

### **THANK YOU TO OUR WEBINAR SPONSORS**







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### **THANK YOU TO OUR CURRENT SCIENTIFIC & MEDICAL AFFAIRS INDUSTRY MEMBERS**





















### **HOW TO PARTICIPATE**



### Please enter questions in the Q&A box.

Our panelists will take your questions and comments at the end of the discussion.



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### **HOW WE'RE TAKING ON PANCREATIC CANCER**



Research and Clinical Initiatives



Government Advocacy



Patient Services



Community Engagement



### PanCAN's STATEMENT REGARDING CLINICAL TRIALS

Pancreatic cancer patients who participate in clinical research have better outcomes. Every treatment available today was approved through a clinical trial. The Pancreatic Cancer Action Network strongly recommends clinical trials at diagnosis and during every treatment decision.



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# PANCREATIC CANCER © CLINICAL TRIALS



Kian Lim MD, PhD
Associate Professor
Director, GI Oncology Program
Washington University School of Medicine
St. Louis, Missouri
Precision Promise Principal Investigator

### **AGENDA**

Overview of the current treatment strategies in pancreatic cancer

### Clinical trials

- Why do we need clinical trials?
- How do clinical trials work?
- Common myths/misconceptions about clinical trials

Novel clinical trials based on new understanding of pancreatic cancer

- Innovative clinical trials
- An example of a patient being treated on a clinical trial
- Take home messages



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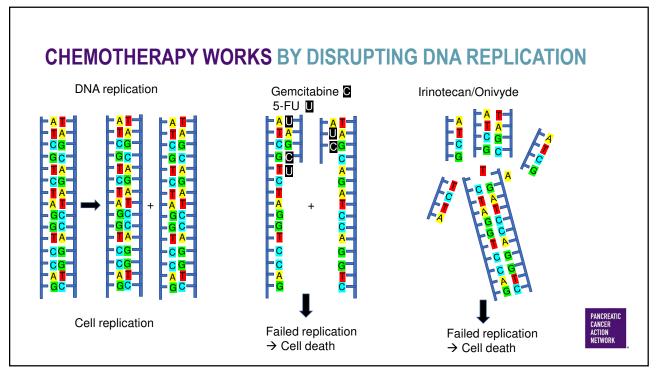
### **CURRENT TREATMENT FOR PANCREATIC CANCER**

STAGE	TREATMENT
Localized / resectable	Surgery → chemotherapy→ radiation(?)
10%	Clinical trial
Locally advanced Borderline resectable 25-30%	Chemotherapy ± chemoradiation → surgery(?) Clinical trial
Metastatic	Chemotherapy
55-60%	(FOLFIRINOX, Gemcitabine/Abraxane)
	Clinical trial



# CURRENT STATUS: YEAR 2020 FOLFIRINOX or Genicitabine as Adjuvant Therapy for Pancreatic Cancer 7. Corry, P. Harmond, M. Hebbar, M. Barn Addelphan, A. C. Word, J. E. Boad, L. Chard, E. Francis, P. Arris, J. J. Bard, L. Chard, E. Francis, P. Arris, J. C. Corpys, P. Karmon, R. Terrena, E. Boubler, Lyenering, F. Shermes, A. Sourges, C. J. Chard, J. J. Word, J. Man, J. Chard, J. B. Barden, S. Gorgo, C. J. Chard, P. R. D. Challer, F. B. D. Challer, F. B. D. Challer, F. B. D. Challer, J. E. Barden, F. B. D. Challer, F. B. D. Challer, F. B. D. Challer, J. B. Erdent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, D. Chard, J. W. B. B. Chard, B. B. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Bardent, S. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, A. Gorgo, C. J. Challer, C. Jorgin, P. Shermes, J. L. Charler, C. Bardent, J. L. Charler, C. J. Challer, J. Challer,

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### CHEMOTHERAPY IS HEAVILY USED IN PANCREATIC CANCER

Early stage: surgery→ chemotherapy

Advanced stage: Chemotherapy (FOLFIRINOX, Gemcitabine/Abraxane)

### Limitations:

- -side effects: nausea, vomiting, diarrhea, neuropathy, low blood counts, hair loss, loss of appetite, taste change, infection, etc.
- -doesn't work for a long time
- -doesn't work in every patient











