler, Ph.D
Head of Clinical & Regulatory Affairs
Formerly at Hoffmann-La Roche, CEO at
CureTech





# Advancing First-in-Class Oncology Therapies

CM24 - an α-CEACAM1 mAb

## CEACAM1\* Plays a Key Role in Cancer Biology

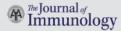
#### **01** | ADHESION

#### Horst, 2011

#### Oncogene

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

#### Ferri, 2020



"Neutrophil extracellular trapassociated 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



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

#### O3 | IMMUNO-ONCOLOGY

Blumberg, 2015

#### nature

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

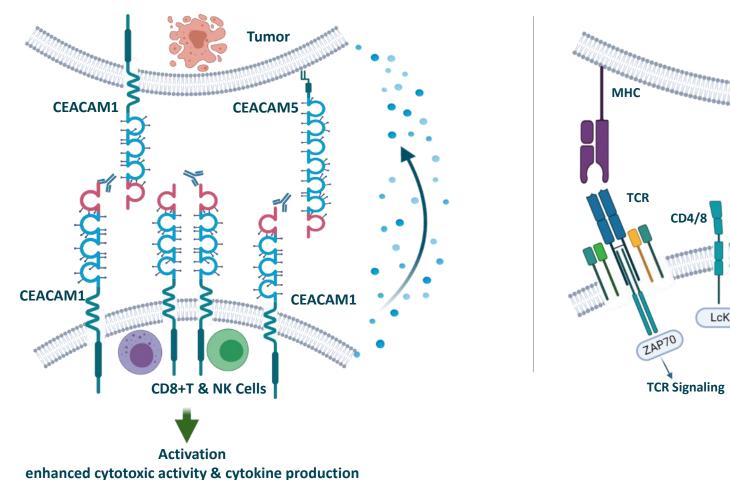
#### Shively, 2013

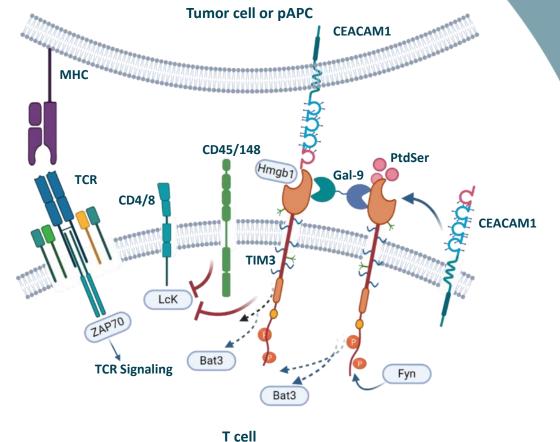


"CEACAM1 regulates Fas-mediated apoptosis in Jurkat T-cells via its interaction with β-catenin"



## CM24 MOA | Immuno-oncology

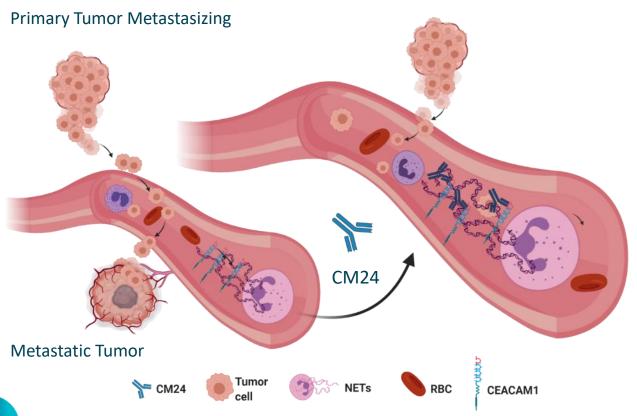


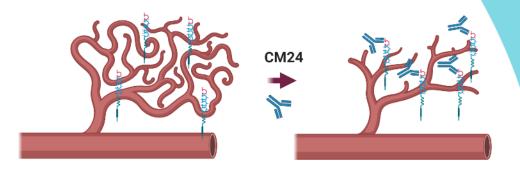




## CM24 MOA | Adhesion

Neutrophil extracellular trap-associated CEACAM1 as a putative therapeutic target to prevent metastatic progression:





CEACAM1 creates a pro-angiogenic tumor microenvironment that supports tumor vessel maturation. CM24 is proposed to attenuate/block tumor growth and metastatic processes.

