



We want to save patients with severe cancer and autoimmune diseases  
*Clinical investigations with our lead antibody CAN04 to our proprietary target*

Göran Forsberg, CEO

# Safe Harbour Statement

The following presentation may include predictions, estimates or other information that might be considered forward-looking. The statements regarding the surrounding world and future circumstances in this presentation reflect Cantargia's current thinking with respect to future events and financial performance. Prospective statements only express the assessments and assumptions the company makes at the time of the presentation. These statements are well-considered, but the audience should note that, as with all prospective assessments, they are associated with risks and uncertainties.

# Agenda

Cantargia introduction

Göran Forsberg

CANFOUR results

Christer Svedman

CANFOUR clinical trial

Lars Thorsson

Combination therapies

David Liberg

Summary

Göran Forsberg

# CAN04 phase I clinical data at ESMO

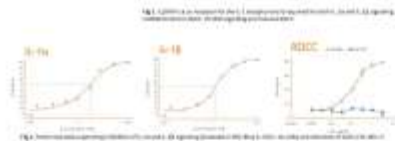
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**A first-in-class, first-in-human phase I/IIa trial of CAN04, targeting Interleukin-1 Receptor Accessory Protein (IL1RAP), in patients with solid tumors**

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## BACKGROUND

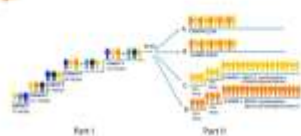
information has been an important part of the development of Harvey's research. [10,11] A major focus of Harvey's laboratory is the cyclin D1 gene and there is a robust body of evidence suggesting that it is a signaling molecule in cancer progression. The relevance of targeting D1 has recently been highlighted by an epidemiologic analysis of the CALGB-5501 study, where patients treated with tamoxifen in the tamoxifen dose arm had a significantly reduced risk of death compared to patients in the placebo arm. This finding was associated with a significant increase in cyclin D1 expression in the tamoxifen arm [12]. In a retrospective analysis of the CALGB-5501 study, it was found that patients with a cyclin D1 expression level of 10 or greater had a significantly higher risk of death compared to patients with a cyclin D1 expression level of 9 or less [13]. This finding suggests that cyclin D1 expression is a prognostic factor in breast cancer and that targeting D1 may be a promising therapeutic strategy.



## METHODS

The primary objective was to assess safety (CTCAE v4.03) and tolerability of weekly administration of CBM6 in order to define the Maximum Tolerated Dose (Maximum Tolerated Phase 2 Dose). Patients also responded to whether non-malignant cell lines using genetically stable adenovectors, insert (IMC) or cytotoxic (CIC) cancer were included in the field plot of the trial using a 2x2 dose escalation design. The eligibility criteria were: ADIC, all, medical group, and no bleeding disorder or thrombopathy. Lower responses were evaluated according to WHO grade 4 events. Serum samples were obtained by phenol-chloroform extraction and for assessment of (cytotoxicity) markers of relevance for the mechanism of action (e.g. IL-6, IL-12).

### Sturdy design



### Patient population

Many researchers in the area

4. **Agree/Disagree** (to respond to research report) Response (1=strongly agree/5=strongly disagree)  
 1. I agree, because the 2 studies go in opposite directions.  
 2. I don't agree with the idea that the study of chondrocytes indicates that any osteoporosis, as opposed to bone density, is due to the loss of bone mass.  
 3. I don't agree with the idea that the study of chondrocytes indicates that any osteoporosis, as opposed to bone density, is due to the loss of bone mass.  
 4. I don't agree with the idea that the study of chondrocytes indicates that any osteoporosis, as opposed to bone density, is due to the loss of bone mass.  
 5. I don't agree with the idea that the study of chondrocytes indicates that any osteoporosis, as opposed to bone density, is due to the loss of bone mass.

### Many small businesses go bankrupt

- Subjects receiving no other psychological agents during or just prior to pattern 20 days of their study (they administered participants in this study)
- Subjected to one of six other social conditioning agents
- Assigned to one of three reward (CR) levels
- Received either a positive or a negative stimulus defined as their first four associations (Conditioned stimulus) or as 20
- Stimulus-response associations subject to weekly reinforcement systems that are
- Stimulus-response (condition) that is the subject of the experiment (Conditioned stimulus) or as 20

## RESULTS

### Patient population

Fig. 1. Mean  $\log_{10}$  of the positive population in a community (Table 1). Different symbols represent different methods of counts taken by groups that have taken samples 1 to 4 mg/kg. Numbers represent number of positive results in a sample of 5. Source: Bureau of Statistics (range 5: 111).

[illegible]

Sahara

LDH5 has previously been used to estimate  $\beta$  (Table 2, Fig. 2). The main concern is that LDH5 values are not the same for all patients and also that LDH5 values are not the same for the different markers in the same patient and repeating blood tests. In fact, it is noted that the rate of LDH5, a polymorphic enzyme, is genetically inherited and associated with ethnic background and geographic location of patients; these have been estimated for the first time. A single patient population was used as reference (see Table 2) and LDH5 values, therefore, are relative and not absolute. LDH5 values from one centre differ, as does finding using a commercial, semi-automated kit that was standardised to the 1/2 population of 1 kg/kg. LDH5 is also possibly lower in patients at 2 kg/kg. It is important that this is taken into account (see Table 2) and not used as a reference.

[illegible]

**Table 1** Study outcome assessment methodology

Demographic information was provided by staff. The sample size reflects the number of eligible respondents, with only one of the 1000 eligible female study members in a hospital, not covered and therefore left in the analysis. Missing information on individual respondents is denoted as NA.

Results in this paper are not always based on the entire sample. Some variables were unavailable in certain cases. In order to maximize statistical power, individuals with missing data were excluded from the analysis.

Source: Authors' calculations on a dataset from the study.

|                     | 2009<br>January | 2009<br>February |
|---------------------|-----------------|------------------|
| Accountant's salary | 1,000           | 1,000            |
| Depreciation        | 1,000           | 1,000            |
| Interest            | 1,000           | 1,000            |
| Insurance           | 1,000           | 1,000            |
| Utilities           | 1,000           | 1,000            |
| Advertising         | 1,000           | 1,000            |
| Transportation      | 1,000           | 1,000            |
| Telephone           | 1,000           | 1,000            |

### References

to enhance corporate actions with the perfection of the end of the study, firms' values of a select set of practices (if adequate in result proved) increases versus inactive in 0.4 to 11 of 14 (91% only), among firms 10-430 and a decrease in 130 to 9 of 11, among 10-100, after revision of 1000, consistent with the 1000 study of action and supporting target engagement.

### Clinical efficacy data

Of the patients that had received at least one CT scan up to 2008, 17 patients had available pre- and post-treatment scans with 14 imaging at the time of MALT Lymphoma (81%). Four of patients (88%) had evidence of CR by PET at 3 months follow up. MALT (3), IM (4), and PMN (1). Eight of patients had progression (disseminated) (one patient had MALT that spread to axilla).

## Pharmacokinetics

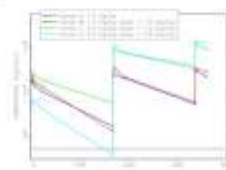


Fig. 8 The average profiles of  $\alpha$  and  $\beta$  in the  $xy$  plane showing their ellipticity (represented by the thickness of the elliptical regions) and their dependence with increasing level of filling. The innermost curve denotes the elliptical cross-sections of the  $\alpha$  parameter.

## CONCLUSIONS

- [illegible]

### References

10. Housheer/Post et al. *Cell* 1999
11. Housheer et al. *Neuroscience* 1999
12. Housheer/Post et al. *Neuroscience* 1999
13. Housheer et al. *Neuroscience* 1999
14. Housheer et al. *Neuroscience* 1999
15. Housheer et al. *Neuroscience* 1999
16. Housheer et al. *Neuroscience* 1999
17. Housheer et al. *Neuroscience* 1999
18. Housheer et al. *Neuroscience* 1999
19. Housheer et al. *Neuroscience* 1999
20. Housheer et al. *Neuroscience* 1999

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On behalf of the study team, the authors respectfully request that you kindly be their representative at this meeting.



- CAN04 has generally been well tolerated
- 6 mg/kg is safe.
- Encouraging biomarker results already after two doses of CAN04.
- In a heavily pre-treated patient population, 5 of 13 patients (38%) had SD. One patient with NSCLC had SD for 6 months.

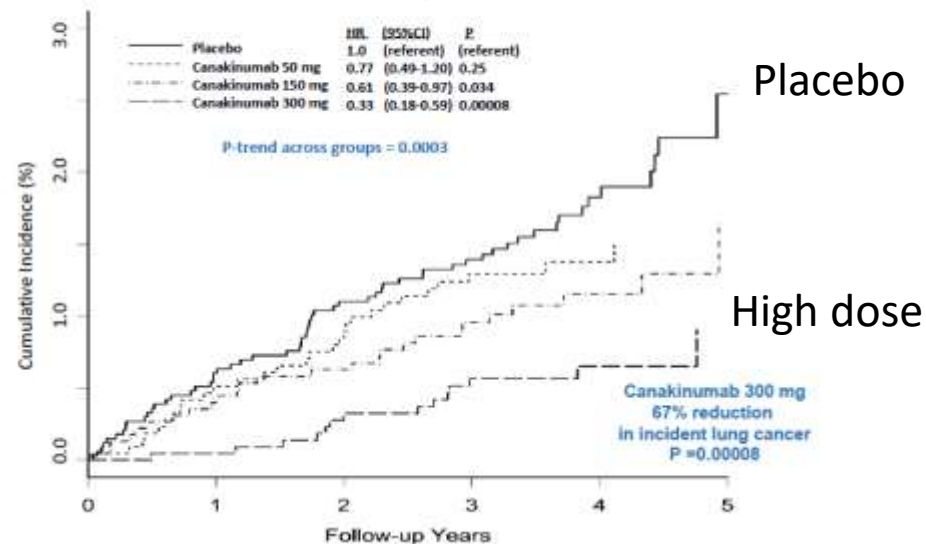
# IL-1 blockade in cancer- Recent supportive clinical data

## CANTOS trial

- Canakinumab (Novartis)
- Reduced lung cancer incidence by 67 % and death by 77 %.

### CANTOS: Additional Non-Cardiovascular Clinical Benefits

#### Incident Lung Cancer



- Clinical validation of IL-1 pathway
- Cantargia's CAN04 has broader MOA

## Canakinumab phase 3 trials

### Adjuvant NSCLC

After surgery, no mets, placebo control  
1500 patients, recruitment ongoing  
Completion 2021/22

### First line (CANOPY-1)

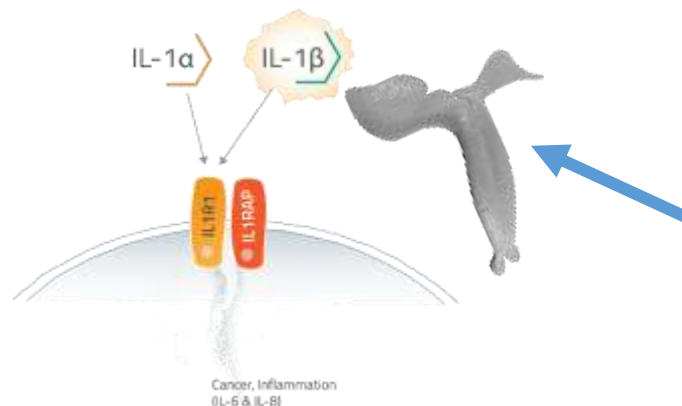
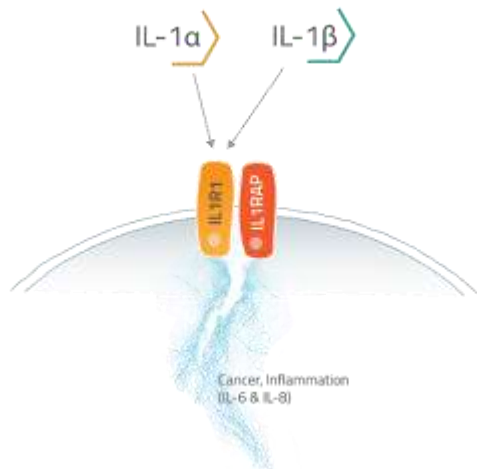
Untreated locally advanced/metastatic  
Combination Pembro/Platinum doublet  
627 patients, start Dec 2018  
Completion 2021/22

### Second line metastatic (CANOPY-2)

Previously treated loc adv/metastatic  
Combination Docetaxel  
240 patients, start Dec 2018  
Completion 2021

Source [clinicaltrials.gov](https://clinicaltrials.gov)

