

## Understanding Pancreatic Cancer: Current Research

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## Pancreatic Cancer Research

“I think if you do something and it turns out pretty good, then you should go do something else wonderful, not dwell on it for too long. Just figure out what’s next.”

Steve Jobs



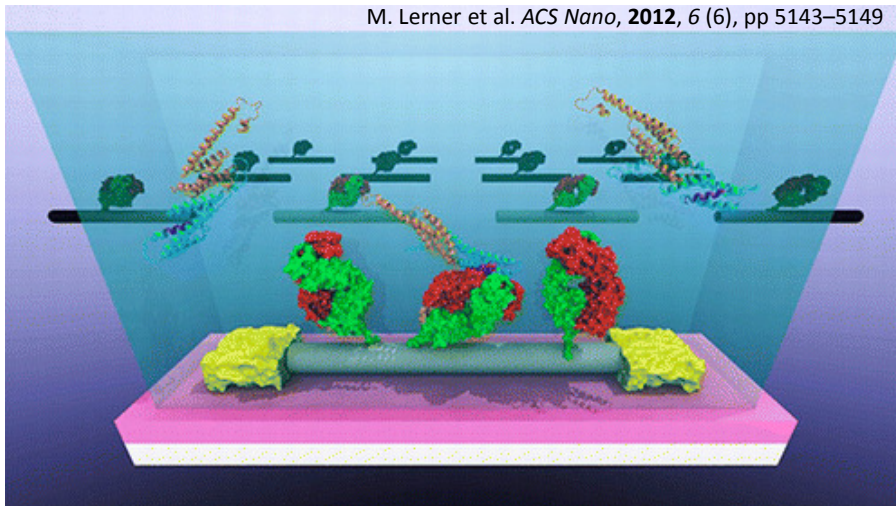
## Pancreatic Cancer Research

- Can we detect pancreatic cancer earlier?
- Can we complement surgery better to improve the chance of cure?
- Can we help those with advanced cancer live long and enjoy a better quality of life?



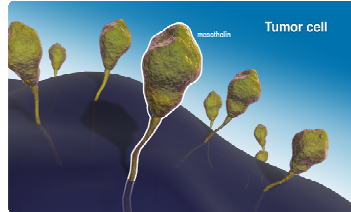
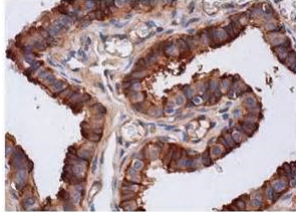
## Pancreatic Cancer Research: Early Detection

M. Lerner et al. *ACS Nano*, 2012, 6 (6), pp 5143–5149



## Pancreatic Cancer Research: Early Detection

Mesothelin+ pancreatic adenocarcinoma



## Pancreatic Cancer Research: Early Detection



Jack Andraka

## Pancreatic Cancer Research

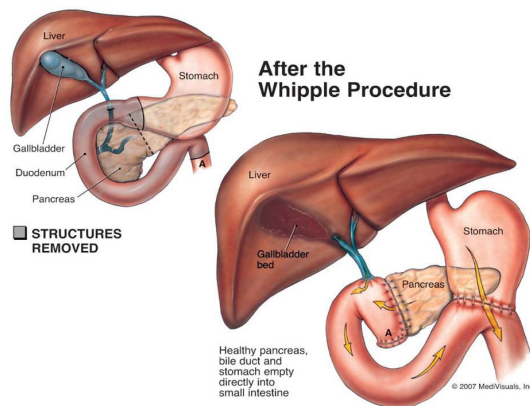
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## Better Surgical Cure?