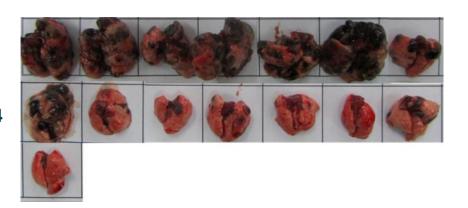


# Anti-cancer Effect Following Treatment Preclinical Data With CM24 + TIL and CM24 + α-PD1

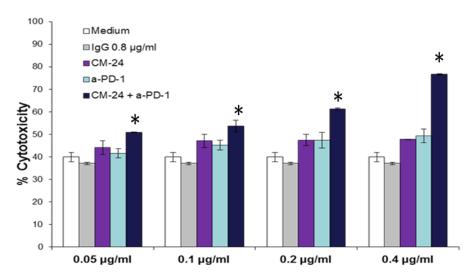
TIL + IgG

**TIL + CM24** 

Naïve



- Xenograft, lung lesion, Mel 526 (IV)
- Tumor burden was monitored 26 days post last CM24 treatment



**Combination index (CI) = 0.15** 

$$CI = \frac{(D)_1}{(D_x)_1} + \frac{(D)_2}{(D_x)_2} < 1 \Rightarrow synergy$$



## **CM24 Phase 1 Monotherapy Trial**

#### UCLA



- Open-label, multi-dose escalation monotherapy study to assess safety and tolerability
- Heavily pre-treated patients with a median of 4 prior regimens (range 2-8) Overall, treatment was well tolerated
- Most of the responding patients were treated with the highest dose levels of 3mg/kg & 10mg/kg
- PK analysis revealed non-linearity, modeling recommended to continue administration of higher doses to reach saturation

27 patients	•
Colorectal	11
Melanoma	7
Ovarian	4
Gastric	3
NSCLC	2
*24 patients evaluat	ted





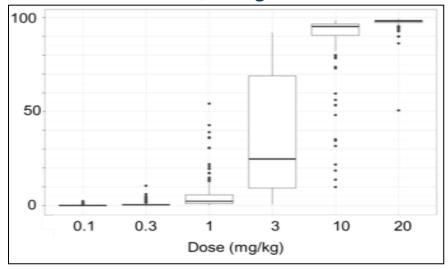


# pts

## PK/PD Modeling Provides Dosage & Schedule Guidance

- Consistent with observed PK showing high clearance at doses <10 mg/kg, plot shows low TMDD saturation at low doses
- 10 mg/kg has a broad range of saturation, and
   >10 mg/kg, Q2W dose is needed for saturation across population
- Nivolumab administered Q2W or Q4W, representing good clinical and commercial fit for CM24

# Simulated TMDD¹ saturation at Ctrough with Q2W regimen



Phase 1b/2a study will continue escalating the CM24 dose above 10mg/kg q2wk, in combination with nivolumab



## Large Market Opportunity in NSCLC & Pancreatic Cancer



- NSCLC accounts for ~200K new cases/year in the US; with a 5-year relative survival rate of 23%<sup>2</sup>
- Immunotherapy is now recommended as first line therapy in all patients with NSCLC and no driver mutations<sup>3</sup>
- 5-year overall survival rates with chemotherapy in 2L is 2.6% and with I/O Opdivo® is 13.4%<sup>4</sup>



- Pancreatic Cancer accounts for ~60K new cases/year in the US; with a 5-year relative survival rate of 10%<sup>2</sup>
- I/O approaches have been limited to patients with high microsatellite instability (MSI-H) or high tumor mutational burden (TMB-H)
- 5-year overall survival rates with chemotherapy in 2L is 3%<sup>2</sup>

# Combining nivolumab with CM24 in a clinical collaboration with



- CEACAM1 expression correlates with poor prognosis in NSCLC and Pancreatic cancer<sup>1</sup>
- Preclinical data support significant synergy
- Receptor saturation with CM24 is better achieved with a Q2W regimen, aligning with the nivolumab regimen



<sup>2</sup> American Cancer Society, Cancer Facts & Figures 2019, and the ACS website, https://seer.cancer.gov/statfacts/html/pancreas.html

<sup>3</sup> Economopoulou P, Mountzios G. The emerging treatment landscape of advanced non-small cell lung cancer. Ann Transl Med. 2018;6(8):138. doi:10.21037/atm.2017.11.07

## CM24 Phase 1/2 Combination Study Design (NCTO4731467)

# A Phase 1/2 open label multi center study of CM24 in combination with:

- Nivolumab in selected cancer indications (Phase 1) and NSCLC (Phase 2)
- Nivolumab and nab-paclitaxel in pancreatic cancer (Phase 2)

#### **Primary endpoints:**

Phase 1: Evaluate the safety, PK and the MTD/RP2 dose

Phase 2: Evaluate preliminary efficacy in 2nd line NSCLC and pancreatic cancer



Measurement of CEACAM1 based bio-marker.

