

FIG. 1

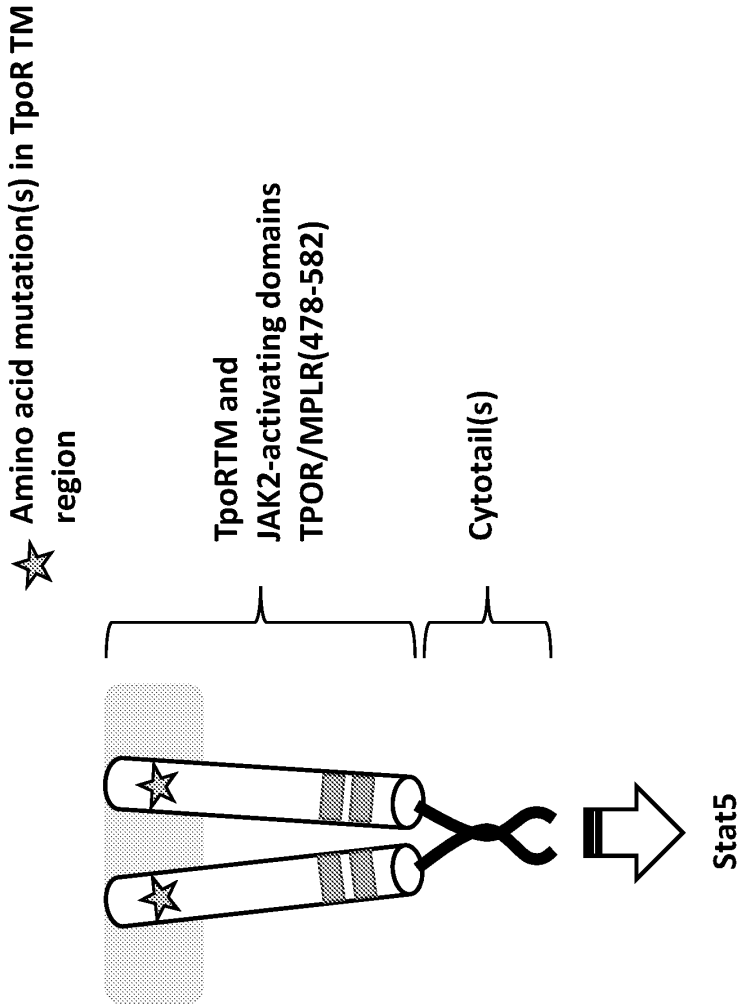


FIG. 2A

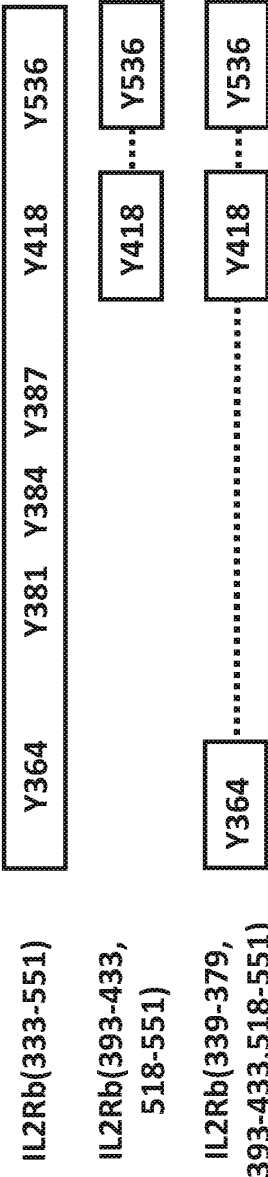


FIG. 2B



FIG. 2C

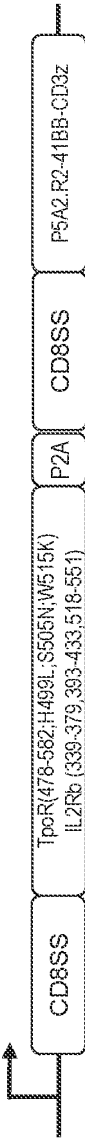


FIG. 2D



FIG. 3A

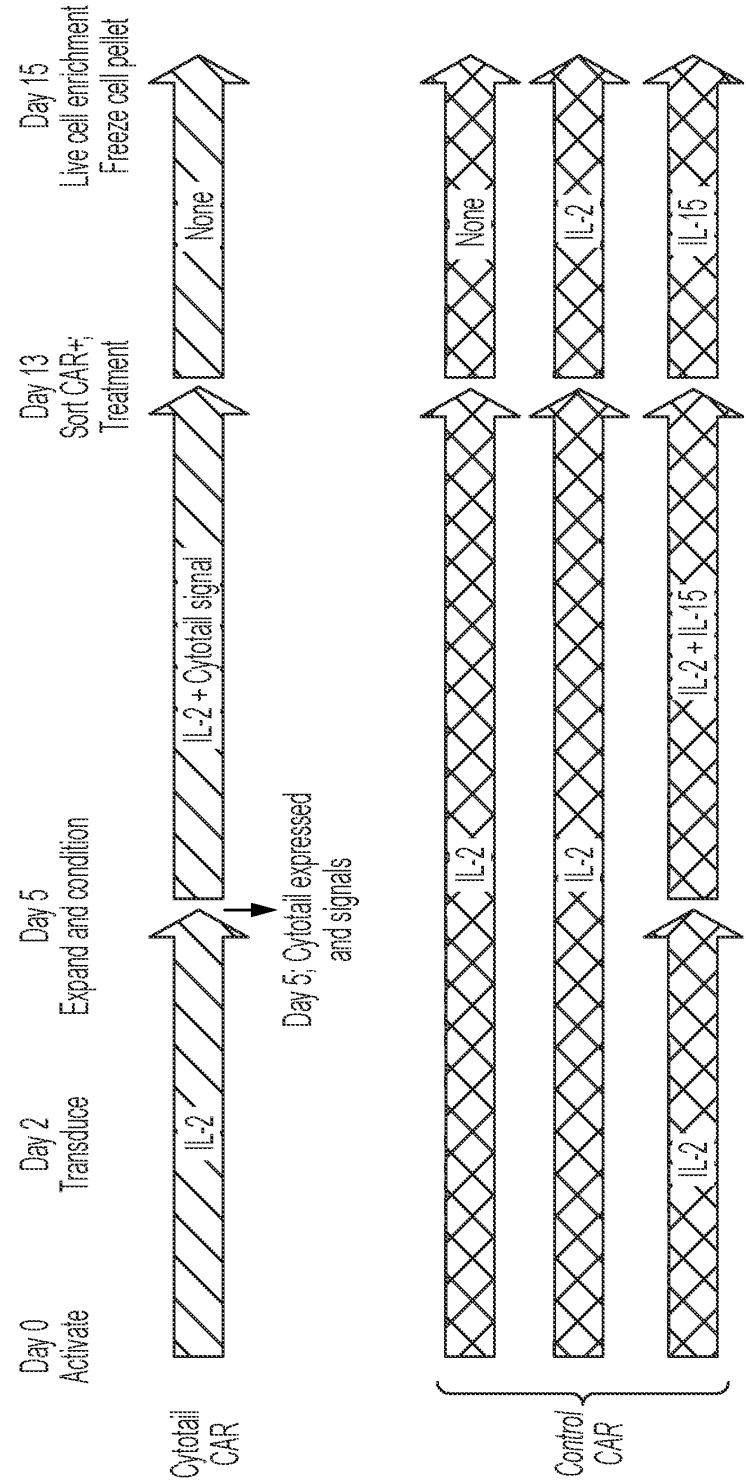


FIG. 3B

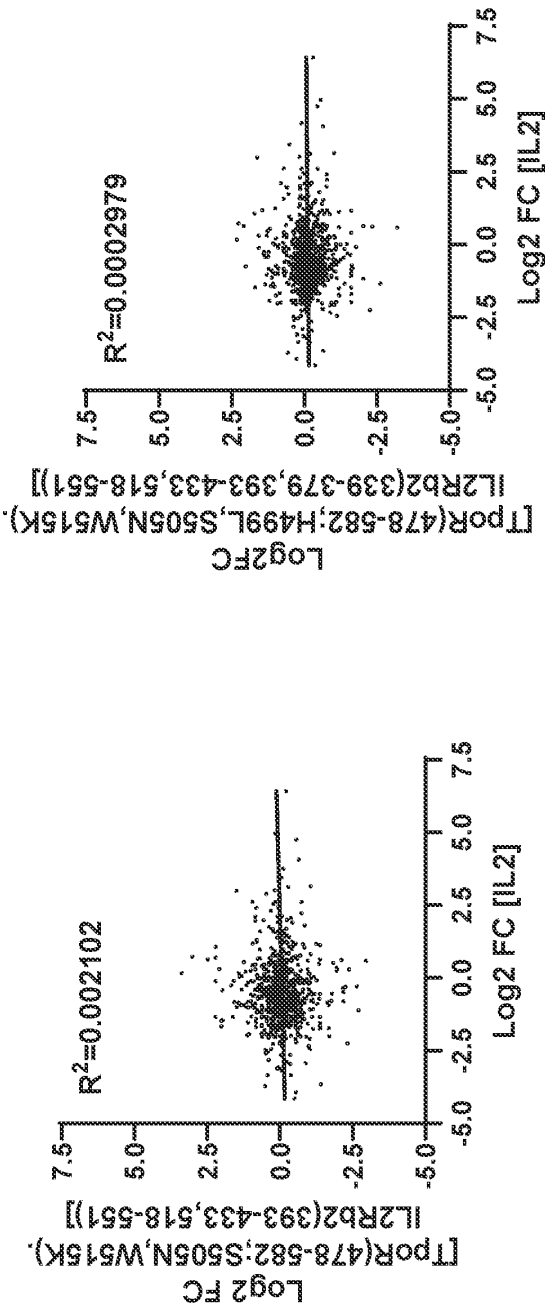


FIG. 3C

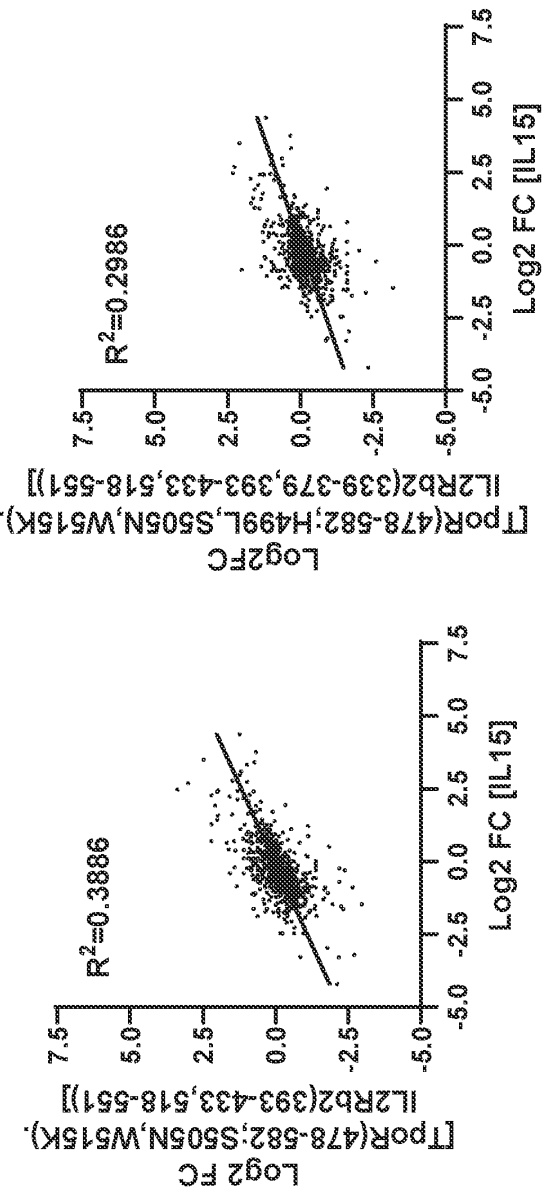


FIG. 4

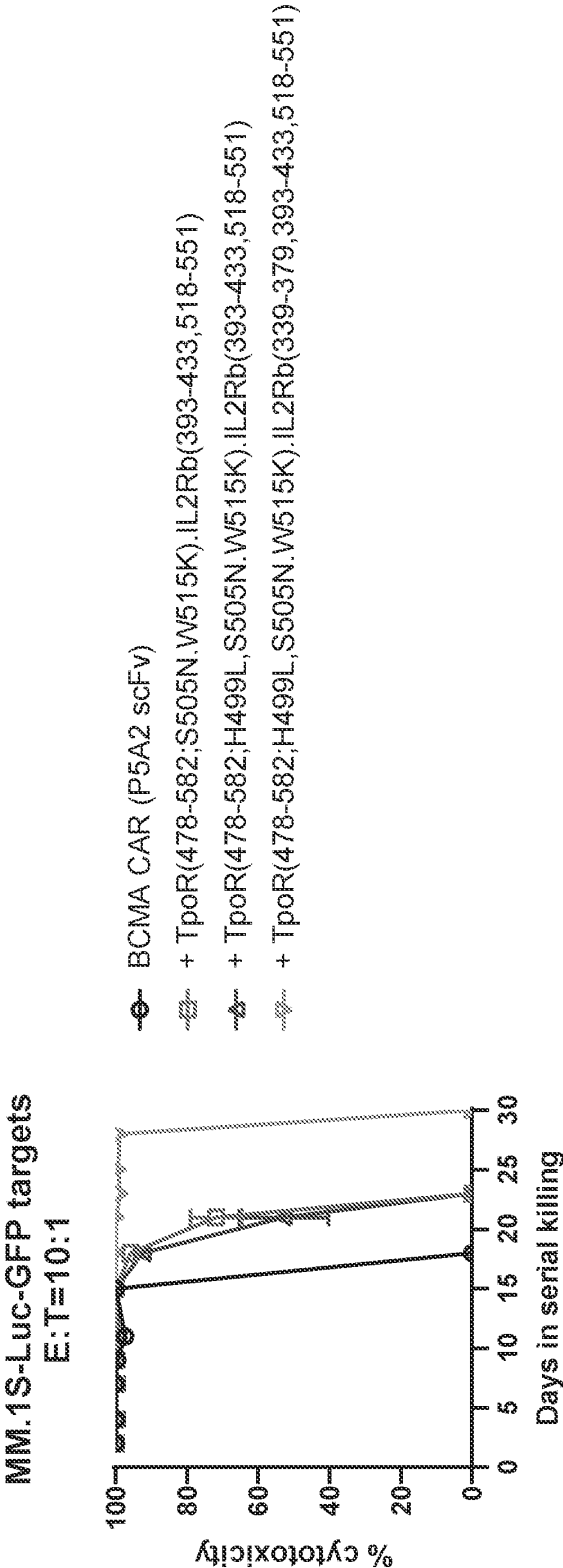


FIG. 5A

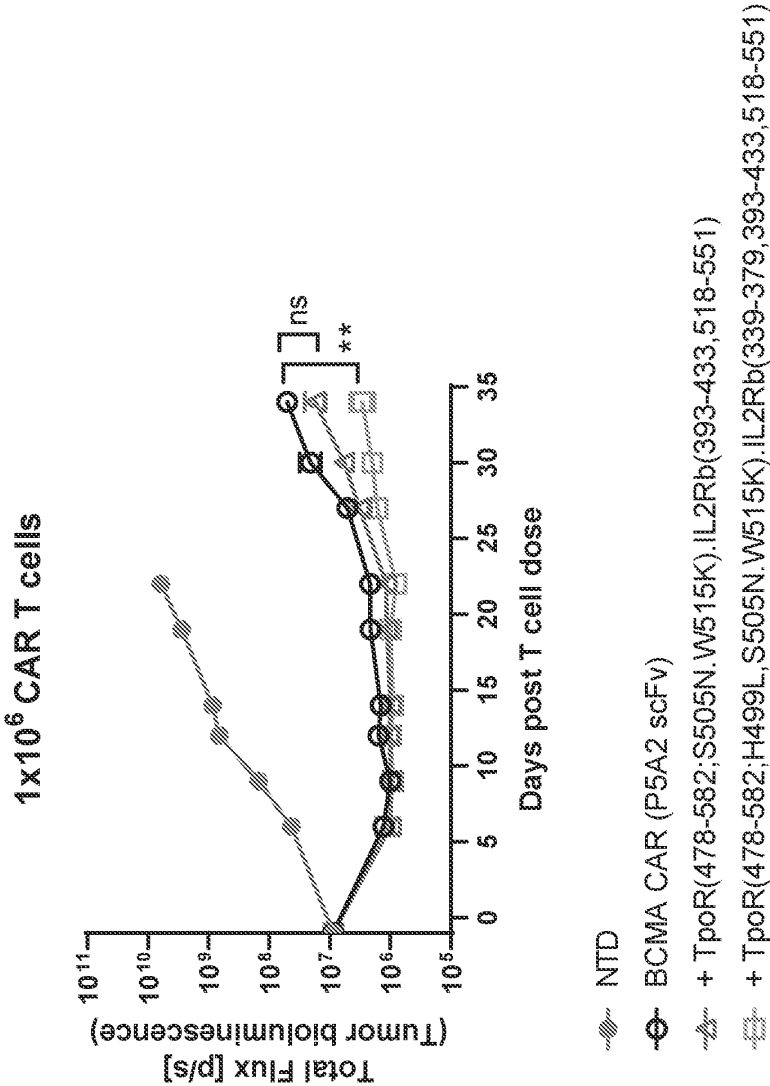


FIG. 5B

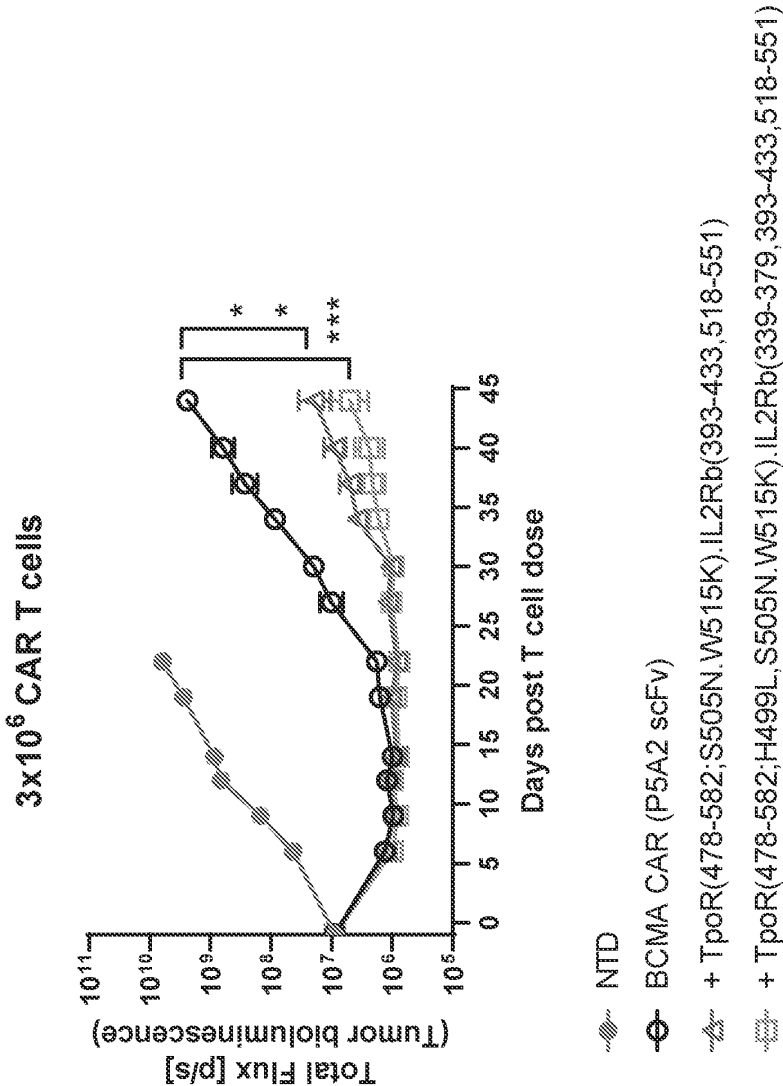


FIG. 5C

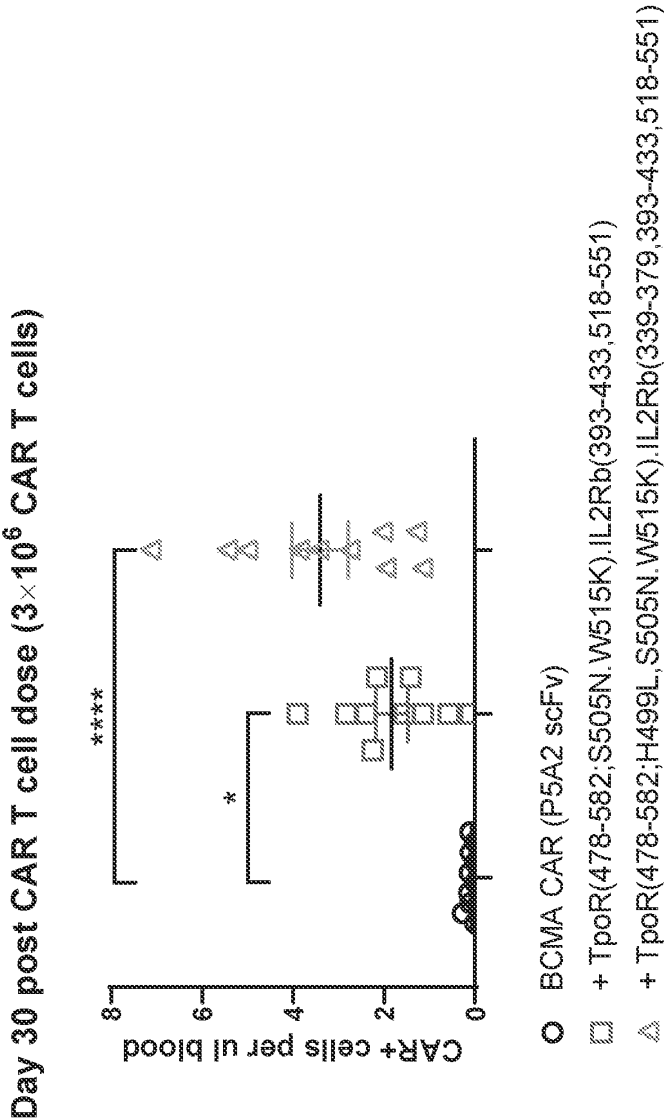


FIG. 5D

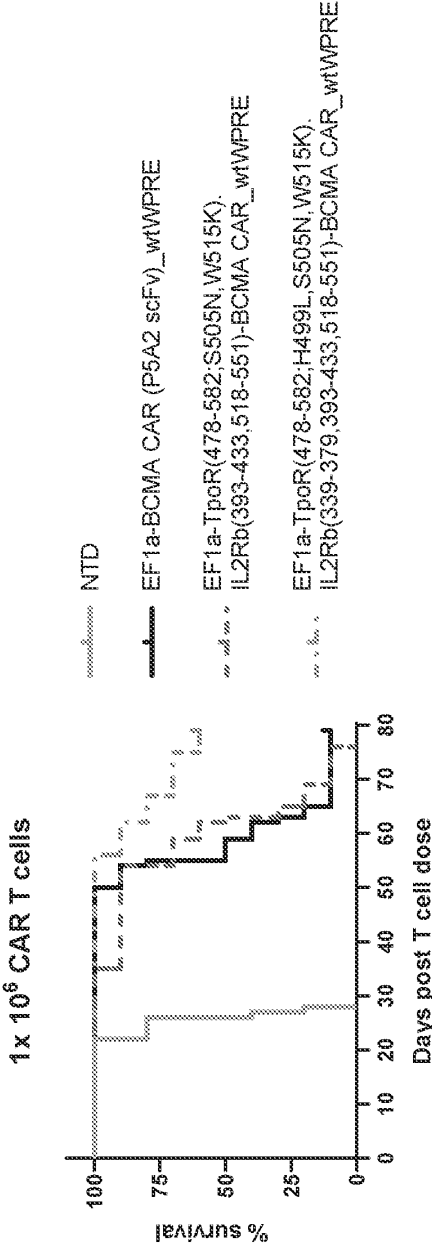


FIG. 5E

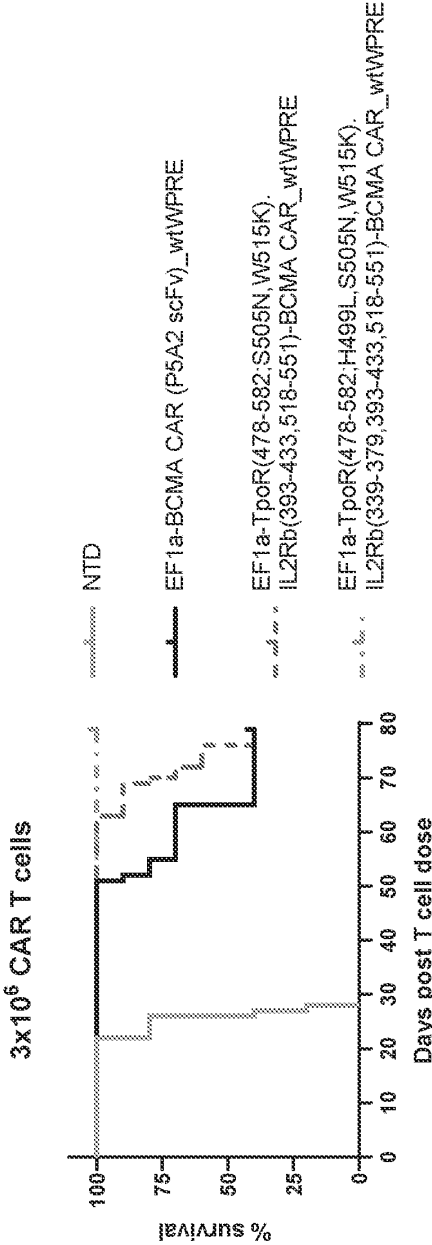


FIG. 6A



FIG. 6B

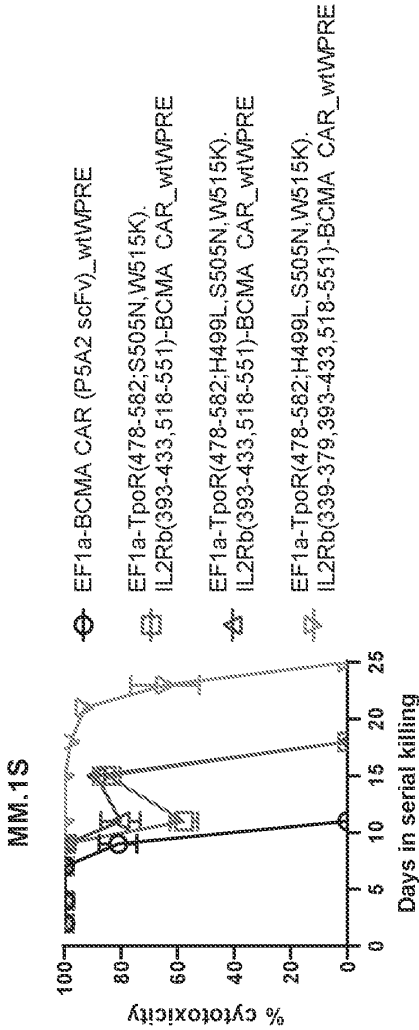


FIG. 6C

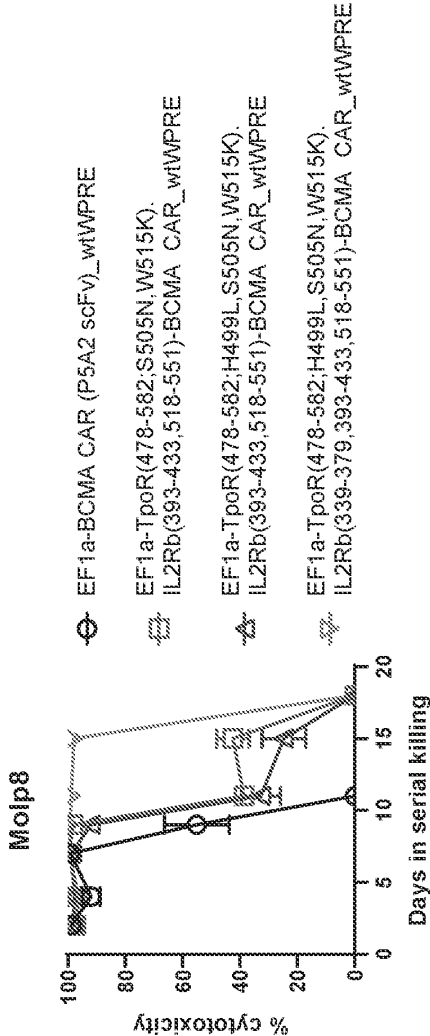


FIG. 6D

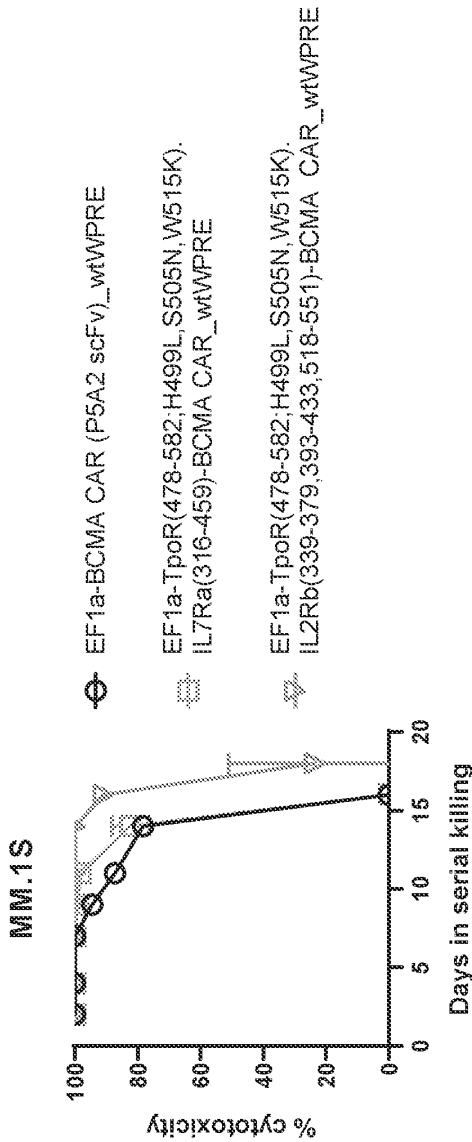


FIG. 6E

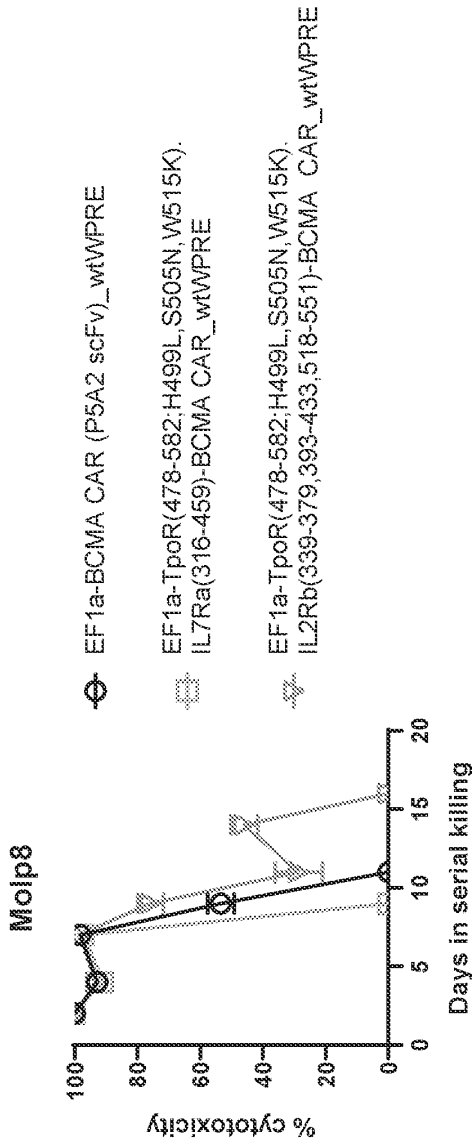


FIG. 7A

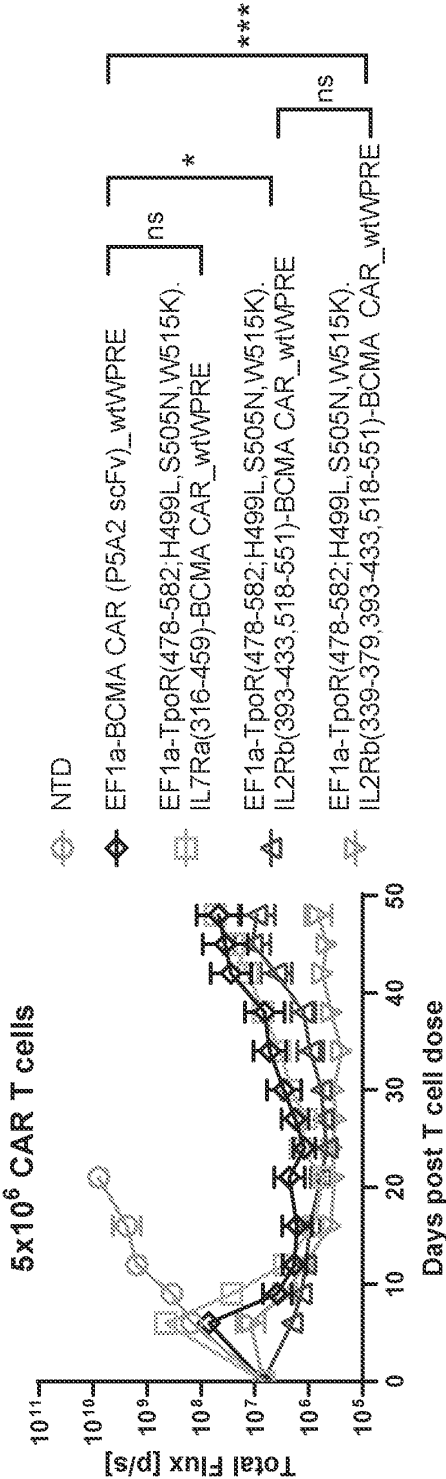


FIG. 7B

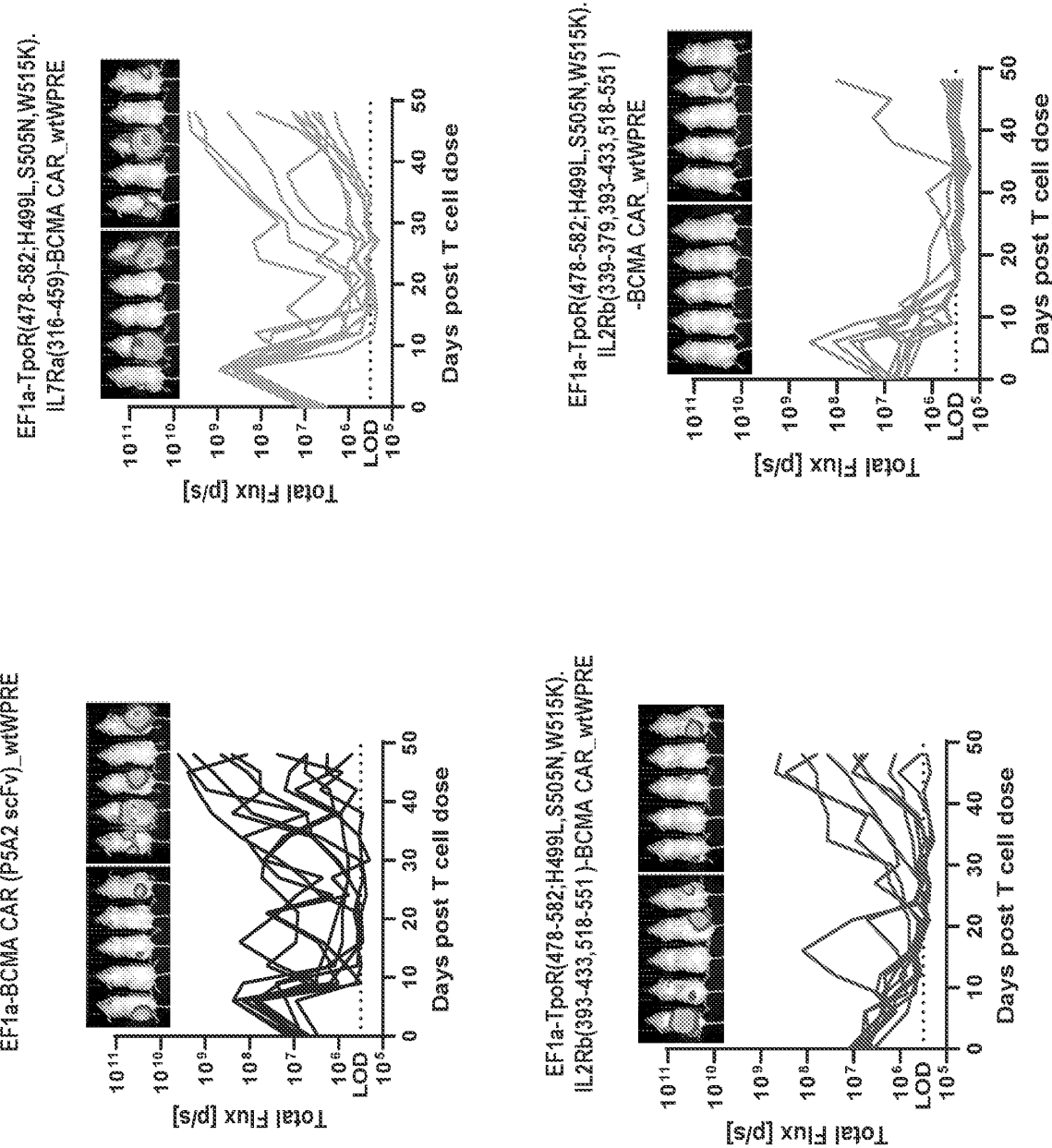


FIG. 8A

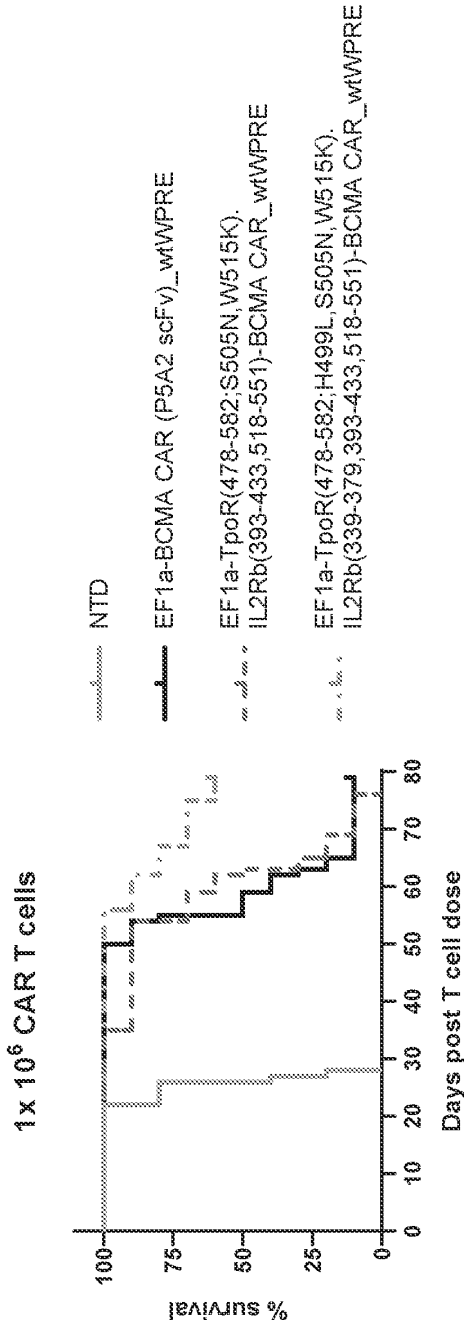


FIG. 8B

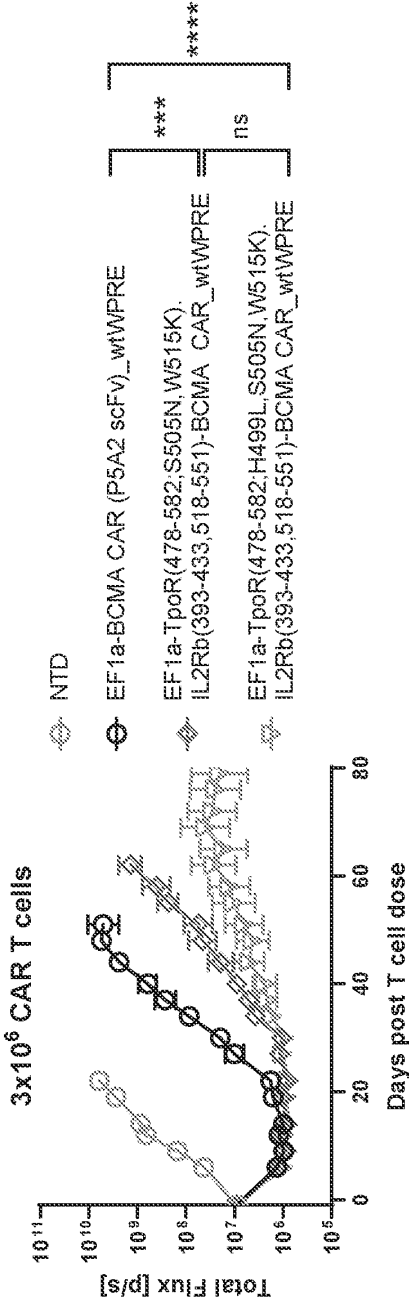
