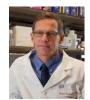


Immune therapy for pancreatic cancer

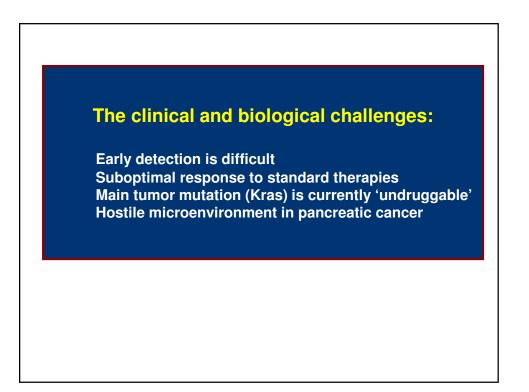
Robert Vonderheide, MD, DPhil

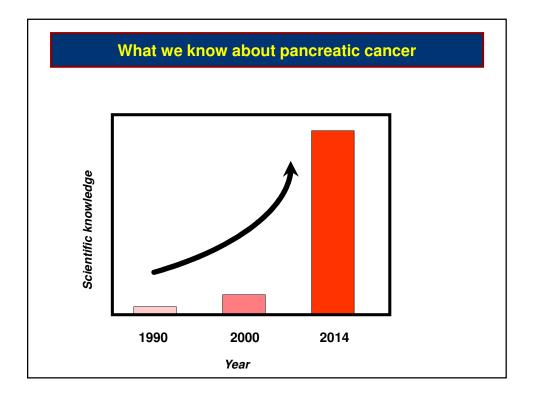
Abramson Cancer Center University of Pennsylania Philadelphia, PA