# CAN04 (nidanilimab) vs Canakinumab

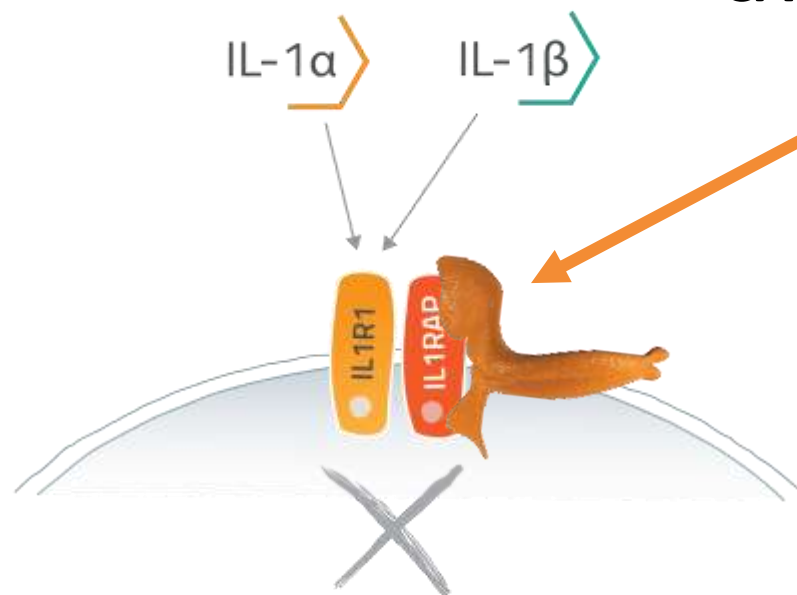


## Canakinumab

- Antibody directed against one of the two IL-1 ligands, IL-1β

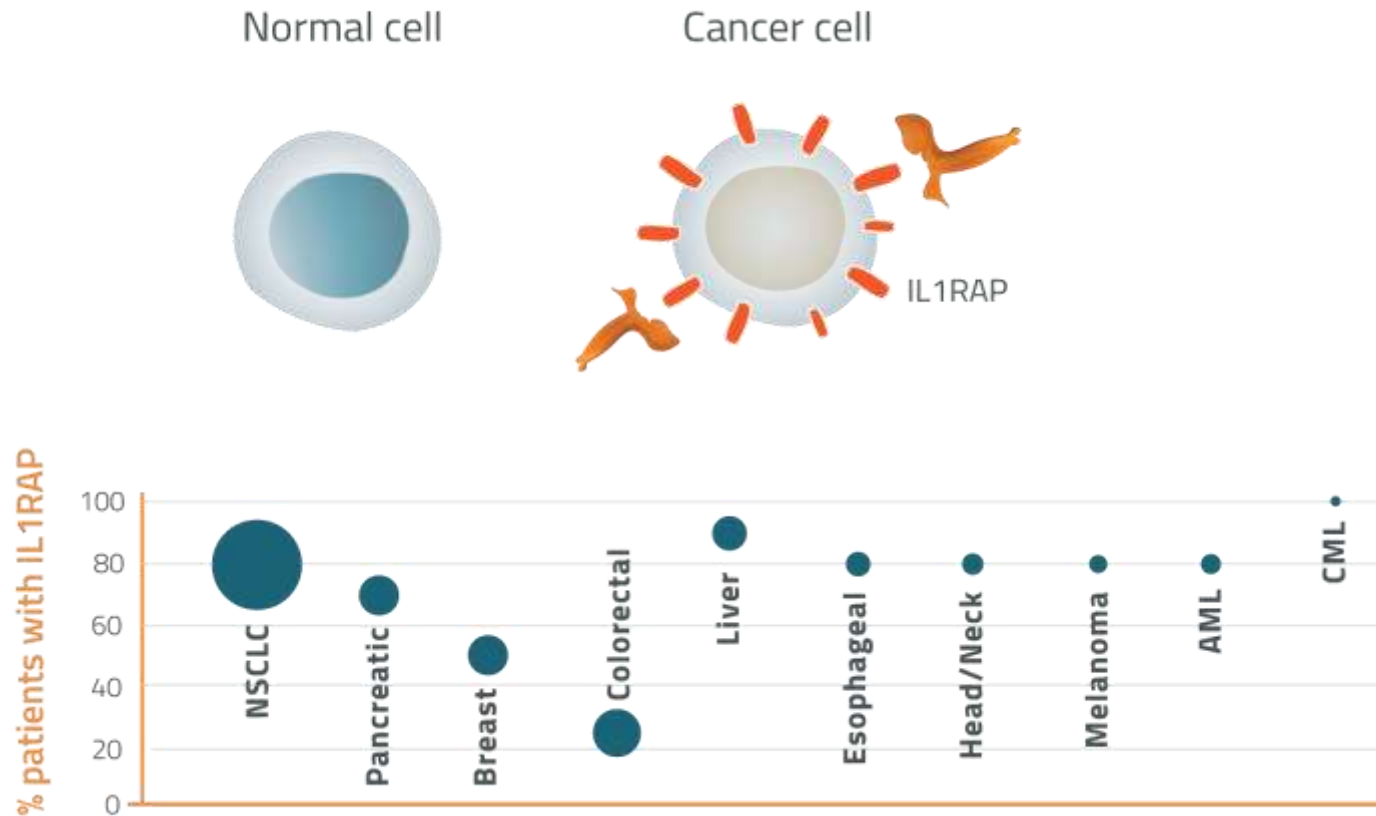
## CAN04:

- Binds the common signaling receptor and counteracts both ligands
- Induce killing via the immune system (ADCC)





# Medical need and IL1RAP



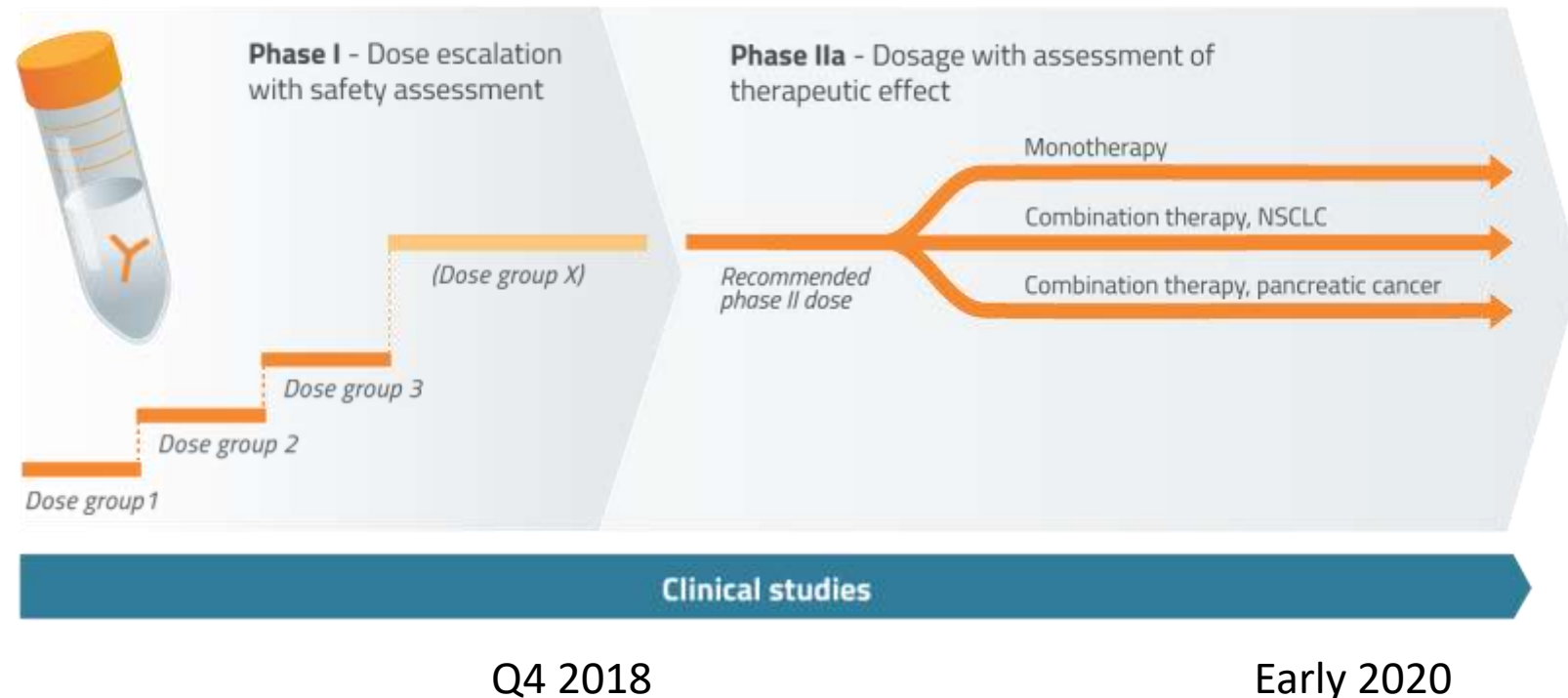
Size of each indication corresponds to annual deaths in USA

- Cantargia founded based on:
  - Discovery of IL1RAP on cancer cells
  - Antibodies against IL1RAP - antitumor effects
  - Patents on antibody therapy against IL1RAP
- Primary indications. NSCLC and pancreatic cancer
- Biomarker studies ongoing, identify patients most likely to respond
- Opportunity to expand development in additional cancer forms

# CAN04 – CANFOUR clinical trial

## Phase I/IIa trial - NSCLC and pancreatic cancer

- Norway, Denmark, Netherlands and Belgium
- Well renowned centres (Jules Bordet, Brussels; Erasmus Rotterdam, NKI, Amsterdam; Rigshospitalet, Copenhagen; Radiumhospitalet, Oslo)
- 16 patients treated, good safety
  - NSCLC, pancreatic cancer, colon cancer, triple negative breast cancer
- Phase IIa: focused on NSCLC and pancreatic cancer (appr 20 centres)
  - Monotherapy
  - Combination with standard therapy
    - NSCLC Cisplatin/Gemcitabine
    - Pancreatic cancer Gemcitabine/nab-paclitaxel



Details on [www.clinicaltrials.gov](http://www.clinicaltrials.gov)



# Cantargia at a glance

- Specialized in antibody therapy/immunology, with initial focus on oncology
- Granted IP - therapeutic target IL1RAP and drug candidate
- Lead antibody CAN04 (nidanilimab) in clinical development
- Strong management team with proven track record in clinical development and business development
- Listed on Nasdaq Stockholm
- Approximately 5000 shareholders
- Based in Lund, Sweden

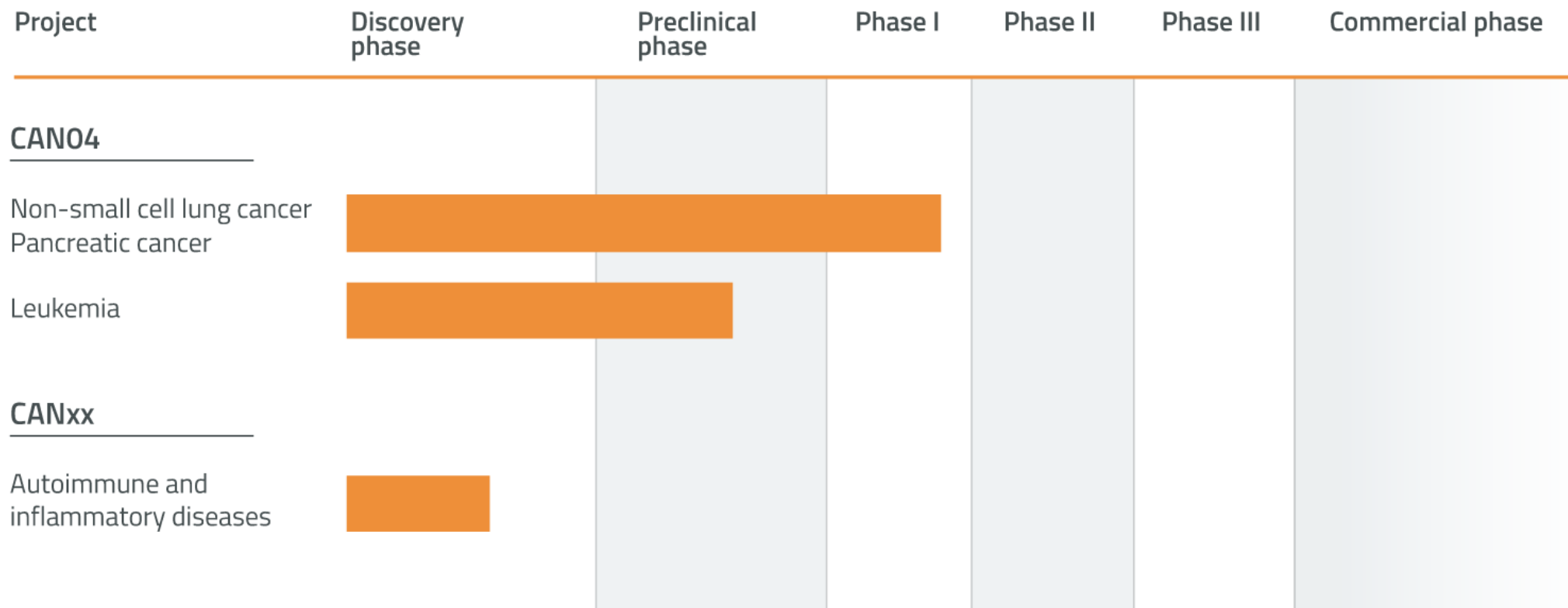
## Financial highlights

- Share price: 19.90 SEK (2.22 USD), Oct 22, 2018
- Market cap: 1317 MSEK (147 MUSD), Oct 22, 2018
- Cash: 213 MSEK (23.3 MUSD), Jun 30 2018

## Current owners (Sep 30, 2018)

|                  |       |
|------------------|-------|
| Sunstone         | 9.0%  |
| 1st AP fund      | 6.9%  |
| Avanza Pension   | 5.2%  |
| 4th AP fund      | 4.6%  |
| 2nd AP fund      | 3.3%  |
| Öhman Bank S.A.  | 3.3%  |
| SEB S.A. clients | 3.2%  |
| Mats Invest AB   | 2.0%  |
| Tibia konsult    | 1.9%  |
| Kudu AB          | 1.9 % |
| Others           | 58.6% |

# Cantargia pipeline







CANFOUR

# CANFOUR – ESMO poster

## A first-in-class, first-in-human phase I/IIa trial of CAN04, targeting Interleukin-1 Receptor Accessory Protein (IL1RAP), in patients with solid tumors

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### BACKGROUND

Inflammation has been acknowledged as an important part of the development of tumors<sup>1</sup>. Interleukin-1 (IL-1) is a major "alarm" inflammatory cytokine upstream in the cytokine cascade and there is a robust body of evidence supporting that IL-1 signaling is involved in cancer progression<sup>2</sup>. The relevance of targeting IL-1 has recently been highlighted by an exploratory analysis of the CANTOS study where patients treated with canakinumab in the highest dose arm had a significantly reduced incidence of lung cancer (HR 0.33, p=0.0001) and lung cancer specific mortality (HR 0.23, p=0.0001)<sup>3</sup>. Interleukin-1 receptor accessory protein (IL1RAP) is a co-receptor of the IL-1 receptor (IL1RI) and is involved for IL-1 signaling (Fig. 1). IL1RAP is expressed in multiple hematological and solid tumor indications. Non-small cell lung cancer (NSCLC) and pancreatic cancer (PDAC) represent key indications due to high expression of IL1RAP (NSCLC: 80% and PDAC: 70%), high current medical need and evidence supporting that IL-1 signaling is of relevance in these indications, not least as a resistance mechanism to chemotherapy<sup>4,5</sup>. CAN04 is a fully humanized antibody directed against IL1RAP that is pre-clinical models potently inhibits IL-1α and IL-1β and also triggers antibody dependent cytotoxicity (ADCC) (Fig. 2). The current ongoing CANFOUR phase I/IIa study (NCT03267228) is designed to assess safety/tolerability of CAN04.

Fig. 1. IL1RAP is a co-receptor for the IL-1 receptor and is required for both IL-1α and IL-1β signaling. (CAN04 binds to IL1RAP, inhibiting both IL-1α and IL-1β signaling).

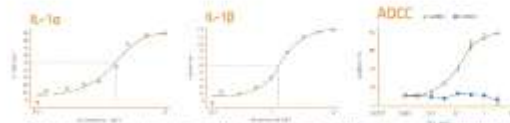
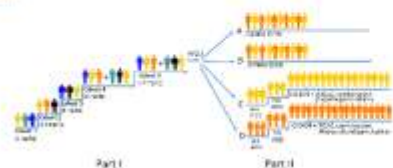


Fig. 2. Pre-clinical data showing inhibition of IL-1α and IL-1β signaling (measured in ADCC) and ADCC (measured in ADCC) in various cell lines.

### METHODS

The primary objective was to assess safety (CTCAE v4.03) and tolerability of weekly administration of CAN04 in order to define the Maximum Tolerated Dose (MTD)/Recommended Phase 2 Dose (RP2D). Patients with relapsed or refractory non-small cell lung cancer, pancreatic ductal adenocarcinoma, breast (TNBC) or colorectal (CRC) cancer were included in the initial part of the trial using a 3+1 dose escalation design. Key eligibility criteria were ECOG 0-1, normal organ function and no bleeding disorder or coagulopathy. Tumor responses were evaluated according to RECIST v1.1. Serum samples were obtained for pharmacokinetic evaluation and for assessment of circulating biomarkers of relevance for the mechanism of action (e.g. IL-6, CRP).