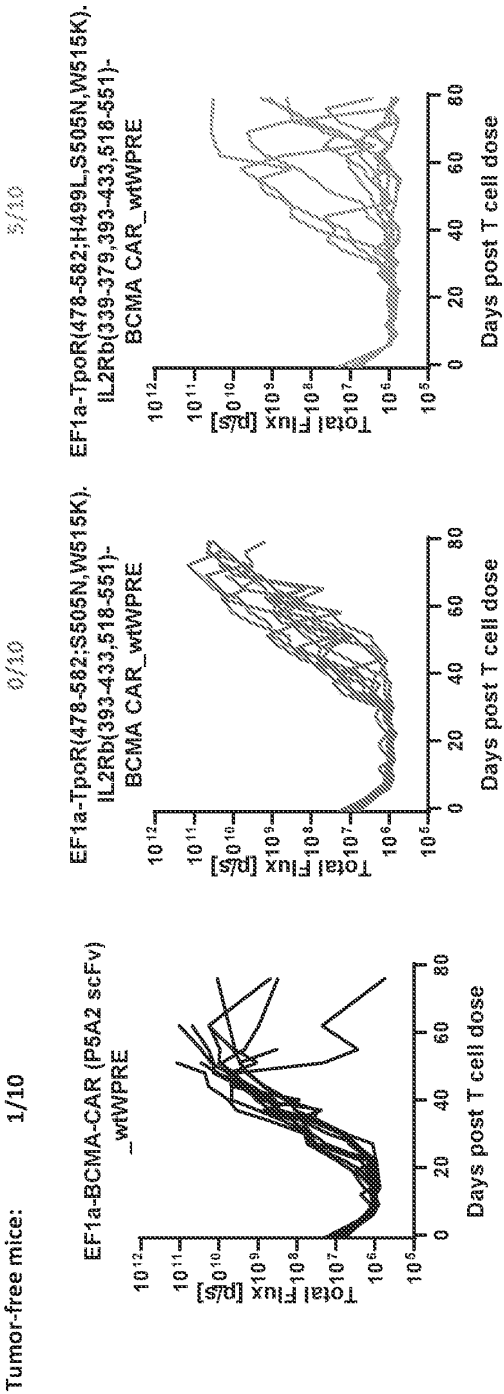


FIG. 8C



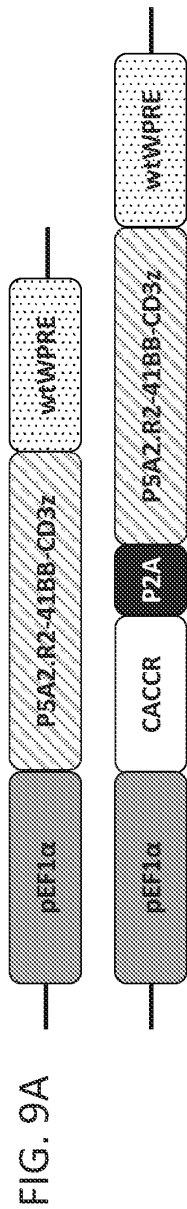


FIG. 9B

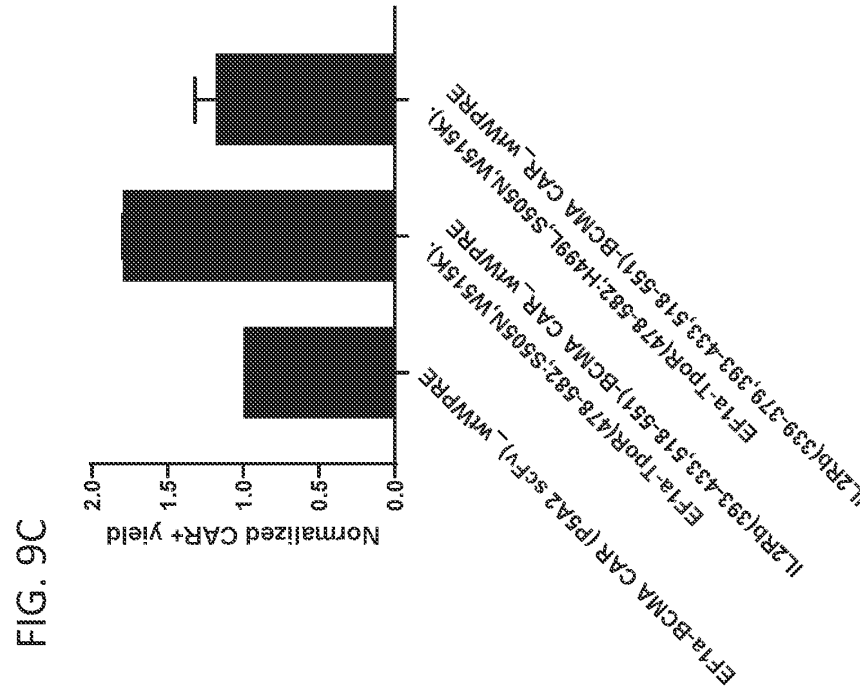
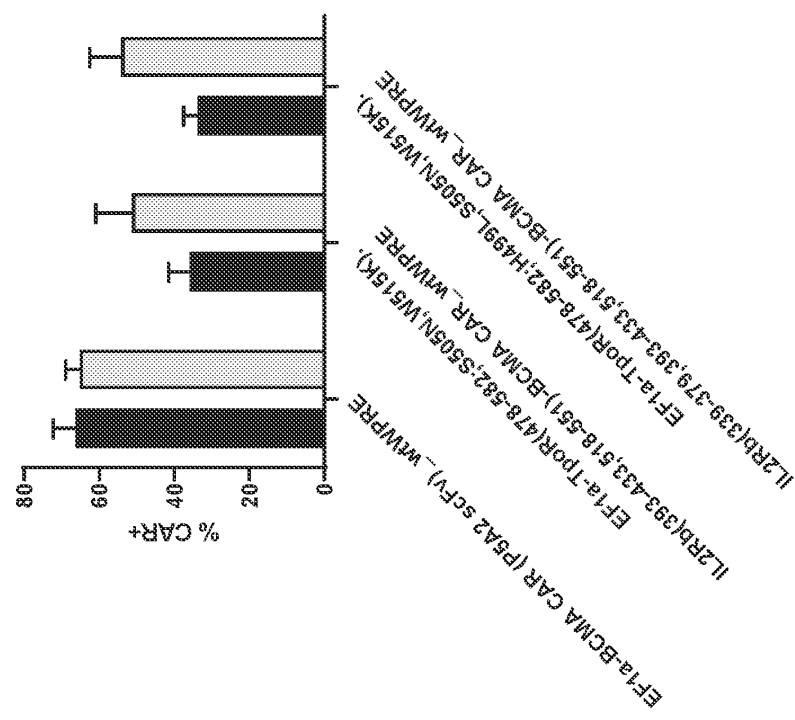


FIG. 10A

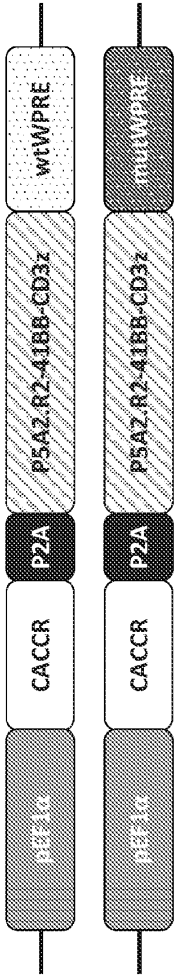


FIG. 10B

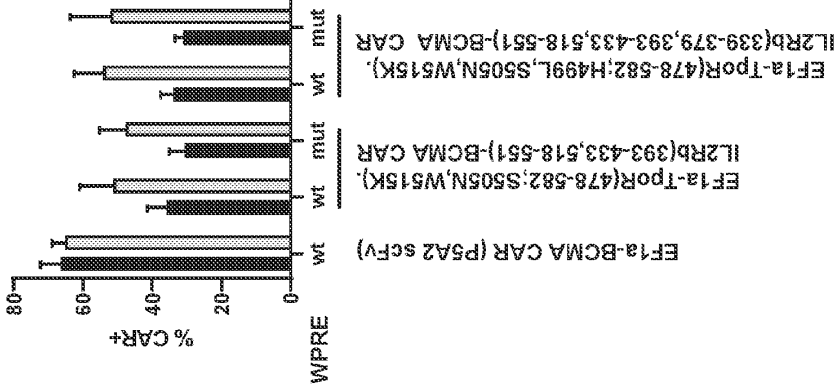


FIG. 10C

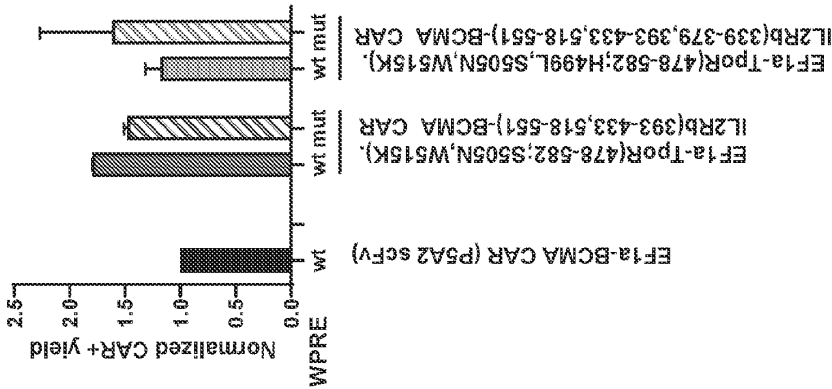


FIG. 10D

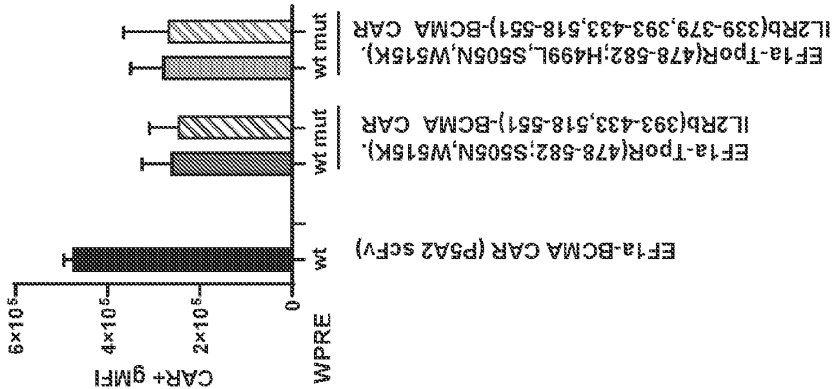
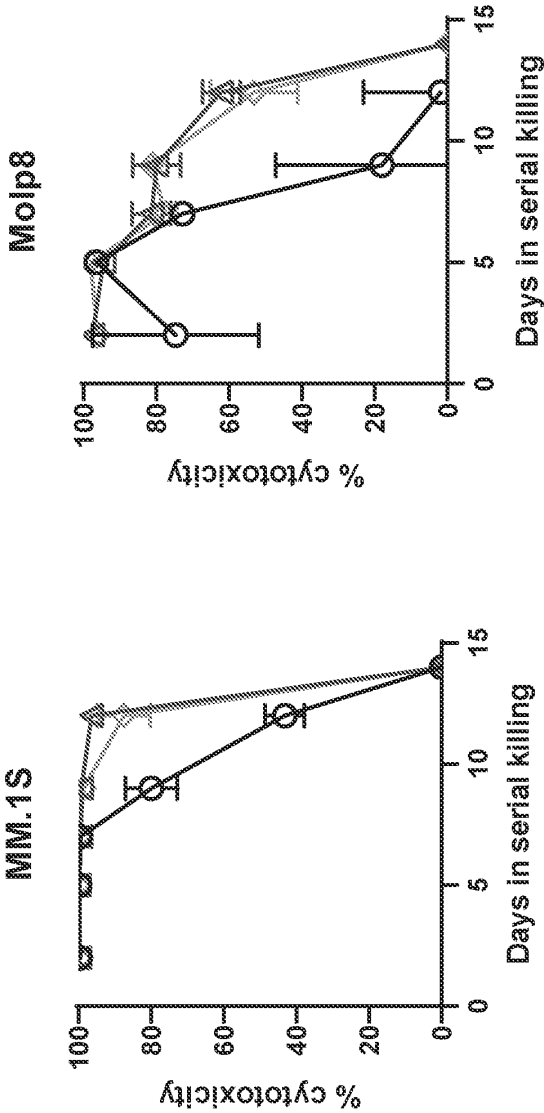


FIG. 10E



○ EF1a-BCMA CAR (P5A2 scFv)

△ EF1a-TpoR(478-582;H499L,S505N,W515K)

▽ IL2Rb(339-379,393-433,518-551)-BCMA CAR_wtWPRE

◇ EF1a-TpoR(478-582;H499L,S505N,W515K)

◇ IL2Rb(339-379,393-433,518-551)-BCMA CAR_mutWPRE

MM.1S

Lysis (%)

Days in long-term killing assay

Legend for MM.1S:

- EF1a-BCMA CAR (P5A2 scFv)_wtWPRE
- EF1a-TpoR(478-582;H499L,S505N,W515K). IL2Rb(339-379,393-433,518-551)-BCMA CAR_mutWPRE
- △ Non-transduced

Moip8

Lysis (%)

Days in long-term killing assay

Legend for Moip8:

- EF1a-BCMA CAR (P5A2 scFv)_wtWPRE
- EF1a-TpoR(478-582;H499L,S505N,W515K). IL2Rb(339-379,393-433,518-551)-BCMA CAR_mutWPRE
- △ Non-transduced