**Exploring further studies in other** tumor types as well as monotherapy

2021

2022

2023-24

#### **Dose Escalation**

Doses: 10, 15, 20mg/kg q2wk + nivolumab (480mg q4w) 3+3 design  $9 \le n \le 15$ 

Indications: NSCLC, Pancreatic, Ovarian, CRC, Melanoma, Papillary Thyroid Carcinoma

#### **Expansions**

CM24 (@RP2 dose) + nivolumab (480mg) q4w I/O refractory NSCLC; 2<sup>nd</sup> line n=13+14 (Simon 2 Stage Design)

CM24 (@RP2 dose) + nivolumab (480mg) q4w + nab-paclitaxel Locally advanced, unresectable pancreatic cancer; 2<sup>nd</sup> line n=13+14 (Simon 2 Stage Design) Clinical collaboration with:

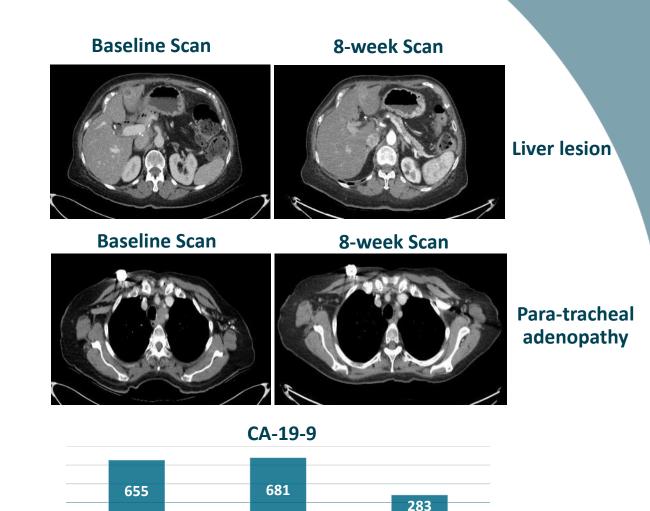
Bristol Myers Squibb



### 1<sup>st</sup> Cohort Analysis – SAFETY and RESPONSE

#### 10mg/kg Dose Level in combination with nivolumab

- The administration of CM24 at 10mg/kg q2wks in combination with nivolumab at 480mg q4wks was well tolerated with no SAEs in patients with refractory PDAC
- Three patients were enrolled into the first dose cohort, all with PDAC. Two patients progressed after 1.5 and 2 months of treatment
- The third patient, previously treated with FOLFIRINOX and gemcitabine/nab-paclitaxel, had a germline NF1 VUS, with MSI-S and PDL-1 IHC 2+ and 5% staining
- After initial treatment, the patient had a Partial Response of 40%, with a definite reduction of the para-tracheal adenopathy and liver lesions and 56% reduction in CA19-9 levels



FIRST VISIT -

PREDOSE

2 MONTH VISIT -

**PREDOSE** 

SCREENING





# Advancing First-in-Class Oncology Therapies

NT219 – A Small Molecule Dual Inhibitor of IRS 1/2 and STAT3

#### NT219 - Dual Inhibitor of IRS1/2 & STAT3

#### **IRS1/2**

- Scaffold proteins, mediating mitogenic, metastatic, angiogenic and antiapoptotic signals from IGF1R, IR, IL4R and other oncogenes, overexpressed in multiple tumor types
- Regulates major survival pathways such as the PI3K/AKT, MEK/ERK and WNT/β-catenin
- Activated as a feedback response to anti-cancer therapies



#### STAT3

- Well-established transcription factor associated with the tumorigenic phenotype
- Provides a crucial axis to support cell proliferation and survival
- Active in tumor JAK/STAT3 and TGF-β resistance mechanisms



Hadas Reuveni et al.; Cancer Res 2013;73:4383-4394. 2013 , Machado-Neto, et al. Clinics (Sao Paulo, Brazil) vol. 73,suppl 1 e566s. 11 Oct. 2018, doi:10.6061/clinics/2018/e566s

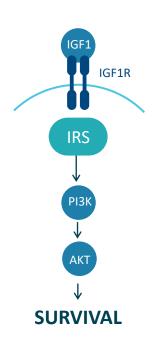
Naokazu Ibuki1,2, Mazyar Ghaffari1,3, Hadas Reuveni4 et al. DOI: 10.1158/1535-7163.MCT-13-0842 Published December 2014; Rampias T, Favicchio R, Stebbing J, Giamas G. 2016 May 19;35(20):2562-4. doi: 10.1038/onc.2015.392. Epub 2015 Oct 19.

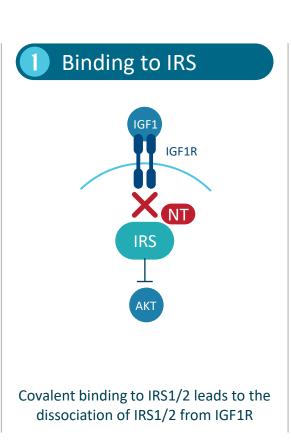
PMID: 26477311

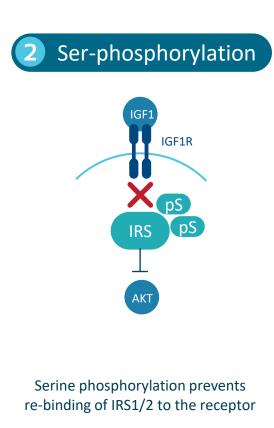
<sup>5</sup>Flashner-Abramsonet al.. Oncogene. 2016 May 19;35(20):2675-80. doi: 10.1038/onc.2015.229. Epub 2015 Jun 29. PMID: 26119932, <sup>6</sup>Sanchez-Lopez E,. Oncogene. 2016 May 19;35(20):2634-44. doi: 10.1038/onc.2015.326. Epub 2015 Sep 14. PMID: 26364612: PMCID: PMC4791217.