### Study design



### Patient population

#### Key inclusion criteria:

- Age ≥ 18 years
- Measurable disease in accordance to common RECIST criteria (RECIST) by computed tomography (CT) or magnetic resonance imaging (MRI) scan, no more than 8 weeks prior to screening
- At least 4 weeks since the last dose of chemotherapy, radiation therapy, immunotherapy, or surgery, at least 6 weeks for therapy which is known to have delayed toxicity, at least 4 weeks since treatment with biologic/targeted therapies
- Eastern Cooperative Oncology Group (ECOG) performance status ≤ 1
- Hematologically or cytologically confirmed, locally advanced, metastatic NSCLC, PDAC, CRC or TNBC tumor, relapsed or refractory to standard therapy or for which there is no standard therapy. CRC and TNBC are not allowed in second part of the trial.

#### Key exclusion criteria:

- Subjects receiving any other investigational agents during or just prior to (within 28 days of first study drug administration) participation in this study
- Clinical evidence of an active central malignancy
- Subjects with a life expectancy < 12 weeks
- Uncontrolled or significant cardiovascular disease defined as New York Heart Association Classification II, or III
- Immunocompromised subject currently receiving systemic therapy
- Other medical conditions that in the opinion of the investigator disqualify the subject for inclusion

### RESULTS

#### Patient population

Key characteristics of the patient population are summarized in Table 1. Twelve subjects were enrolled and there were 7 serious adverse events (SAEs) across the four initial doses (3-6 mg/kg). Patients were heavily pre-treated with a mean of 3.3 prior lines of therapy (range 1-11).

| Characteristic                     | Total     | Characteristic  | Total         |
|------------------------------------|-----------|-----------------|---------------|
| Enrolled, n (%)                    | 12 (100%) | Enrolled, n (%) | 12 (100%)     |
| Male, n (%)                        | 11 (92%)  | Female, n (%)   | 1 (8%)        |
| Female, n (%)                      | 1 (8%)    | Median (range)  | 1 (1-11)      |
| Indication, n (%)                  |           | Median (range)  | 207 (100-475) |
| • Colorectal cancer                | 9 (75%)   | Median (range)  | 207 (100-475) |
| • Non-small cell lung cancer       | 1 (8%)    |                 |               |
| • Pancreatic ductal adenocarcinoma | 1 (8%)    |                 |               |
| • Triple-negative breast cancer    | 1 (8%)    |                 |               |
| Lines of prior therapy*, n (%)     |           | Median (range)  | 41 (20-95)    |
| • 1-2                              | 6 (50%)   |                 |               |
| • 3-4                              | 4 (33%)   |                 |               |
| • ≥ 5                              | 2 (17%)   |                 |               |

\*Prior therapy-related events are included as a line of therapy

### Safety

CAN04 has generally been well tolerated (Table 2 and 3). The most common AE was infusion related reaction (IRR) (n=4) of all patients and associated events with the infusion reaction in the first dose and resolving within a few hours. To reduce the risk of IRR, a premedication with antihistamines, paracetamol and corticosteroids and prolonged duration of infusion have been implemented for the first dose. A single patient experienced an infusion reaction for the second dose, otherwise no infusion related reactions have been seen at later doses. A dose limiting toxicity (development of neutropenia) that was reversible was seen in 1/7 patients at 6 mg/kg. Cohort 3 has recently been initiated at 10 mg/kg. A maximum tolerated dose has not yet been reached.

| Parameter       | 3 mg/kg  | 5 mg/kg  | 6 mg/kg  | 10 mg/kg | Total     |
|-----------------|----------|----------|----------|----------|-----------|
| Enrolled, n (%) | 3 (100%) | 4 (100%) | 3 (100%) | 2 (100%) | 12 (100%) |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |
| Median (range)  | 3 (1-4)  | 4 (1-5)  | 3 (1-4)  | 2 (1-3)  | 3 (1-5)   |

Table 2: Most common treatment-related AE (all grades, common to 3 patients). With the exception of one patient, infusion related reactions were only seen at the initial dose. Some AE (e.g. nausea, chills, pyrexia) are reported both as common infusion or infusion reaction and as moderate AE in the table.

Table 3: The patient with infusion related reaction in cohort 3, one patient with neutropenia in cohort 4, one patient with chills, nausea and neutropenia, both in the same patient in cohort 5.

| Treatment-related AE      | Any severity | Grade 3 |
|---------------------------|--------------|---------|
| Infusion related reaction | 4 (33%)      | 1 (8%)  |
| Neutropenia               | 1 (8%)       | 1 (8%)  |
| Chills                    | 1 (8%)       | 1 (8%)  |
| Nausea                    | 1 (8%)       | 1 (8%)  |
| Pyrexia                   | 1 (8%)       | 1 (8%)  |

### Biomarkers

An extensive biomarker analysis will be performed at the end of the study. Interim analysis of a select set of parameters of relevance in serum showed a decrease versus baseline in IL-6 in 11 of 12 patients with a strong trend (p=0.06) and a decrease in CRP in 9 of 12 patients (p=0.04) after two doses of CAN04, consistent with the CAN04 mode of action and supporting target engagement.

### Clinical efficacy data

Of the patients that had received at least one (3) dose of CAN04, 12 patients had available pre- and post-treatment assessment by imaging at the time of data cut off (cut 4\*). Five (1) patients (MN) had stable disease (SD) by RECIST at 8 weeks follow-up. NSCLC (1), CRC (1), and PDAC (1). Eight (8) patients had progressive disease (PD). The patient with NSCLC had SD at 8 months.

### Pharmacokinetics

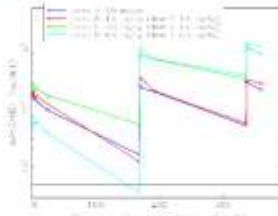


Fig. 3: The serum profile of CAN04 from an initial priming dose followed by repeated doses. Higher exposure and lower clearance with increasing doses although the non-linear curves does not yet allow the accurate calculation of PK parameters.

### CONCLUSIONS

- CAN04 has generally been well tolerated, the most common treatment related AE is an infusion related reaction during the first infusion and resolving within a few hours, a side effect often observed with antibody therapy.
- 6 mg/kg is safe and tolerable, MTD has not been reached and the study is now enrolling patients in cohort 3 at 10 mg/kg.
- Interim results support target engagement already after two doses of CAN04.
- In a heavily pre-treated patient population, 5 of 12 patients (42%) that had received at least 1 dose of CAN04 had SD by RECIST at 8 weeks follow-up. One patient with NSCLC had SD for 8 months.
- The next step after the recommended phase II dose has been established will be to evaluate CAN04 in a dose expansion phase as monotherapy as well as in combination with standard of care therapy in the target indications NSCLC (1<sup>st</sup> and 2<sup>nd</sup> line) and PDAC (1<sup>st</sup> line) in separate treatment arms.

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### Acknowledgements

On behalf of the study team, the authors thank the patients and their families for their participation in the study.



# CANFOUR – baseline characteristics

| Characteristics                    | Total<br>(n=16) |  | Characteristics                | Total<br>(n=16)   |
|------------------------------------|-----------------|--|--------------------------------|-------------------|
| Mean age, years (range)            | 63 (39-81)      |  | ECOG PS, n (%)                 |                   |
|                                    |                 |  | 0                              | 12 (75)           |
|                                    |                 |  | 1                              | 4 (25)            |
| Male, n (%)                        | 11 (69)         |  | HB (mmol/L),<br>Median (range) | 7.6<br>(6.0-10.0) |
| Female, n (%)                      | 5 (31)          |  |                                |                   |
| Indication, n (%)                  |                 |  | LDH (U/L),<br>Median (range)   | 217<br>(162-475)  |
| • Colorectal cancer                | 9 (56)          |  |                                |                   |
| • Non-small cell lung cancer       | 3 (19)          |  |                                |                   |
| • Pancreatic ductal adenocarcinoma | 4 (25)          |  |                                |                   |
| • Triple-negative breast cancer    | 0               |  |                                |                   |
| Lines of prior therapy*, n (%)     |                 |  | ALB (g/L),<br>Median (range)   | 41<br>(29-45)     |
| • ≤2                               | 5 (31)          |  |                                |                   |
| • 3-5                              | 9 (56)          |  |                                |                   |
| • ≥6                               | 2 (12)          |  |                                |                   |

\* adjuvant/neo-adjuvant therapy was included as a line of therapy



# CANFOUR – safety

- CAN04 has generally been well tolerated
- The most common AE was infusion related reaction (IRR) at the first dose resolving within a few hours
  - To reduce the risk of IRR, a priming dose, premedication with antihistamines, paracetamol and corticosteroids and prolonged duration of infusion have been implemented for the first dose.
- A single patient experienced an infusion reaction on the second dose, otherwise no infusion related reactions have been seen at later doses.
- Three patients with grade 3 events.
- Cohort 5 has recently been initiated at 10 mg/kg.
- A maximum tolerated dose has not yet been reached.

# Infusion reactions (IRR)

Infusion related reactions are common with some of the most commonly used antibodies:<sup>1</sup>

- 77% with rituximab,
- 61% with ofatumumab
- 15% with cetuximab



*Annals of Oncology* 28 (Supplement 4): iv100–iv118, 2017  
doi:10.1093/annonc/mdx216

## CLINICAL PRACTICE GUIDELINES

### Management of infusion reactions to systemic anticancer therapy: ESMO Clinical Practice Guidelines<sup>†</sup>

S. Roselló<sup>1</sup>, I. Blasco<sup>1</sup>, L. García Fabregat<sup>1</sup>, A. Cervantes<sup>1</sup> & K. Jordan<sup>2</sup>, on behalf of the ESMO Guidelines Committee\*

# CANFOUR – treatment related adverse events (AE)

| Treatment related AEs     | Any toxicity | Grade 3      |
|---------------------------|--------------|--------------|
|                           | n (of total) | n (of total) |
| Any                       | 68 (13/16)   | 4 (3/16)     |
| Nausea                    | 8 (5/16)     | 0            |
| Fatigue                   | 7 (5/16)     | 0            |
| Infusion related reaction | 7 (7/16)     | 1 (1/16)     |
| Pyrexia                   | 6 (6/16)     | 0            |
| Chills                    | 4 (4/16)     | 0            |
| Vomiting                  | 4 (4/16)     | 0            |
| Diarrhoea                 | 3 (3/16)     | 0            |
| Hypotension               | 2 (2/16)     | 0            |
| Pruritus                  | 2 (2/16)     | 0            |

With the exception of a single infusion related reaction at the 2<sup>nd</sup> dose, all infusion related reactions occurred at the first dose.

Grade 3: one patient with infusion related reaction (cohort 3)

one patient with hypokalemia in (cohort 4)

one patient with low white blood cells count and neutropenia (cohort 4).

There were no treatment-related grade 4/5 AEs

# For comparison: Immune checkpoint inhibitor safety profile in lung cancer

| Study and regimens   | Treatment related AEs grade 3-5 |
|--|---------------------------------|
| Keynote 024 <sup>1</sup><br>Pembro vs pembro+chemo doublet           | 26 vs 53%                       |
| Keynote 042 <sup>2</sup><br>Pembro vs Pembro+chemo (single agent)    | 18 vs 42%                       |
| IMPower 150 <sup>3</sup><br>Atezo+bev+chemo doublet vs chemo doublet | 59% vs 50%                      |
| Keynote 189 <sup>4</sup><br>Pembro+ chemo doublet vs chemo doublet   | 67 vs 65%                       |

# CANFOUR – biomarkers

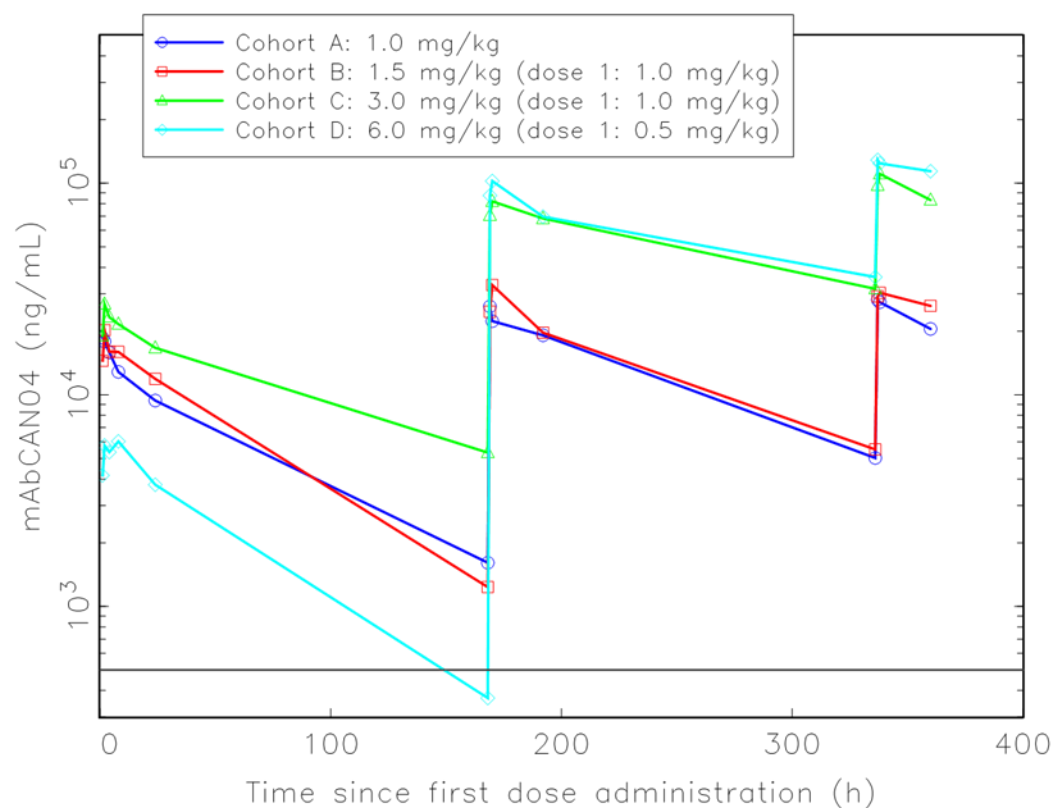
- An extensive biomarker analysis will be performed at the end of the study.
- Interim analysis of a select set of parameters of relevance in serum showed:
  1. a decrease versus baseline in IL-6 in 11 of 14 patients with a strong trend ( $p=0.06$ )
  2. a decrease in CRP in 9 of 11 patients ( $p=0.04$ ) after two doses of CAN04 consistent with the mode of action and supporting target engagement

# CANFOUR – clinical efficacy data

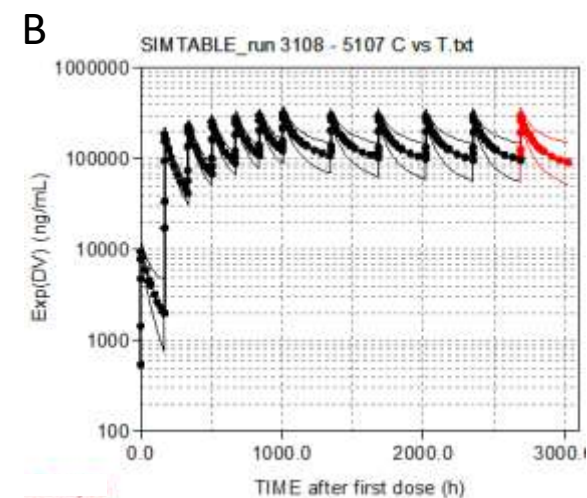
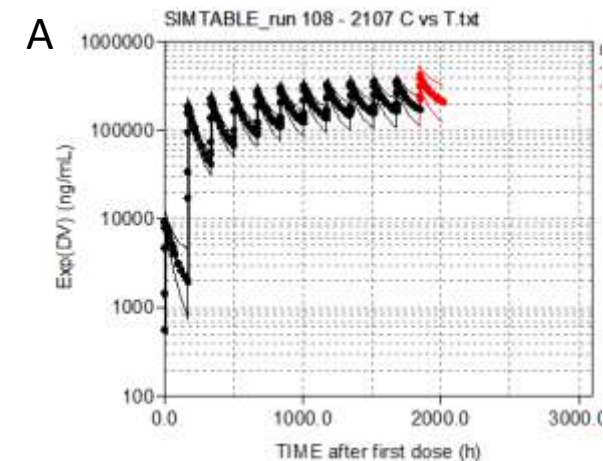
- Of the patients that received at least one (1) dose of CAN04, 13 patients had available pre- and post-treatment assessment by imaging at the time of data cut off (Oct 5<sup>th</sup>).
- Five (5) patients (38%) had stable disease (SD) by irRC at 8 weeks follow up: non-small cell lung cancer (1), colorectal cancer (3), and pancreatic cancer (1). 8 patients had progressive disease. 1 pt with lung cancer had SD at 6 months.



