



**Supplementary Fig. 1** Vaccinees were grouped to low ( $ID_{50} < 60$ ), moderate ( $ID_{50} 60-320$ ), and high ( $ID_{50} > 320$ ) neutralization titer groups based on the neutralization titer at 6wk sample. Neutralization titers against D614G (B.1), Alpha (B.1.1.7), and Delta (B.1.617.2) were compared at 6 weeks, 3 months, and 6 months post vaccination. The fold changes between 6wk and 6mo samples were calculated. High neutralization titer group is shown on the left and moderate neutralization titer group on the right with individual trajectories for each sample. Low neutralization titer group is not shown due to no samples or low number of samples; B.1  $n=0$ , B.1.1.7  $n=1$ , and B.1.617.2  $n=3$ .