



Supplementary Figure S3. Associations of *Lactobacillus* abundance with race, vaginal pH, and HPV status. Violin plots depict relative abundance of *Lactobacillus* spp. between the groups based on race (A), vaginal pH (B), and HPV status (C). *P* values were calculated using Wilcoxon rank sum test. *Lactobacillus* spp. were significantly more abundant in women with normal pH (≤ 4.5) and tended to be more abundant in hrHPV-negative individuals. No difference in *Lactobacillus* abundance was observed between Native American or non-Native American women.