### We need to improve our treatments

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### **NECESSARY ELEMENTS TO IMPROVE PATIENT CARE**

### Clinical aspect: optimization of care

- Pancreatic cancer patients are faced with many challenges
  - pain, weight loss, poor appetite, jaundice, bowel obstruction, ascites
  - side effects from chemotherapy
  - · fear, frustration, helplessness, loneliness, guilt for burdening others
- · A multimodality team is needed
  - surgeons, medical oncologists, radiation oncologists, interventional gastroenterologists, interventional radiologists, pain specialists, nutritionists, nurses, psychologists, patient support groups

### Research aspect: development of more effective treatment

- Scientific research to develop new treatment strategies in the lab
- Clinical research to bring new treatment to patients: Clinical trials



### **CLINICAL TRIAL PARTICIPATION**

- Clinical trial participation is critical for us to make progress in fighting cancer
- Patients do better on clinical trials than on standard therapy closer oversight
- Access to cutting-edge therapies
- Clinical trial participation is generally low
  - Only ~5% of newly diagnosed pancreatic cancer patients are enrolled in clinical trials

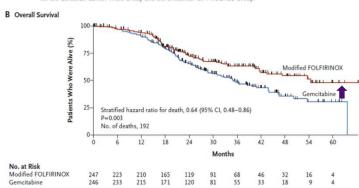


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### **CLINICAL TRIALS FUEL PROGRESS**

### FOLFIRINOX or Gemcitabine as Adjuvant Therapy for Pancreatic Cancer

T. Conroy, P. Hammel, M. Hebbar, M. Ben Abdelghani, A.C. Wei, J.-L. Raoul, L. Choné, E. Francois, P. Artru, J.J. Biagi, T. Lecomte, E. Assenat, R. Faroux, M. Ychou, J. Volet, A. Sauvanet, G. Breysacher, F. Di Fiore, C. Cripps, P. Kavan, P. Texereau, K. Bouhier-Leporrier, F. Khemissa-Akouz, J.-L. Legoux, B. Juzyna, S. Gourgou, C.J. OʻCallaghan, C. Jouffroy-Zeller, P. Rat, D. Malka, F. Castan, and J. B. Bachet, for the Canadian Cancer Trials Group and the Unicancer-GI-PRODIGE Group®



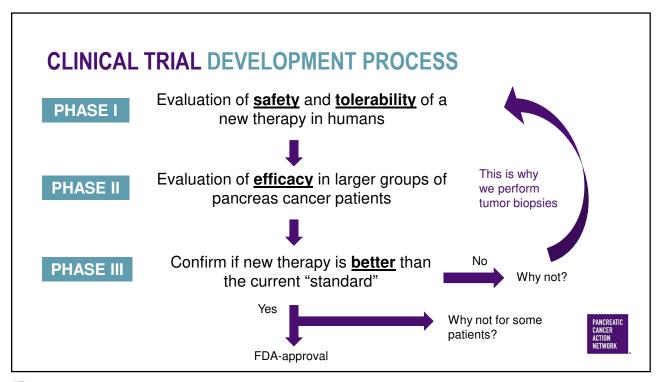
### BUT....

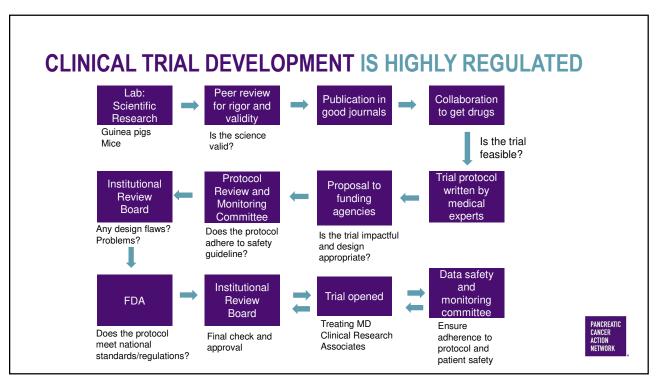
- Study opened for 4.5 years (April 2012 -October 2016)
- Published in December 2018→
   6.5 years
- 77 hospitals in France and Canada

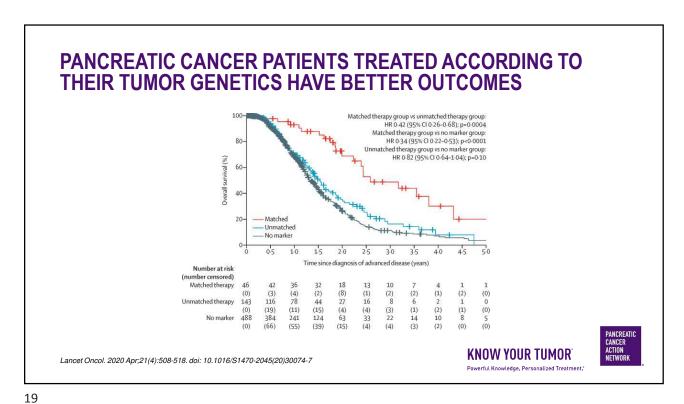
### Can we do better?

