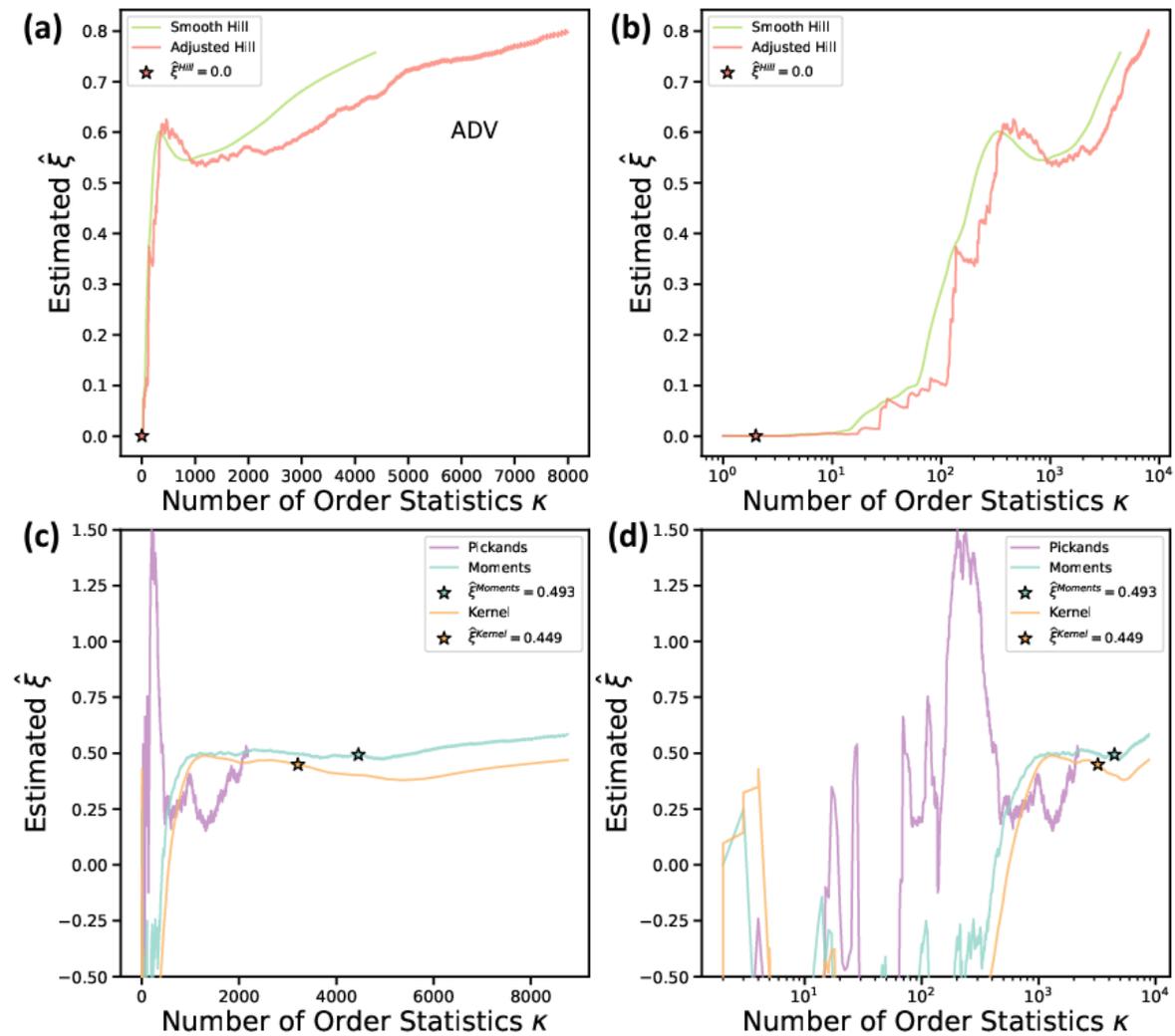
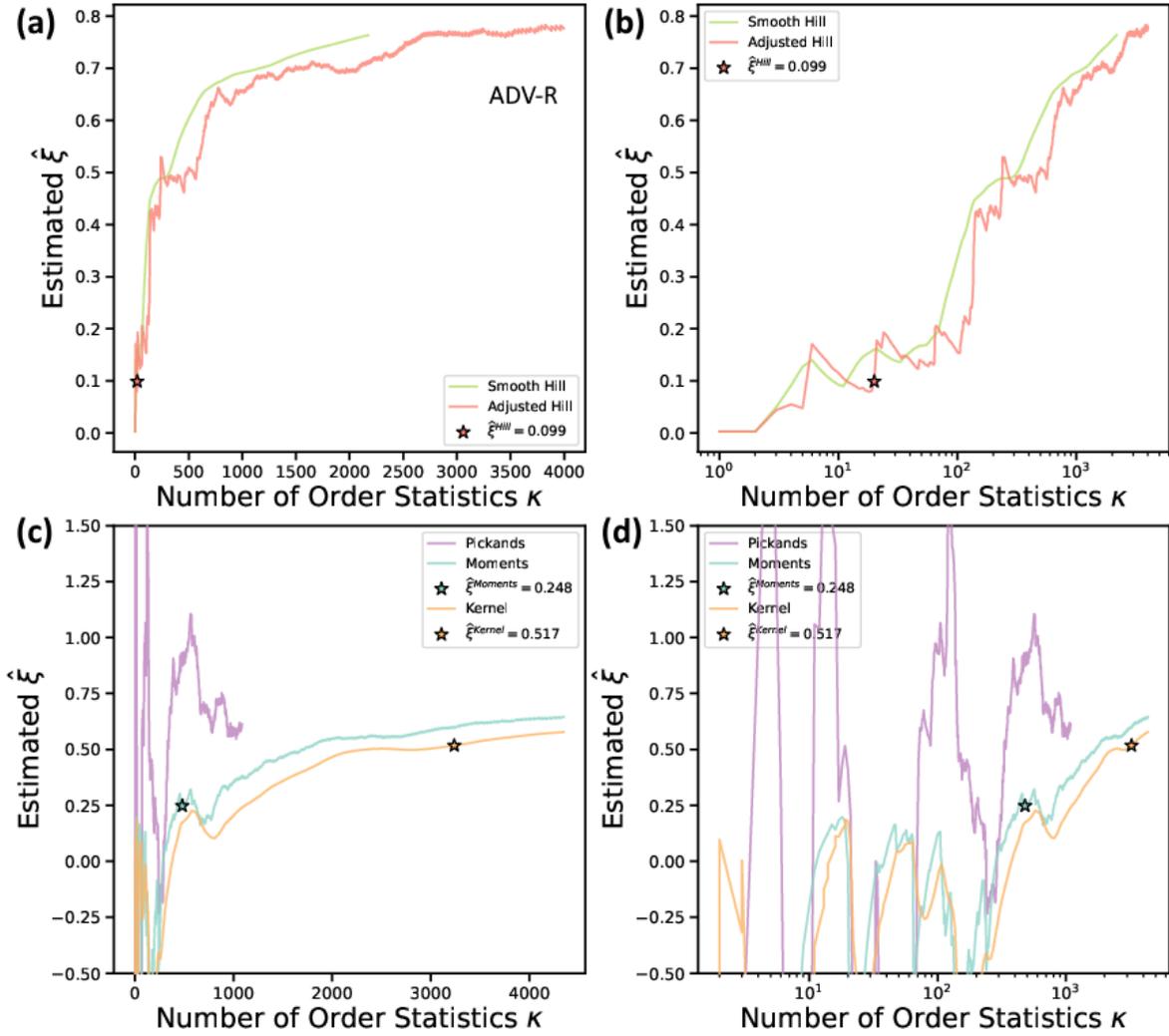


Statistical distributions of genome assemblies reveal the contribution of random effects in ancient viral DNA reconstructions

