**Supplemental Table 4.** Results of simulations modeling only 5 mixed sex individuals preserved at A.L. 333.

 **Dimorphism**

**Simulation Value Chimp Human Gorilla**

Lucy Template – CA (N=42) Mean (sd) < > Mean (sd) < > Mean (sd) < >

 BDI 1.207 1.161 (0.026) 965 45 1.203 (0.031) 612 388 1.286 (0.041) 23 977

 CV 11.75 9.48 (1.39) 946 54 11.57 (1.574) 573 427 15.28 (1.72) 17 983

Geometric Mean Method Mean (sd) < > Mean (sd) < > Mean (sd) < >

 Full Lucy Sample 1.299 1.117 (0.018) 1000 0 1.158 (0.026) 1000 0 1.244 (0.043) 897 103

 130% Lucy 1.179 1.117 (0.018) 998 2 1.158 (0.026) 794 206 1.244 (0.043) 54 946

 Single Lucy & 128/129 1.176 1.115 (0.019) 998 2 1.154 (0.026) 810 190 1.234 (0.043) 73 937