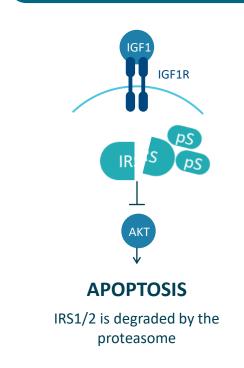
<sup>7</sup>Zhao C, et al. Trends Pharmacol Sci. 2016 Jan;37(1):47-61. doi: 10.1016/j.tips.2015.10.001. Epub 2015 Nov 12. PMID: 26576830, <sup>8</sup> Johnson, Daniel E et al. "Targeting the IL-6/JAK/STAT3 signaling axis in cancer." Nature reviews. Clinical oncology vol. 15,4 (2018): 234-248. doi:10.1038/nrclinonc.2018.8

# Novel MOA: IRS Degradation By NT219 Blocking IGF1R-AKT Pathway<sup>1</sup>









Degradation



# NT219 Efficacy as Monotherapy



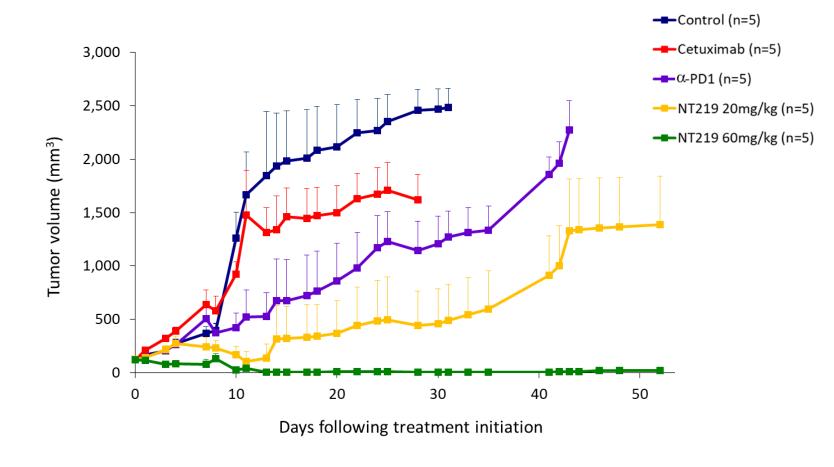
#### **Animal model**

Head & Neck Cancer (SCC-9) NSG<sup>™</sup>, PBMCs-injected<sup>1</sup>



#### **Drugs**

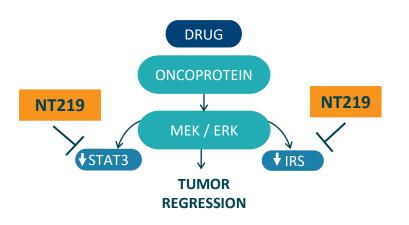
α-PD1 Cetuximab (Erbitux®) NT219 20mg/kg NT219 60mg/kg



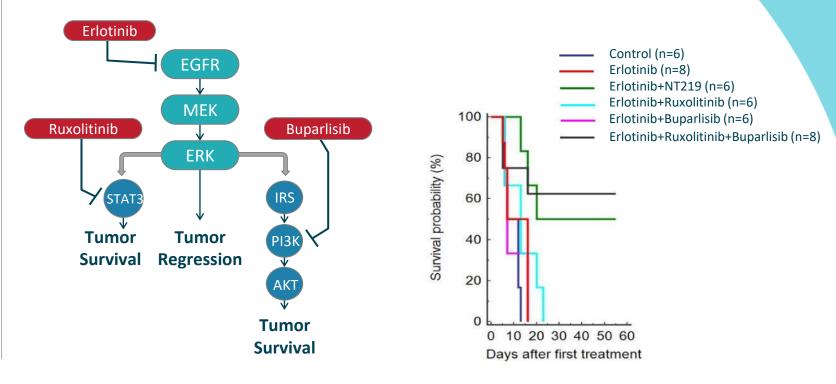


# STAT3 and IRS are Essential in Therapeutic Resistance

#### **Blocking survival pathways**



#### **Proof of Concept: PDX model of Head and Neck Cancer**





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

# NT219 + Targeted Therapies Established Efficacy in PDX Models



#### **NSCLC**

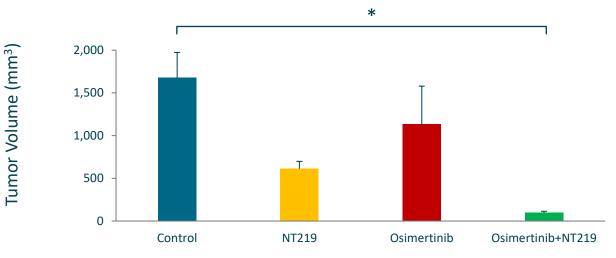
Exon 19 deletion EGFR and T790M, biopsy of bone marrow metastasis, patient previously progressed on afatinib and osimertinib



