



Supplementary Figure S3. *Alouatta* (A, B, C) and *Macaca* (D, E, F) shoulder

abduction/adduction (A, D), protraction/retraction (B, E), long axis rotation (C, F) plots. Muscles: DC, deltoidus pars-circumflexus; DSp, deltoidus scapularis superior; DSp, deltoidus scapularis posterior. Negative angles and moment arms represent adduction (NRAD), retraction (PR), and internal rotation (LAR) while positive angles and moment arms represent abduction (A, D) and (B, E) and protraction (C, F). Crossing 0 reflects a change in function (Hutchinson et al., 2005).