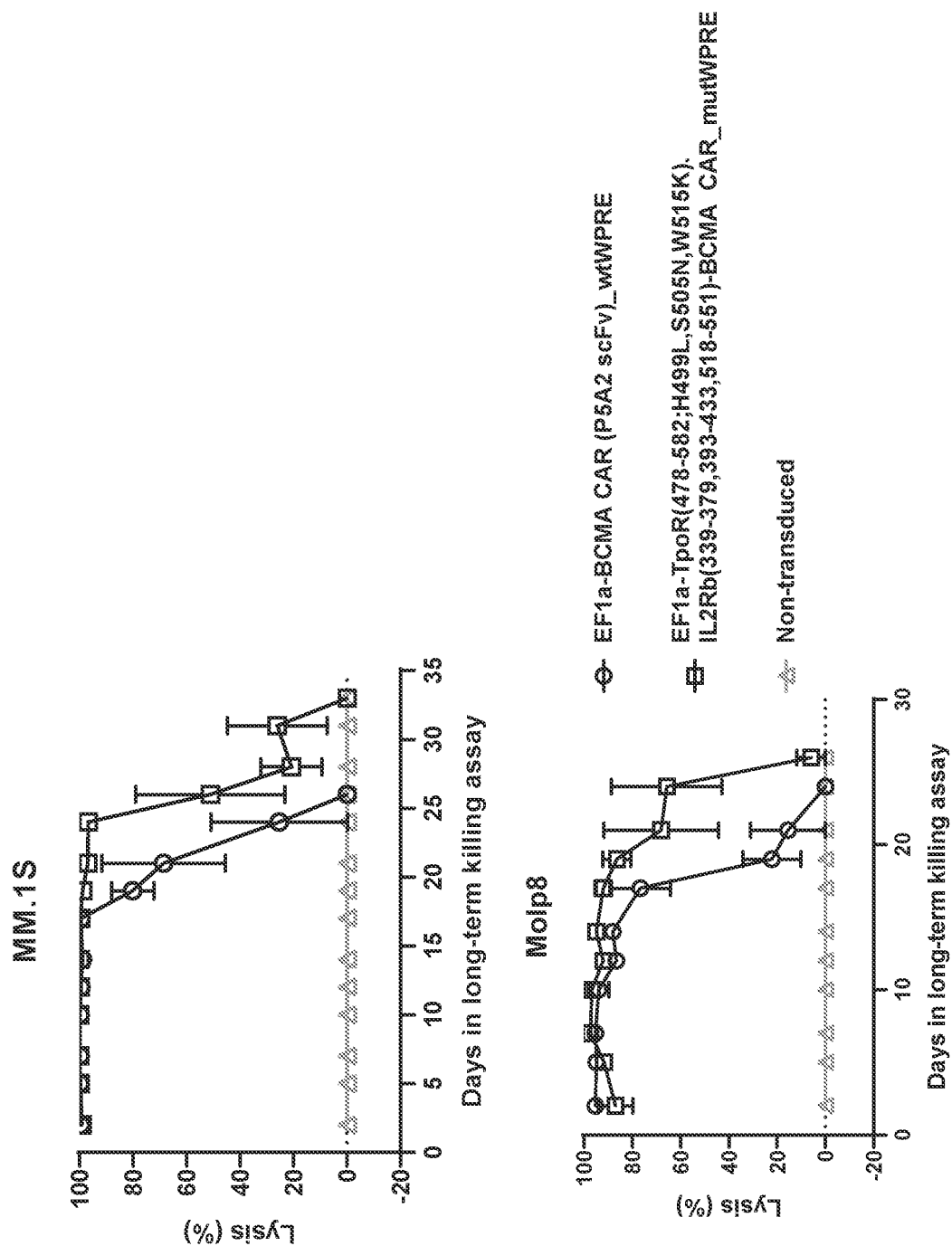


FIG. 11A

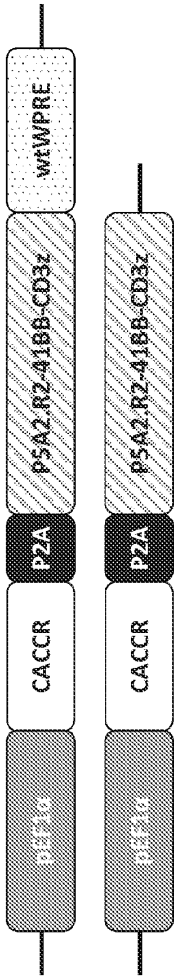


FIG. 11B

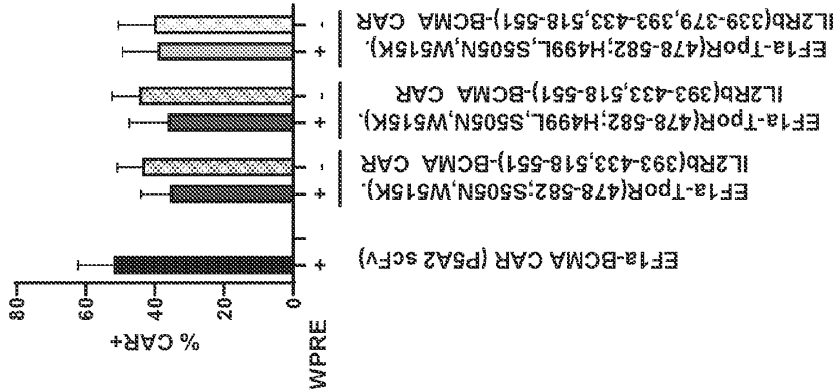


FIG. 11C

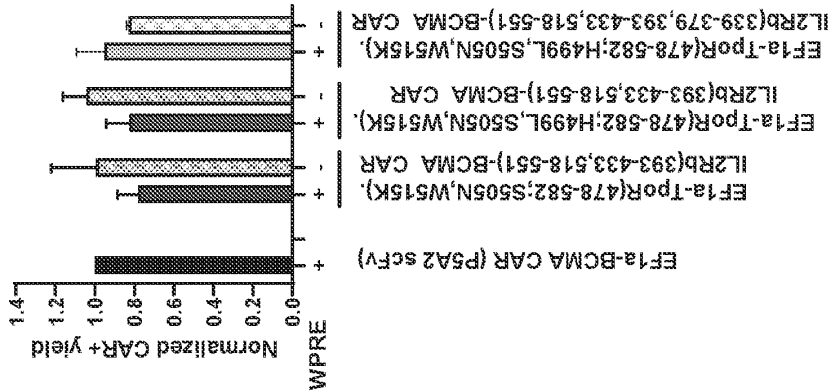


FIG. 11E

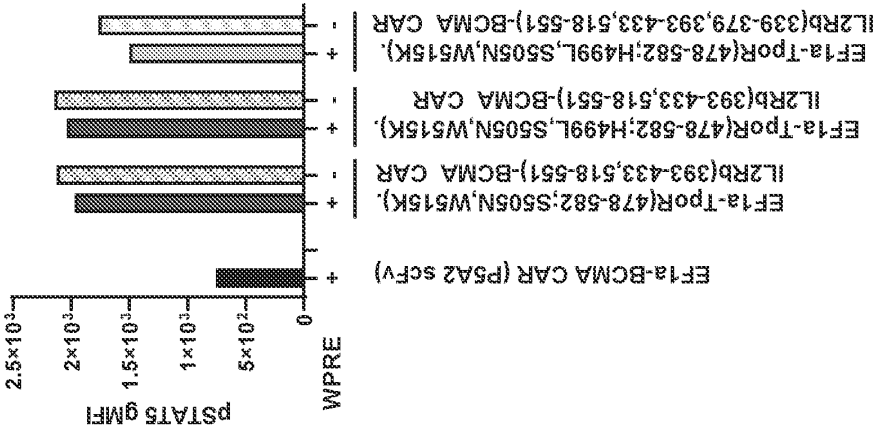
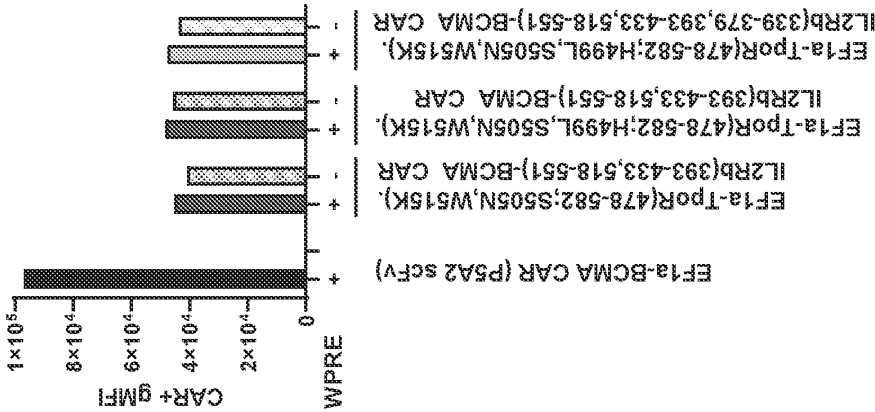


FIG. 11D



- EF1a-BCMA CAR (P5A2 scFv)_wtWPRE
- EF1a-TpoR(478-582;S505N,W515K).
IL2Rb(393-433,518-551)-BCMA CAR_wtWPRE
- EF1a-TpoR(478-582;S505N,W515K).
IL2Rb(393-433,518-551)-BCMA CAR_noWPRE

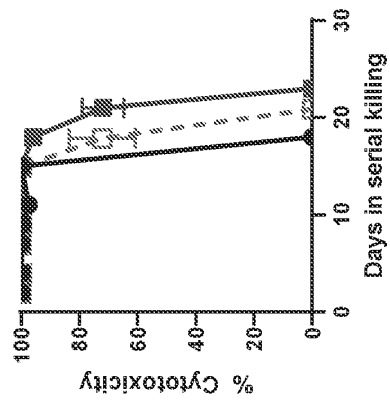


FIG. 11F

- EF1a-BCMA CAR (P5A2 scFv)_wtWPRE
- EF1a-TpoR(478-582;H499L,S505N,W515K).
IL2Rb(393-433,518-551)-BCMA CAR_wtWPRE
- EF1a-TpoR(478-582;H499L,S505N,W515K).
IL2Rb(393-433,518-551)-BCMA CAR_noWPRE

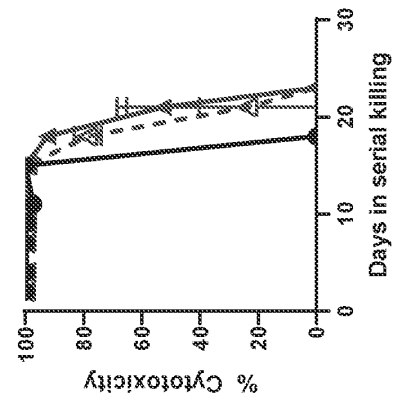


FIG. 11H

- EF1a-BCMA CAR (P5A2 scFv)_wtWPRE
- EF1a-TpoR(478-582;H499L,S505N,W515K).
IL2Rb(339-379,393-433,518-551)-BCMA CAR_wtWPRE
- EF1a-TpoR(478-582;H499L,S505N,W515K).
IL2Rb(339-379,393-433,518-551)-BCMA CAR_noWPRE

