Figure 3. Impact of sample number and size on detection of non-neutrality in the human gut data. The figures show the pseudo p-values for neutrality for both the complete neutral model (P_G) and local community assembly (P_L). We generated ten replicate communities by sampling without replacement either 20, 50, 100 or 200 samples from those that had 1,000 reads or greater (247 in total) and from the selected samples we generated a fixed number of reads sampling with replacement. We increased read numbers from 20 individuals per sample to 400 inclusive in increments of 20. We then tested the subsampled communities for neutrality.