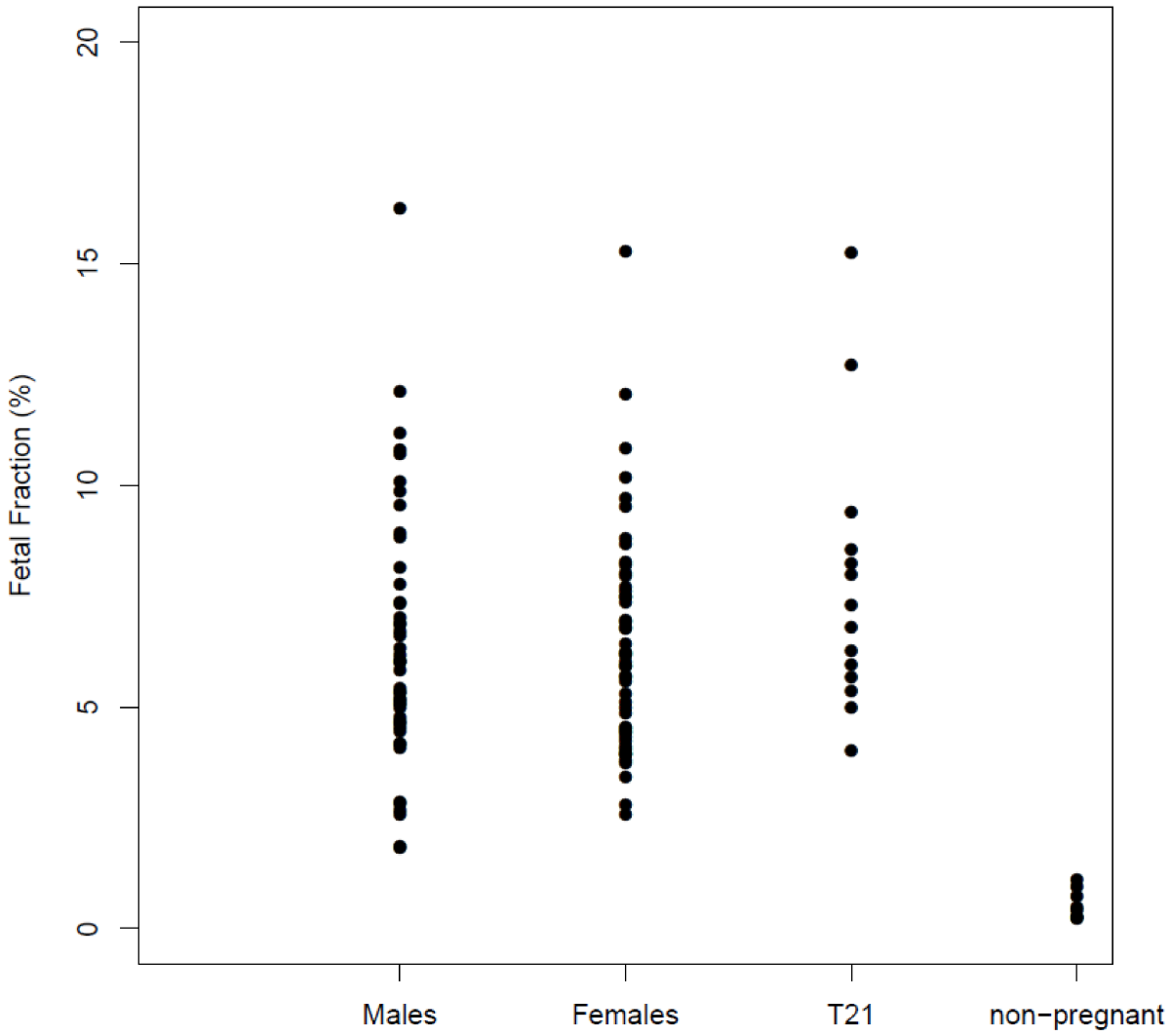


**Fig 3. Comparison between male and female pregnancies and aneuploidy samples**

The performance of the assay was evaluated using 123 samples including 51 female and 58 male euploid samples and 14 trisomy 21 samples. The performance between male (n=51) and female (n=59) pregnancy samples did not differ (p-value=0.97; Wilcoxon test). The fetal fraction estimation accuracy was further assessed on 14 trisomy 21 samples showing comparable performance to the euploid male samples (p-value=0.13; Wilcoxon test). The maternal background (noise) level at very low fetal fractions was assessed using 8 non-pregnant samples. The estimated fetal fractions ranged from 0.2% to 1.09%.