**A**

Gated on live CD3+CD4+ T cells

Day -15

- No IMP321: Fold increase of MelanA-specific CD8 T cells = 3.31

- IMP321: Fold increase of MelanA-specific CD8 T cells = 0.94

Day 15

- No IMP321: Fold increase of MelanA-specific CD8 T cells = 11.9

- IMP321: Fold increase of MelanA-specific CD8 T cells = 3.34

Day 30

- No IMP321: Fold increase of MelanA-specific CD8 T cells = 10.8

- IMP321: Fold increase of MelanA-specific CD8 T cells = 2.42

Day 60

- No IMP321: Fold increase of MelanA-specific CD8 T cells = 7.81

- IMP321: Fold increase of MelanA-specific CD8 T cells = 1.78

**B**

Fold increase of Foxp3+CD25+CD4+ T cells

- No IMP321

- IMP321

**C**

Fold expansion of MelanA-specific CD8 T cells vs. Fold expansion of Tregs

- IMP321

- No IMP321

*P < 0.05*