# CANFOUR – cohort 1-4 - PK



Individual time-plasma profiles on log-lin scale for mAbCAN04



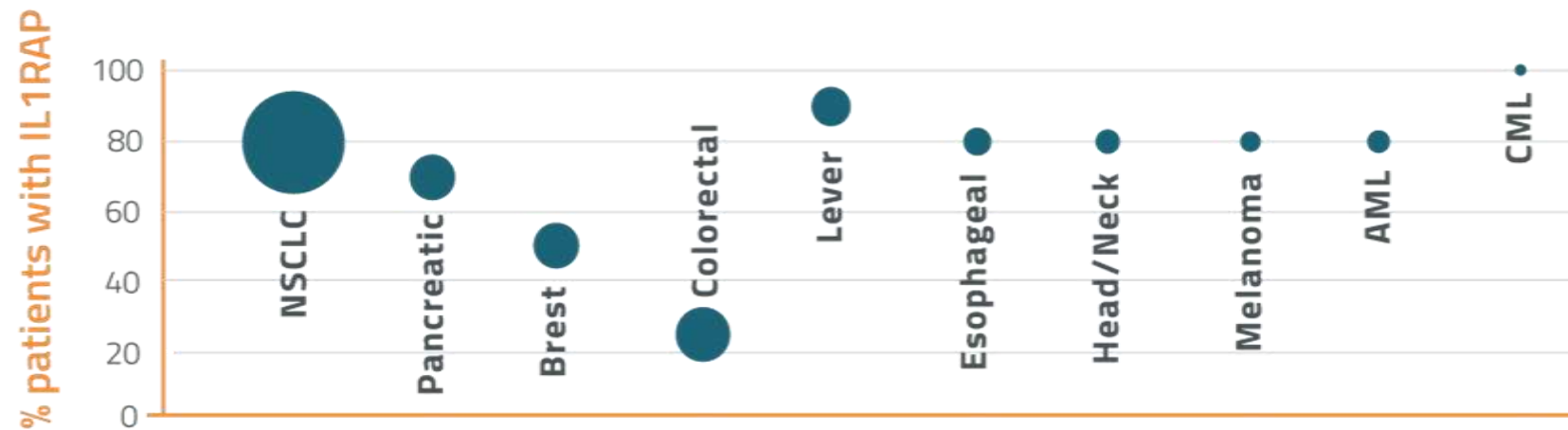
**Predicted serum concentration of CAN04 vs time curves in human**

Predicted serum concentration of CAN04 vs time curves in human illustrating the 5<sup>th</sup>, 50<sup>th</sup>, and 95<sup>th</sup> percentiles of the median in 2000 simulated studies of 12 patients after an initial priming dose of 0.5 mg/kg, followed by 5 weekly (Q1W) doses of 10 mg/kg, followed by 6 doses of CAN04 (10 mg/kg) weekly (A) or every second week (Q2W) (B).

# CANFOUR – CONCLUSIONS

- CAN04 has generally been well tolerated, the most common treatment related AE is an infusion related reaction during the first infusion and resolving within a few hours, a side effect often observed with antibody therapy.
- 6 mg/kg is safe and tolerable. MTD has not been reached and the study is now enrolling patients in cohort 5 at 10 mg/kg
- Biomarker results support target engagement already after 2 doses of CAN04 (week 3)
- In a heavily pre-treated patient population, 5 of 13 patients (38%) that had received at least 1 dose of CAN04 had SD by irRC at 8 weeks follow up. One patient with NSCLC had SD for 6 months.
- The next step after the recommended phase II dose has been established will be to evaluate CAN04 in a dose expansion phase as monotherapy as well as in combination with standard of care therapy in the target indications NSCLC (1<sup>st</sup> and 2<sup>nd</sup> line) and PDAC (1<sup>st</sup> line) in separate treatment arms

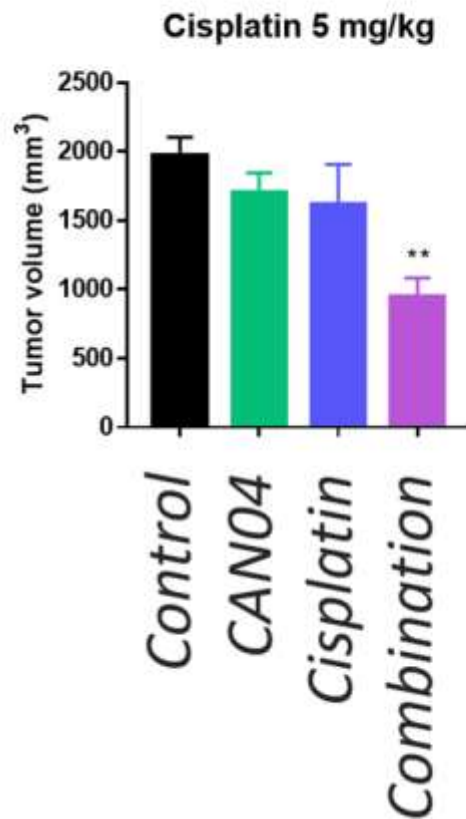
# NSCLC and pancreatic cancer: our target indications in combination with chemotherapy



IL1RAP expression and size of indications

1<sup>st</sup> and 2<sup>nd</sup> line NSCLC and 1<sup>st</sup> line pancreatic cancer represents significant opportunities with high unmet need

# CAN04 in combination with Cisplatin is superior to either agent alone and less toxic in pre-clinical models

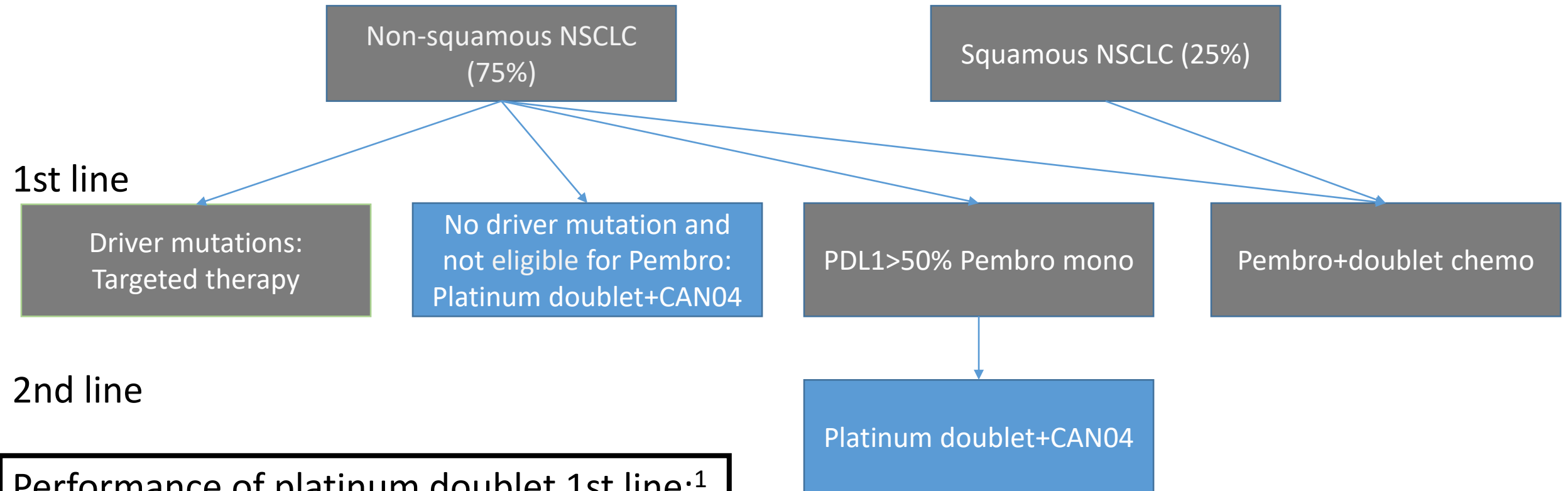


|                   | Control              | CAN04       | Cisplatin        | Combination                            |
|-------------------|----------------------|-------------|------------------|--|
| Animals withdrawn | 20 % (Tumor)         | 0 %         | 50 % (Toxicity)  | 20 % (Toxicity)                        |
| Tumor reduction   | N/A                  | 14%         | 18%              | 52 %                                   |
| Comment           | Highest tumor burden | Best safety | Highest toxicity | Superior efficacy and reduced toxicity |

Combination CAN04/Cisplatin superior to individual agents

- Reduction in severe toxicity
- Increased efficacy

# Positioning of CAN04 in NSCLC (metastatic disease) in CANFOUR



Performance of platinum doublet 1st line:<sup>1</sup>

- 25% response rate
- progression free survival: 5-6 months

# Positioning of CAN04 in pancreatic cancer (locally advanced or metastatic) in CANFOUR

1st line

Gemcitabine+nab-  
paclitaxel+CAN04

FOLFIRINOX

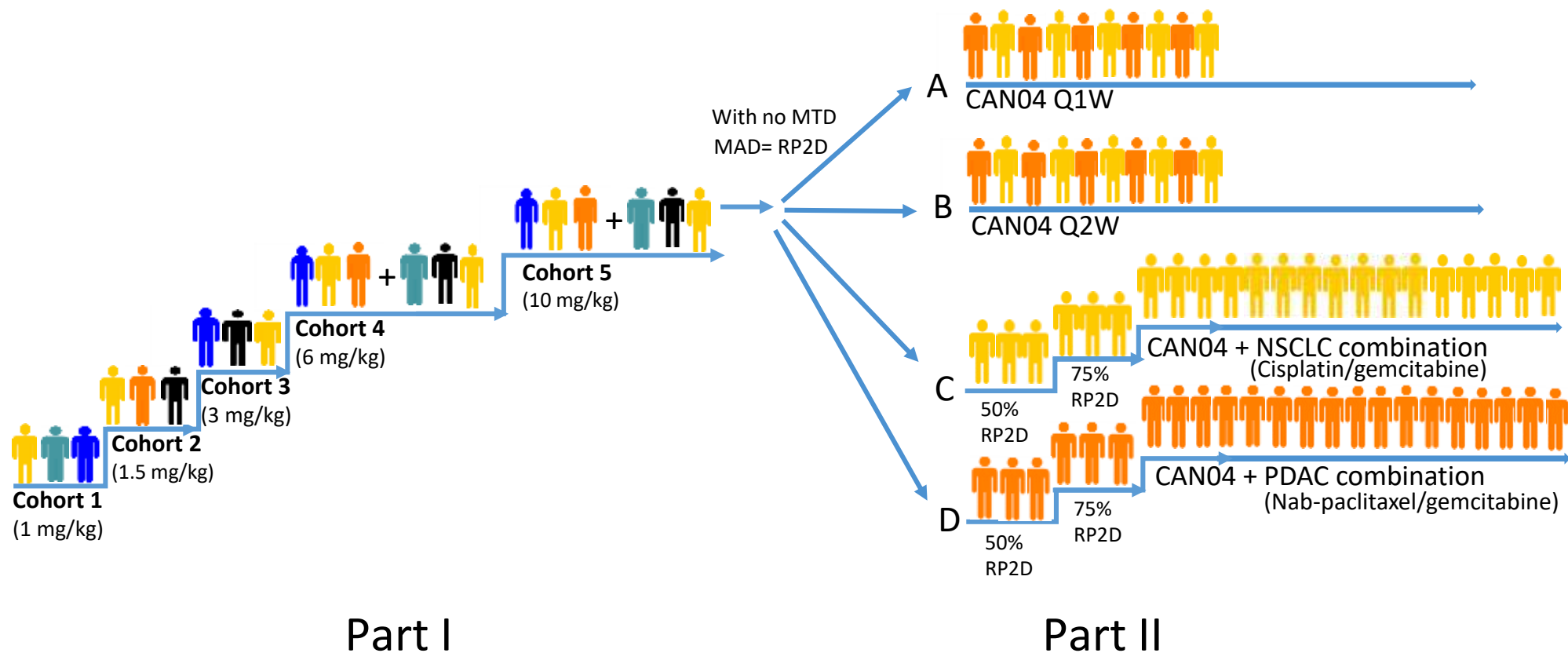
Gemcitabine (very  
frail patients)

Performance gemcitabine+ nab paclitaxel 1st line:<sup>1</sup>

- 25% response rate
- progression free survival: 5 months



# CANFOUR – study design



# CANFOUR

**An open label, dose escalation followed by dose expansion, safety and tolerability trial of CAN04, a fully humanized monoclonal antibody against IL1RAP, in subjects with solid malignant tumors.**

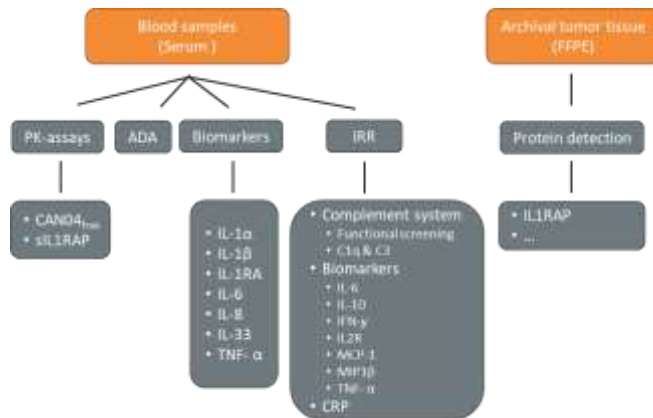
|                             |  |
|-----------------------------|--|
| <b>Primary Objective</b>    | <p><b>Part I</b></p> <ul style="list-style-type: none"><li>• To define the MTD or RP2D of CAN04, given Q1W in subjects with relapsed or refractory NSCLC, PDAC, TNBC or CRC.</li></ul> <p><b>Part II</b></p> <ul style="list-style-type: none"><li>• To determine the safety and tolerability of CAN04 in subjects with NSCLC or PDAC tumors, when given as monotherapy or in combination with standard chemotherapy regimen.</li></ul>  |
| <b>Secondary Objectives</b> | <ul style="list-style-type: none"><li>• To assess pharmacokinetic (PK) parameters of CAN04.</li><li>• To assess anti-drug antibody (ADA) formation against CAN04.</li><li>• To determine preliminary signs of clinical efficacy of CAN04 as a single agent.</li></ul> <p><b>Additional secondary objectives for Part II</b></p> <ul style="list-style-type: none"><li>• To assess health-related Quality of Life (QoL)</li><li>• To determine preliminary signs of clinical efficacy of CAN04 when given in combination with standard chemotherapy regimen</li></ul> |