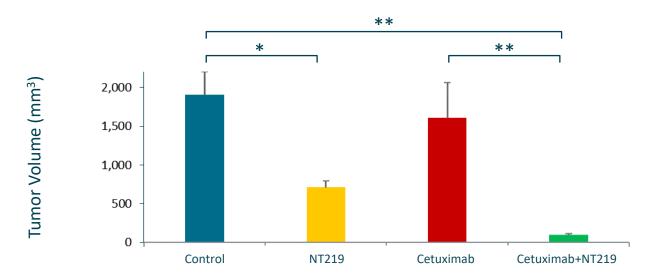
#### **R/M SCCHN**

metastasis, patient previously progressed on chemoradiation, several chemotherapies, and pembrolizumab





Osimertinib 5 mg/kg, NT219 65 mg/kg, mean tumor volume at the end point, 3 mice/group;



Treatments on days 0, 3 and 10, cetuximab - 1mg/mouse, 3 mice/group; PBMCs (1.4M cells/mouse) were injected on day 621

<sup>\*\*</sup> p<0.01, \* p<0.02 based on one-way ANOVA with post hoc Tukey's HSD test

# NT219 + α-PD1 Re-sensitizes to Refractory α-PD1 Tumors



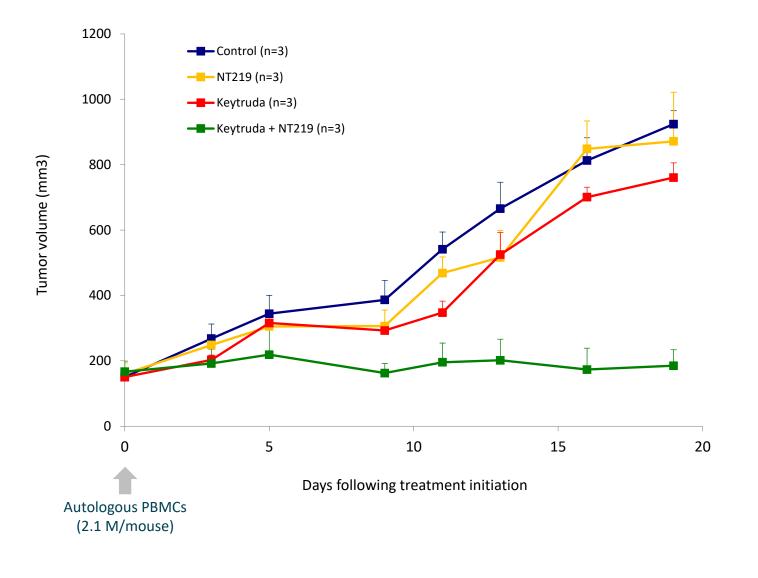
#### **PDX Model**

Humanized PDX of Esophagus Cancer (refractory to pembrolizumab)



#### Drug

Pembrolizumab (Keytruda®)





## First Market Opportunity

#### Recurrent or Metastatic Squamous Cell Carcinoma of Head and Neck (SCCHN)

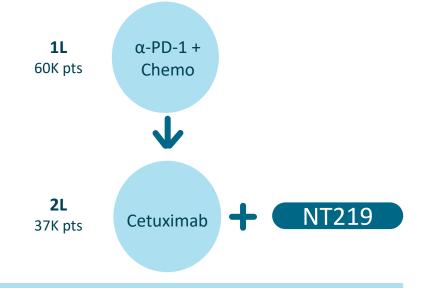


#### Targeting the unmet medical need

- 1L Standard of care has shifted from chemotherapy towards immunooncology + chemotherapy
- < 20% of R/M SCCHN patients respond to  $\alpha$ -PD1s
- 175k new cases/year are expected by 2024

#### **Rationale for combining Cetuximab + NT219**

- EGFR and PD(L)-1 are the only clinically validated targets in SCCHN
- < 15% of R/M SCCHN patients respond to Cetuximab</li>
- Cetuximab inhibits EGFR signaling and promotes ADCC in EGFR expressing tumors
- STAT3 and IRS-to-AKT activation contributes to resistance to cetuximab in SCCHN





NT219 + Cetuximab has the potential to become an attractive 2<sup>nd</sup> line therapy

