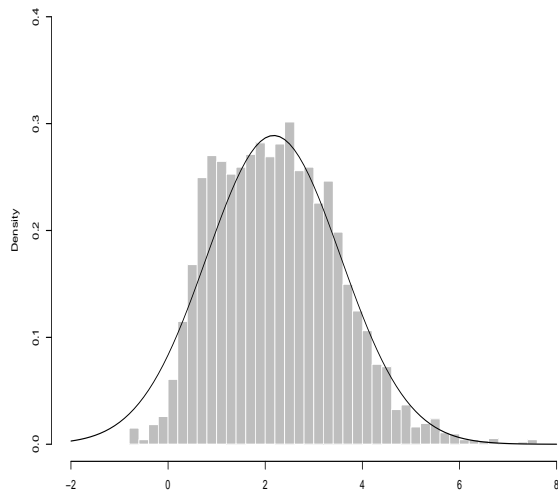
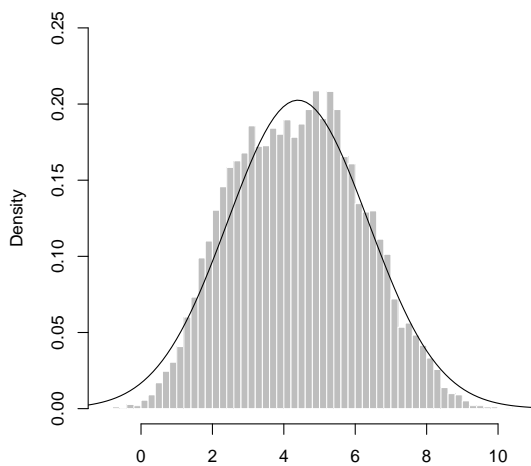


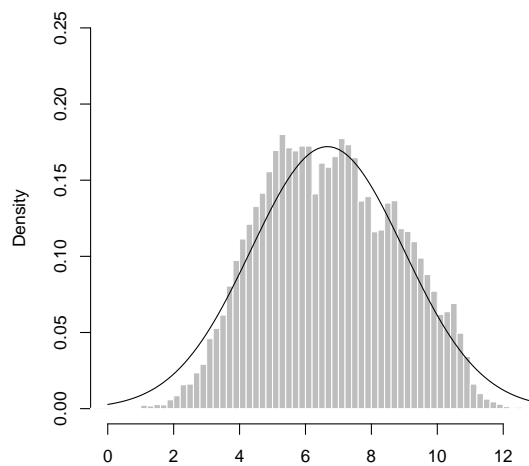
(a) HIV-1A



(b) HIV-1B



(c) HGU95A, gcRMA



(d) HGU133A, gcRMA

**Figure 1:** Histograms of robust empirical estimates of  $a_g$ 's with fitted Lognormal density curves shown on a log scale under the extended Gamma-Gamma modeling framework. The hyperparameters  $\xi$  and  $\eta$  are estimated using a robust version of the method of moments. The graphs for the HGU95A and HGU133A spike-in data are for one of the comparisons made between two array groups.