# CANFOUR – additional assessments

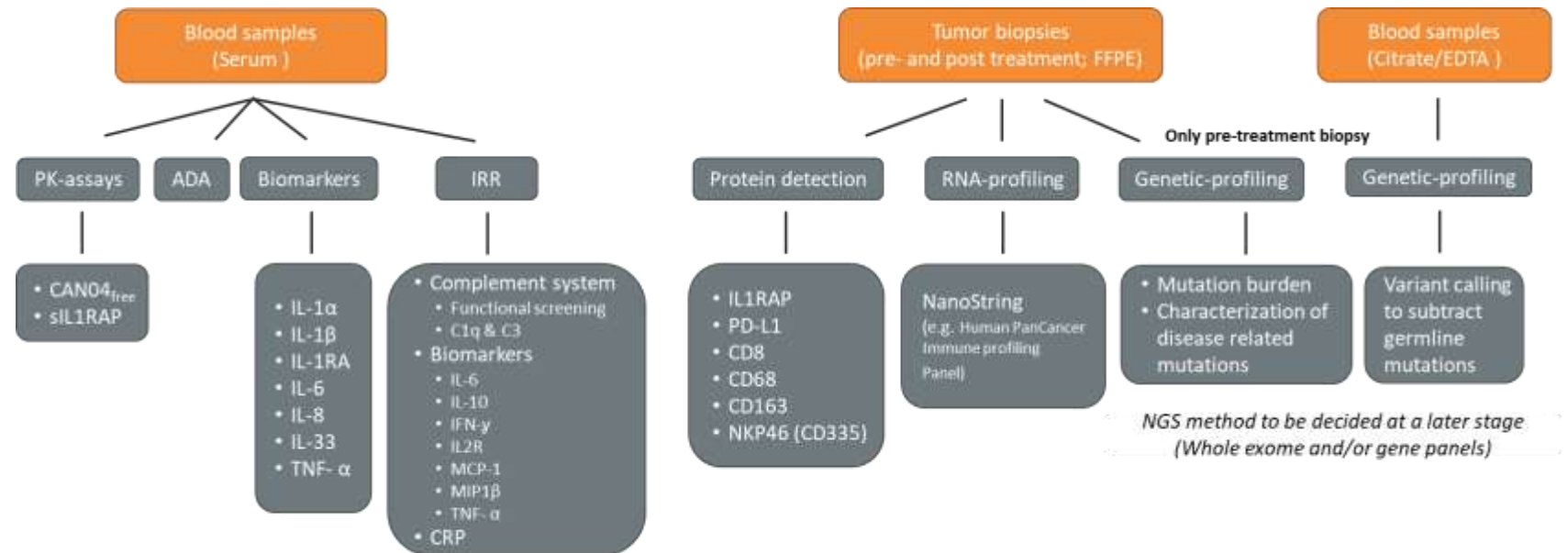
| Endpoint            | Assessment   |
|---------------------|--|
| Secondary endpoints | <ul style="list-style-type: none"><li>• Pharmacokinetics, including sIL1RAP</li><li>• Anti-drug antibodies (ADA)</li><li>• Preliminary signs of efficacy (ORR, DoR, PFS, OS)</li><li>• Additional endpoint for Part II: Health-related QoL (EORTC QLQ C30)</li></ul>   |
| Exploratory         | <ul style="list-style-type: none"><li>• IL1RAP expression and other disease-related, inflammatory, immune or microenvironment-related biomarkers (protein, RNA, genomic or other in tumor tissue)</li><li>• Part I – archival tumor tissue</li><li>• Part II – paired pre- and during/post treatment biopsies</li><li>• Other disease-related, inflammatory, immune or microenvironment-related emerging biomarkers in circulation</li><li>• Serum levels of CRP</li><li>• Volumetric assessment of tumor size</li></ul> |
| Evaluation of IRRs  | <ul style="list-style-type: none"><li>• Complement factors, cytokines and CRP</li></ul>  |

# CANFOUR -Molecular profiling of tumors and serum samples

## Phase I



## Phase II



NGS method to be decided at a later stage  
(Whole exome and/or gene panels)

# CANFOUR

## Part I

Principal Investigator: Professor Ahmad Awada  
Jules Bordet Institute, Brussels, Belgium

### Belgium

Institut Jules Bordet, Brussels

### Denmark

Rigshospitalet, Copenhagen

### The Netherlands

Netherlands Cancer Institute, Amsterdam  
Erasmus MC, Rotterdam

### Norway

Oslo University Hospital, Radiumhospitalet, Oslo



## Part II

- Austria
- Belgium
- Denmark
- Germany
- The Netherlands
- Norway
- Sweden

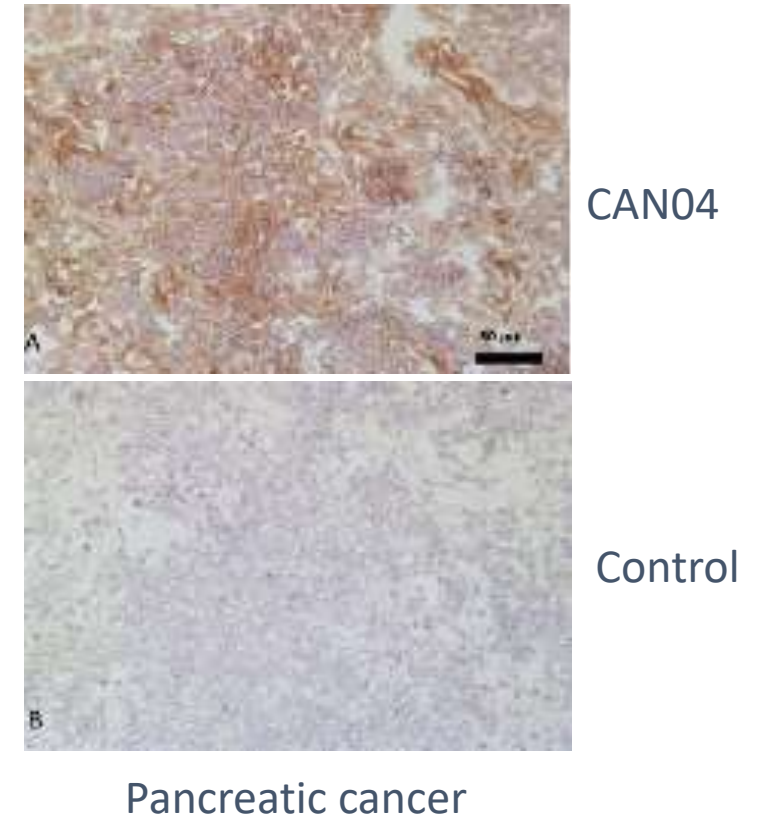
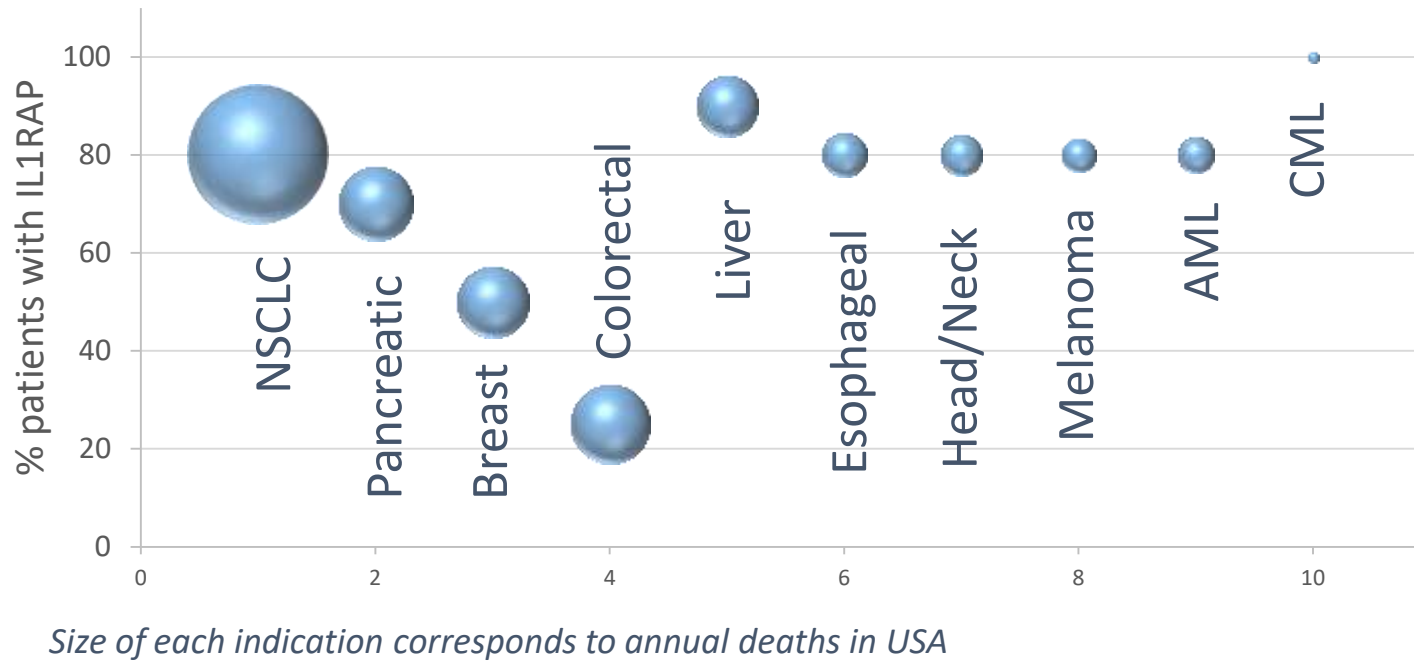




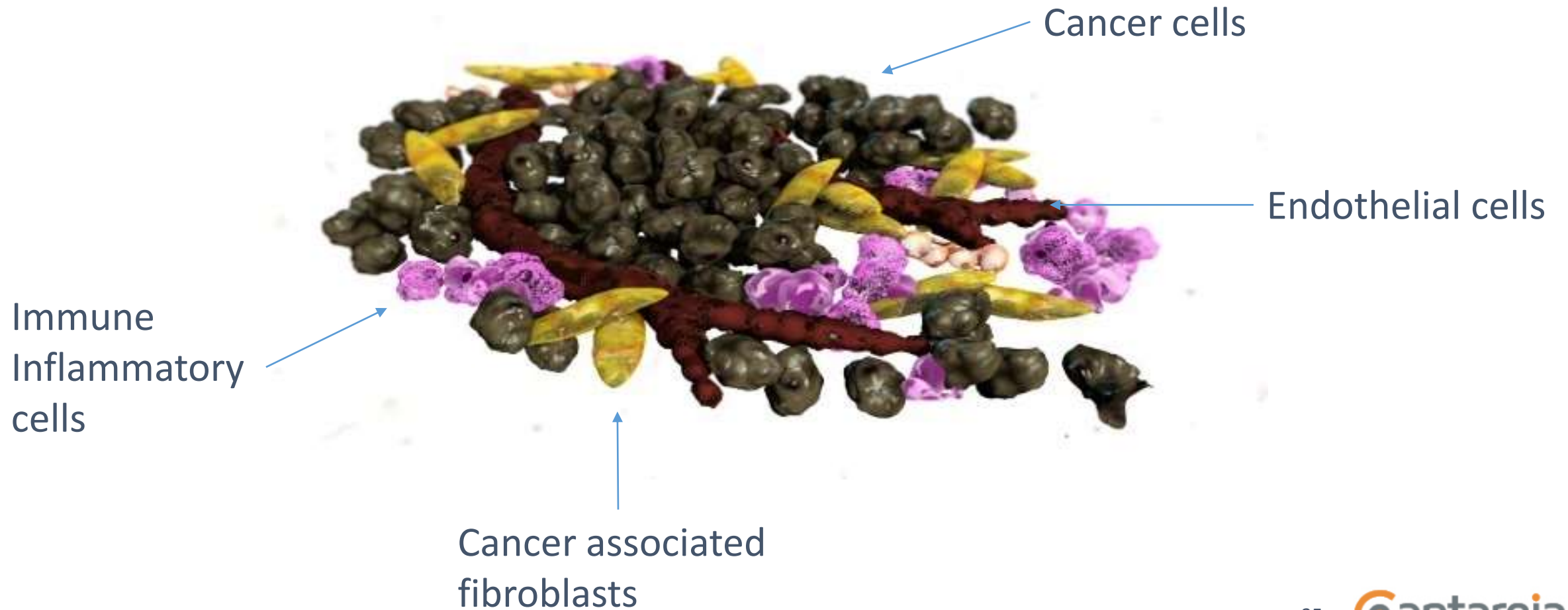
# Tumor inflammation – key to cancer features



