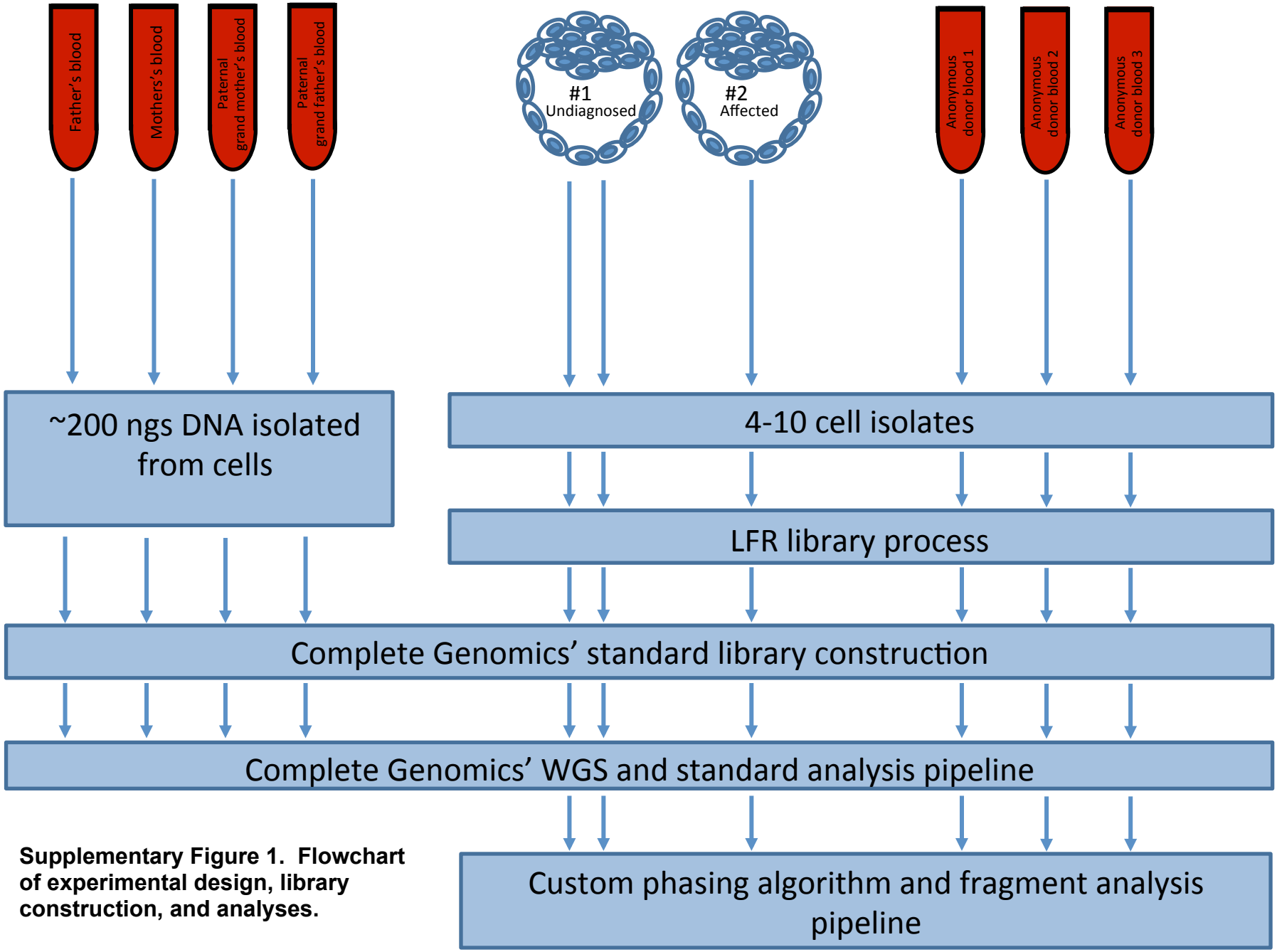
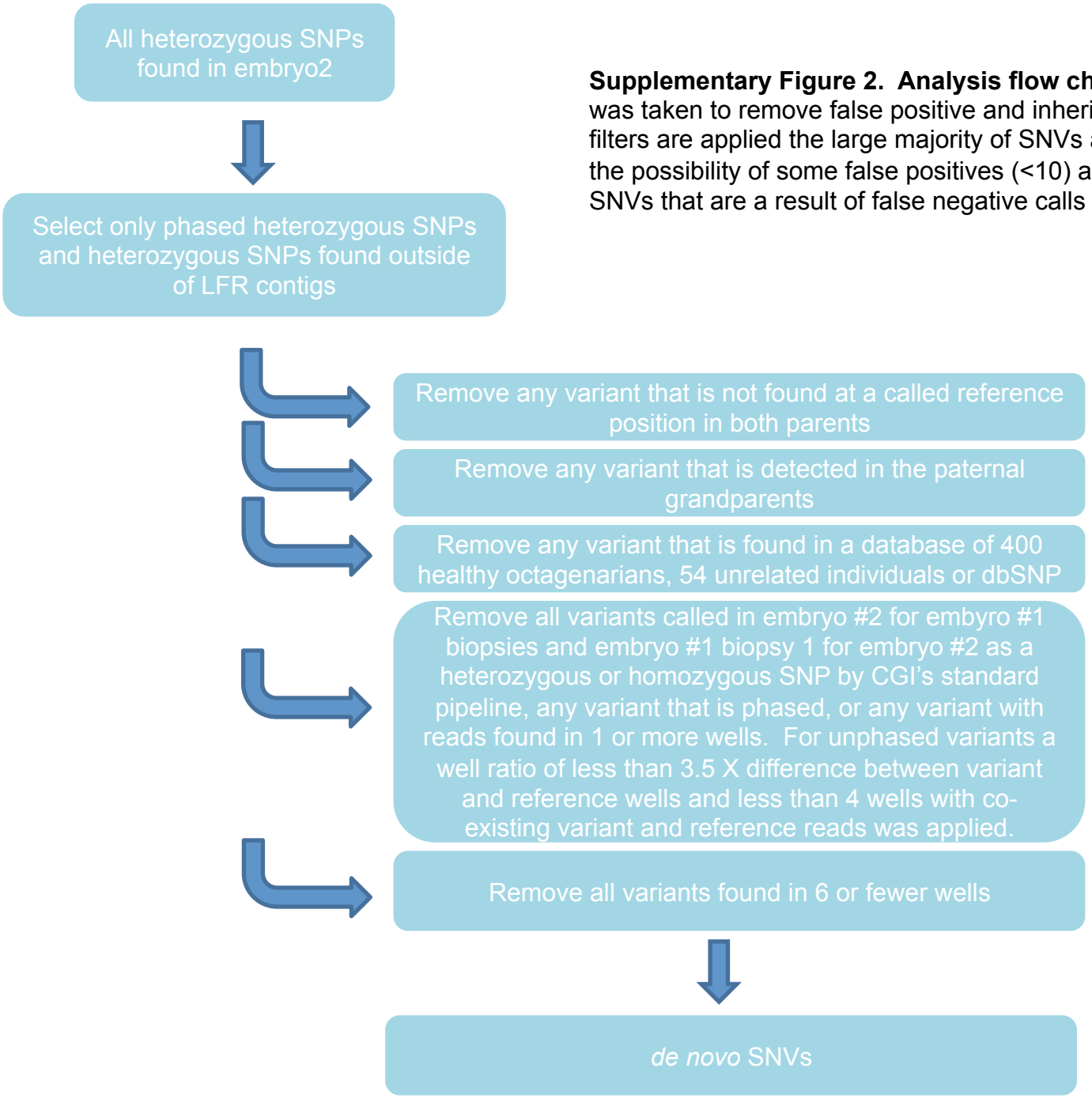
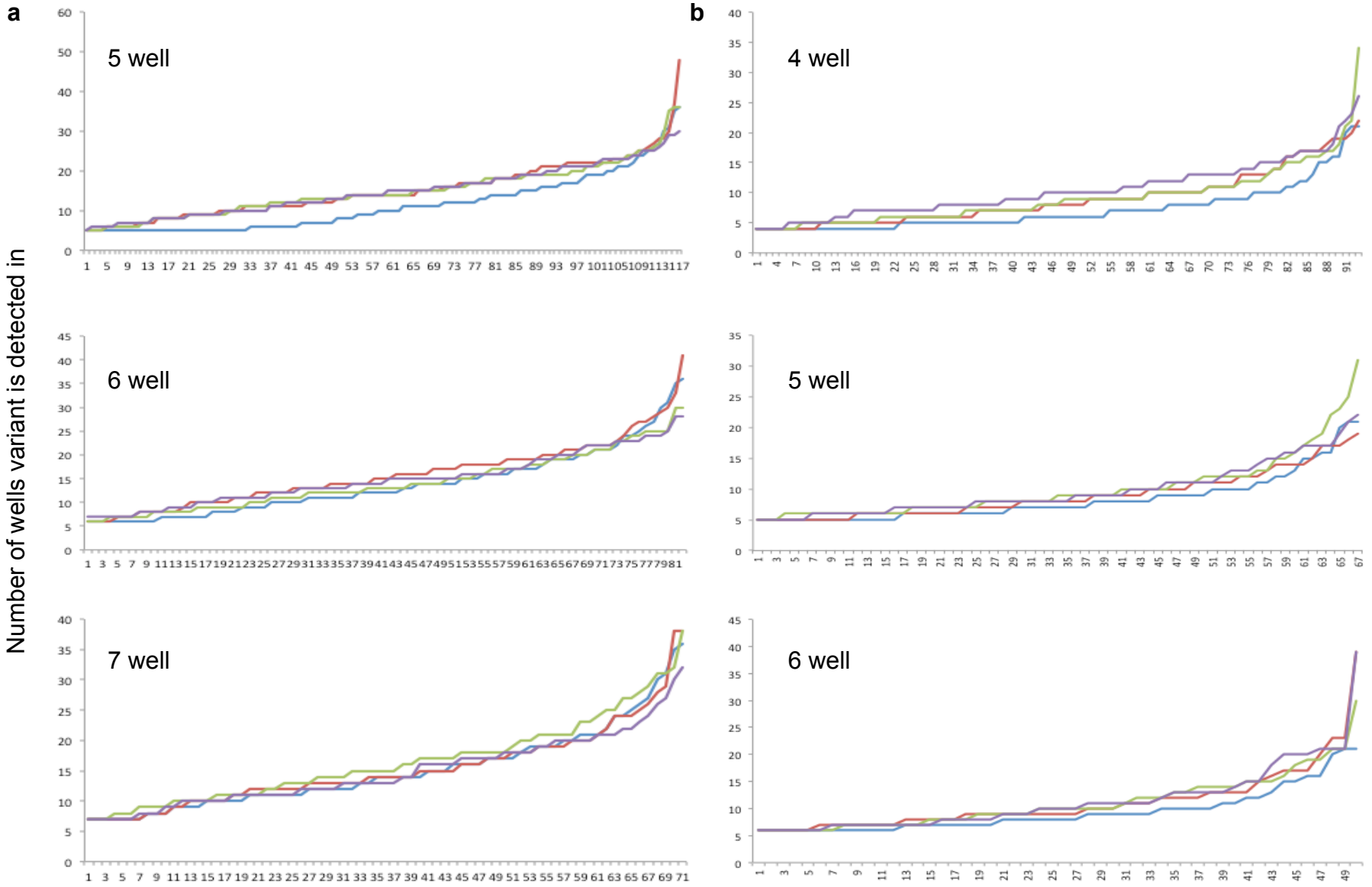


Supplementary Figure 1. Flowchart of experimental design, library construction, and analyses.



Supplementary Figure 2. Analysis flow chart. This series of steps was taken to remove false positive and inherited SNVs. After these filters are applied the large majority of SNVs are *de novo*. There is still the possibility of some false positives (<10) and possibly a few inherited SNVs that are a result of false negative calls in the parents.



Supplementary Figure 3. *De novo* detection and false positive removal well threshold analysis. Different well thresholds were analyzed to determine which wells resulted in de novo like SNVs sharing similar properties to 3 random groups of inherited variants. Number of wells a variant was found in was plotted for each variant after first applying the well threshold and then sorting variants based on the number of variant wells for a, embryo #1 biopsy 1, and b, embryo #2. *De novo* variants are plotted in blue, all other colors are randomly selected inherited variants. A well threshold of 6 was used for additional analyses.