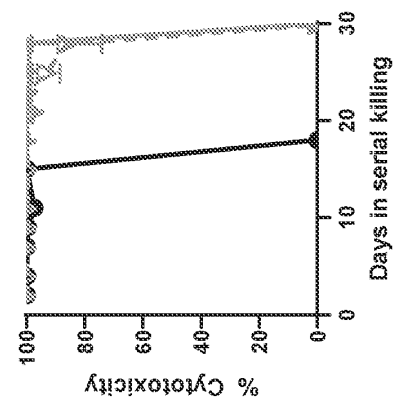


FIG. 11G

FIG. 12B

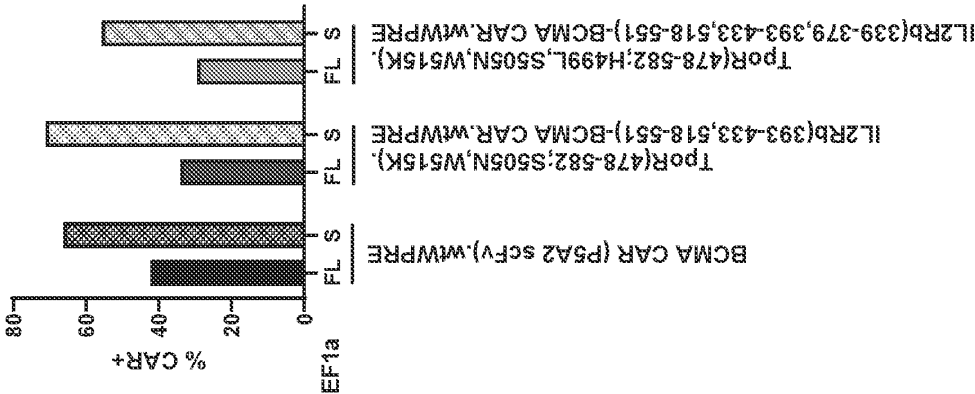


FIG. 12A

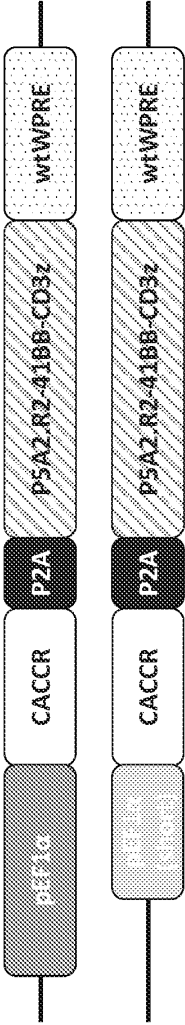


FIG. 12C

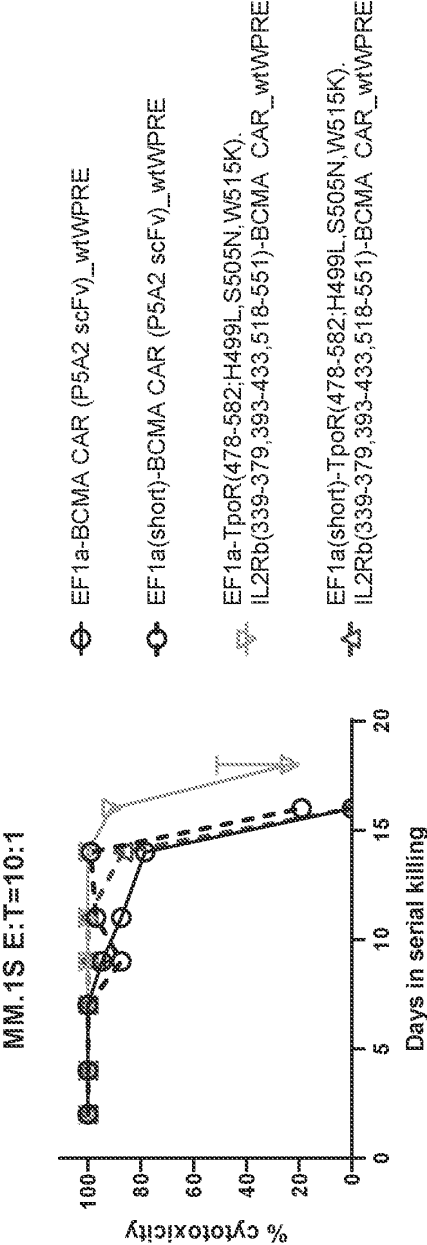


FIG. 12D

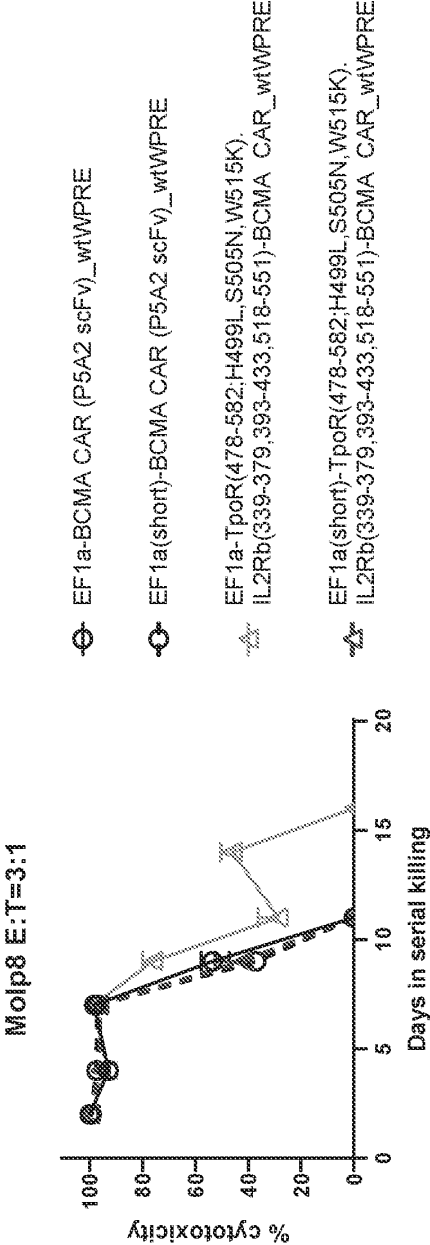


FIG. 13B

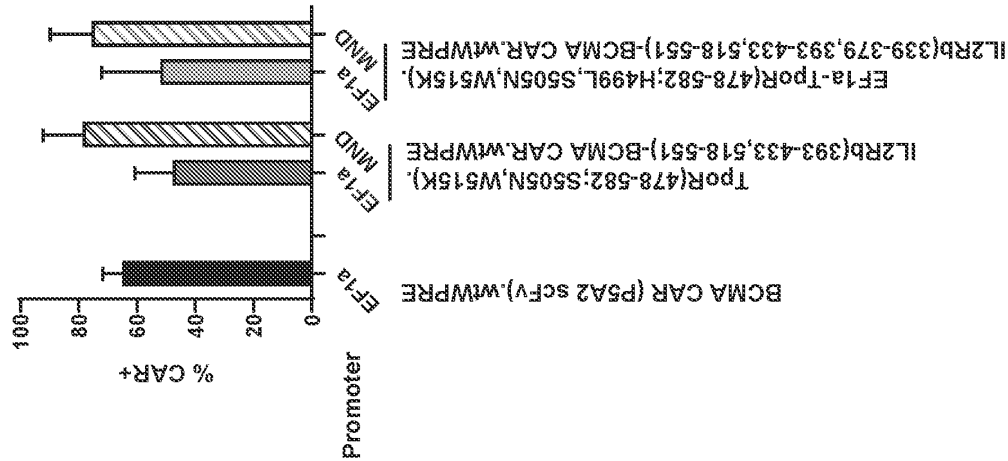


FIG. 13A

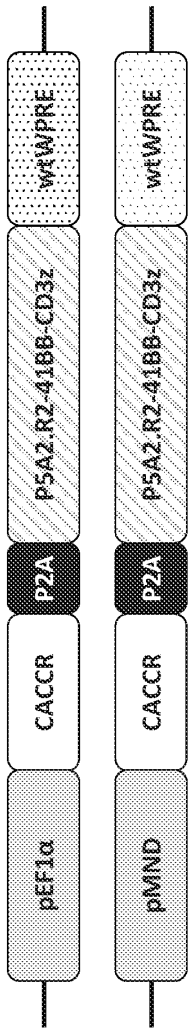


FIG. 13D

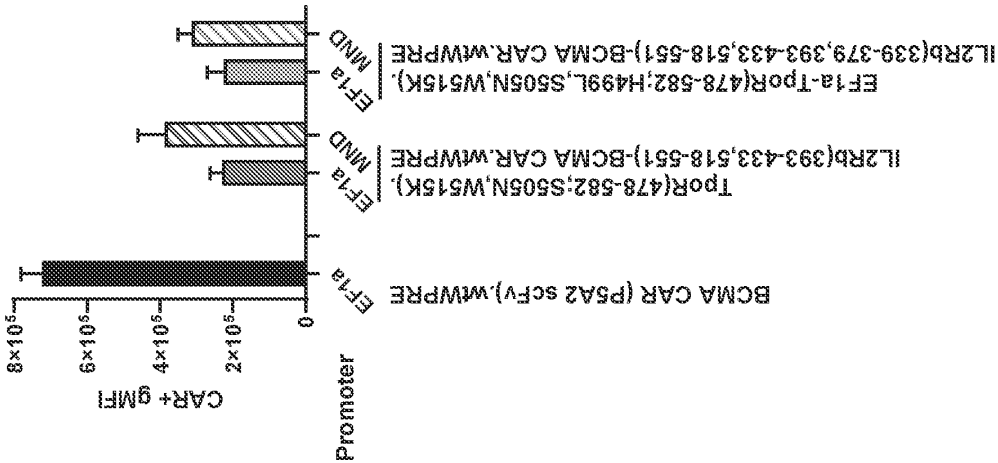


FIG. 13C