# NT219 Monotherapy and Combination Phase 1/2 Study Design (NCT04474470)

#### Study title

A phase 1/2 study with open-label, dose escalation phase followed by single-arm expansion to assess the safety, tolerability, PK, PD and efficacy of NT219, alone in adults with recurrent or metastatic solid tumors and in combination with Erbitux® (cetuximab) in head and neck cancer

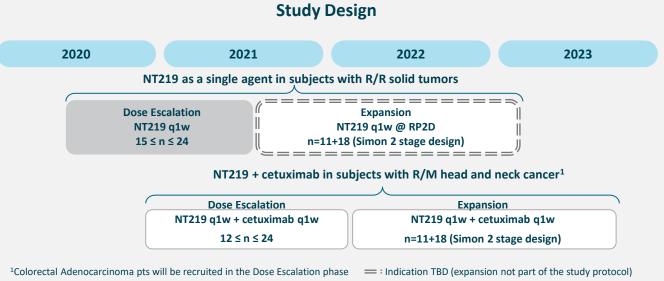
#### **Endpoints**

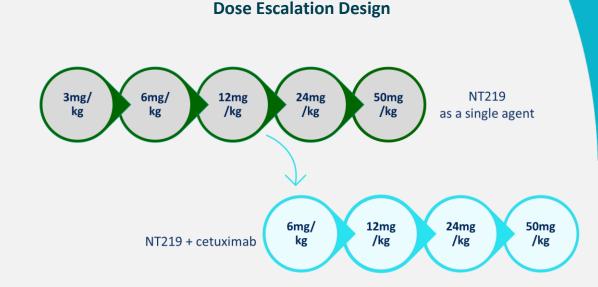
**Primary endpoints:** 

Safety, pharmacokinetics and to determine the MTD

**Secondary endpoints:** 

Obtain preliminary efficacy data







# Interim Analysis – SAFETY and RESPONSE 3 mg/kg Dose Level as a Single Agent

- NT219 has been found to be well-tolerated with minimal adverse events
- In a patient with refractory GE junction disease, NT219 administration was associated with a partial response (PR):
  - ✓ Complete remission at the largest target lesion and one non-target central mesenteric lymph node
  - ✓ Stable Disease at the other non-target lesion pre-carinal lymph node

#### **Response Analysis**

	Cancer Type	Prior Lines of Therapy	Treatment Duration(Weeks)	Best	Response*
	Pancreatic Cancer	3	8		PD
NT219 3mg/kg	GE Junction Cancer	4	22	PR	Target lesion: Absent  Non target lesion 1: Absent  Non target lesion 2: Stable
	Breast Cancer	11	8	PD	



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**H2:21 - Two phase 1 study readouts** 

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ADSs outstanding: 17.5M

\$53M cash as of June 30st, 2021

Cash runway into 2024



# We are committed

to providing cancer patients with first-in-class therapies to OVERCOME tumor drug resistance, ENHANCE treatment response and SLOW tumor progression







# **THANK YOU**

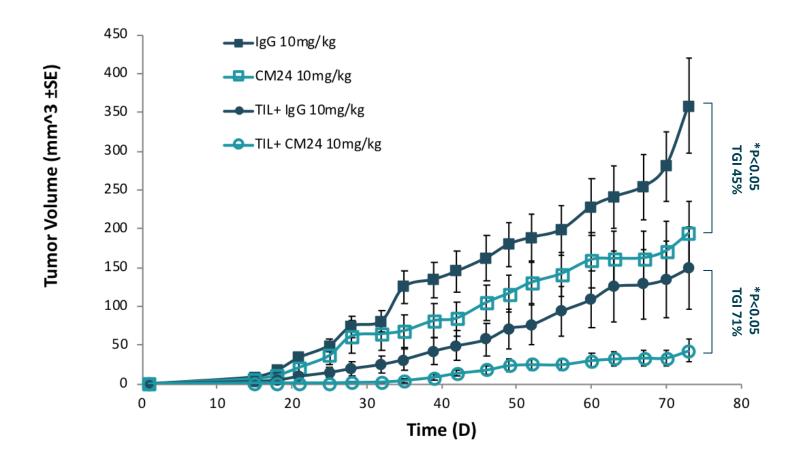




# Appendix A - CM24

# Inhibition of Melanoma Growth Following CM24 and CM24 + TIL Treatment

#### CM24 activity is Demonstrated as Single Agent and in Combination with TILS

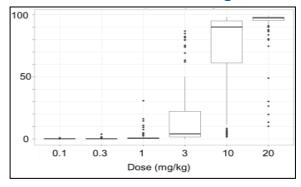




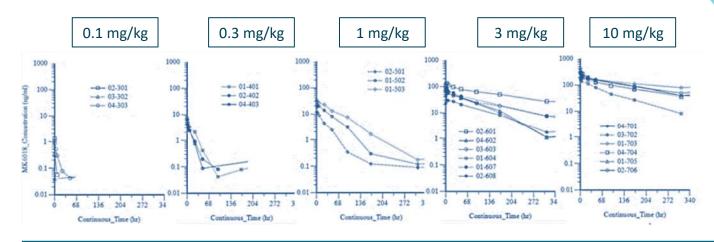
#### PHASE 1 PK DATA

#### Target saturation was not reached with doses up to 10mg/kg

#### **Predictions with Q3W regimen**



- Modeling with increased interval between doses demonstrates lower TMDD at 10mg/kg dose
- With Q3W, 20mg/kg dosing is not sufficient for saturation across population