# IL1RAP is highly expressed in several cancers



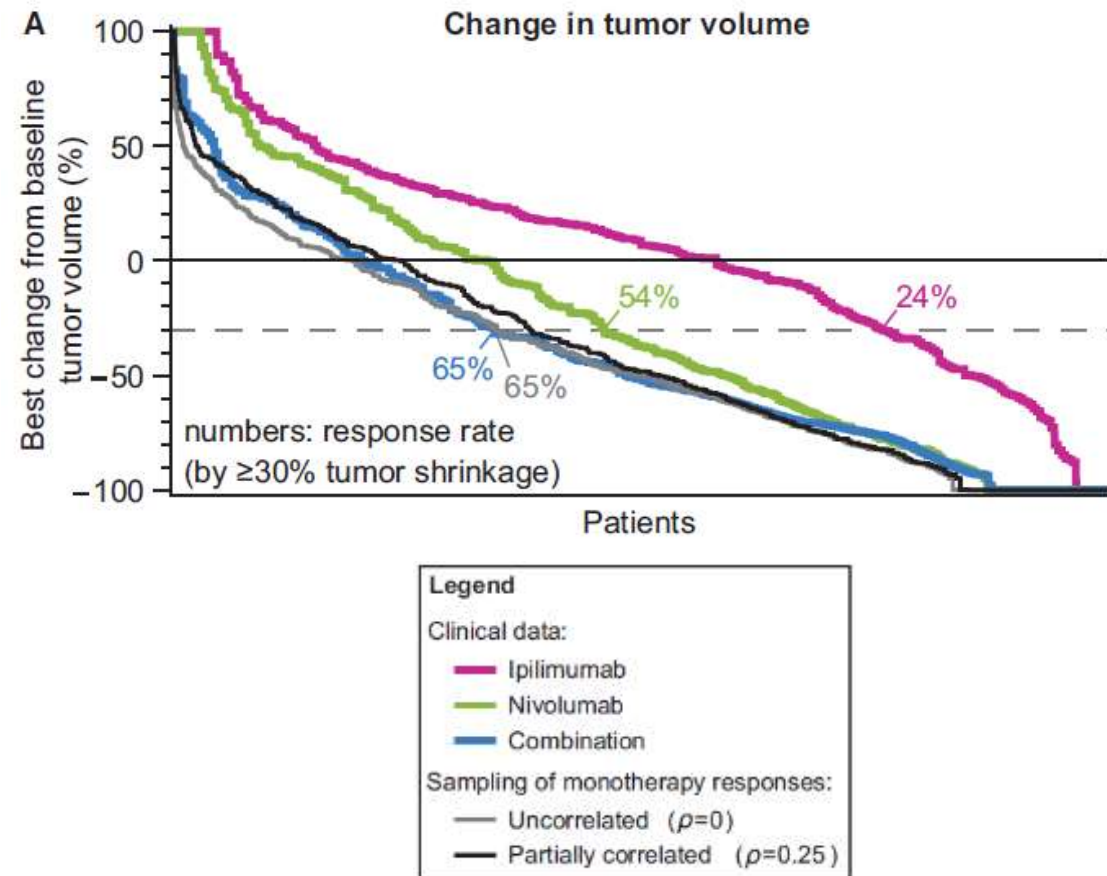
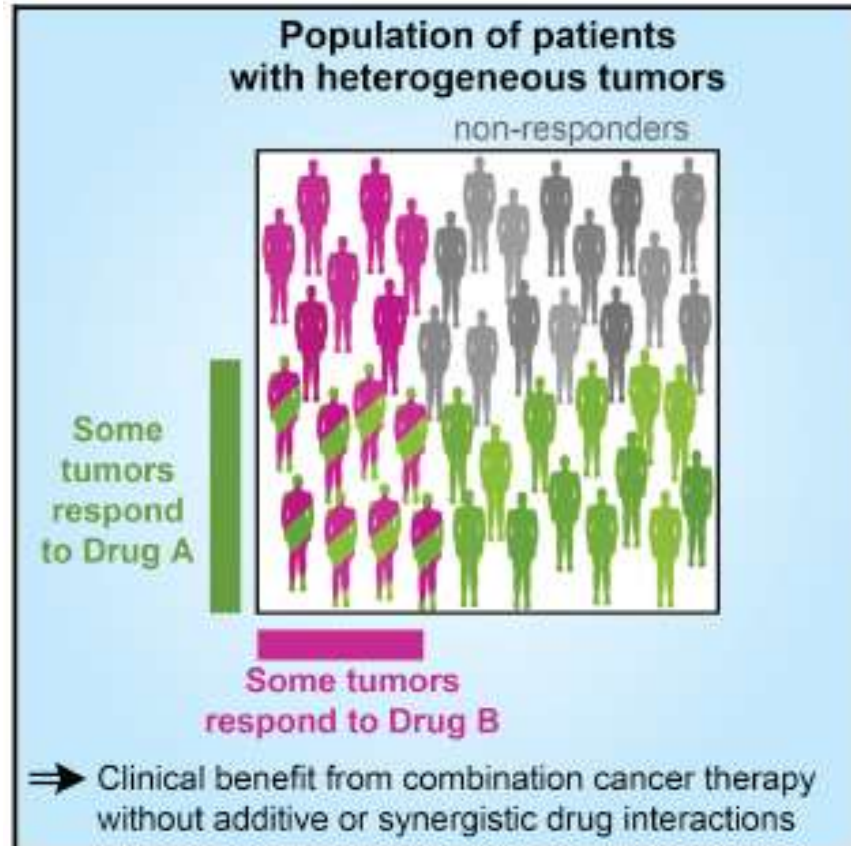
# Targeting the tumor microenvironment



# Combination therapy

- Synergistic effects:  $1 + 1 = 3$
- Additive effects:  $1 + 1 = 2$
- Variability effects:  $1 + 1 = 1,5$

# Combination therapy



# Combination therapy

- Synergistic effects:  $1 + 1 = 3$
- Additive effects:  $1 + 1 = 2$
- Variability effects:  $1 + 1 = 1,5$



# IL-1 and resistance to therapy

## Interleukin-1 blockade overcomes erlotinib resistance in head and neck squamous cell carcinoma

Aditya Stanam<sup>1,2</sup>, Katherine N. Gibson-Corley<sup>2,5,6</sup>, Laurie Love-Homan<sup>2</sup>, Nnamdi Ihejirika<sup>3</sup>, Andrean L. Simons<sup>1,2,4,5,6</sup>

[CANCER RESEARCH 62, 910–916, February 1, 2002]

## Autocrine Production of Interleukin 1 $\beta$ Confers Constitutive Nuclear Factor $\kappa$ B Activity and Chemoresistance in A Novel Role for the Interleukin-1 Receptor Axis in Resistance to Anti-EGFR Therapy

Alexander Arlt,<sup>2</sup> Jens Vorndamm,<sup>2</sup> Susanne Heiner Schäfer<sup>3</sup>

Valerio Gelfo<sup>1,2,†</sup>, Martina Mazzeschi<sup>1,†</sup>, Giada Grilli<sup>1</sup>, Moshit Lindze Gabriele D'Uva<sup>6</sup>, Balázs Györfy<sup>7,8</sup>, Andrea Ardizzoni<sup>1</sup>, Yosef Yarden Mattia Lauriola<sup>1,2,\*</sup>

Vassilis Georgoulas,<sup>8</sup> Rinat Zaynagetdinov,<sup>2,11,\*</sup> and Timothy S. Blackwell<sup>1,2,5,9,10,11</sup>

## IRAK1 is a therapeutic target that drives breast cancer Neutrophil-Derived IL-1 $\beta$ Impairs the Efficacy of NF- $\kappa$ B Inhibitors against Lung Cancer

Zhen Ning Wee Puay Leng Lee<sup>1</sup>

Dave S.B. Hoon Allyson G. McLoed,<sup>1</sup> Taylor P. Sherrill,<sup>2</sup> Dong-Sheng Cheng,<sup>2</sup> Wei Han,<sup>2</sup> Jamie A. Saxon,<sup>1</sup> Linda A. Gleaves,<sup>2</sup> Pingsheng Wu,<sup>3</sup> Vasilii V. Polosukhin,<sup>2</sup> Michael Karin,<sup>4</sup> Fiona E. Yull,<sup>1,5</sup> Georgios T. Stathopoulos,<sup>2,6,7</sup> Vassilis Georgoulas,<sup>8</sup> Rinat Zaynagetdinov,<sup>2,11,\*</sup> and Timothy S. Blackwell<sup>1,2,5,9,10,11</sup>

## Constitutive Prognosis and Chemoresistance in Pancreatic Ductal Adenocarcinoma

Daoxiang Zhang<sup>1</sup>, Lin Li<sup>1</sup>, Hongmei Jiang<sup>1</sup>, Brett L. Knolhoff<sup>1</sup>, Albert C. Lockhart<sup>1</sup>, Andrea Wang-Gillam<sup>1</sup>, David G. DeNardo<sup>1</sup>, Marianna B. Ruzinova<sup>2</sup>, and Kian-Huat Lim<sup>1</sup>

## Serum levels of IL-6 and IL-1 $\beta$ can predict the efficacy of gemcitabine in patients with advanced pancreatic cancer

S Mitsunaga<sup>\*,1,2</sup>, M Ikeda<sup>1</sup>, S Shimizu<sup>1</sup>, I Ohno<sup>1</sup>, J Furuse<sup>3</sup>, M Inagaki<sup>4</sup>, S Higashi<sup>5</sup>, H Kato<sup>5</sup>, K Terao<sup>6</sup> and A Ochiai<sup>2</sup>

## Chemotherapy-triggered cathepsin B release in myeloid-derived suppressor cells activates the Nlrp3 inflammasome and promotes tumor growth

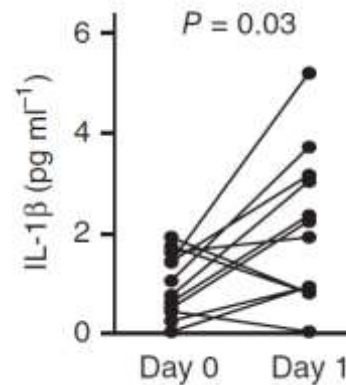
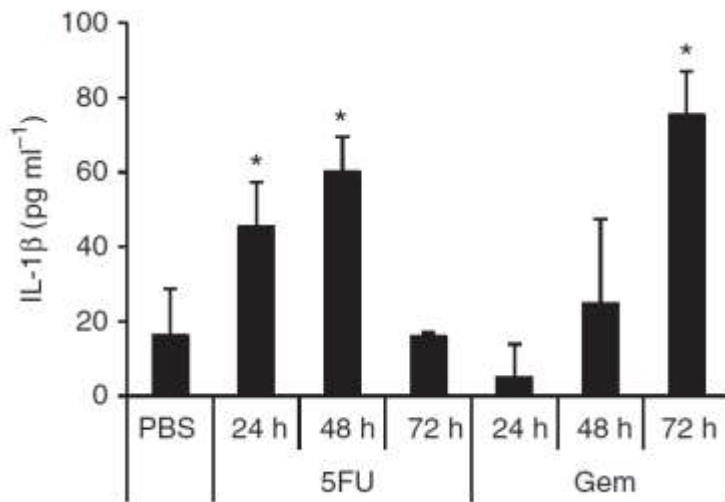
Mélanie Bruchard<sup>1,2,8</sup>, Grégoire Mignot<sup>1,2,8</sup>, Valentin Derangère<sup>1,2</sup>, Fanny Chalmin<sup>1,2</sup>, Angélique Chevriaux<sup>1-3</sup>, an<sup>1,2</sup>, Wilfrid Boireau<sup>4</sup>, Benoit Simon<sup>4</sup>, Bernhard Ryffel<sup>5</sup>, Jean Louis Connat<sup>6</sup>, los<sup>7</sup>, François Martin<sup>1,2</sup>, Cédric Rébé<sup>1-3</sup>, Lionel Apetoh<sup>1-3,8</sup> & François Ghiringhelli<sup>1-3,8</sup>

## dry cytokines defines resistance of inhibitors

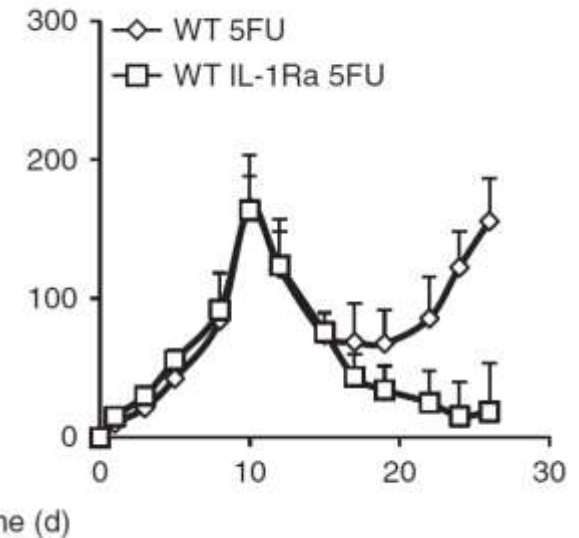
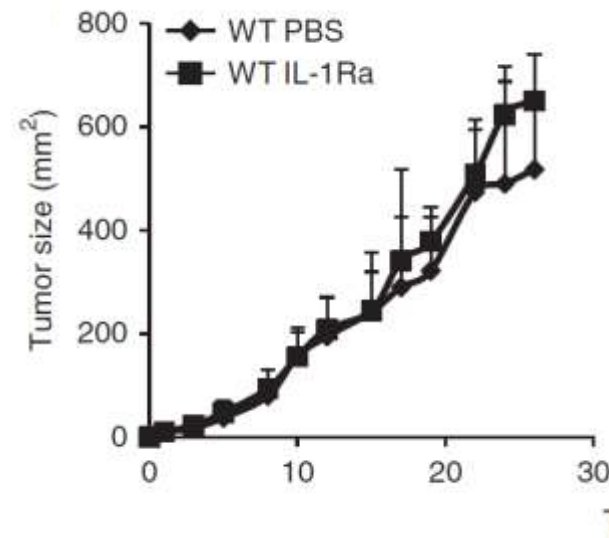
, Maria Teresa Rodia<sup>1,\*</sup>, Michela Pucci<sup>1</sup>, Massimiliano Dall'Ora<sup>1</sup>, Rossella Solmi<sup>1</sup>, Lee Roth<sup>5</sup>, Moshit Lindzen<sup>5</sup>, Massimiliano a Bertotti<sup>6</sup>, Elisabetta Caramelli<sup>1</sup>, Pier-Luigi Lollini<sup>1</sup>, Livio Trusolino<sup>6</sup>, Gabriele D'Uva<sup>7,\*</sup>, Mattia Lauriola<sup>1,2,\*</sup>

# IL-1 and resistance to therapy, via MDSC

Gemcitabine and 5FU induce IL-1 release by MDSC



IL-1 blockade counters chemoresistance

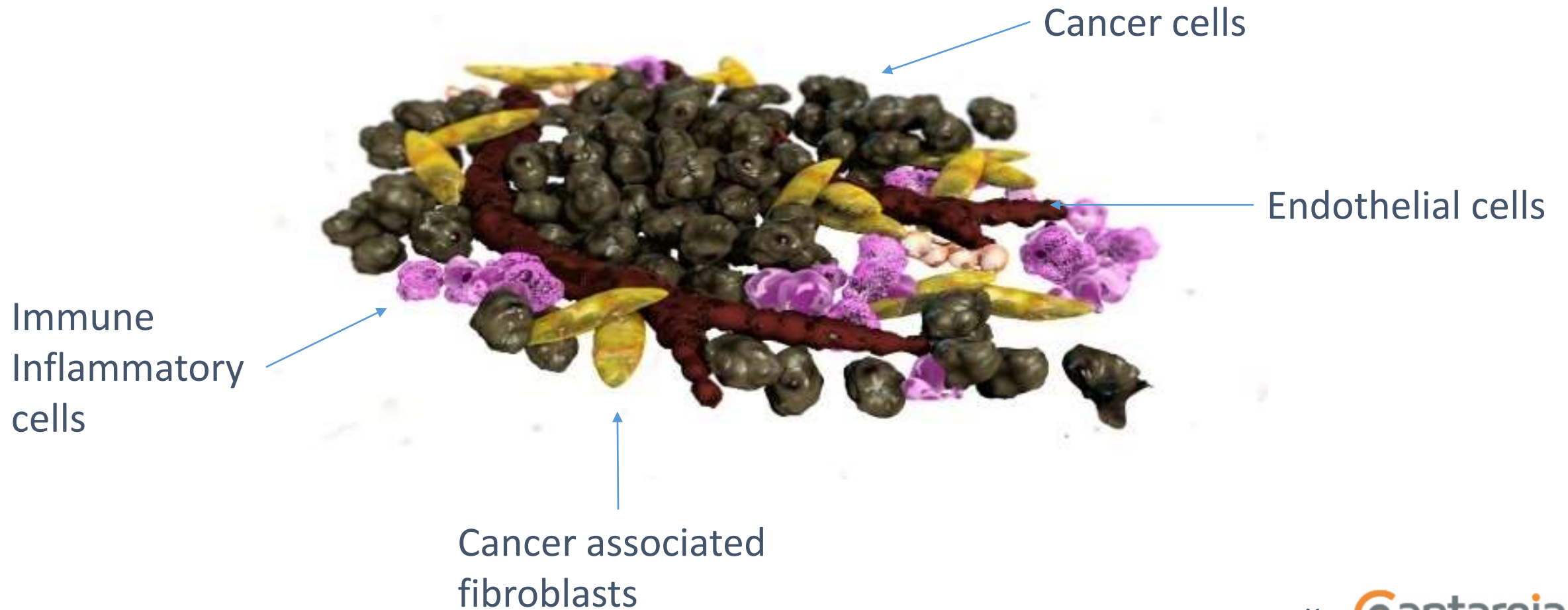


Gemcitabine and 5FU triggers IL-1 in tumor associated myeloid cells (Myeloid Derived Suppressor Cells) that counteract therapeutic effects