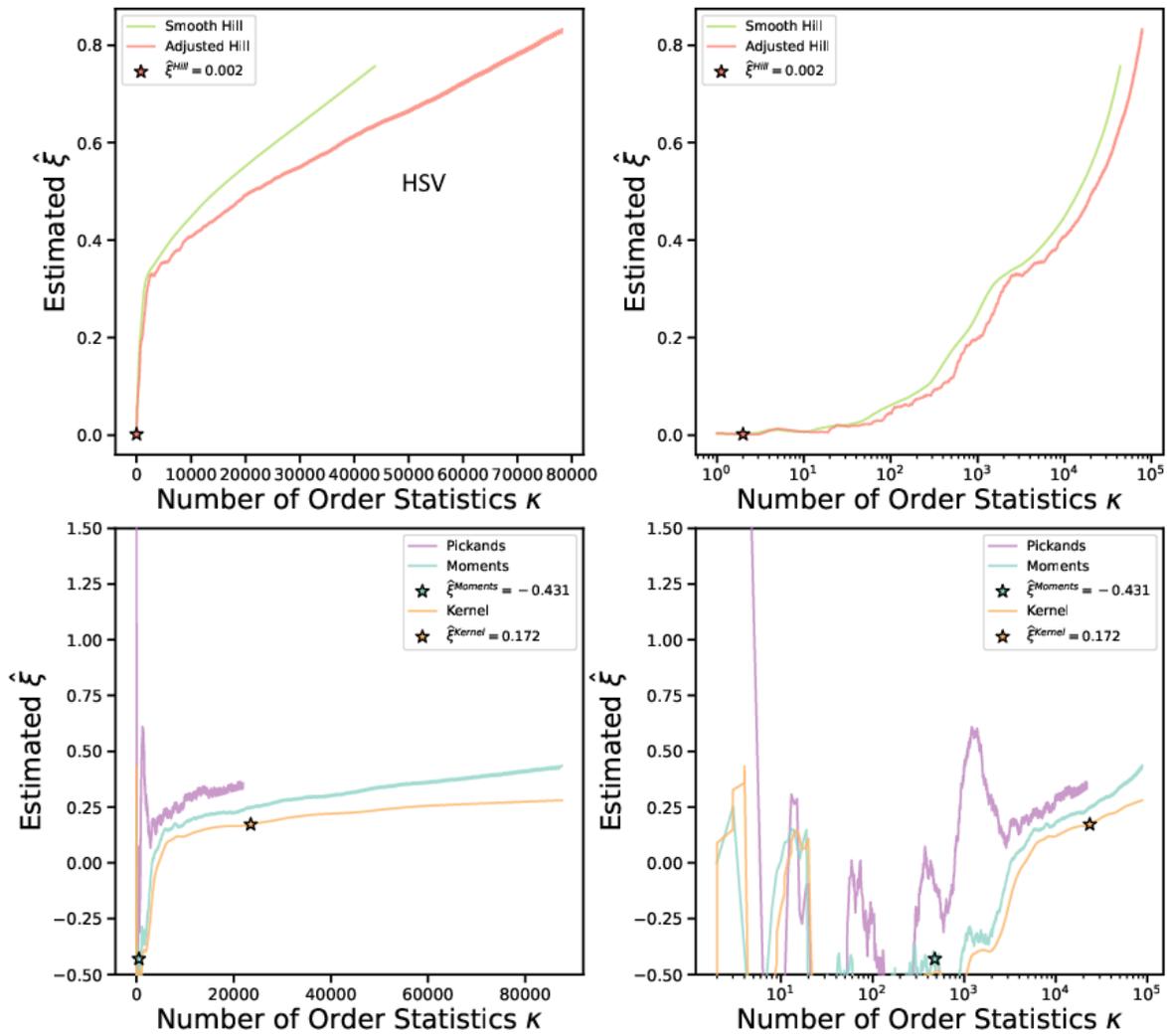
Supplementary Figures



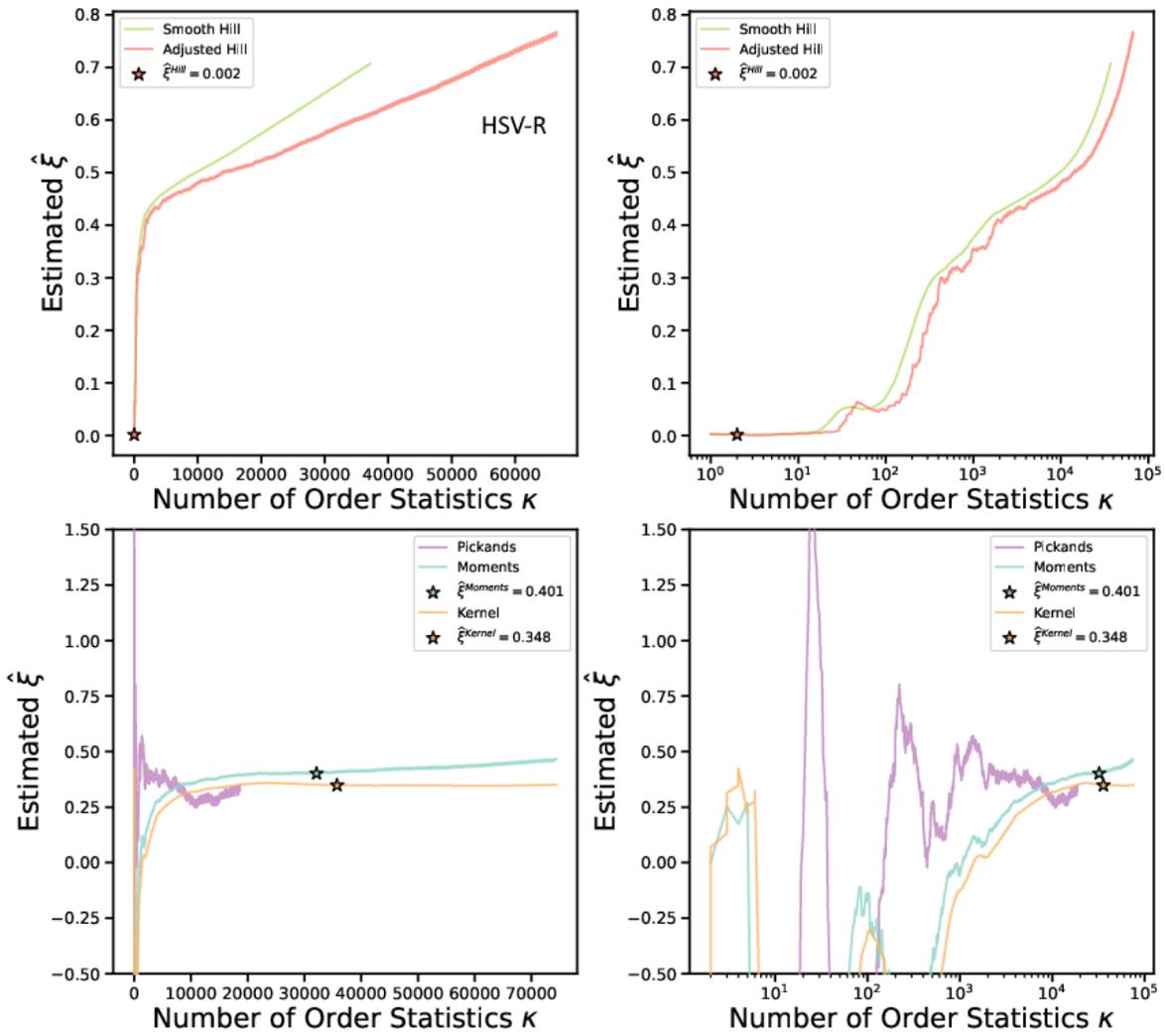
**Supplementary Figure S1.** ADV assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



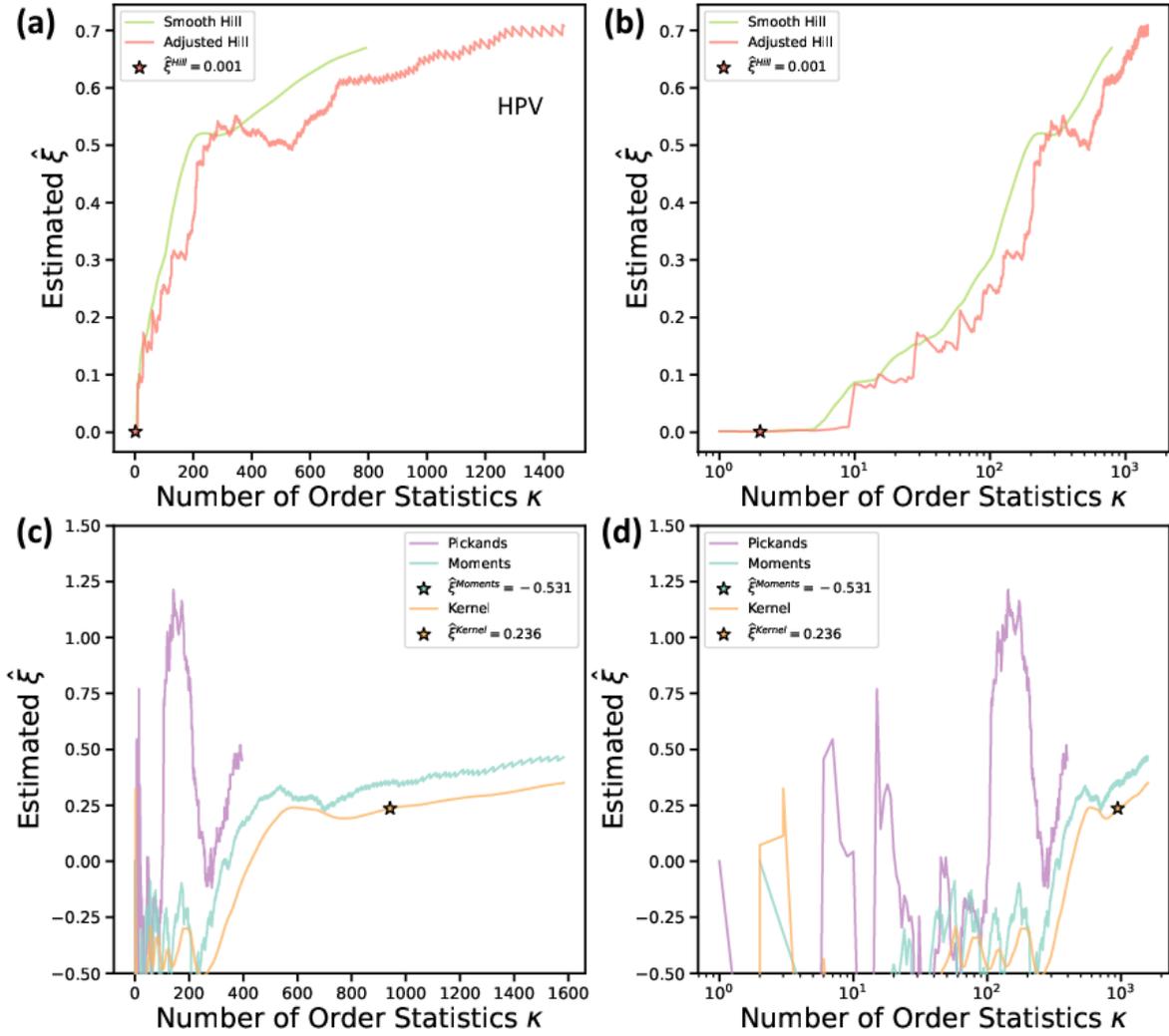
**Supplementary Figure S2.** ADV-R assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



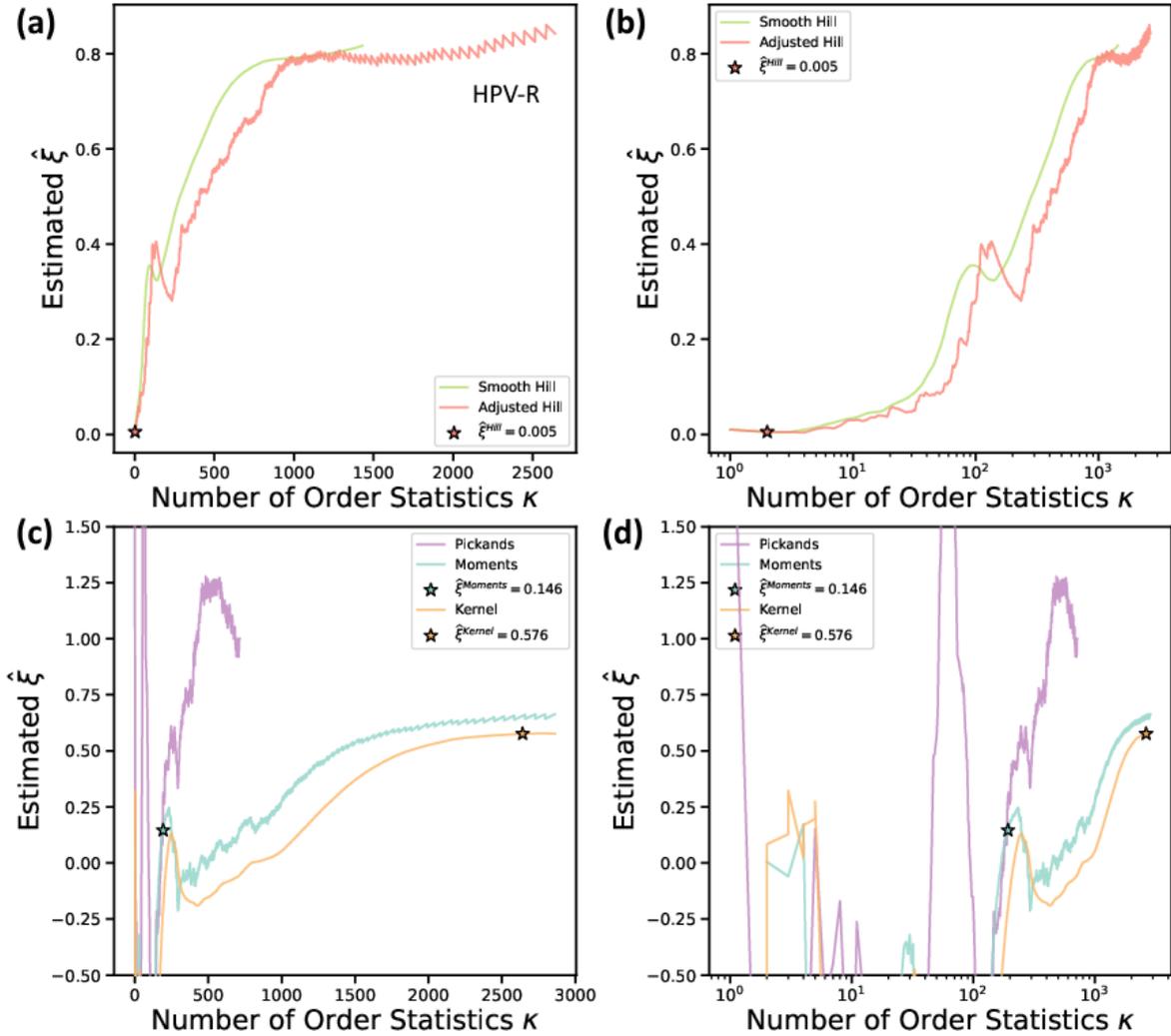
