Beta Diversities: measured by Braycurtis- dissimilarity distance matrices and Jaccard similarity coefficient, analyzed using analysis of molecular variance (AMOVA).

Supplementary table 2: Biopsy site

Phenotype	Biopsy site	p- value (Braycurtis)	p-value (Jaccard)
SG	Antrum-Body-Fundus	0.93	0.221
AG	Antrum-Body-Fundus	0.97	0.903
IM	Antrum-Body-Fundus	0.56	0.083
GC	Cardia-Noncardia	0.86	0.456

Supplementary table 3: Disease Phenotype

Category	p- value (Braycurtis)	p-value (Jaccard)
SG-AG	0.99	0.96
SG-IM	0.31	0.14
SG-GC	0.031^{*}	0.018^{*}
AG-IM	0.21	0.29
AG-GC	0.031^{*}	0.082
IM-GC	0.038^{*}	0.0023^{*}

SG: Superficial gastritis
AG: Atrophic gastritis
IM: Intestinal metaplasia
GC: Gastric cancer