Bruchard et.al, Chemotherapy-triggered cathepsin B release in myeloid-derived suppressor cells activates the Nlrp3 inflammasome and promotes tumor growth, Nat Med 2013



# Targeting the tumor microenvironment



# Pancreatic ductal adenocarcinoma (PDAC)

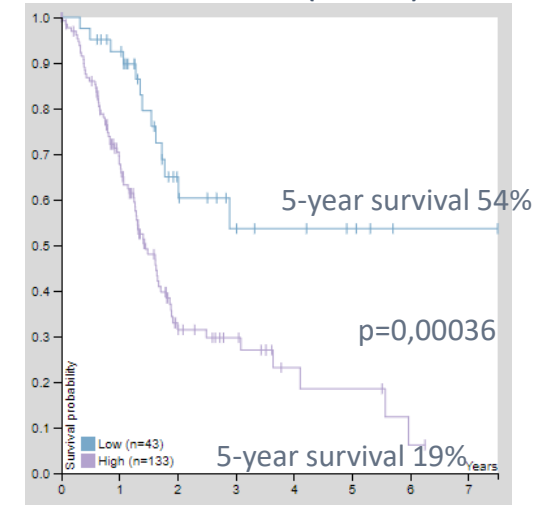
Propensity to metastasize, resistance to chemo- and radiotherapy, 5-year survival < 6%

KRAS mutated (75-90%)

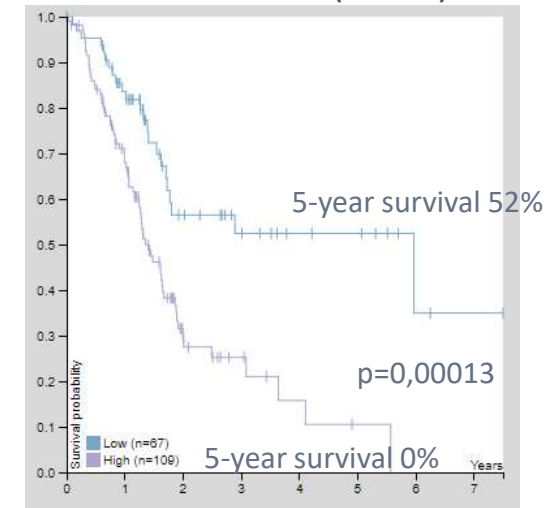
IL1 expression

Constitutive NF $\kappa$ B activation

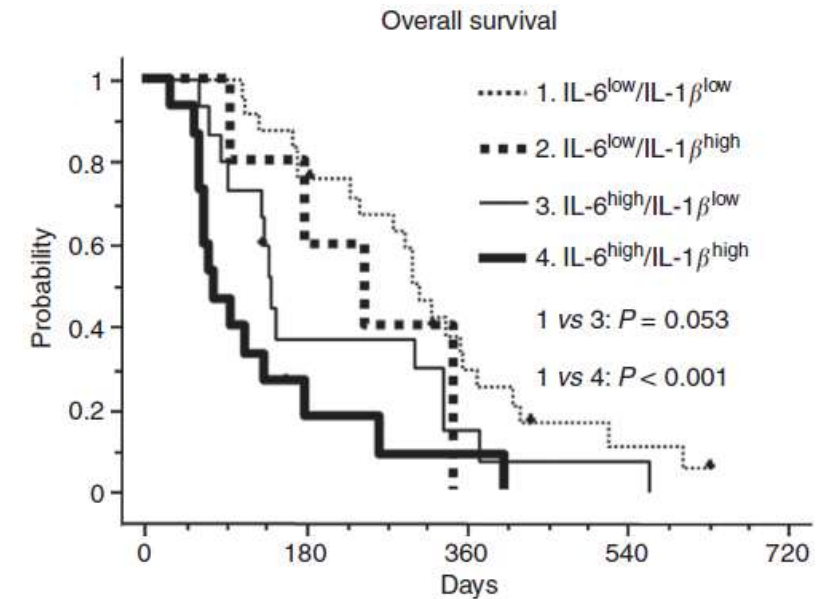
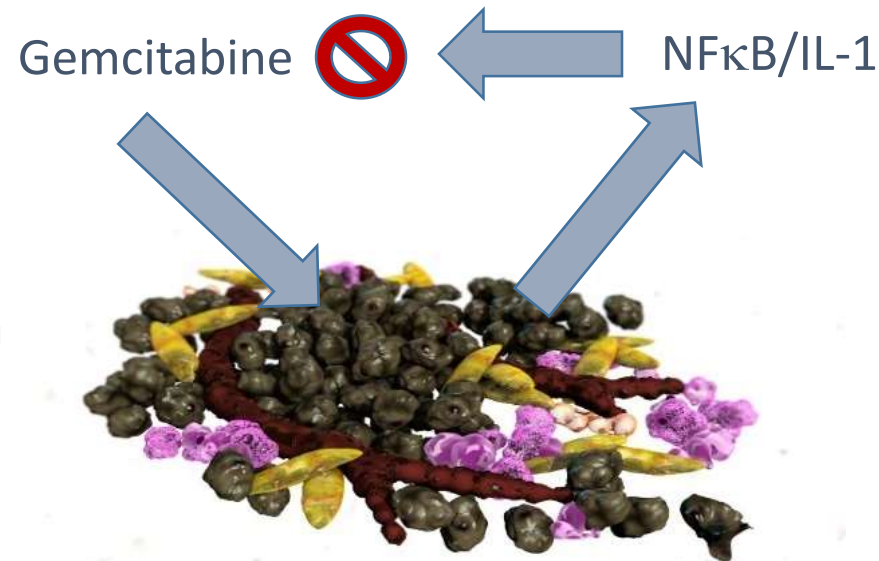
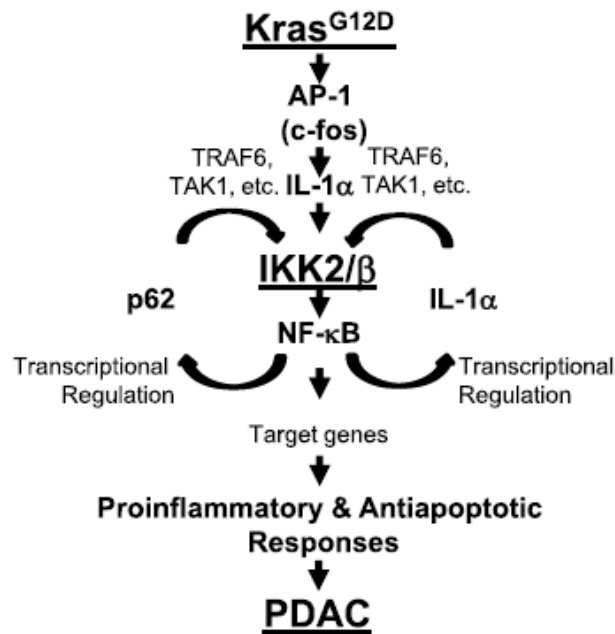
KRAS mRNA (TCGA) vs survival



IL1RAP mRNA (TCGA) vs survival



# Pancreatic ductal adenocarcinoma (PDAC)



Ling et.al, *KRAS<sup>G12D</sup>-Induced IKK2/β/NF-κB Activation by IL-1α and p62 Feedforward Loops is Required for Development of Pancreatic Ductal Adenocarcinoma*, *Cancer Cell* 2012

Zhuang et.al; *IL1 Receptor Antagonist Inhibits Pancreatic Cancer Growth by Abrogating NF-κB Activation*, *Clinical Cancer Res* 2016

Zhang et.al; *Constitutive IRAK4 Activation Underlies Poor Prognosis and Chemoresistance in Pancreatic Ductal Adenocarcinoma*, *Clinical Cancer Res* 2017

Mitsanuga et.al; *Serum levels of IL-6 and IL-1β can predict the efficacy of gemcitabine in patients with advanced pancreatic cancer*, *Br J Cancer* 2013

# IL-1 combinations in pancreatic cancer

**Treatment:**

MABp1 (anti-IL1 $\alpha$  mAb) in combination with Onivyde® (Irinotecane liposome injection) and 5-fluorouracil/folinic acid

**Objectives:**

Phase I single arm trial to evaluate MTD, safety and tolerability.

Secondary measures:

- LBM
- Weight stability
- Levels of systemic inflammation

**Patients:** Pancreatic cancer and cachexia

**Size:** N=16

**Regimen:** Q2W

**Treatment:**

Anakinra (IL1-RA) in combination with gemcitabine, nab-paclitaxel and cisplatin

**Objectives:**

Pilot study to evaluate improved survival (DFS) by the addition of anakinra to chemotherapy combo.

Secondary measures:

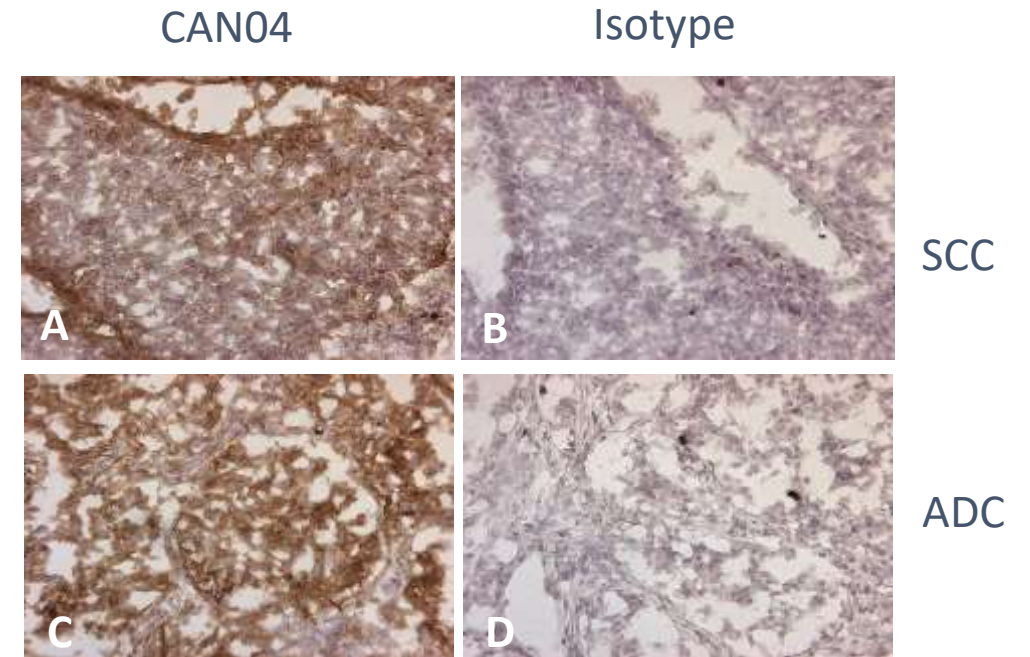
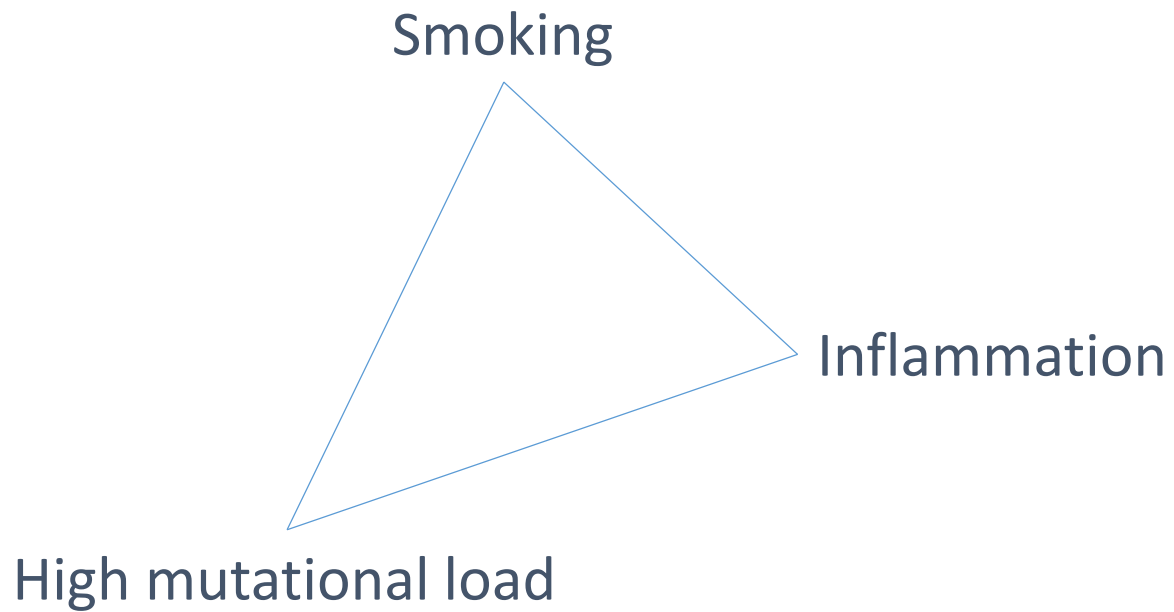
- Overall survival (OS)
- Quality of life (QoL)
- Safety and tolerability

**Patients:** Pancreatic cancer

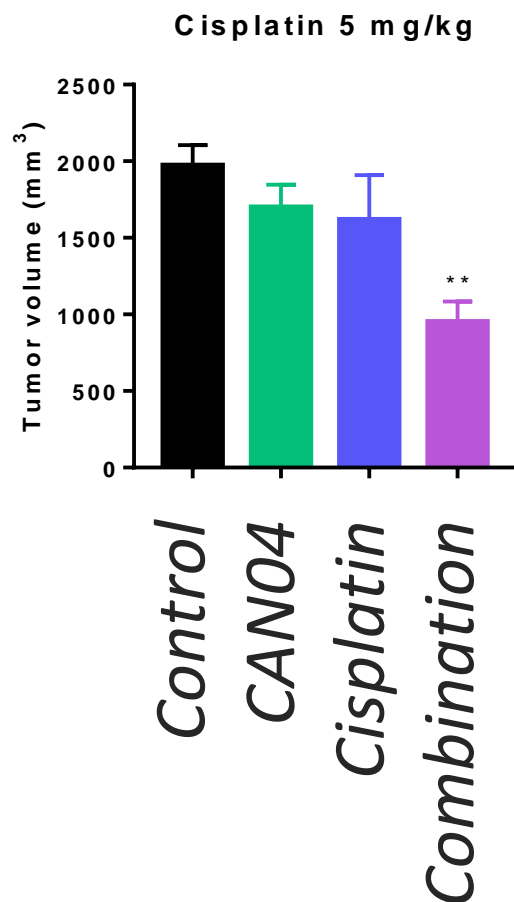
**Size:** N=16

**Regimen:** Day 1, 8 and 21 cycle – 6 cycles

# Non-small cell lung cancer (NSCLC)



# CAN04 in combination with Cisplatin is superior to either agent alone and less toxic in pre-clinical models



|                   | Control              | CAN04       | Cisplatin        | Combination                            |
|-------------------|----------------------|-------------|------------------|--|
| Animals withdrawn | 20 % (Tumor)         | 0 %         | 50 % (Toxicity)  | 20 % (Toxicity)                        |
| Tumor reduction   | N/A                  | 14%         | 18%              | 52 %                                   |
| Comment           | Highest tumor burden | Best safety | Highest toxicity | Superior efficacy and reduced toxicity |