Slower clearance with increasing dose

Higher half-life with increasing dose





Appendix B - NT219

## Selected Publications



**Michael** Karin



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

E Sanchez-Lopez<sup>1</sup>, E Flashner-Abramson<sup>2</sup>, S Shalapour<sup>1</sup>, Z Zhong<sup>1</sup>, K Taniguchi<sup>1,3</sup>, A Levitzki<sup>2</sup> and M Karin<sup>1</sup>



Oncogene (2016) 35, 2675-2680 © 2016 Macmillan Publishers Limited All rights reserved 0950-9232/16 www.nature.com/onc Targeting melanoma with NT157 by blocking Stat3 E Flashner-Abramson<sup>1</sup>, S Klein<sup>1</sup>, G Mullin<sup>1</sup>, E Shoshan<sup>2</sup>, R Song<sup>2</sup>, A Shir<sup>1</sup>, Y Langut<sup>1</sup>, M Bar-Eli<sup>2</sup>, H Reuveni<sup>1,3,4,5</sup> and A Levitzki<sup>1,4</sup>



Menashe Bar-Eli

Published OnlineFirst May 7, 2013; DOI: 10.1158/0008-5472.CAN-12-3385

Therapeutics, Targets, and Chemical Biology

Therapeutic Destruction of Insulin Receptor Substrates for **Cancer Treatment** 

Hadas Reuveni<sup>1,2\*#</sup>, Efrat Flashner-Abramson<sup>2\*</sup>, Lilach Steiner<sup>1,2</sup>, Kirill Makedonski<sup>1,2</sup>, Renduo Song<sup>3</sup>. Alexei Shir1, Meenhard Herlyn4, Menashe Bar-Eli3, and Alexander Levitzki2#



**Michael** Cox

Published OnlineFirst September 29, 2014; DOI: 10.1158/1535-7163.MCT-13-0842

The Tyrphostin NT157 Suppresses Insulin Receptor

SHORT COMMUNICATION

and IGF1R signaling

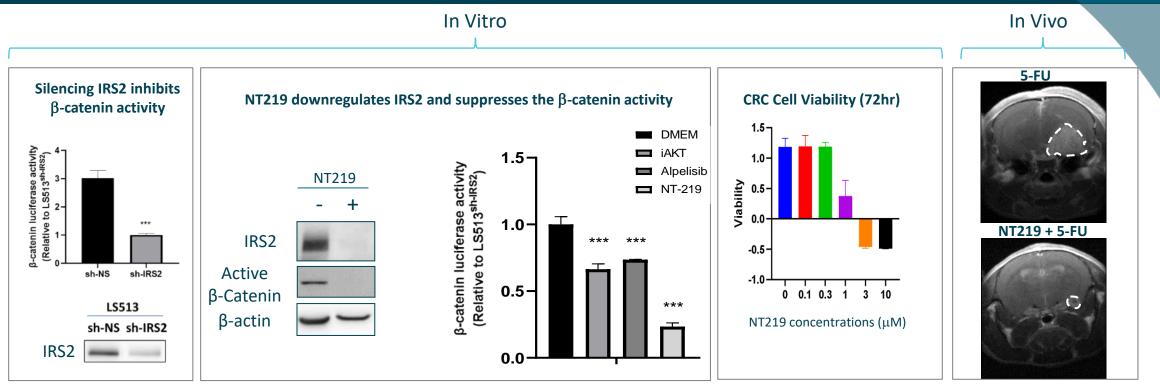
Small Molecule Therapeutics

Substrates and Augments Therapeutic Response of Prostate

Naokazu Ibuki<sup>1,2</sup>, Mazyar Ghaffari<sup>1,3</sup>, Hadas Reuveni<sup>4,5</sup>, Mitali Pandey<sup>1</sup>, Ladan Fazli<sup>1</sup>, Haruhito Azuma<sup>2</sup>, Martin E. Gleave 1,0, Alexander Levitzki5, and Michael E. Cox 1,0



# NT219 | Suppresses β-Catenin activity in CRC Cells and Inhibited CRC Brain Metastasis



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

PURPLE

Targeted inhibition of IRS2 by NT219 or IRS2-SH RNA, suppresses the increased  $\beta$ -catenin activity and inhibit LS-513 cell viability.

