

SITC 2016

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An APC activator (IMP321 or LAG-3Ig) combined with anti-PD-1 blockade

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Society for Immunotherapy of Cancer

#SITC2016

Three groups of patients responding to anti-PD-1 (IFN- γ signature)

- A- Inflamed responders – respond to anti-PD-1
- B- Inflamed non-responders (some infiltrates in the tumor margins but no response)
- C- Non inflamed. “Cold tumor” with no response
 - Optimal checkpoint combos will target groups B and C and help them:
 - Promote cross presentation of tumor antigens
 - Induce T cell recruitment into tumor microenvironment

IMP321 induces a better Tc1 differentiation than sCD40L or TLR agonists

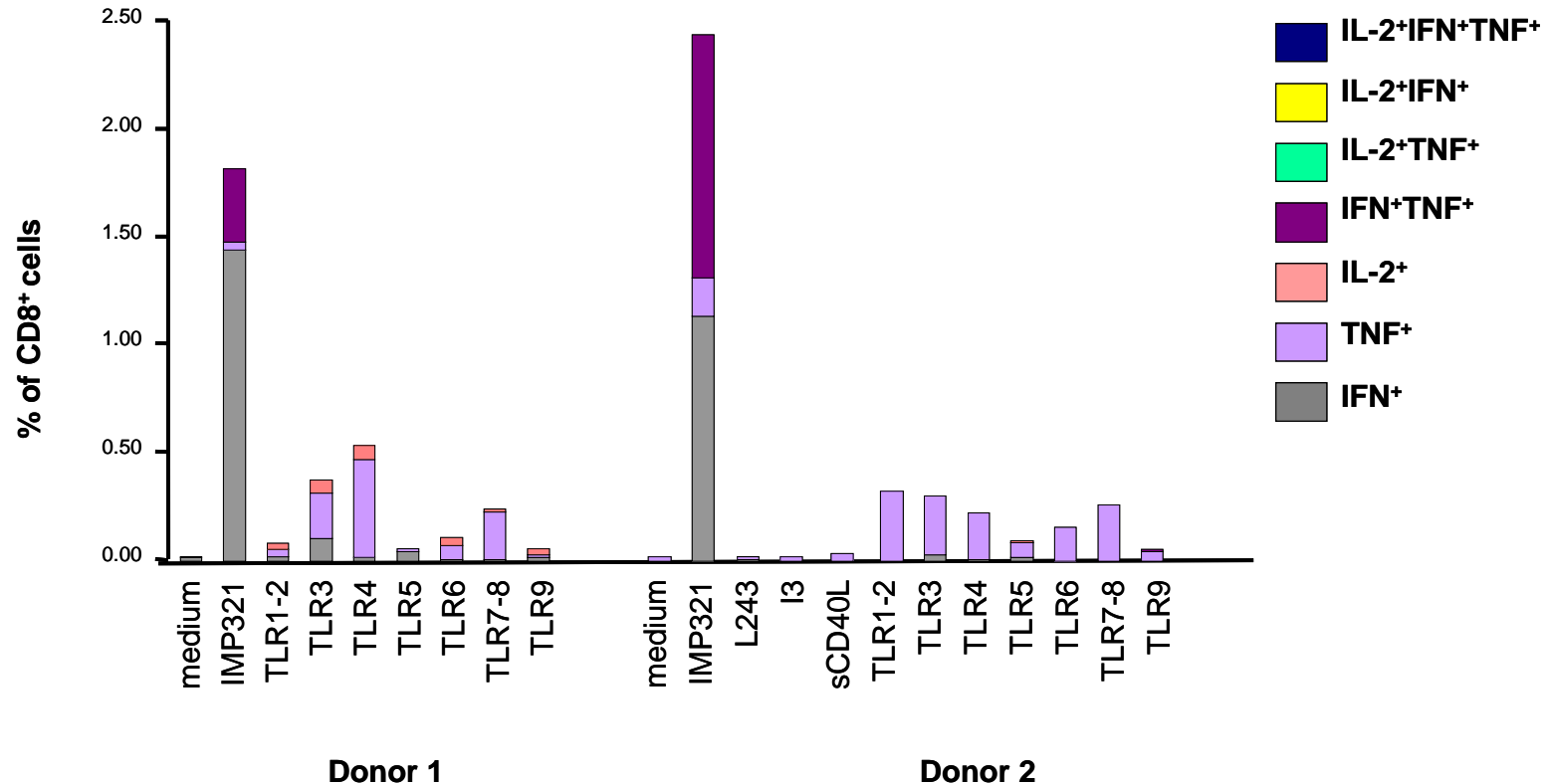
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➤ Human blood lymphocytes are analyzed in a 16 hr *ex vivo* assay