Combination CAN04/Cisplatin superior to individual agents

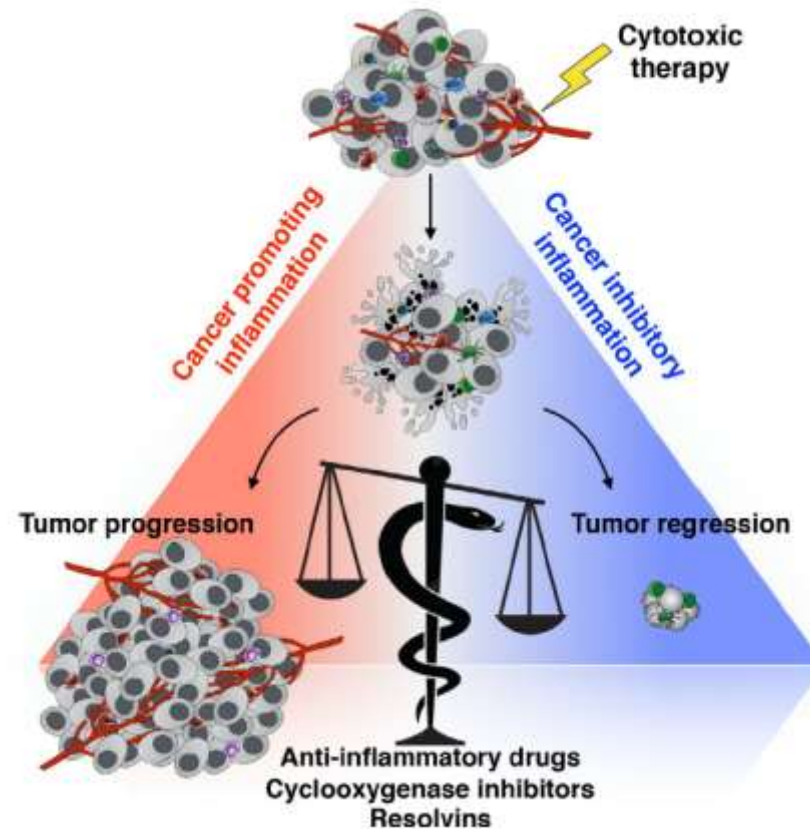
- Reduction in severe toxicity
- Increased efficacy

# Summary

- Tumor inflammation contributes to many of the hallmarks of cancer, is required for tumor development and contributes to resistance to therapy
- IL-1 is involved in tumor growth, metastasis and resistance to therapy
- Therapy resistance can be cancer cell intrinsic or via cells in the TME
- Evidence support the relevance of targeting IL1 in combination with Gemcitabine in PDAC
- Internal preclinical data provides strong support for combining CAN04 with cisplatin in NSCLC



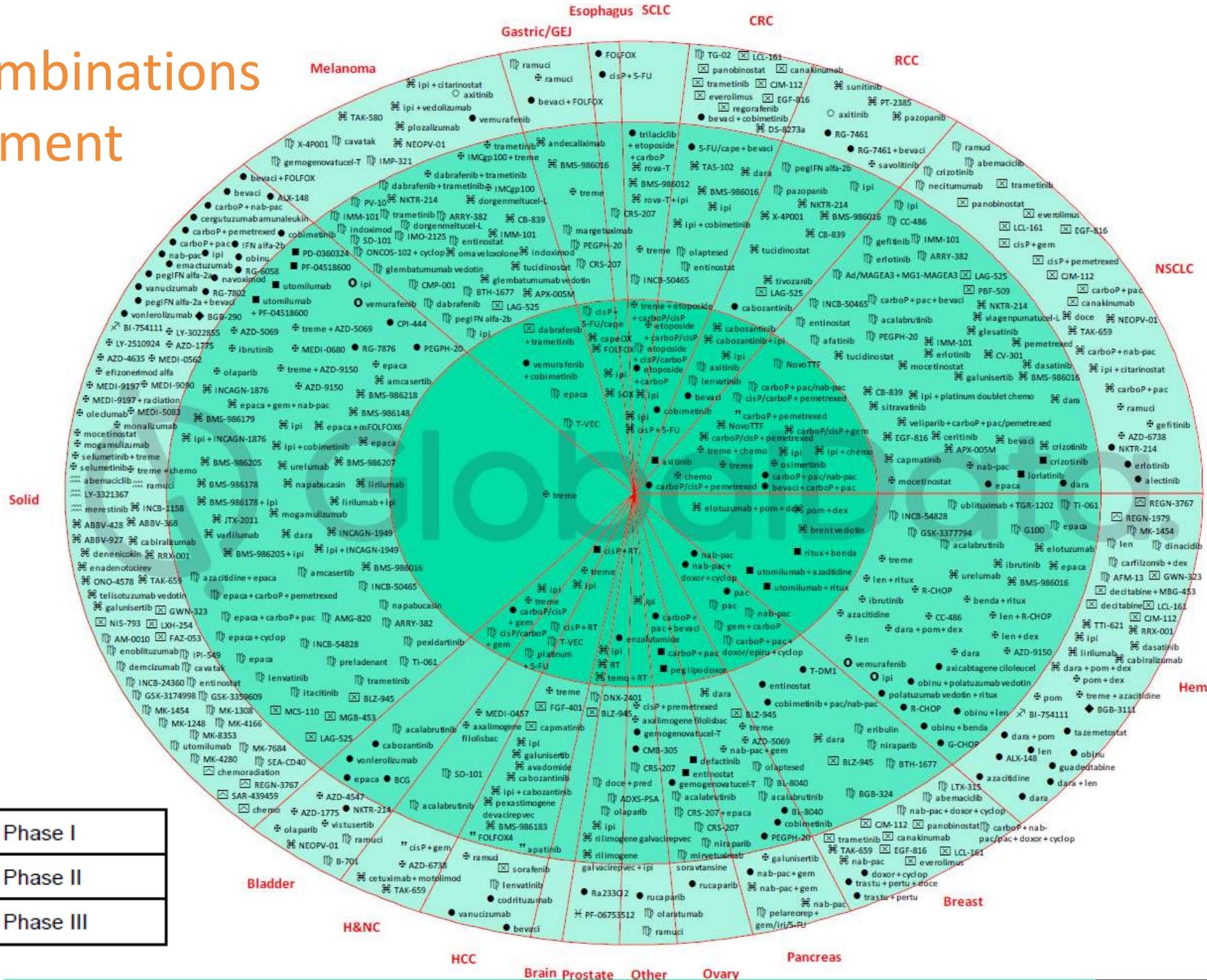
# Good vs bad inflammation – checkpoint inhibitor combinations



Bonavita et.al, Resolving the dark side of therapy-driven cancer cell death, JEM 2017  
Sulciner et.al, Resolvins suppress tumor growth and enhance cancer therapy, JEM 2017



# PD-(L)1 combinations in development



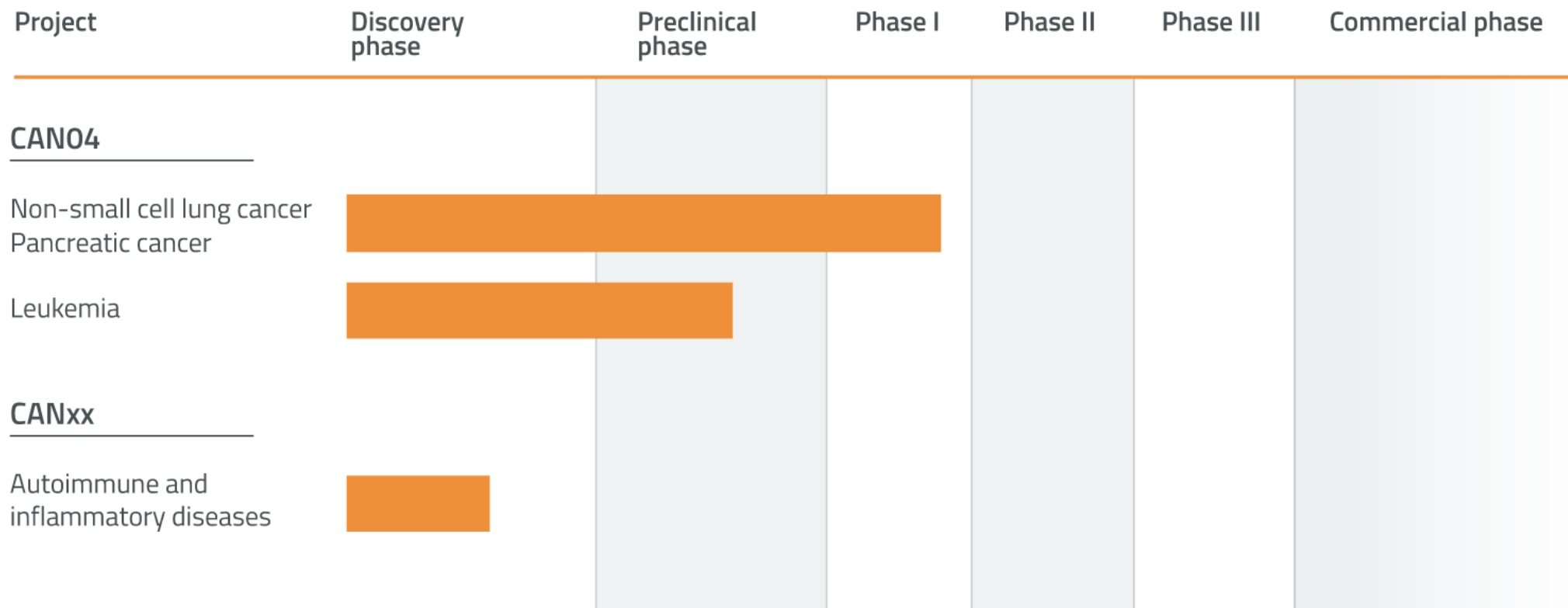
| Legend | PD-(L)1 Base  | Company    |
|--------|---------------|------------|
| ●      | atezolizumab  | RHHBY      |
| ■      | avelumab      | MRK.DE     |
| ◆      | BGB-A317      | BGNE       |
| ⋈      | BI-754091     | B.I.       |
| ○      | CX-072        | CTMX       |
| ⊙      | JS-001        | SH Junshi  |
| ⊖      | LY-3300054    | LLY        |
| ⊕      | nivolumab     | BMJ        |
| ⊗      | PDR-001       | NVS        |
| ⊘      | pembrolizumab | MRK        |
| ⊙      | cemiplimab    | REGN       |
| ⊕      | SHR-1210      | JS Hengrui |
| ⊗      | TSR-042       | TSRO       |
| ⊘      | PF-06801591   | PFE        |

# Combination therapy

- Synergistic effects:  $1 + 1 = 3$
- Additive effects:  $1 + 1 = 2$
- Variability effects:  $1 + 1 = 1,5$



# Cantargia pipeline



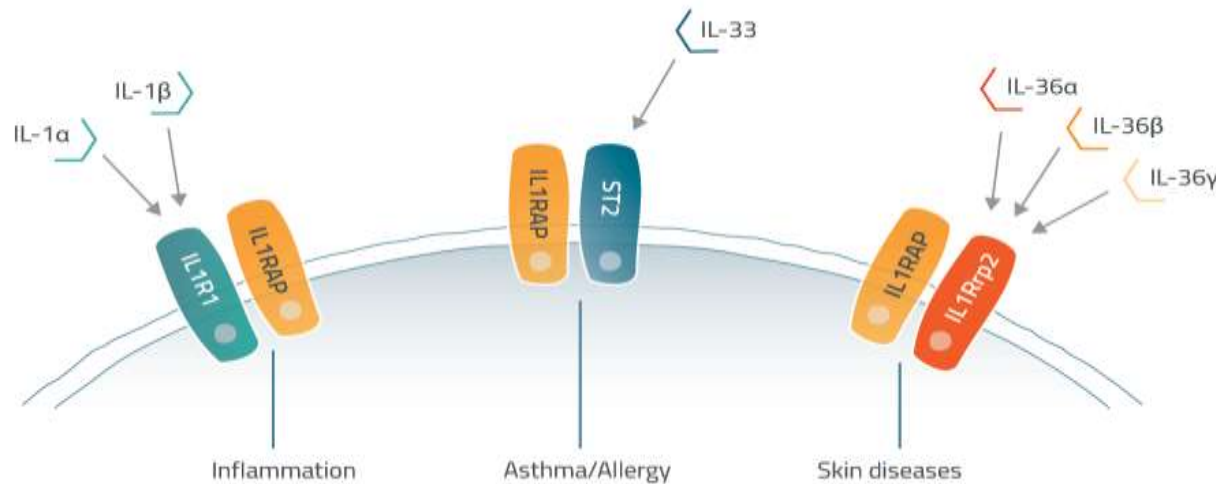
# CANTOS additional findings (from Novartis IL-1 $\beta$ antibody)

| CANCER decreased risk of death with treatment (high dose) |        |          |  |
|---|--------|----------|--|
| Lung cancer   | 77 %   | P=0.0002 |  |
| Non-lung cancer   | 37 %   | P=0.06   |  |
|   |        |          |  |
| Decreased incidence of inflammatory disease (all doses)   |        |          |  |
| Arthritis   | 32%    | p<0.0001 |  |
| Osteoarthritis  | 28%    | P=0.0005 |  |
| Gout  | 53%    | p<0.0001 |  |
| Cardiovascular  | 12%    | P=0.02   |  |
|   |        |          |  |
| Biomarker levels (reduction)                              |        |          |  |
| CRP   | 26-41% | P<0.0001 |  |
| IL-6  | 25-43% | P<0.001  |  |



# IL1RAP - additional potential indications to leverage the value of our asset

- Three different systems signal through IL1RAP
- These systems contribute to various inflammatory diseases
- Can be blocked by Cantargia's antibodies against IL1RAP



Cantargia partnership with Panorama Res Inc (Sunnyvale, CA)  
Selection of clinical candidate 2019

# Significant value inflection points ahead

## 2018

- Preclinical data (immuno-oncology effects, combinations etc)
- Phase I clinical data final dose level (Q4 2018)
- Initiation of Phase IIa portion of the clinical trial (Q4 2018)
- US regulatory and clinical strategy

## 2019/2020

- Clinical progress and Phase IIa results
- Preclinical progress
- CANxx progress

# Cantargia summary

- Lead candidate antibody CAN04 in clinical trials against cancer
  - Encouraging interim phase I data
  - Double mechanism of action
  - Initial development in NSCLC and pancreatic cancer (cancer forms with poor prognosis)
  - Direct effects on tumor cells and tumor microenvironment
  - Recent external validation of pathway
- Second generation antibodies for autoimmune disease
- Unique and strong IP
- Strong lead investors with high competence and well known track record
  - Funding through phase IIa - until mid 2020.