

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Genome characteristics of all sequenced *H. pylori* isolates. Assembly metrics of draft and complete genomes.

File Name: Supplementary Data 2

Description: High-frequency host-variable genes within 10 *H. pylori* populations. Functionally annotated version of the data presented in Table 2.

File Name: Supplementary Data 3

Description: Non-synonymous mutations associated with gastric regions in 10 *H. pylori* populations. Genes containing polymorphisms with significant association to gastric regions. FDR-adjusted p-values are displayed for Fisher's exact test performed with the original sampling region of each isolate (uncorrected), the region corrected for recent migration event up to 1 year or 6 months.