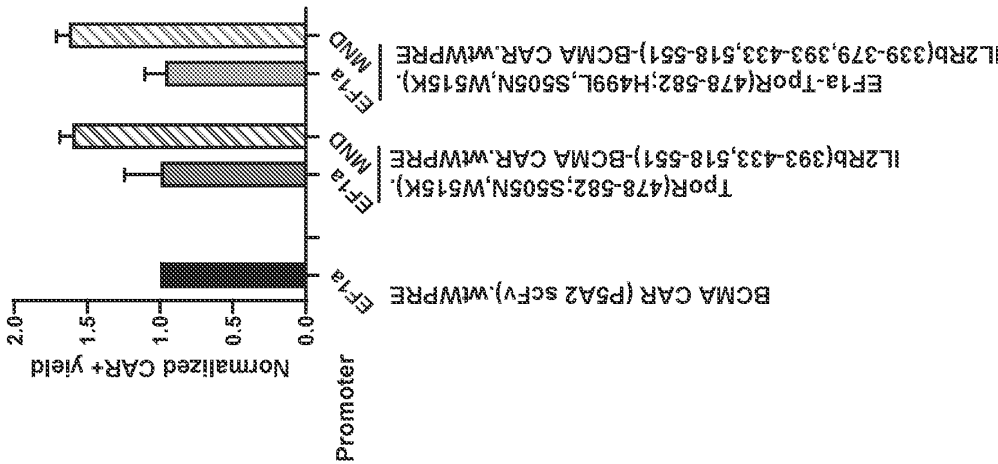


FIG. 13E

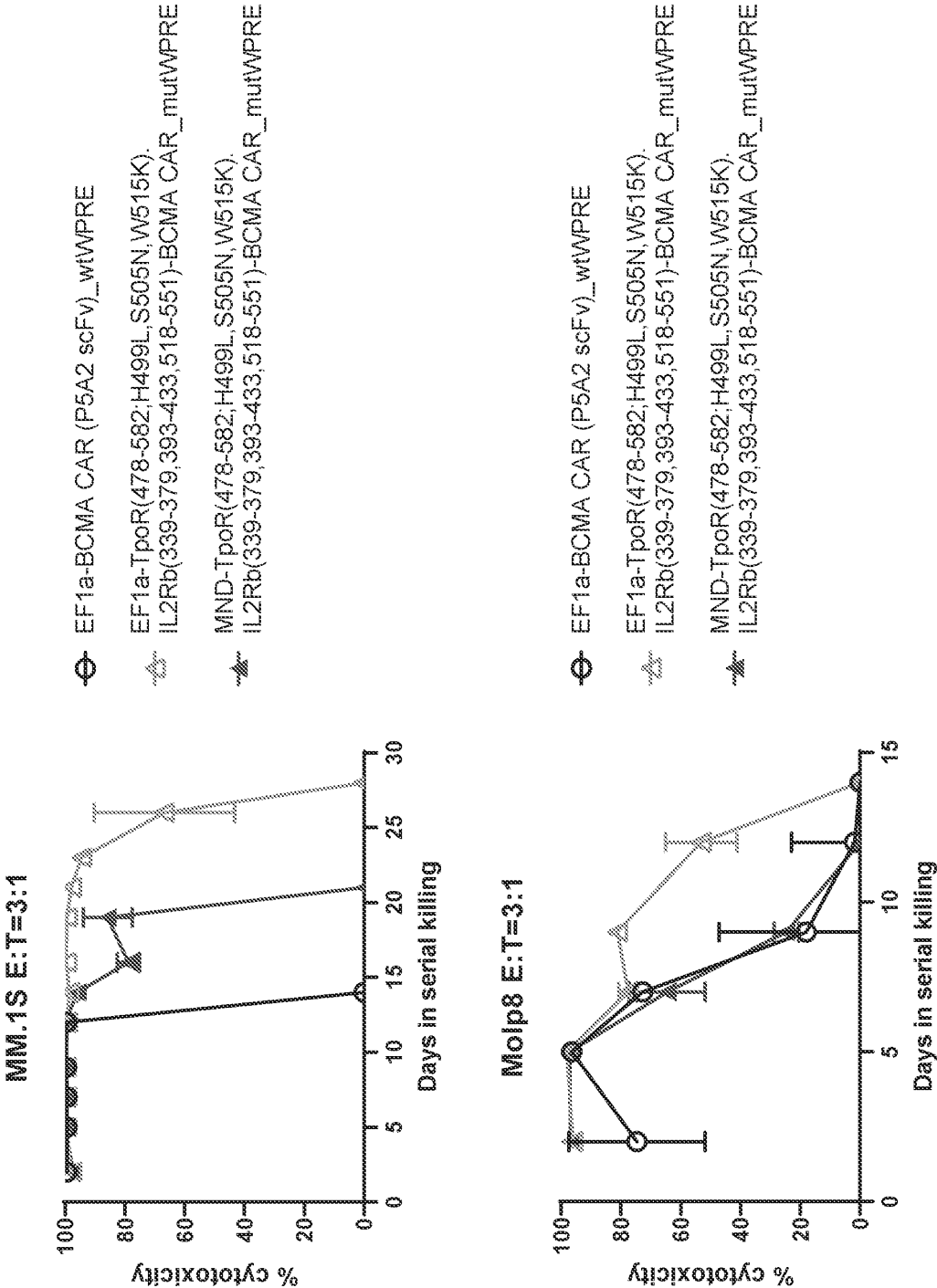


FIG. 13F

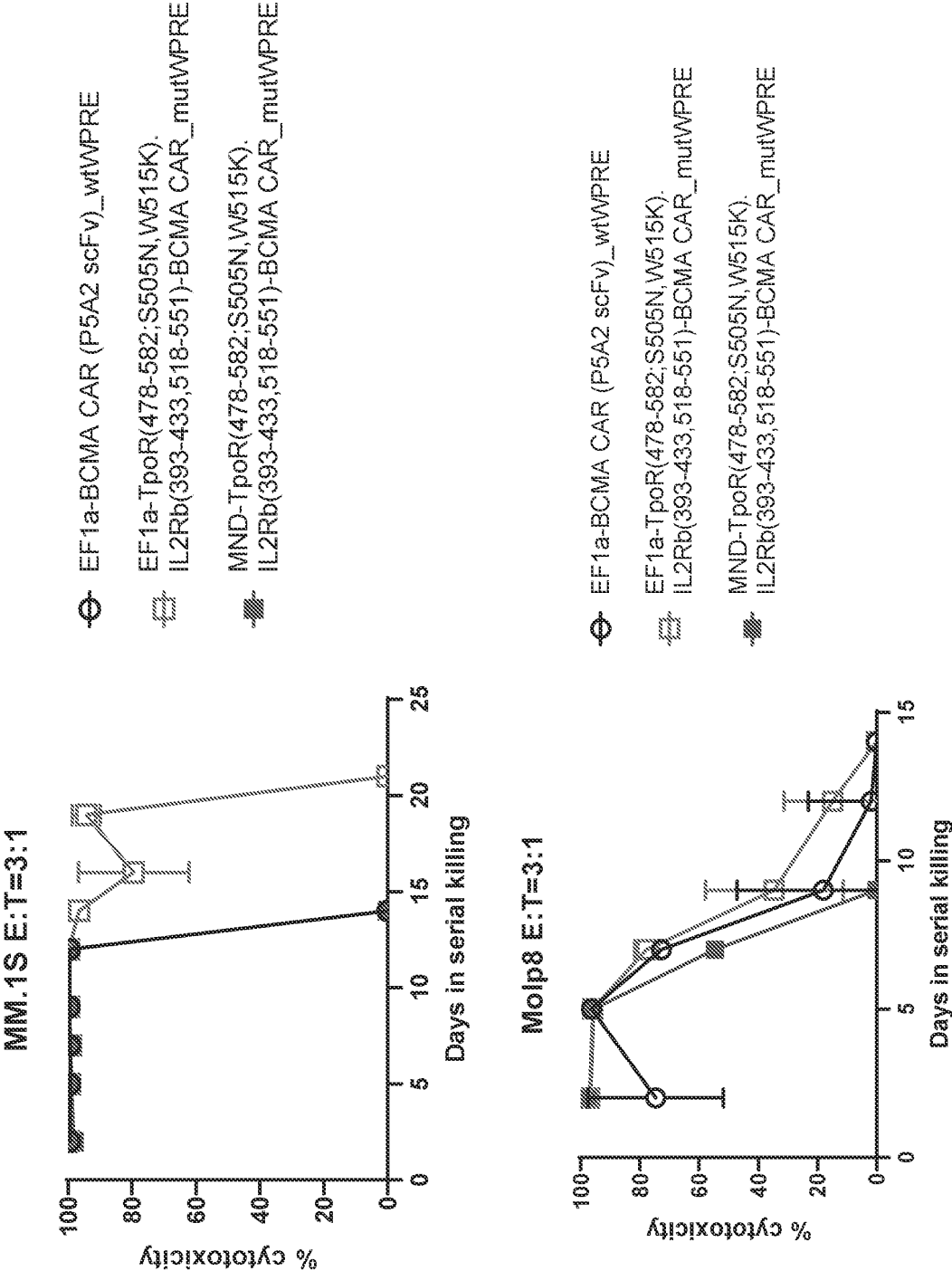


FIG. 13G

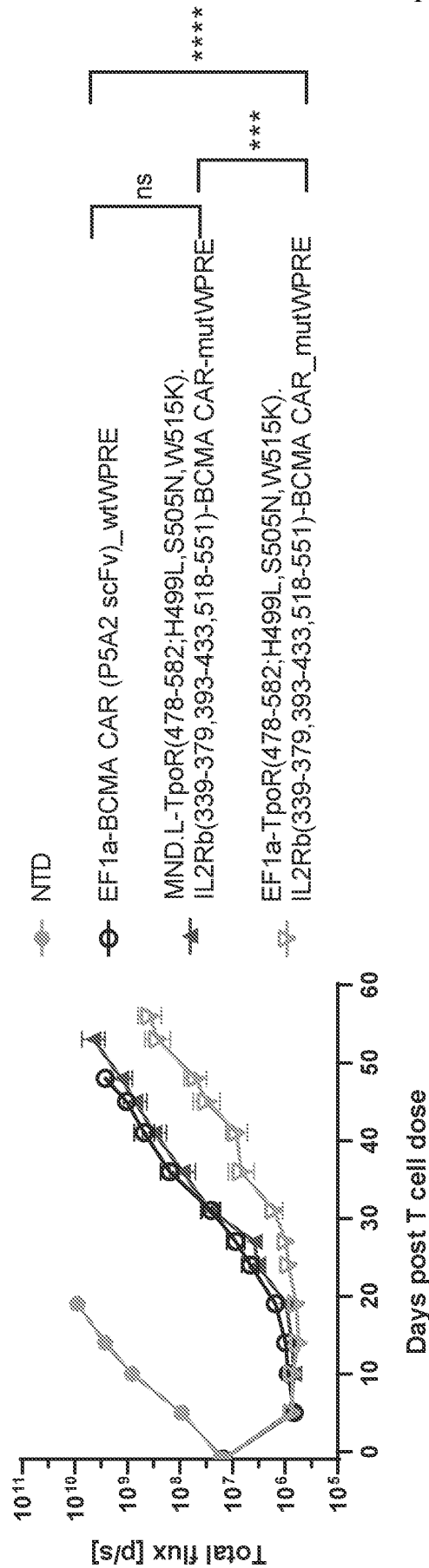


FIG. 14

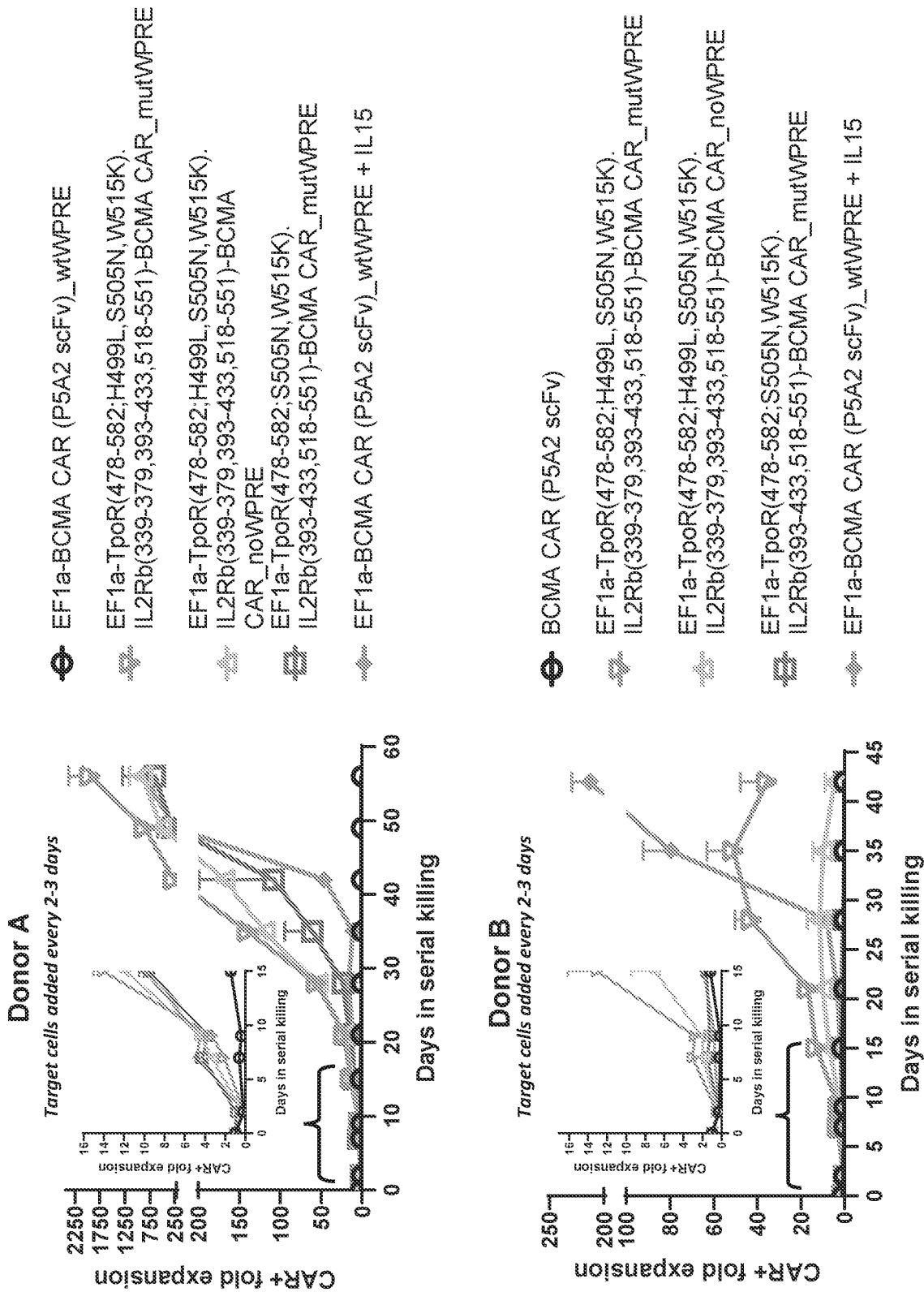
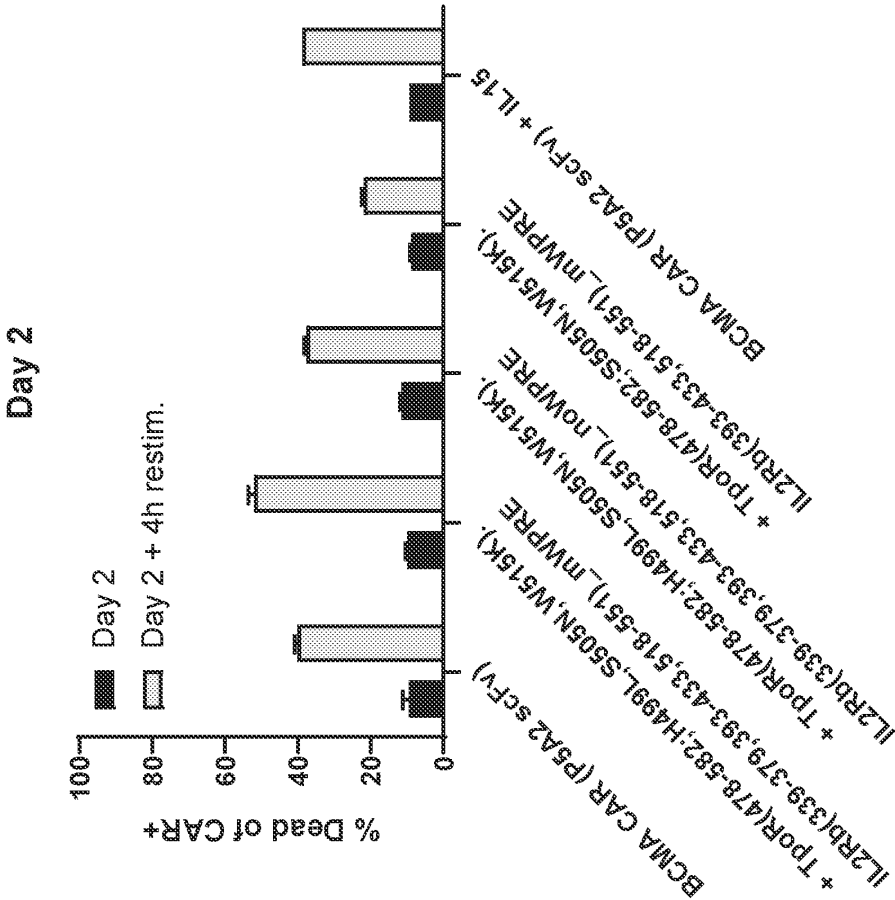


FIG. 15A



Day 7

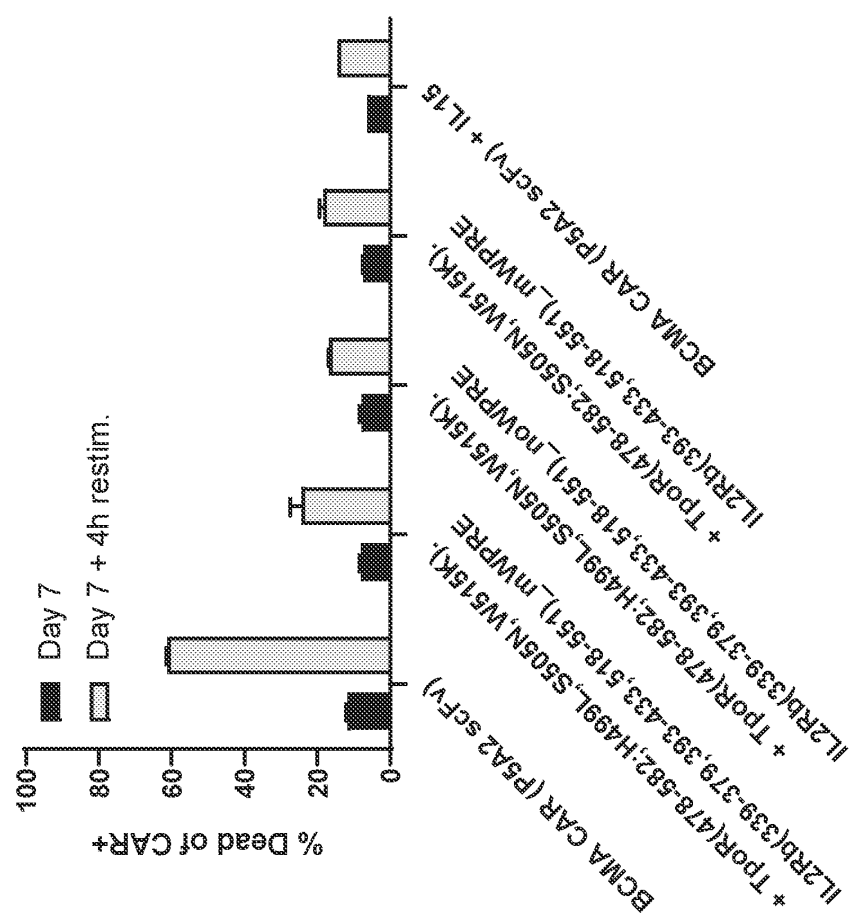


FIG. 16A

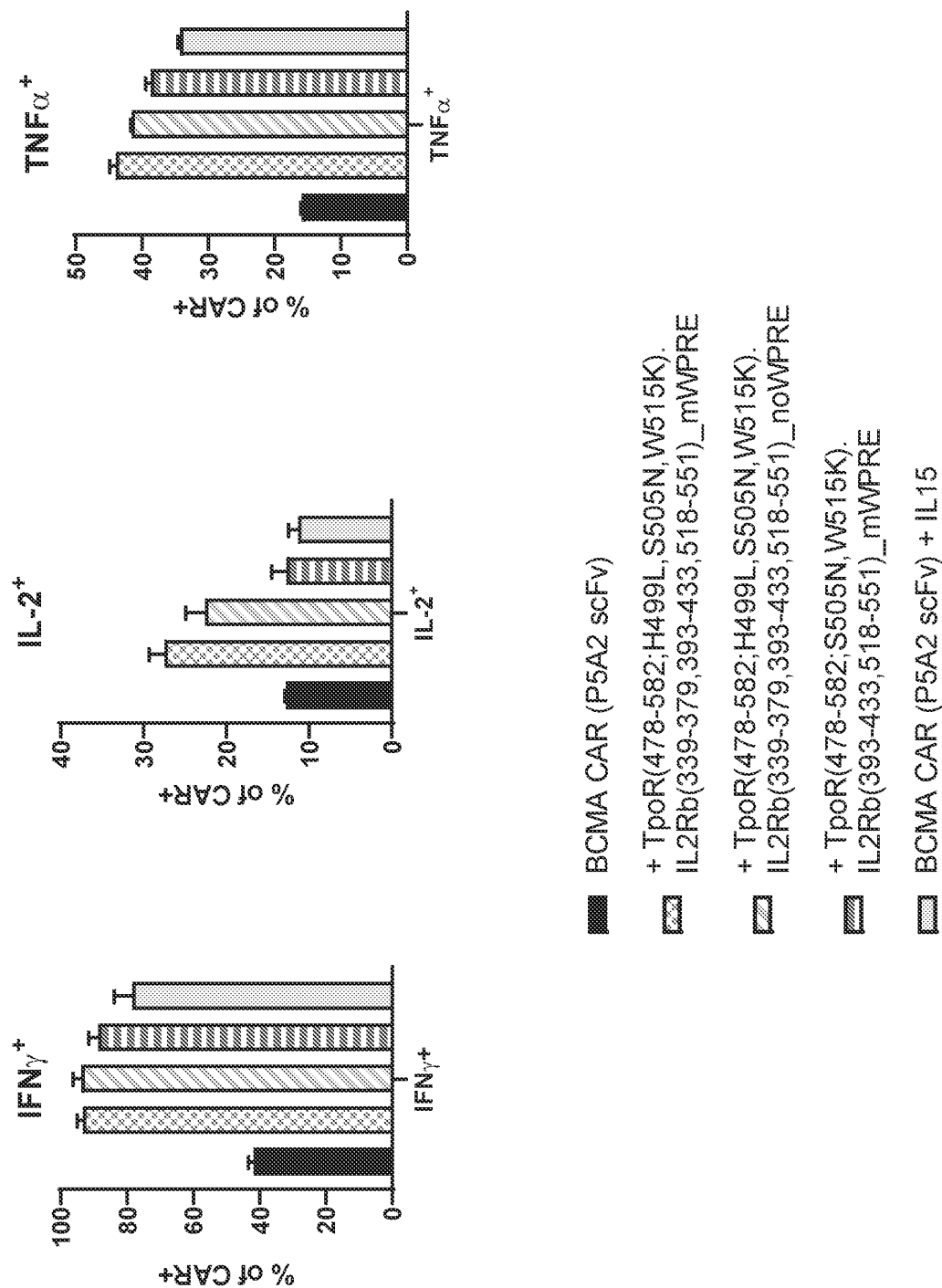
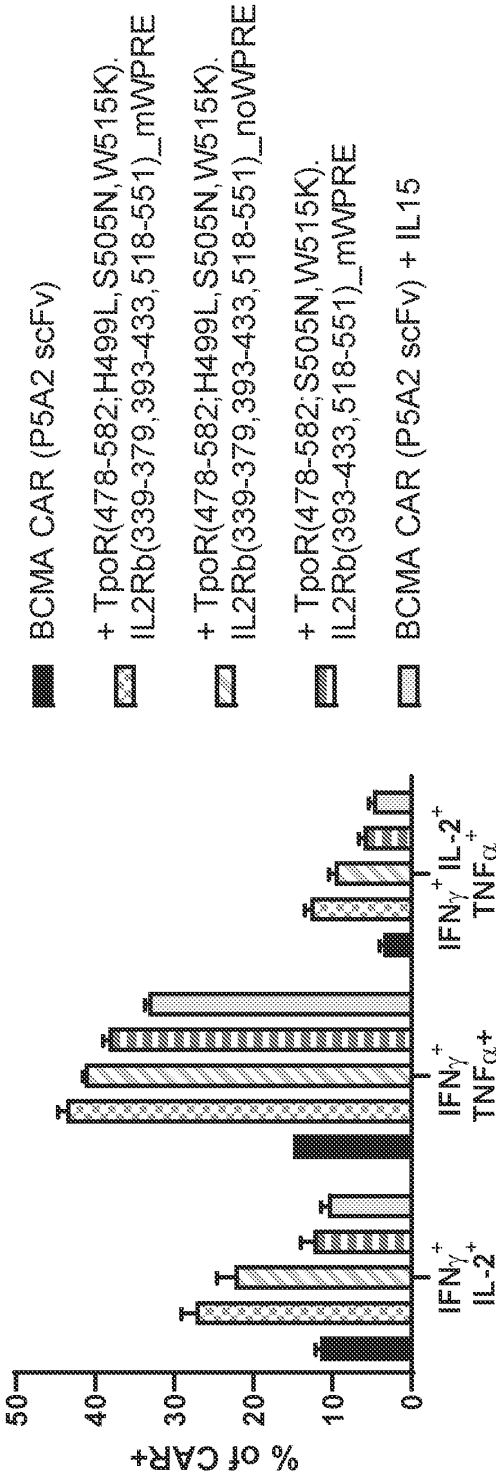