Combination of 5-FU and NT219 significantly inhibited the growth of CRC tumors in brain, using intracranial model and extended mice survival.

## NT219 | Pancreatic Cancer in Combination with Gemcitabine



PDX model

**Pancreatic Cancer** 

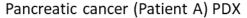


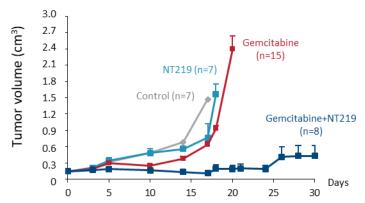
Drug

**Gemcitabine (Gemzar®)** 

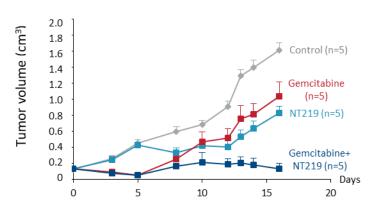


# Highly effective anti cancer activity exhibited by NT219 in combination with Gemcitabine

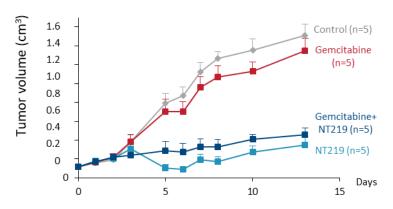




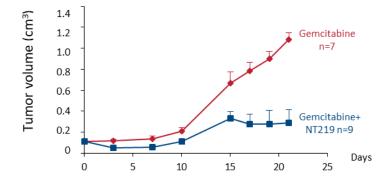
#### Pancreatic cancer (Patient B) PDX



#### Pancreatic cancer (Patient C) PDX



#### Pancreatic cancer (Patient D) PDX



## RNA Sequencing | Analysis of Tumors Following Treatment



PDX model

**Pancreatic Cancer** 

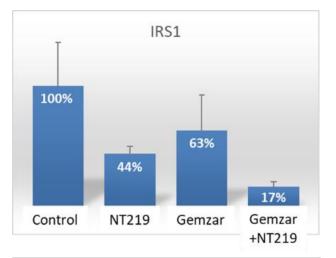


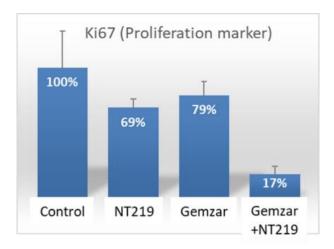
Drug

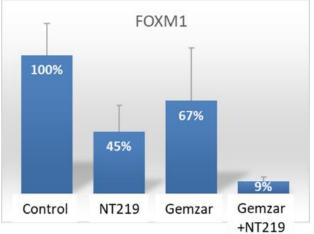
**Gemcitabine (Gemzar®)** 

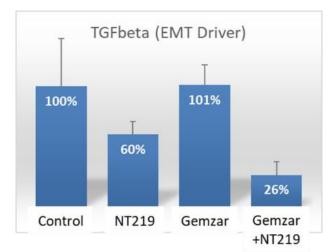


Reduced expression of IRS1, Ki67, FOXM1 & TGFb is exhibited by pancreatic cancer treated with NT219 alone and in combination with gemcitabine









# NT219 – DEMOGRAPHICS & SAFETY 3 mg/kg Dose Level as a Single Agent

#### **Patients Demographics**

Demographics of Patients trea	ted with NT219 3mg/kg (n=3)
Median age (range)	74 (69-79)
Male/Female, n (%)	2(66.6%)/1(33.3%)
Race	
White n (%)	3 (100%)
Prior Lines of Therapy	
3 n (%)	1 (33.3%)
4, n (%)	1 (33.3%)
11, n (%)	1 (33.3%)
Diagnosis, n	
Pancreatic Cancer	1
Gastroesophage	al <sup>1</sup>
Junction Cancer	
Breast Cancer	1
ECOG, n (%)	
1	3 (100%)
Median time from initial Diagnosis	62 (22-90)
Months (range)	

#### **Summary of Adverse Events**

Adverse Event Description	Grade 1 n (#Events)	Grade 2 n (#Events)	Grade 3 n (#Events)
Abdominal Pain	1(2)	1(1)	
Alanine	1(1)		
Aminotransferase			
Increased			
Alkaline Phosphatase			1(1)*
Increased			
Aspartate	1(1)		
Aminotransferase			
Increased			
Back Pain		1(1)	
Belching	2(2)		
Cellulitis Left Foot		1(1)	
Dyspnea	2(2)		
Fatigue	1(1)		
Nausea	1(1)	1(1)	
Rash Pustular		1(1)	
Retching	1(2)		
Toxic			1(1)**
Encephalopathy			

<sup>\*</sup>Transient- G2 after 2 weeks, \*\*Transient- less than 24h