**Supplementary Figure S3.** HSV assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



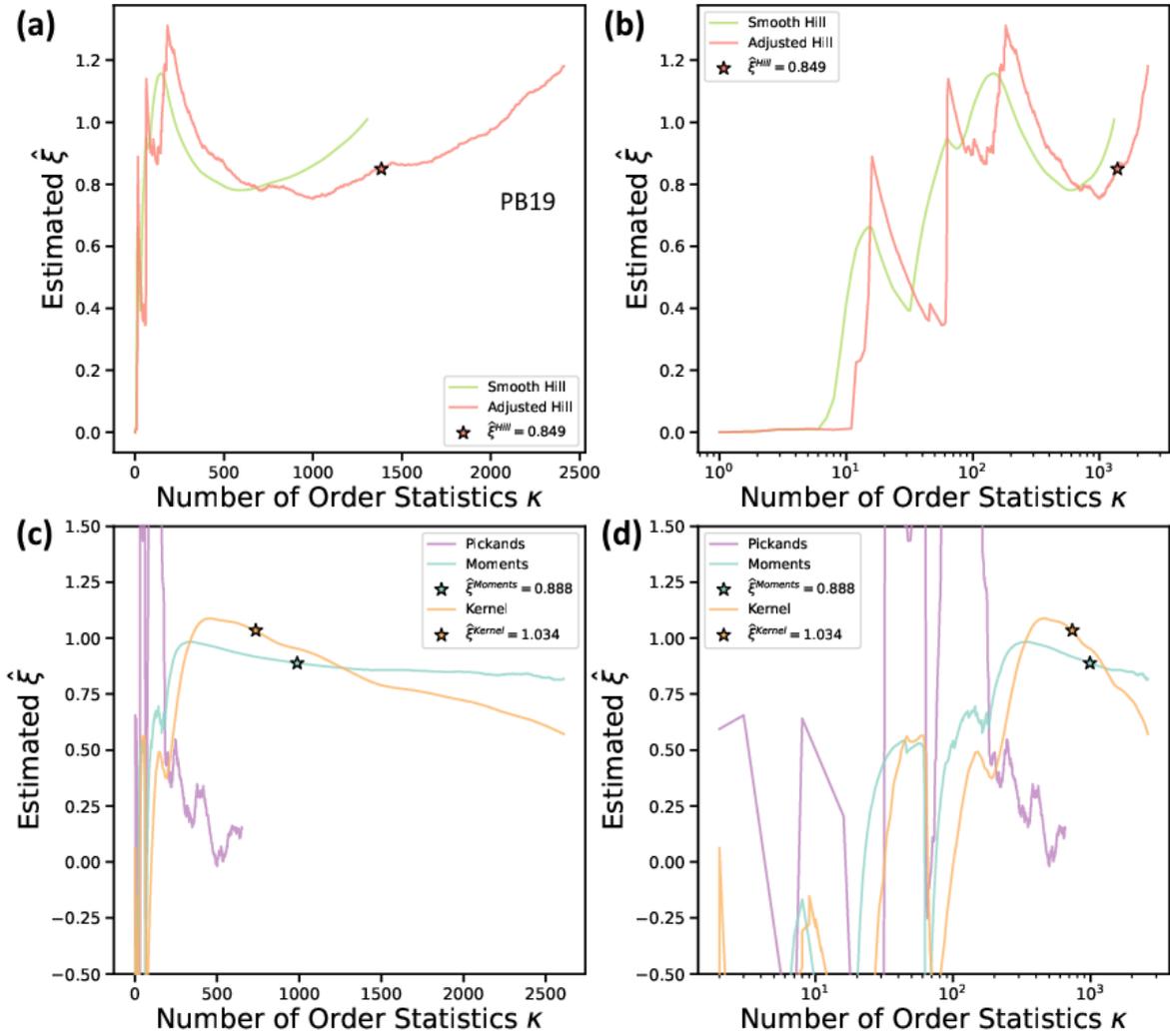
**Supplementary Figure S4.