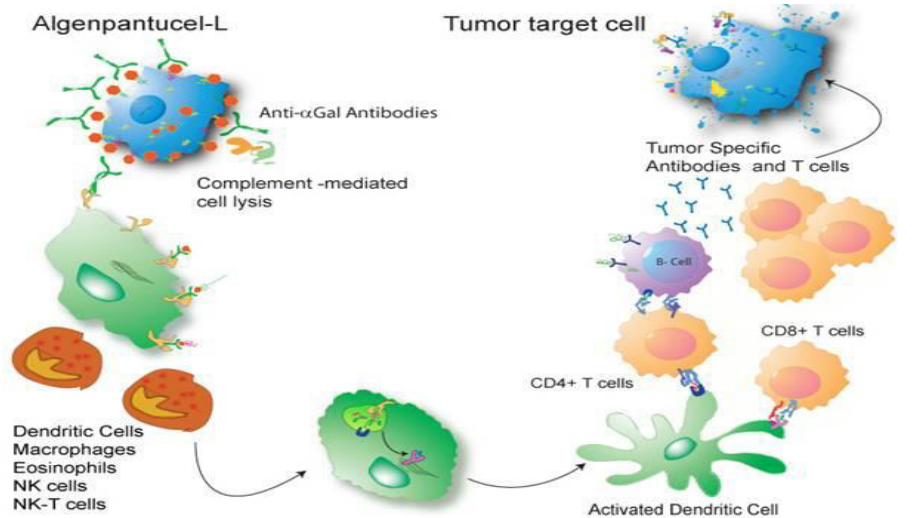


## Better Surgical Cure?





## Better Surgical Cure? PILLAR Study: HyperAcute Pancreas

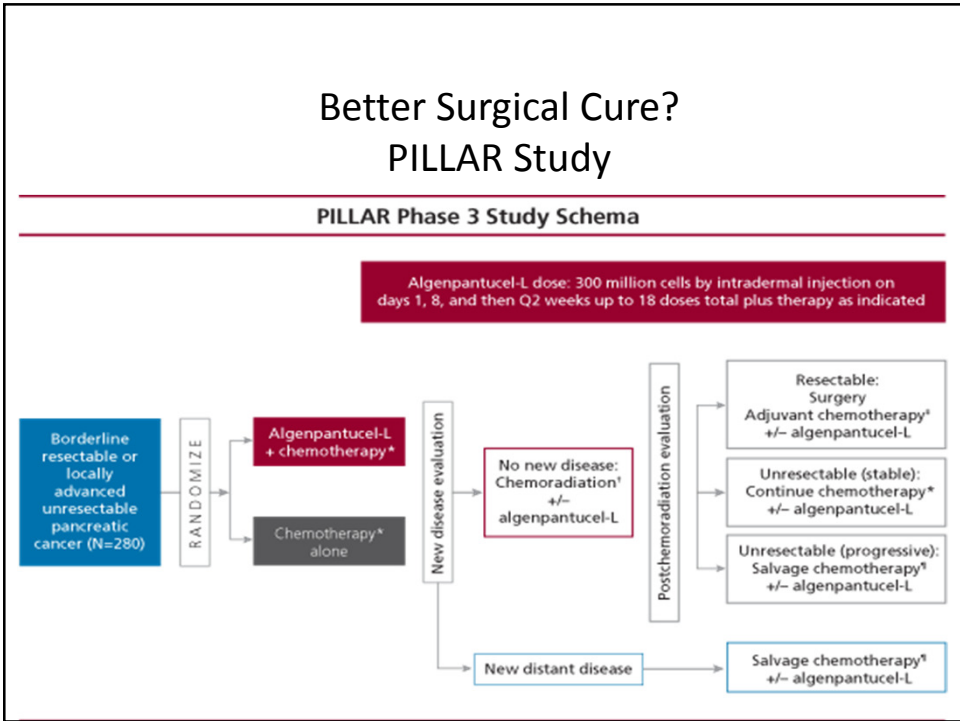
G Rossi et al. Proc ASCO Annual Meeting 2013



## Better Surgical Cure? HyperAcute-Pancreas (Algenpantucel-L)

- Phase 2 study:
  - Algenpantucel-L in combination with standard chemotherapy and radiation therapy after surgery
  - 26 % free of cancer and 36% surviving at 3 years after surgery G Rossi et al. Proc ASCO Annual Meeting 2013
- Phase 3 IMPRESS Study:
  - Standard chemo and radiation versus standard therapy in combination with Algenpantucel-L
  - Study completed late 2013; results awaited.