- Faster accrual
- · More effective treatments









### COMMON MISCONCEPTIONS/MYTHS ABOUT CLINICAL TRIALS

MYTHS	TRUTHS
Patients are treated as guinea pigs.	Patient safety is a top priority in clinical trials. Patients are closely monitored and have rights that protect them.
Clinical trials are for patients that have run out of options.	A clinical trial is always an option, regardless of when the patient was diagnosed or what treatments they received.
Patients may receive a placebo, not a treatment.	Placebos are never used in replacement of standard of care.
Clinical trials are more expensive for the patient.	Federal law requires most health insurance plans cover the routine care costs of a clinical trial. Research costs are those related to taking part in a trial, which are covered by the trial sponsor.
Participation in clinical trials is not important.	Participation in clinical trials is crucial. Every treatment available today was approved through a clinical trial.



# KNOW OUR ENEMY: WHY IS PANCREATIC CANCER SO DIFFICULT TO TREAT

### **Clinical manifestation**

- · No early symptoms, no screening tools or early detection test
- Anatomically located in a delicate area with a lot of surrounding blood vessels and organs
- · High rate of metastasis when diagnosed

### **Biology**

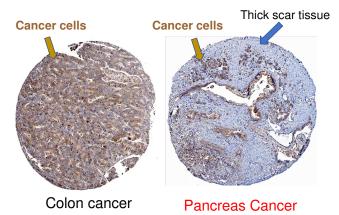
- Powerful genetic defects leading to aggressive behavior Solution: Identify the cancer's genetic vulnerabilities
- Shielded by thick fibrotic/scar tissues and become invisible to our body's immune defense system

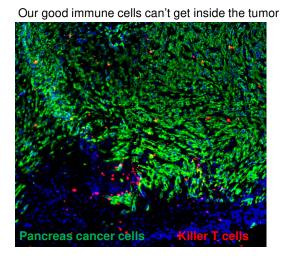
Solution: Innovative clinical trials to unleash our immune defense



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# PANCREAS CANCER CELLS ARE WELL-SHIELDED FROM IMMUNE ATTACK





Adopted from The Human Protein Atlas

## DIFFERENT TREATMENT APPROACHES BEING STUDIED IN CURRENT PANCREATIC CANCER CLINICAL TRIALS

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### **TYPES OF TREATMENT APPROACHES**

- Targeted Therapies
- Immunotherapy
- Metabolism and Nutrition

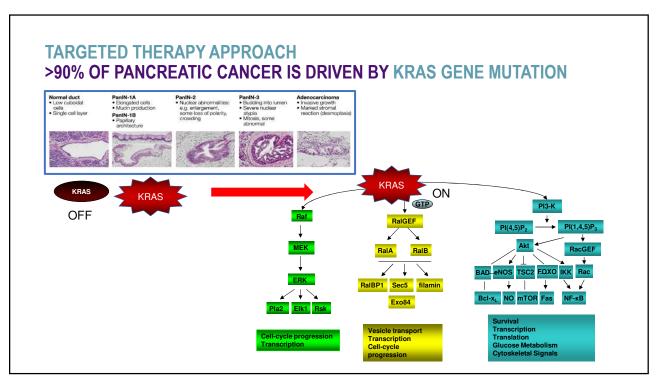
# THE RECALCITRANT CANCER RESEARCH ACT AN IMPORTANT STEP TOWARD IMPROVING PANCREATIC CANCER SURVIVAL

