



Generalized UniFrac PCoA  
 (95% confidence levels assuming normal (---) distribution and 95% confidence ellipses (—))

**S3 Fig: Beta-diversity (generalized UniFrac) of CU, MU, pswab and vswab samples visualized by principal coordinates analysis (PCoA).** Permutational multivariate analysis of variance using distance matrices (PERMANOVA) shows sample type as significant factor explaining observed beta-diversity partly ( $R^2 = 0.17$ ,  $p = 0.001$ ).

CU: catheter urine; MU: midstream urine; pswab: periurethral swab; vswab: vaginal swab