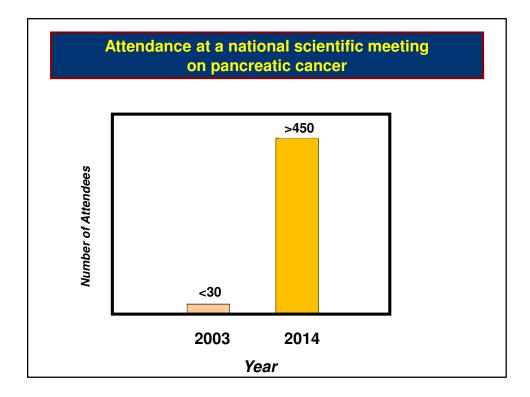


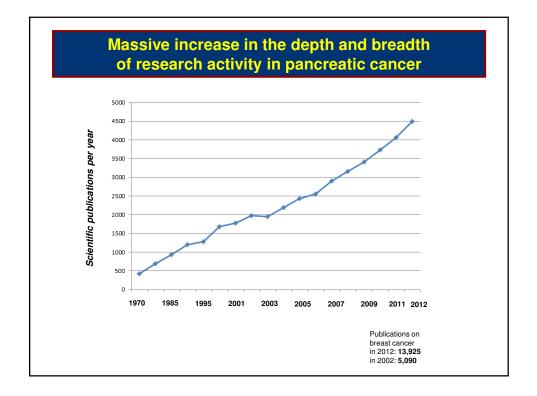
December 16, 2014

Abramson Cancer Center

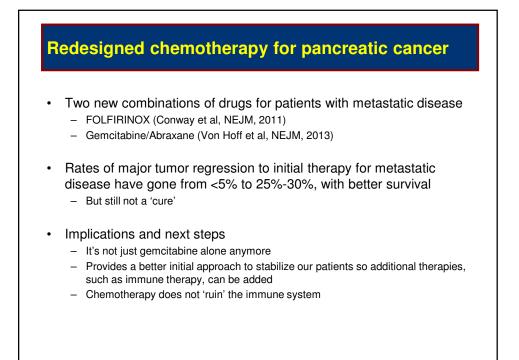


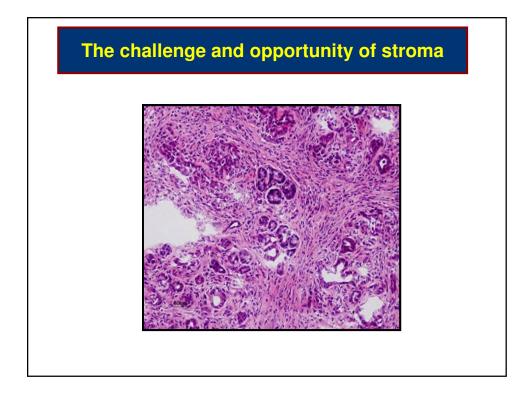


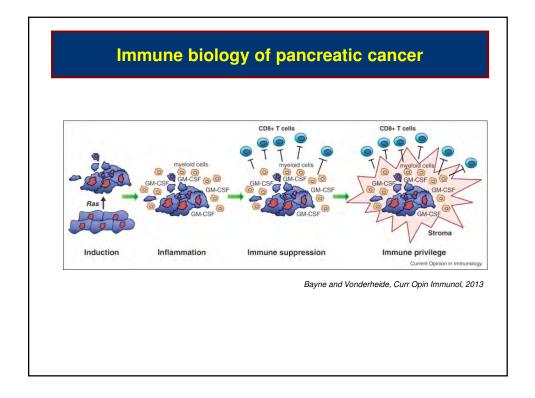






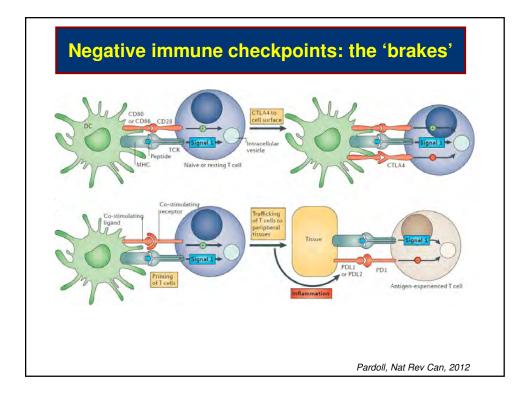


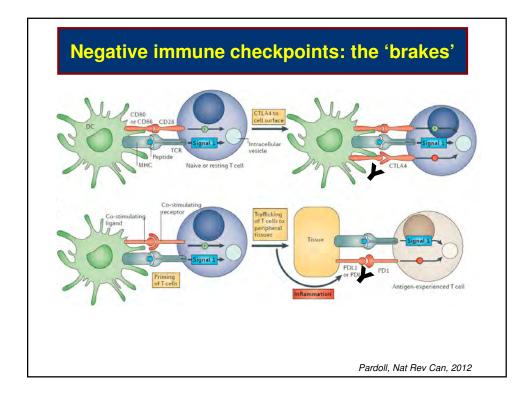


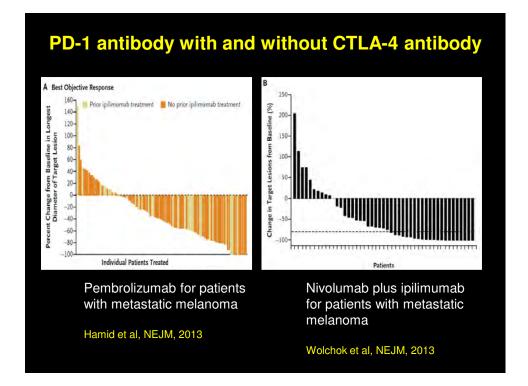


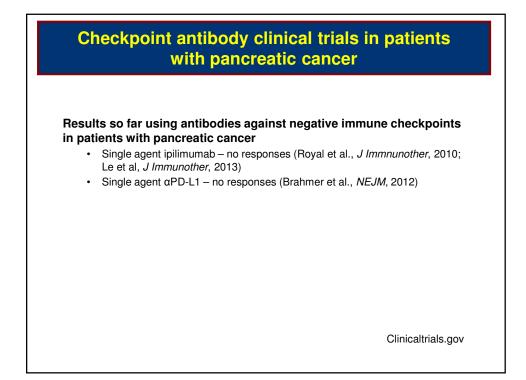
with pancreatic cancer		
	<u>2014</u>	<u>2013</u>
Treatment clinical trials for PDA *	070	005
Open trials	372	385
 Immunotherapy trials 	20	13
Percentage of all trials exploring		
immunotherapy for PDA	5.4%	3.0%
 Same calculation in melanoma: 	22.1%	17.0%
Same calculation in breast cancer:	3.9%	1.0%
* Clinicaltrials.gov, assessed by RHV		
Onnoathais.gov, assessed by Titty		