FIG. 16B



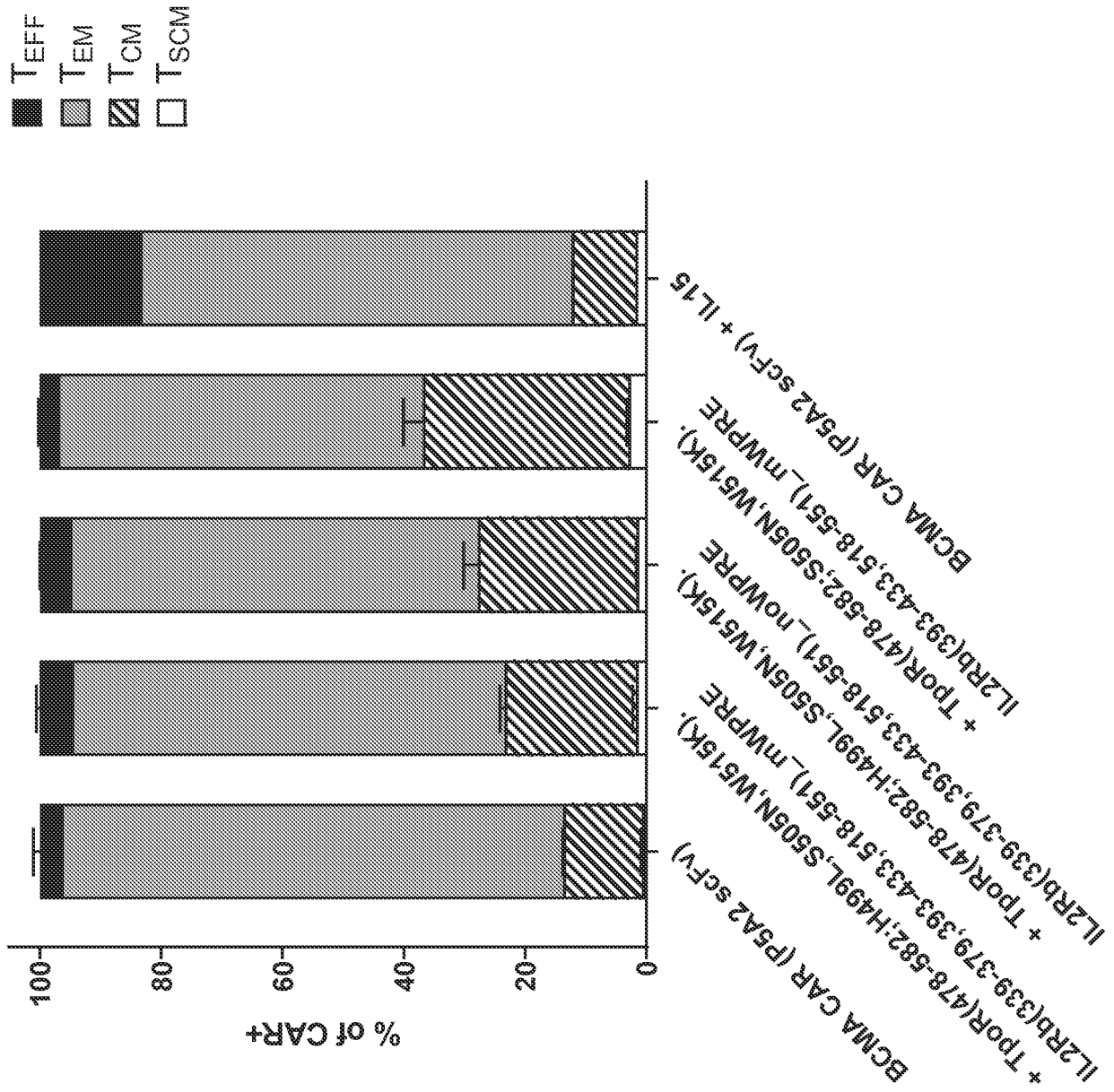


FIG. 17

FIG. 18A

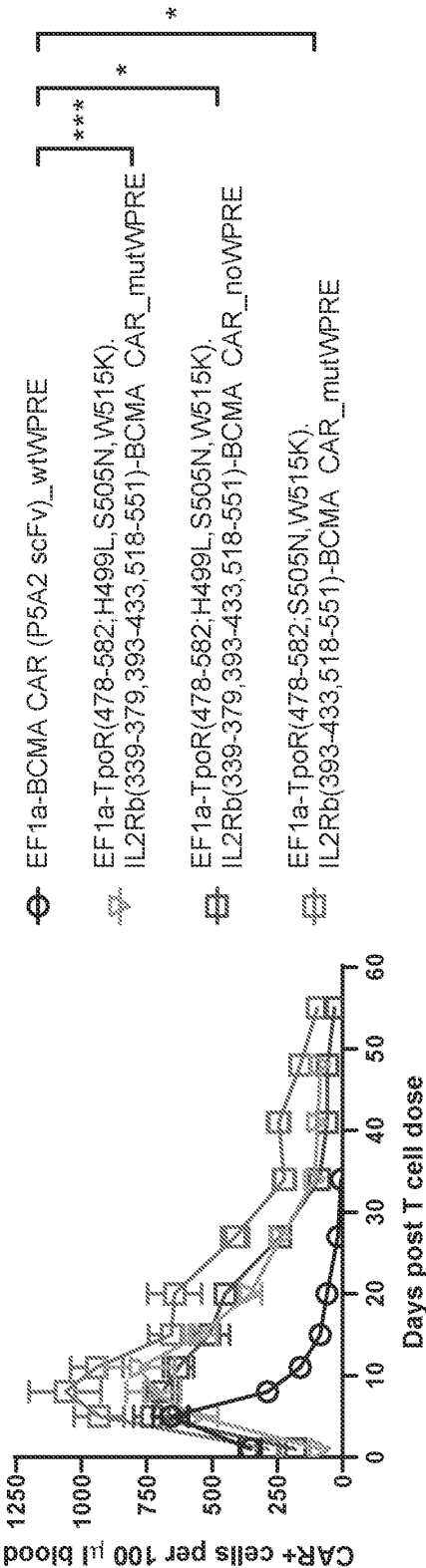


FIG. 18B

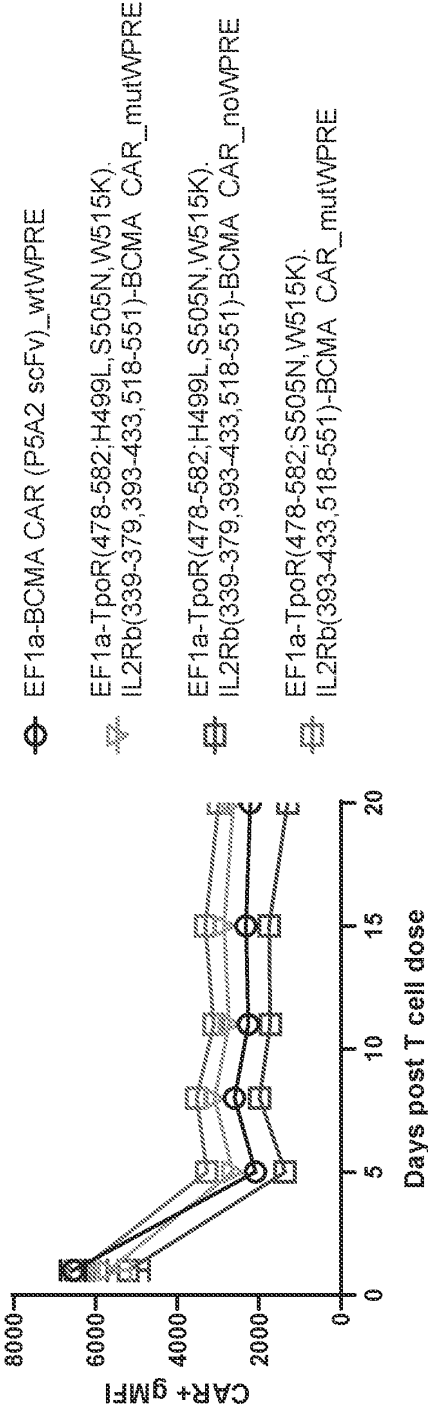


FIG. 19A

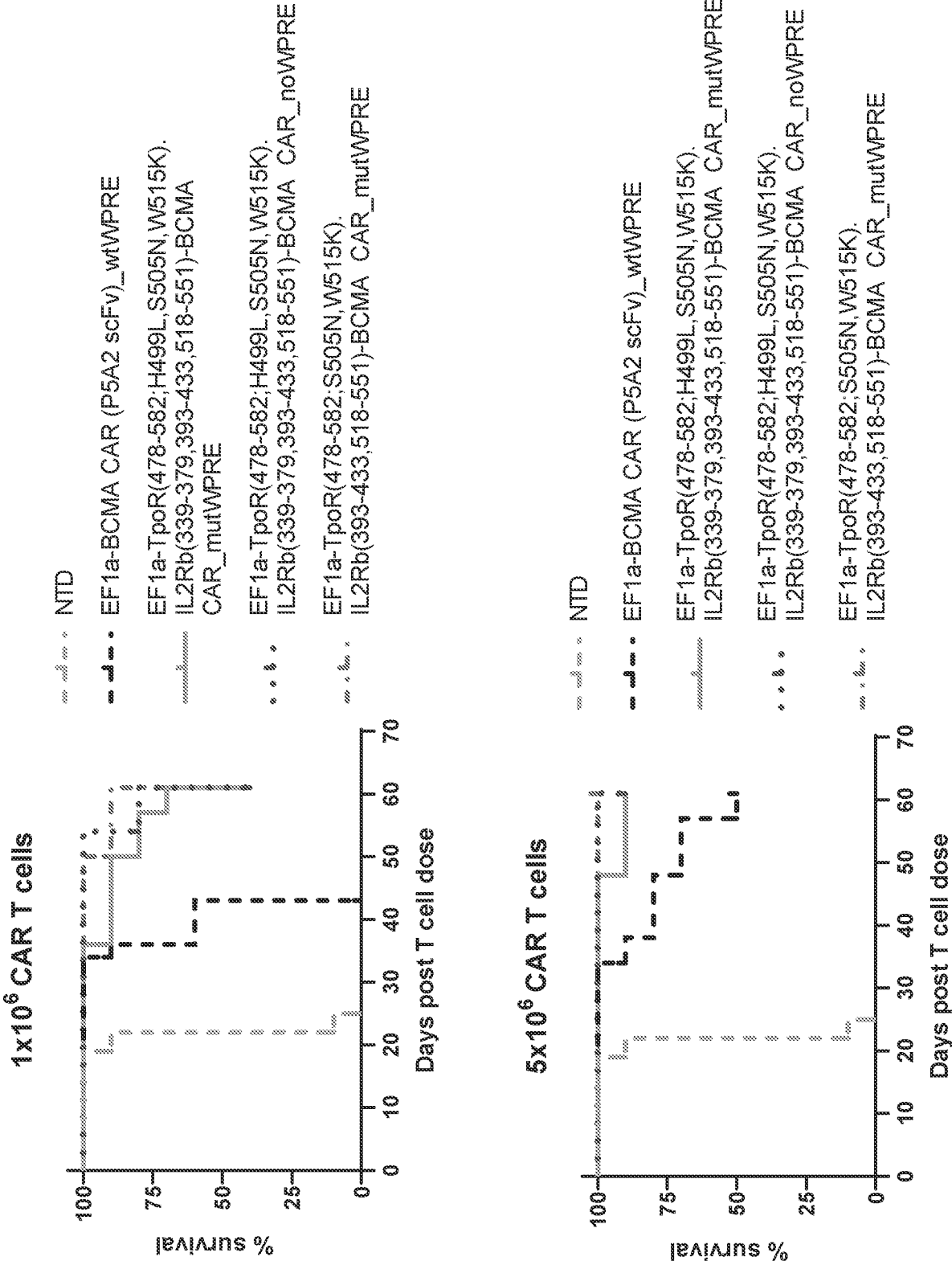


FIG. 19B

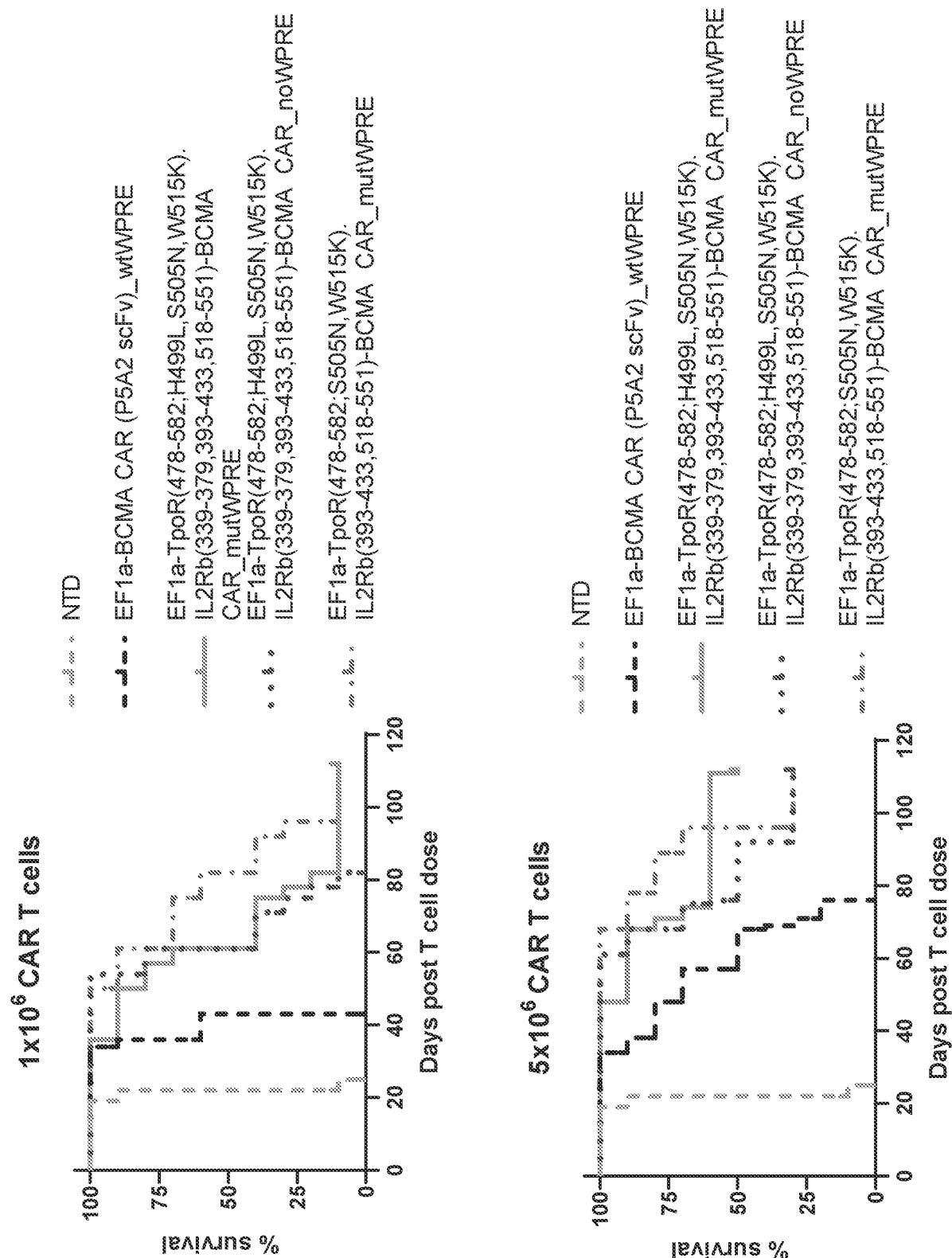


FIG. 20

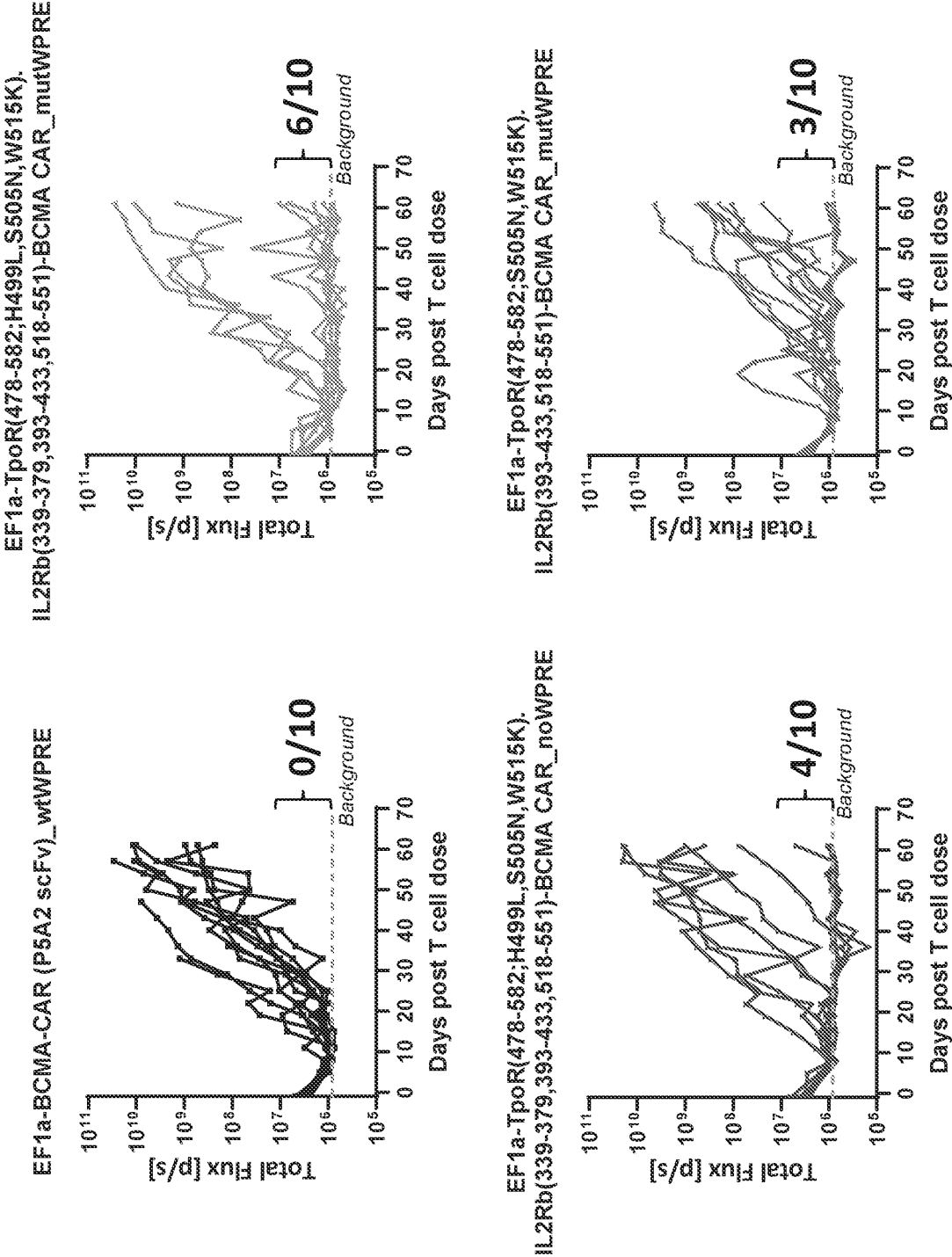


FIG. 21A

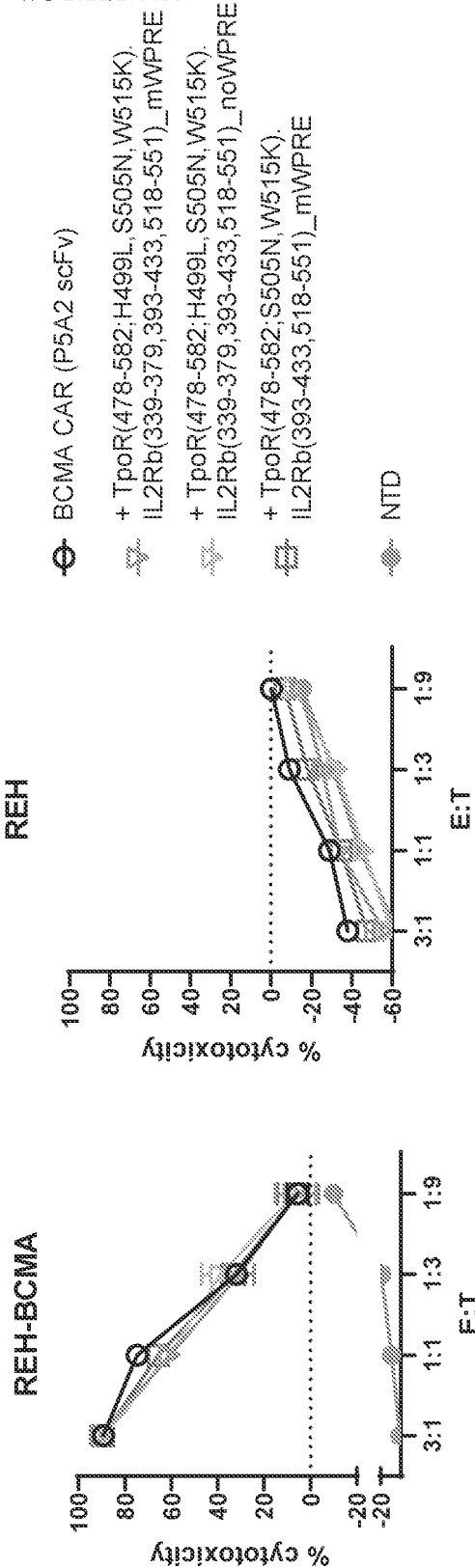


FIG. 21B

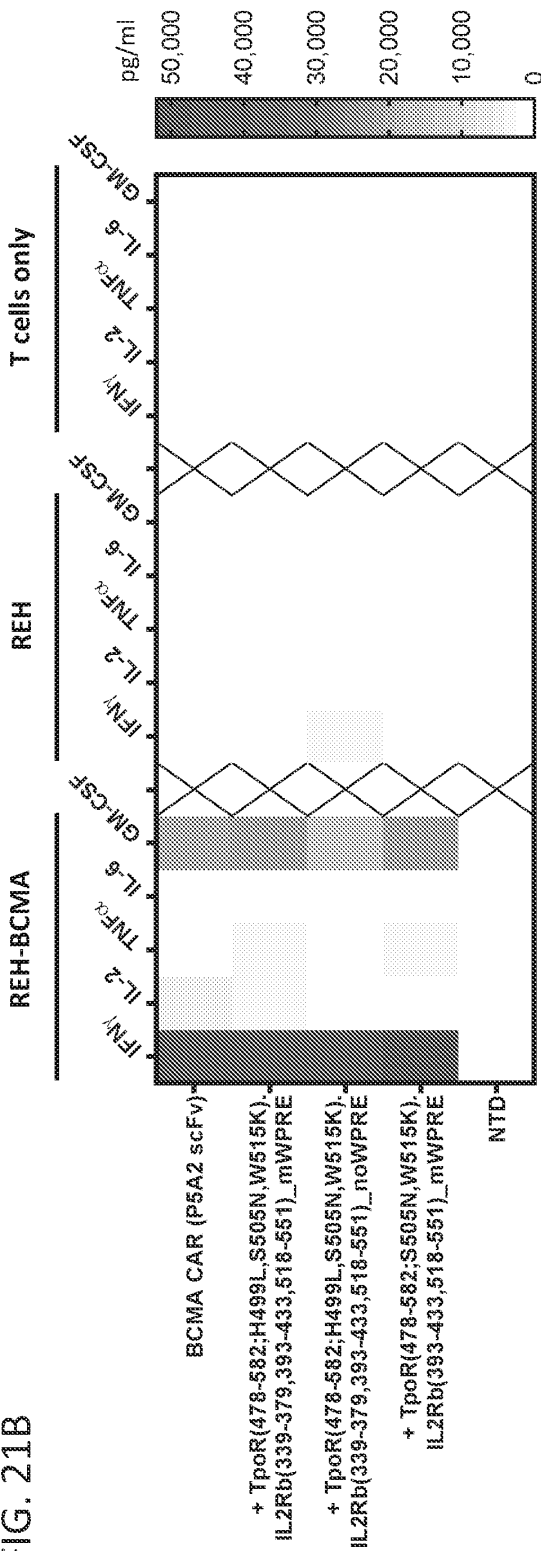