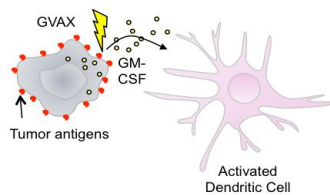


## Pancreatic Cancer Research

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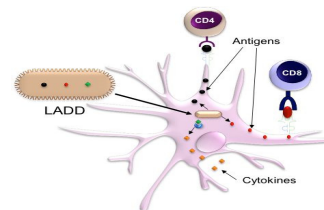
## Living Longer and Better Despite Cancer: ECLIPSE Study



GVAX Pancreas "Prime"



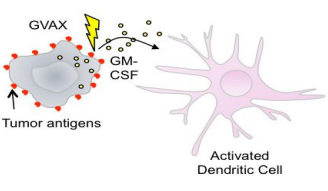
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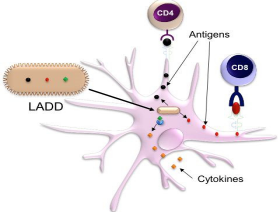
CRS-207 / attenuated Listeria "Boost"



## Living Longer and Better Despite Cancer: ECLIPSE Study

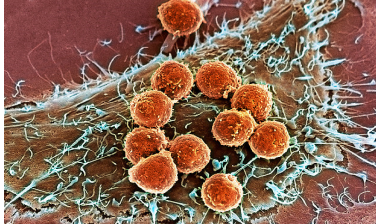



GVAX Pancreas "Prime"




CRS-207 / attenuated Listeria "Boost"

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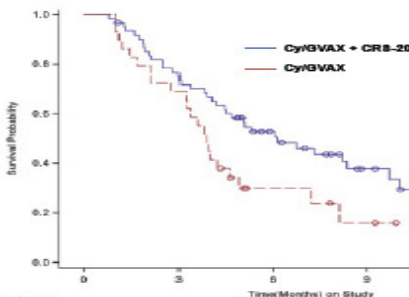




## Living Longer and Better Despite Cancer: ECLIPSE Study

Phase 2 Study Preliminary Data: D. Le et al. Proc ASCO Annual Meeting 2013


**FIGURE 3. OVERALL SURVIVAL – FULL ANALYSIS SET**




Events / n (%)	Median, mo (95% CI)
CyIGVAX + CRS-207 38 / 61 (62)	8.1 (4.2 – 8.7)
CyIGVAX 22 / 29 (76)	3.9 (2.8 – 4.8)

p=0.0132 (one-sided)  
p=0.0284 (two-sided)  
HR 0.6474

Patients at Risk	0	3	6	9	12	15
—	61	45	24	11	2	0
—	29	20	5	2	0	0







## Living Longer and Better Despite Cancer: ECLIPSE Study

Metastatic  
Pancreatic cancer  
Prior standard chemotherapy

GVAX-pancreas +  
CRS-207

CRS-207

Single agent  
chemotherapy

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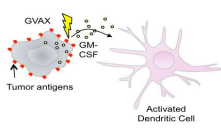
## Living Longer and Better Despite Cancer:

GVAX  
Tumor antigens  
GM-CSF  
Activated Dendritic Cell  
GVAX Pancreas "Prime"

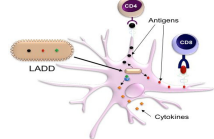
+  
LADD  
CD4  
CD8  
Antigens  
Cytokines  
CRS-207 / attenuated Listeria "Boost"

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Living Longer and Better Despite Cancer:  
PANCAN-AACR Research Acceleration Network Grant 2014




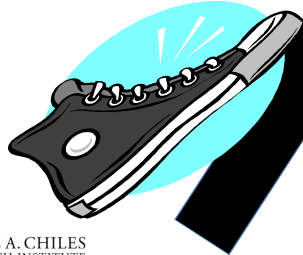
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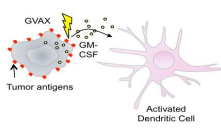
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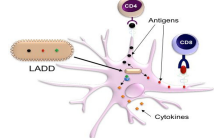
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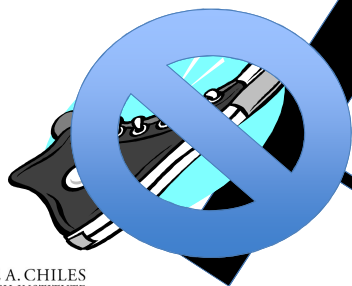
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PANCREATIC CANCER CLINICAL TRIAL PARTICIPATION IN THE U.S. IN 2011