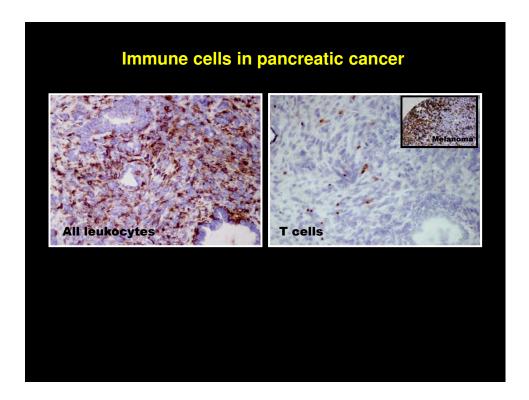


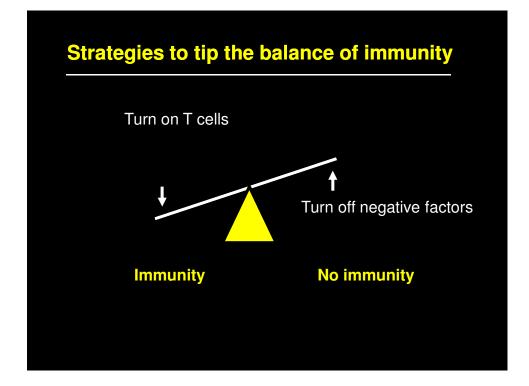


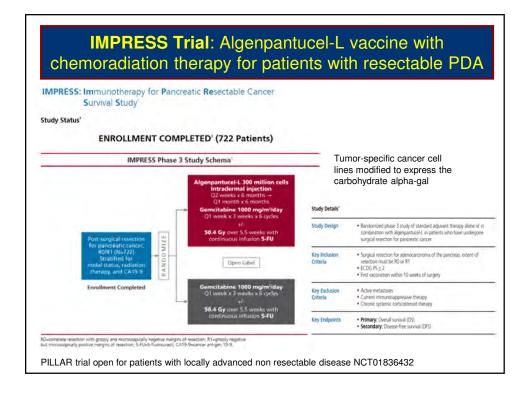


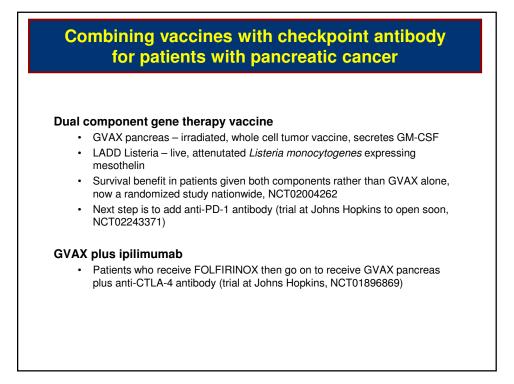


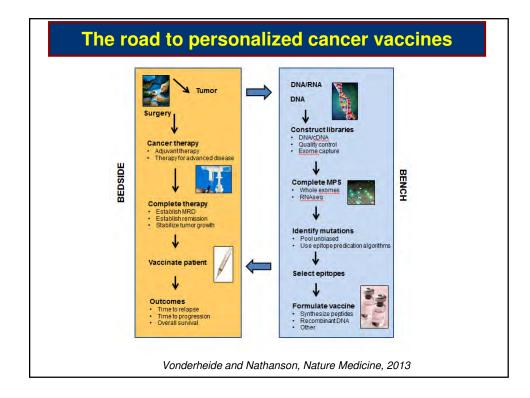


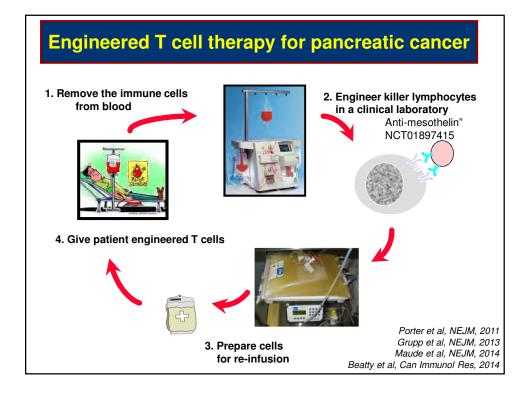




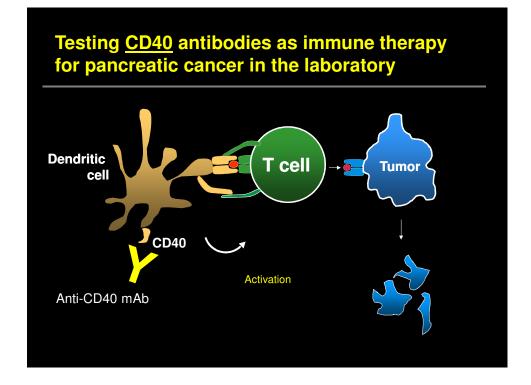


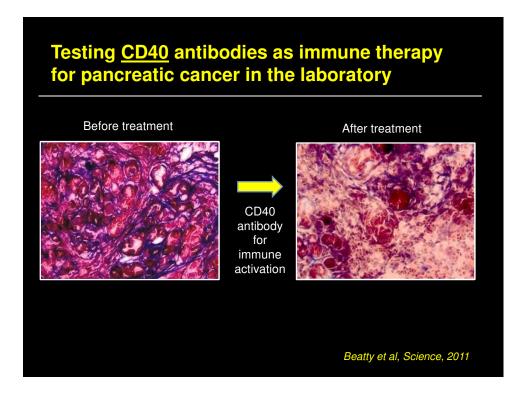


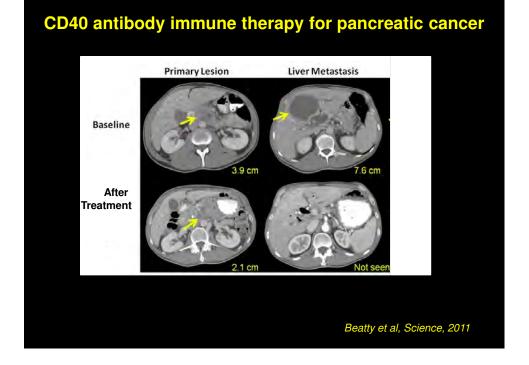






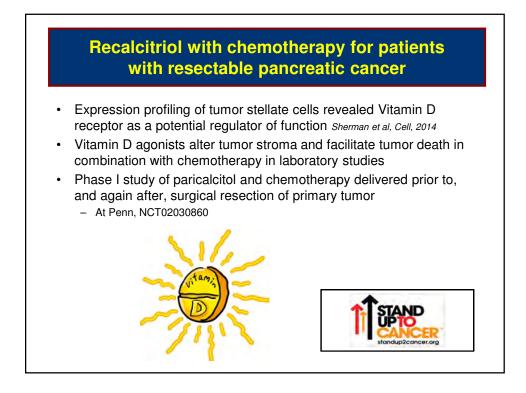






CD40 antibody for patients undergoing surgery To open soon at Penn: Phase I study of preoperative CD40 antibody +/- chemo for patients with newly diagnosed resectable pancreatic carcinoma CD40 antibody +/- Gem/nab-paclitaxel) Safety Gem/nP + CD40 antibody x 4 cycles Dx Resect Outcome 1 15 observe Day Ţ Tissue and blood biomarkers Roche American Association for Cancer Research

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 More than 95% of all patients with pancreation ductal adenocarcinoma have mutations in Krast the tumor There are cooperating mutations but no other common 'driver' mutations 	Oncogenic RAS ODP
 Does mutant Kras caus such immune suppression? 	