FIG. 22A

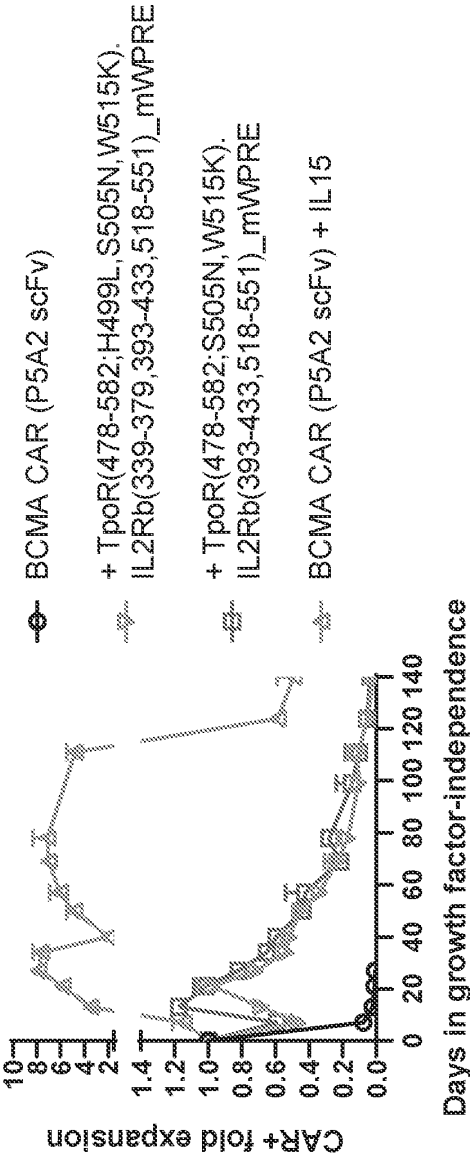


FIG. 22B

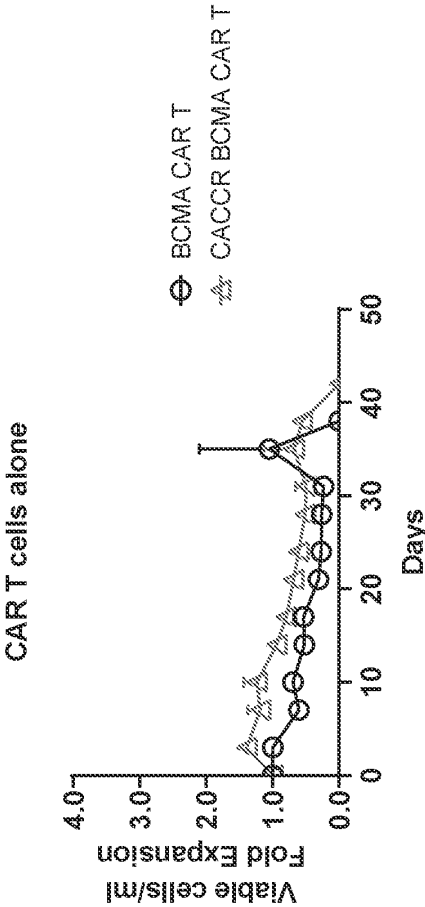
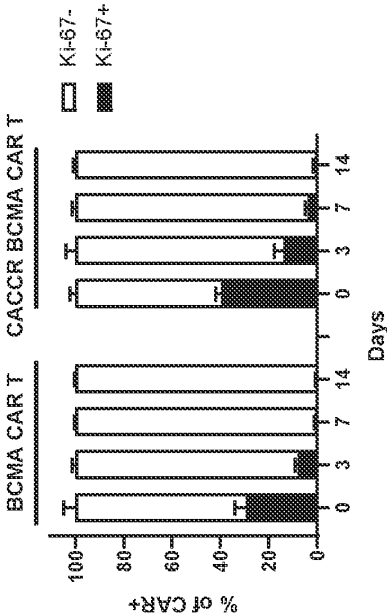


FIG. 22C



CAR T cells + iTargets + IL-2

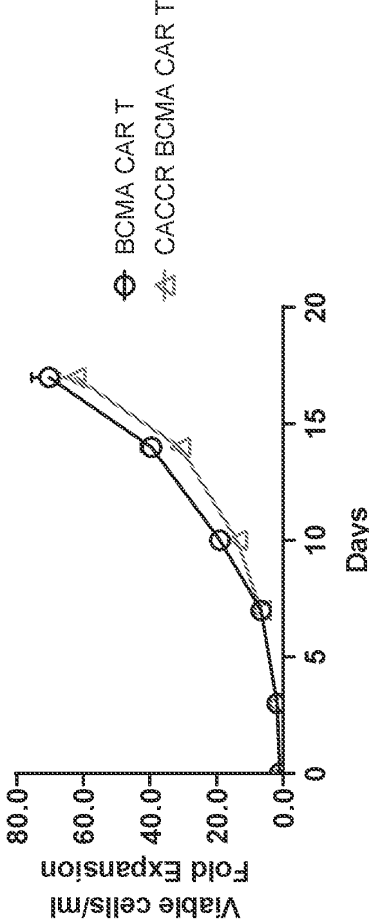


FIG. 22D

FIG. 23A

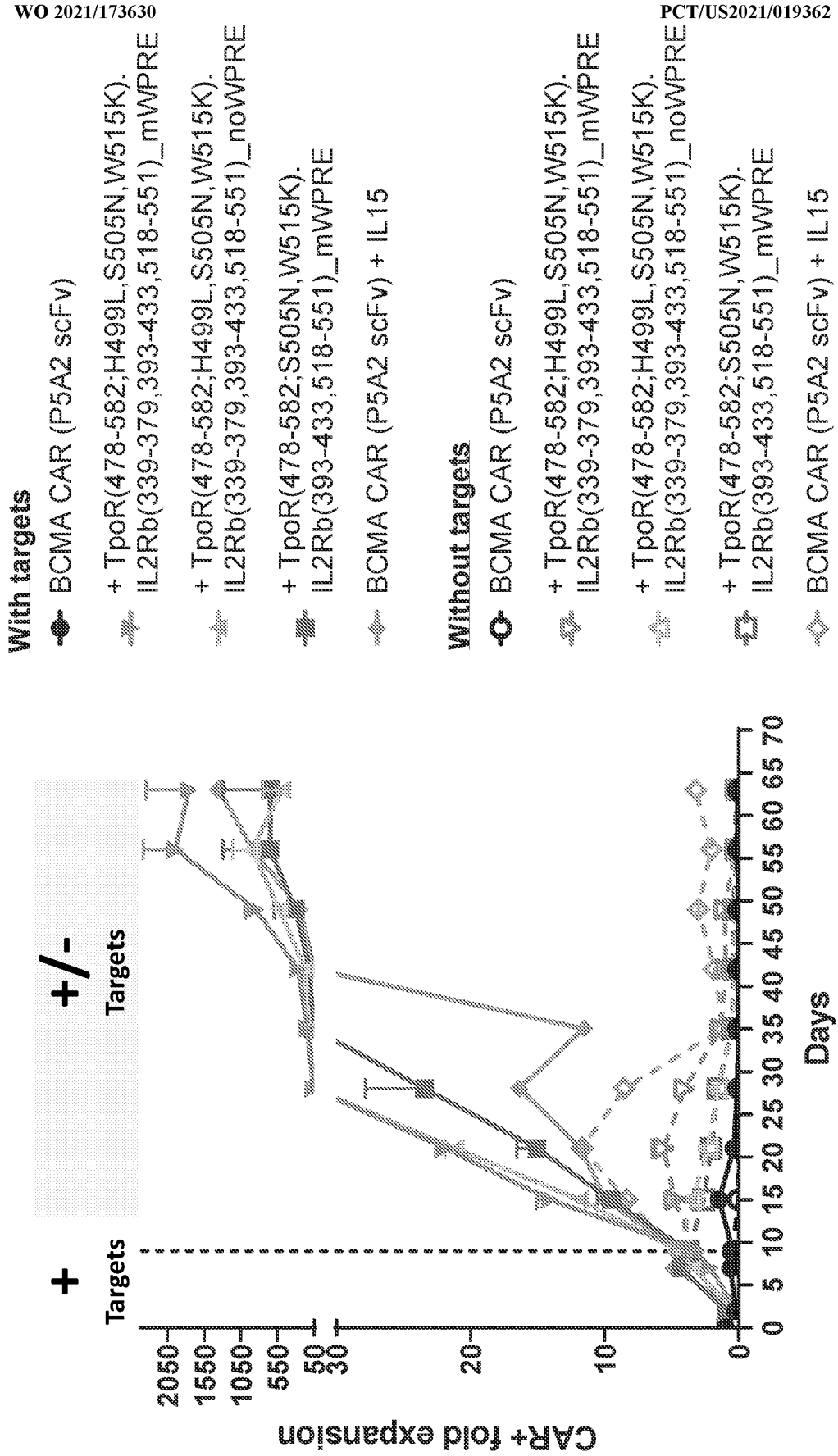


FIG. 23B

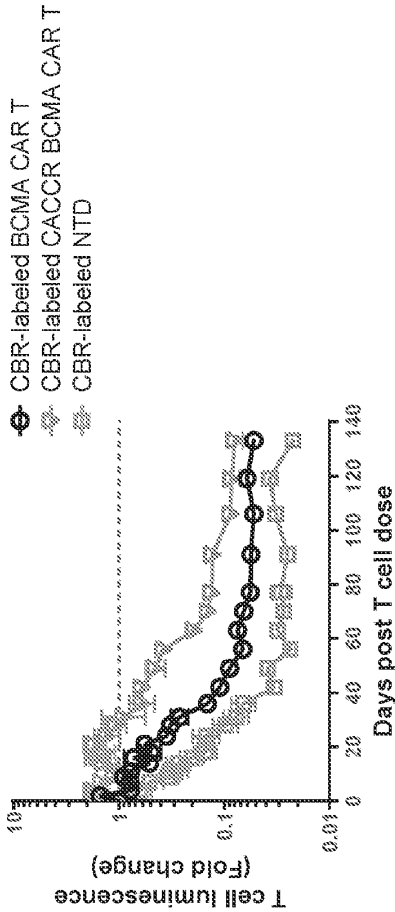


FIG. 23C

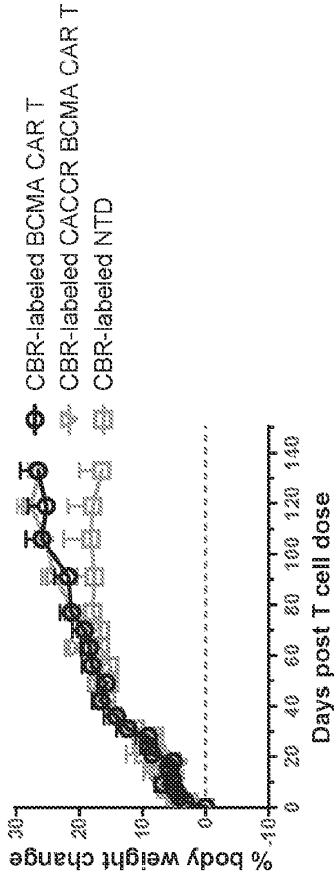
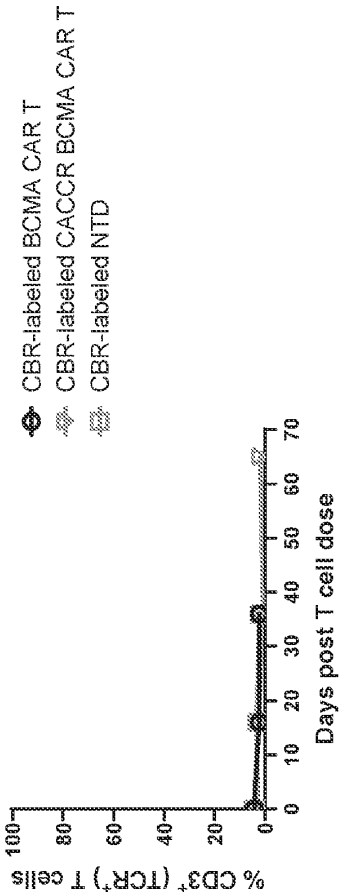