** HSV-R assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



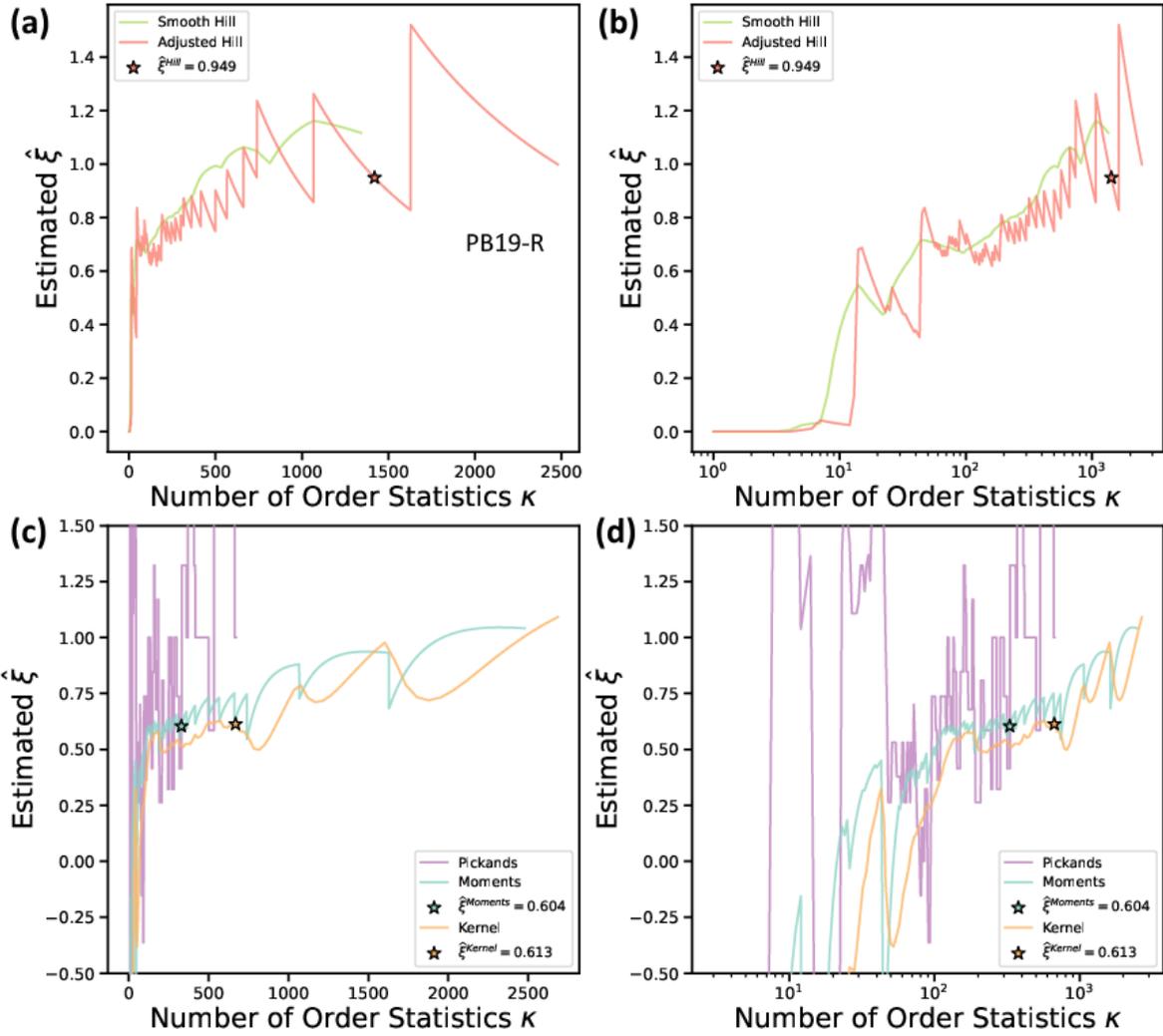
**Supplementary Figure S5.** HPV assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



**Supplementary Figure S6.** HPV-R assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



**Supplementary Figure S7.** PB19 assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).



**Supplementary Figure S8.** PB19-R assembly. Adjusted Hill (H) estimator and its smoothed version, in original scale (a) and log-scale (b) for the number of simulation steps (number of order statistics  $k$ ). Moments (M) and Kernel (K) estimators in original scale (c) and log-scale (d) for the number of simulation steps (number of order statistics  $k$ ).