HAI Protocol

**Haemagglutinin inhibition assay for quantitating seasonal influenza virus neutralizing antibodies.** Briefly, two-fold serial dilutions of human sera were mixed and pre-incubated in 96-well plates for 30 min at room temperature with 8 haemagglutinin units of virus (H1N1 A/Brisbane/59/2007 and H3N2 A/Brisbane/10/2007) per well.  Turkey red blood cells were used for detection of neutralizing antibodies against H3N2 A/Brisbane/10/2007, whereas chicken red blood cells were used or detection of neutralizing antibodies against H1N1 A/Brisbane/59/2007. Red blood cells were added at a final concentration of 0.25 % per well and the plate was incubated at room temperature C for 30 min. Neutralizing antibody titers were determined as the reciprocal value of the highest dilution that displayed no haemagglutinating activity.