FIG. 23D



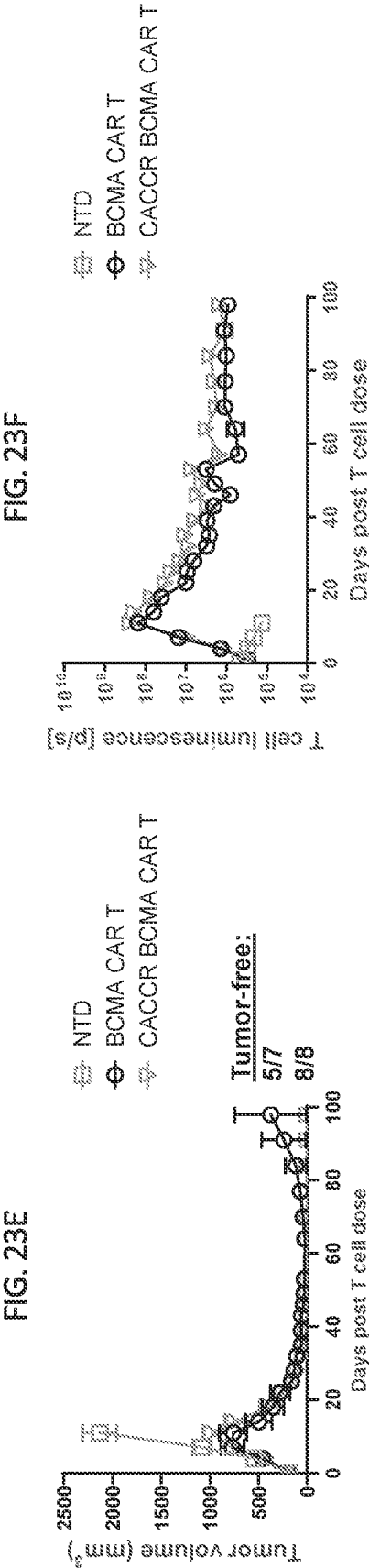


FIG. 23F

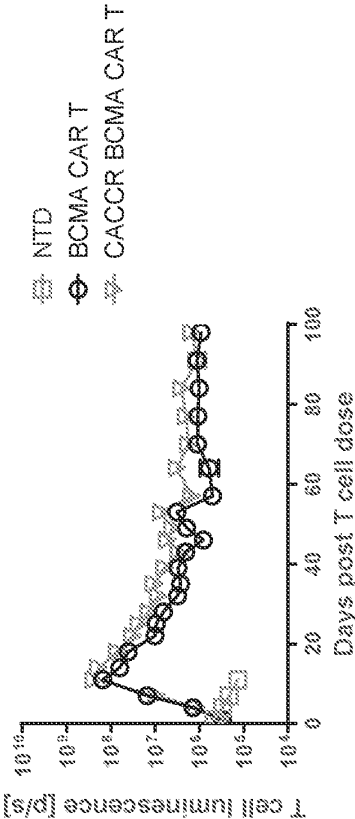


FIG. 23G

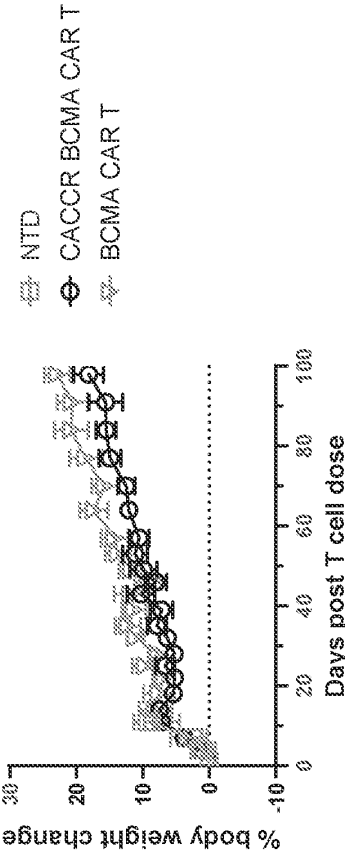


FIG. 24B

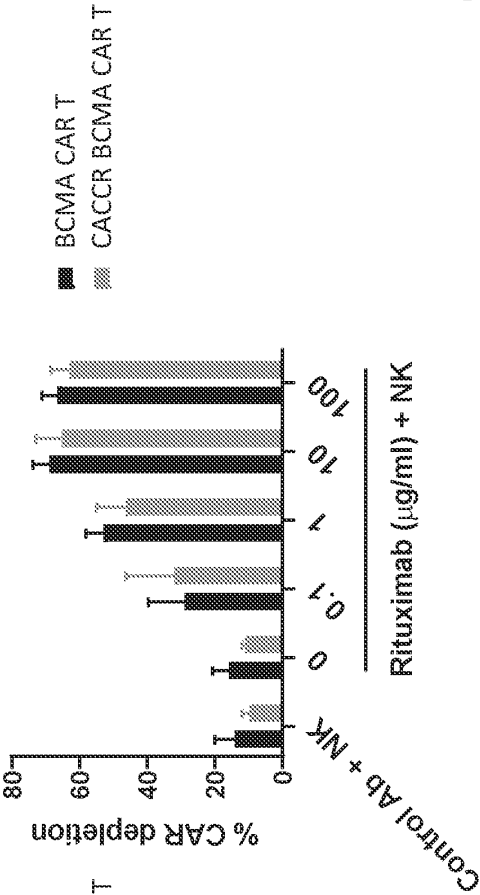
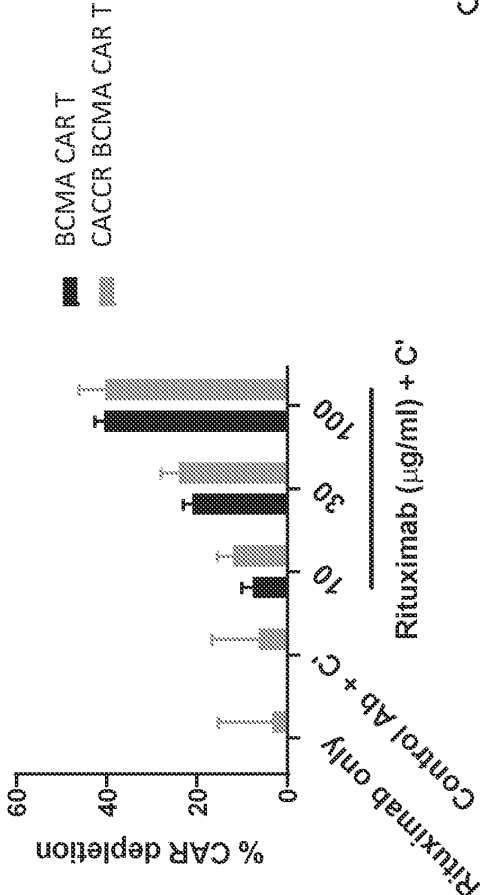


FIG. 24A



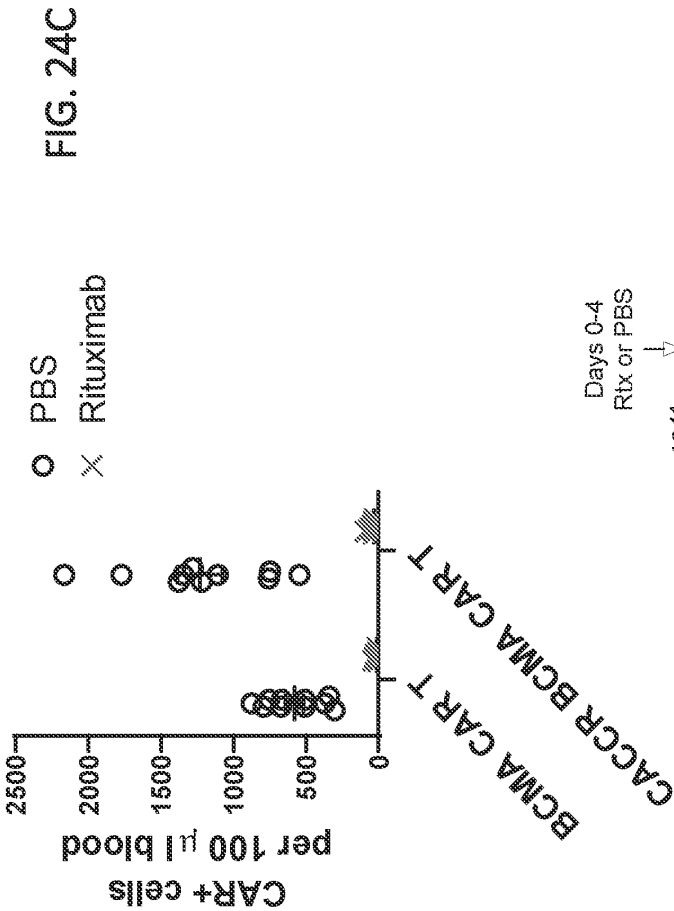


FIG. 24D

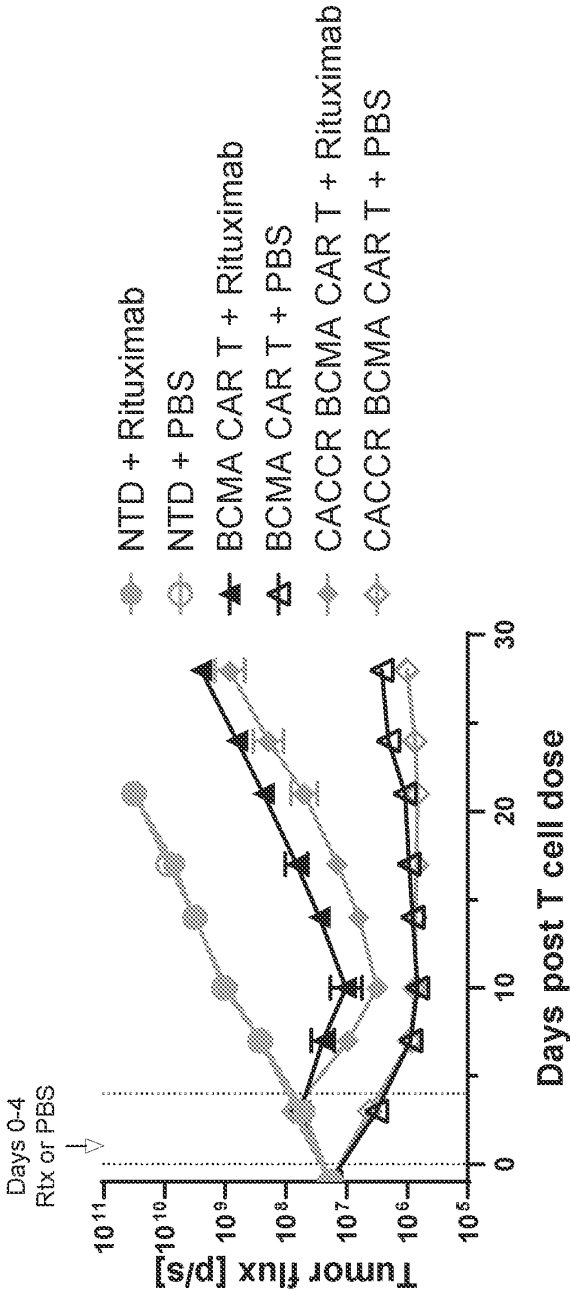
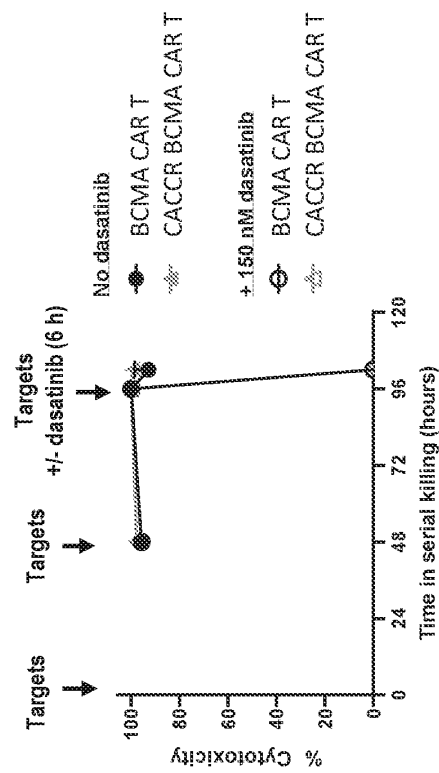
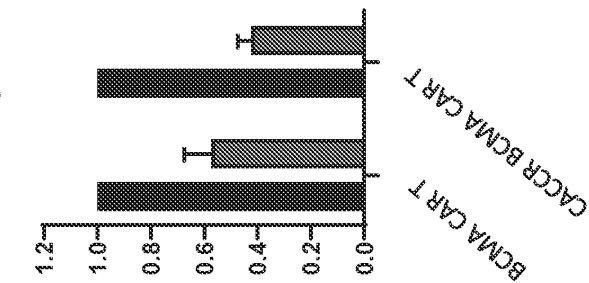


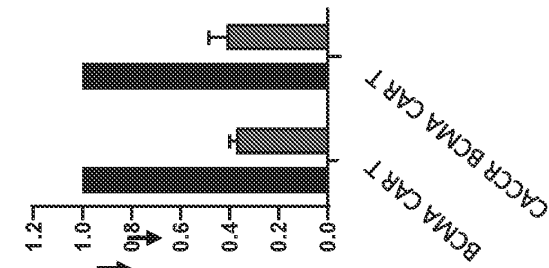
FIG. 25A



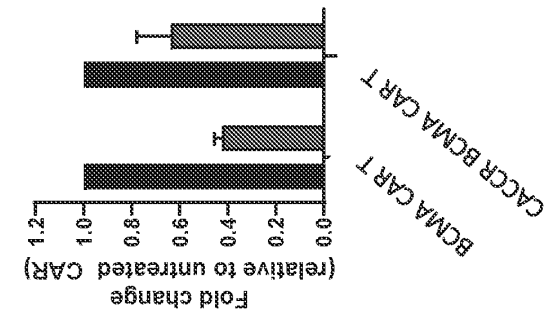
IL-6



IFN γ



IL-2



GM-CSF

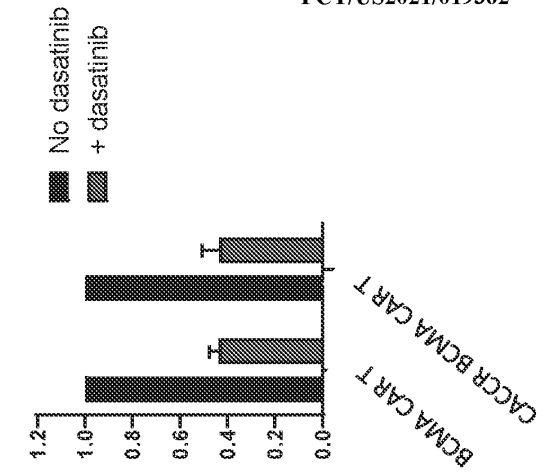


FIG. 25B

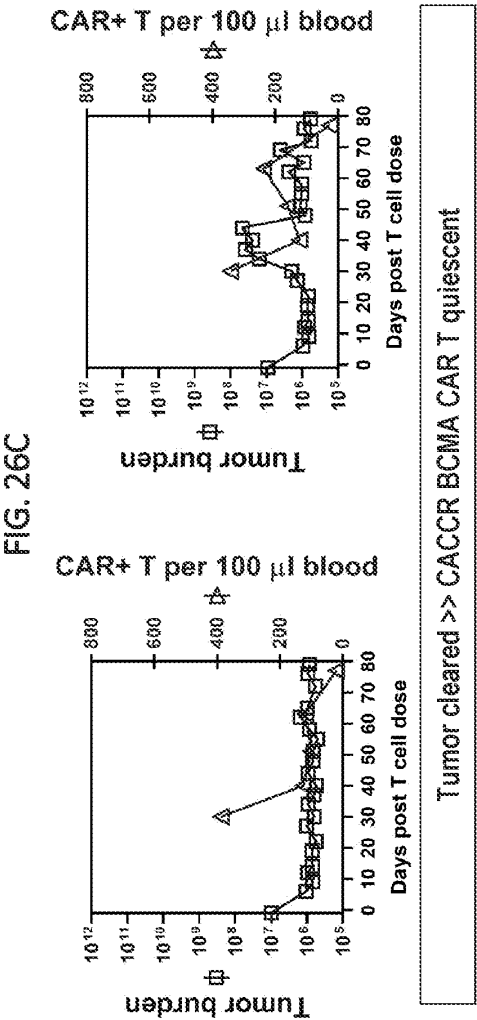
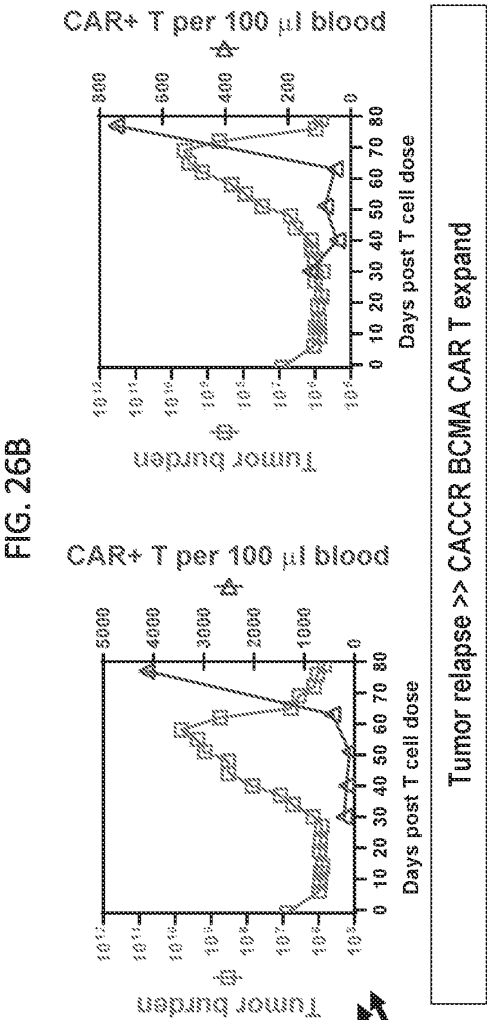


FIG. 27A

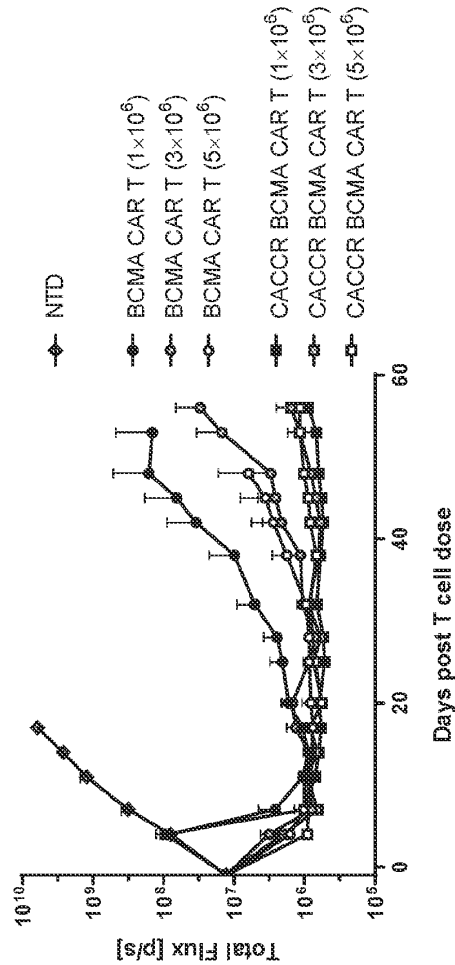


FIG. 27B

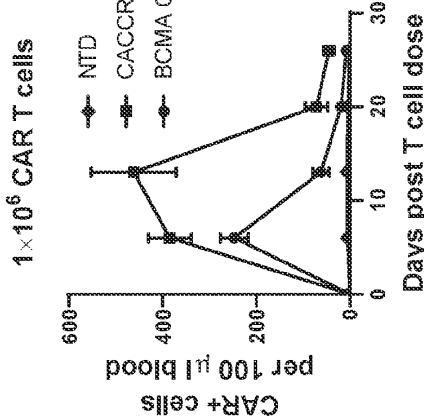


FIG. 27C

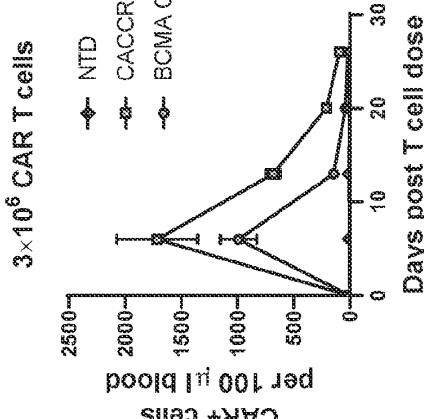


FIG. 27D

