New insights on single-stranded versus double-stranded DNA library preparation for ancient DNA - DTU Orbit (18/11/2018)

New insights on single-stranded versus double-stranded DNA library preparation for ancient DNA

An innovative single-stranded DNA (ssDNA) library preparation method has sparked great interest among ancient DNA (aDNA) researchers, especially after reports of endogenous DNA content increases >20-fold in some samples. To investigate the behavior of this method, we generated ssDNA and conventional double-stranded DNA (dsDNA) libraries from 23 ancient and historic plant and animal specimens. We found ssDNA library preparation substantially increased endogenous content when dsDNA libraries contained...