➤ Intracellular staining of CD8 T cells

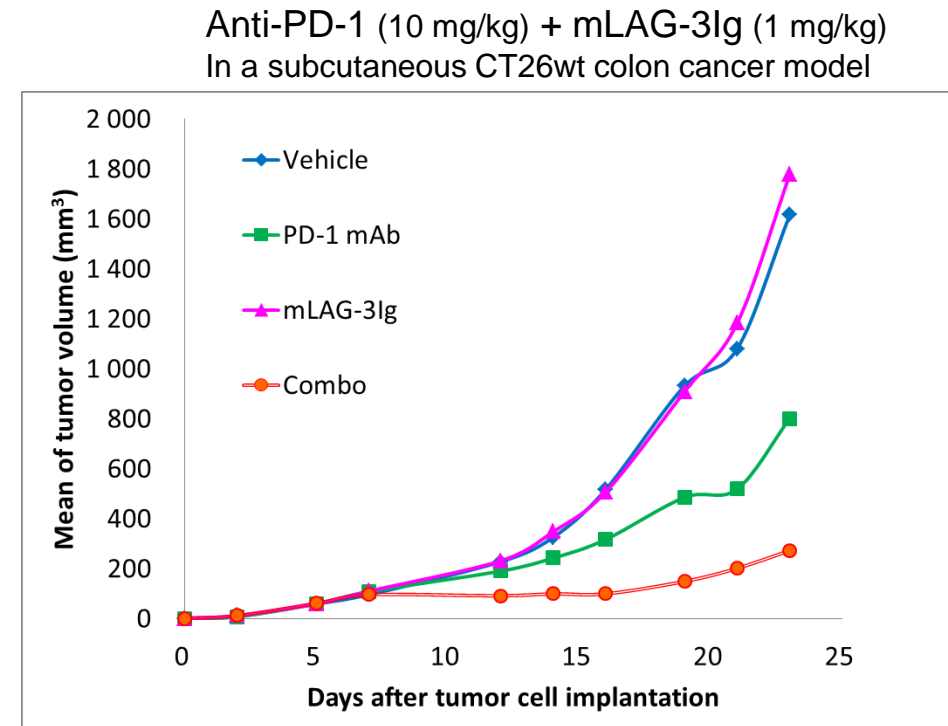
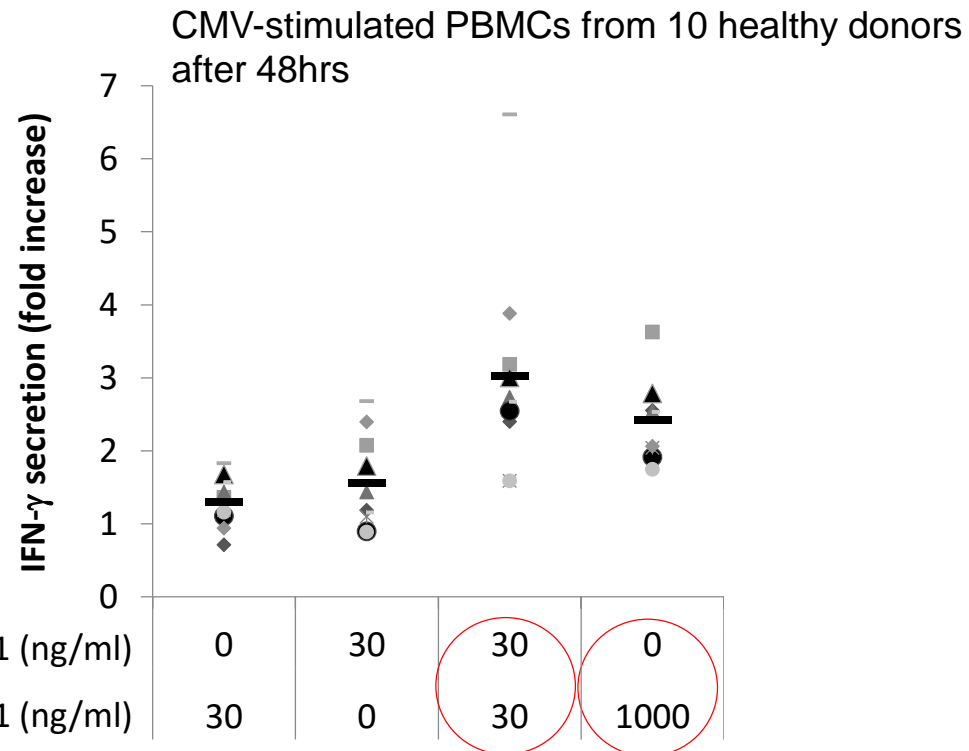
➤ Only IMP321 induces IFN+ CD8 T cell responses

➤ TLR agonists but not IMP321 induce IL-10 production which suppresses Tc1 differentiation



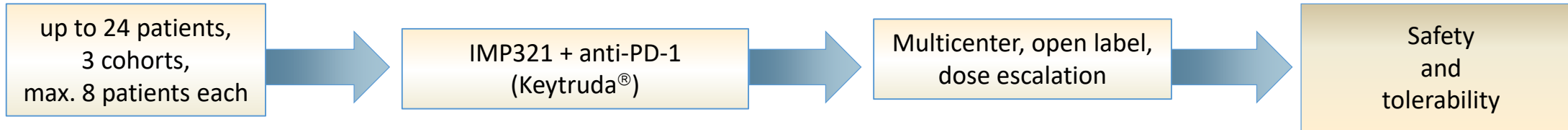
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In vitro and in vivo preclinical data supporting the combination



TACTI-mel: Two ACTive Immunotherapeutics in melanoma

Phase I study in immuno-immuno combination in unresectable or metastatic melanoma in Australia



First patient in May 2016

Design	
Phase I, multi-centre, open-label, dose escalation	
Primary Objective	Safety, tolerability and recommended dose finding for phase II with pembrolizumab + IMP321 in unresectable or metastatic melanoma
Other Objectives	Pharmacokinetic and pharmacodynamic of IMP321, objective response rate, time to next treatment, progress-free survival
Patient Population	Patients with asymptomatic or suboptimal response after three cycles of pembrolizumab
Treatment	Up to 24 patients 3 cohorts: 1/6/30 mg IMP321; s.c. q2w + pembrolizumab; starting with the 5 th cycle of pembrolizumab

Status report

- 6 clinical sites are approved and all are activated
- Dose escalation decision of the interim data of the first cohort is expected at the end of this year



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