# $A_{2 b} R$ Contributes to Adenosine-Mediated Immunosuppression, Which is Relieved by the Dual $A_{2 a} R / A_{2 b} R$ Antagonist AB928 

SITC 2019
Poster P557


Methods
PCREB: A Aluorochrome labelled monoclonal antibody to phosphon(1ated CREB was used to
measure NECA-driven adenosine signaling in whole blood CD8
cells foom clinical trial subiects.



 moDC experiments: Monocyte-deived dendritic cells (moDC) were generated from freshly
 treantiognists. Cells were then
feation (MLR) with CD4 $T+$ cells.




$A_{2 b} R$ is Expressed in Human Tumors and Immune Cells and Correlates with Survival in Metastatic Prostate Cancer







Expression of $A_{2 a} R$ and $A_{2 b} R$ Adenosine Receptors is Diverse and Cell-Type Specifi





Dual $A_{2 a} R / A_{2 b} R$ Antagonism Recovers AdenosineMediated Suppression in moDC




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\mathrm{A}_{26} \text { R Signaling in Cancer Cell Lines Drives Gene }
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Expression Changes Which are Blocked by AB928



Conclusions

- In myeloid cells and $A_{2} R$ R-expressing cancer cell ines. dual $A_{2 \text { I }} R / A_{2} R$ antagonism with $A B 928$ Mrevents adenosineentece induced imma
than $A_{2 R}$ R-selective antagonism. These studies demonstrate
 responses with the dual adenosian
in several Phaselb co cinical t trials.

