



**Supplemental Figure 1. *CD4 T cell expansion is more robust in subjects not vaccinated in the prior season.*** Healthy subjects vaccinated with seasonal influenza vaccine were stratified into two groups based on self-reported vaccination status from the previous season. Those subjects that received influenza vaccine in the previous season are indicated here as “V” (closed symbols) and subjects that had not received influenza vaccine in the previous season are indicated here as “UV” (open symbols). In panel A, CD4 enriched populations were stimulated with pools of peptides from H1 (upper left), H3 (upper right), HA-B (lower left) or tetanus and rubeola (T+R, lower right) as a control antigen and evaluated for IFN $\gamma$  production using enzyme-linked immunospot (ELISPOT) analyses. Shown is the response at day 0 and day 14 with the average response indicated by a red line. In panel B the change in response, represented as the fold change (D14/D0) is shown. The average, indicated by a red line and the p values calculated using the Mann-Whitney U test are indicated in the upper left corner of each panel.