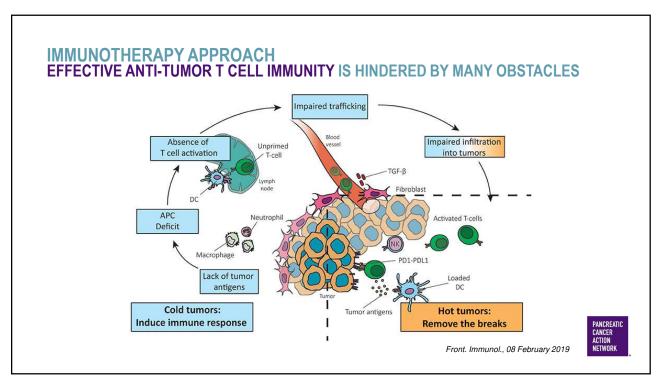
AN ILLI OKTANI STEL TOWAKO ILLI KOVINO LANGKENIG GANGER SOKVI

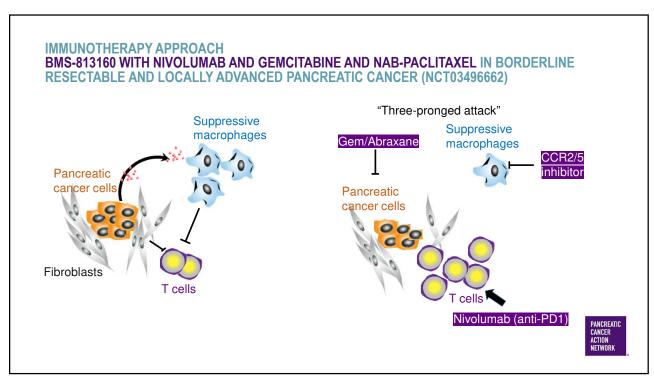
### Four Priorities for Pancreatic Cancer Research

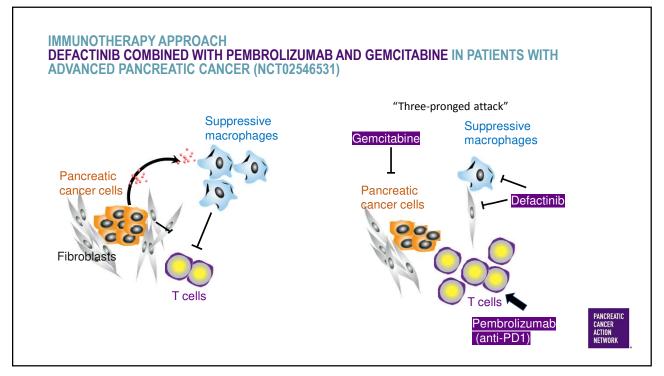
- New therapeutic strategies in immunotherapy
- New treatment approach that interferes with RAS oncogene dependent pathways (Targeted therapies)
- 3. Understanding relationship between diabetes and pancreatic cancer
- 4. Pancreatic cancer biomarker

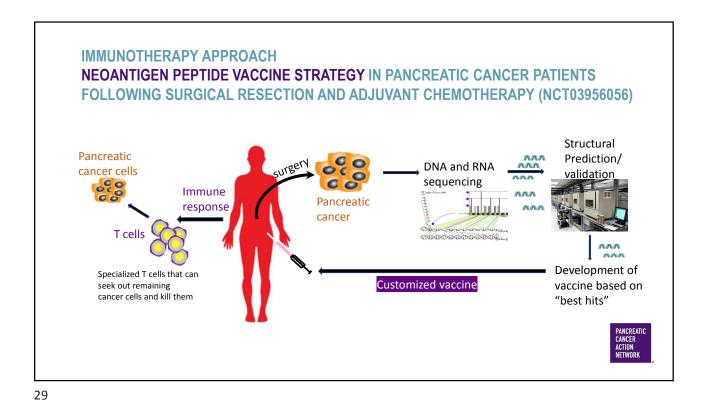












**METABOLISM AND NUTRITION APPROACH SM-88 FOR SECOND LINE TREATMENT** Perelman rv: PFS. ORR. PRO ECOG PS ≤ 1 SM-88 (Racemetyrosine, D/L alpha methyl tyrosine) a dysfunctional amino acid analogue with long intracellular dwell, is preferentially incorporated into cancer cells vs normal. Pancreatic cancer cells Pancreatic cancer cells can be "intoxicated" with scavenge amino acids from dysfunctional surrounding cells Starvation amino acid and Death ACTION NETWORK **Fibroblasts Fibroblasts** 

**INNOVATIVE CLINICAL TRIAL DESIGNS** 

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# PanCAN's PRECISION PROMISE IS AN INNOVATIVE ADAPTIVE CLINICAL TRIAL DESIGN

### PanCAN's PRECISION PROMISE ADAPTIVE CLINCAL TRIAL

Has a unique statistical approach, which allows it to "adapt"

Tests multiple drugs simultaneously

Experimental treatment arms stop if they are not working, or go faster if they are

Only requires 175 patients per experimental arm

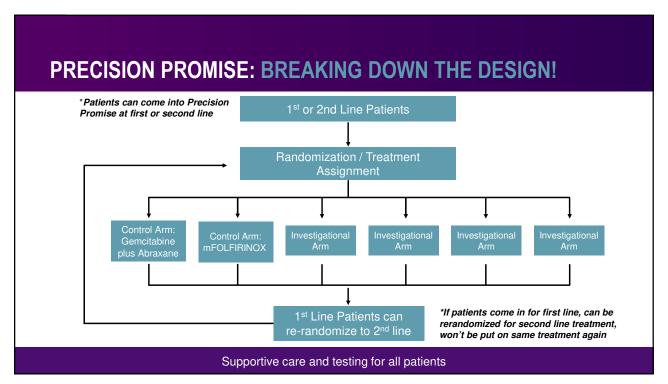
As little as 3.5 years to complete

Patient can receive up to 2 treatments

We learn every step of the way



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## PATIENT STORY ON A CLINICAL TRIAL

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### AN ENCOURAGING EXAMPLE

- 60 y/o woman
- Diagnosed in Sept 2015, pancreatic cancer with liver metastasis. Was told to have 1-1.5 years to live
- Received chemotherapy locally: FOLFIRINOX, Gem/Abraxane
- June 2017: Disease progression (enlarging liver lesions)
- Local oncologist recommended hospice or clinical trials
- Came to Siteman Cancer Center
   Clinical trial: Gemcitabine + defactinib + pembrolizumab







**Before** 



After 3 cycles

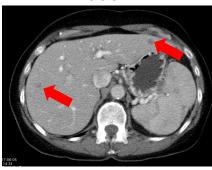






### ...SEVERAL LIVER METASTASES DISAPPEARED!!

Before



After 3 cycles



She stayed on treatment for 1 year

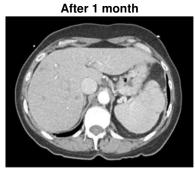






TYME study: now available on PanCAN's Precision Promise





She stayed on treatment for close to 1 year

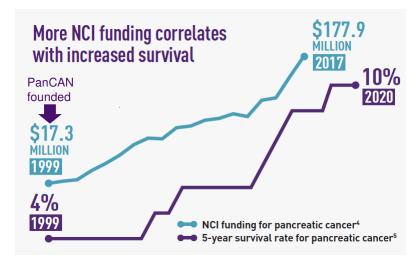




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# CONCLUSIONS

# INCREASED RESEARCH INVESTMENT AND CLINICAL TRIAL PARTICIPATION IMPROVE SURVIVAL



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### TAKE HOME MESSAGES

- Pancreatic cancer is very challenging, but with more research and clinical trial enrollment, we are seeing improvement
- Your support and participation in clinical trials is key to success
- Clinical trials may not always work, but we learn new lessons from every patient that participates, which is critical to improving treatments.
- Researchers, clinicians, patients, families, advocates from all over the country need to team up and work together → PanCAN
- We TRULY appreciate your participation!



### **HOW TO PARTICIPATE**



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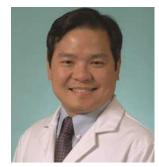


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### WE WELCOME YOUR QUESTIONS



Julie Fleshman, JD, MBA PanCAN, President and CEO



Kian-Huat Lim, MD, PhD Siteman Cancer Center Washington University Precision Promise Principal Investigator



# JOIN US IN NOVEMBER FOR PANCREATIC CANCER AWARENESS MONTH

**Save the Date** November 19 at 11AM PT / 2PM ET (World Pancreatic Cancer Day!) for our one-hour live Q&A with PanCAN CEO Julie Fleshman and leading experts to learn more about recent advancements in pancreatic cancer research and PanCAN's investment in research.



Julie Fleshman, JD, MBA PanCAN President and CEO



Lynn Matrisian, PhD, MBA PanCAN Chief Science Officer



Andrew Hendifar, MD, MPH
Medical Director of Pancreatic Cancer
at Cedars-Sinai Medical Center
Precision Promise Steering
Committee and Principal Investigator



Thomas George, MD, FACP Director of the GI Oncology Program at the University of Florida Health Cancer Center Precision Promise Principal Investigator



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### **CONTACT PanCAN'S PATIENT SERVICES**

If you or a loved one has pancreatic cancer, contact PanCAN's Patient Services at 877-2-PANCAN or patientcentral@pancan.org

### **877-2-PANCAN**

Monday – Friday, 7 a.m. – 5 p.m. PT patientcentral@pancan.org



