

Supplemental Information

**Genomic dynamics of the Lower Yellow River Valley
since the Early Neolithic**

Panxin Du, Kongyang Zhu, Minghui Wang, Zhaofeng Sun, Jingze Tan, Bo Sun, Bo Sun, Peixiao Wang, Guanglin He, Jianxue Xiong, Zixiao Huang, Hailiang Meng, Chang Sun, Shouhua Xie, Bangyan Wang, Dong Ge, Yongqiang Ma, Pengfei Sheng, Xiaoying Ren, Yichen Tao, Yiran Xu, Xiaoli Qin, Edward Allen, Baoshuai Zhang, Xin Chang, Ke Wang, Haoquan Bao, Yao Yu, Lingxiang Wang, Xiaolin Ma, Zhenyuan Du, Jianxin Guo, Xiaomin Yang, Rui Wang, Hao Ma, Dapeng Li, Yiling Pan, Bicheng Li, Yunfei Zhang, Xiaoqu Zheng, Sheng Han, Li Jin, Gang Chen, Hui Li, Chuan-Chao Wang, and Shaoqing Wen

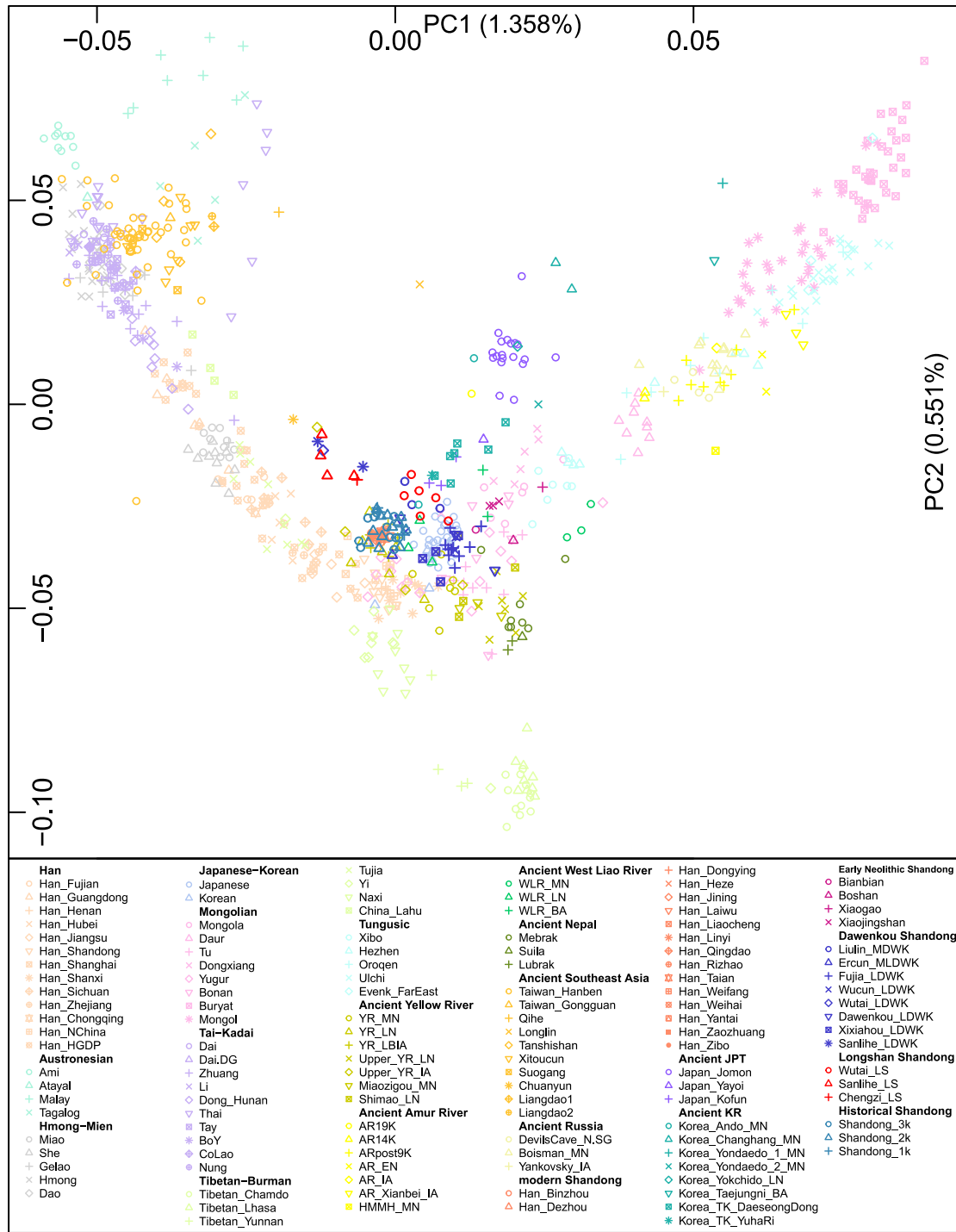


Figure S1. Principal Component Analysis (PCA) plot, related to Figure 2. PCA plot of modern East Asians and ancient Shandong populations.

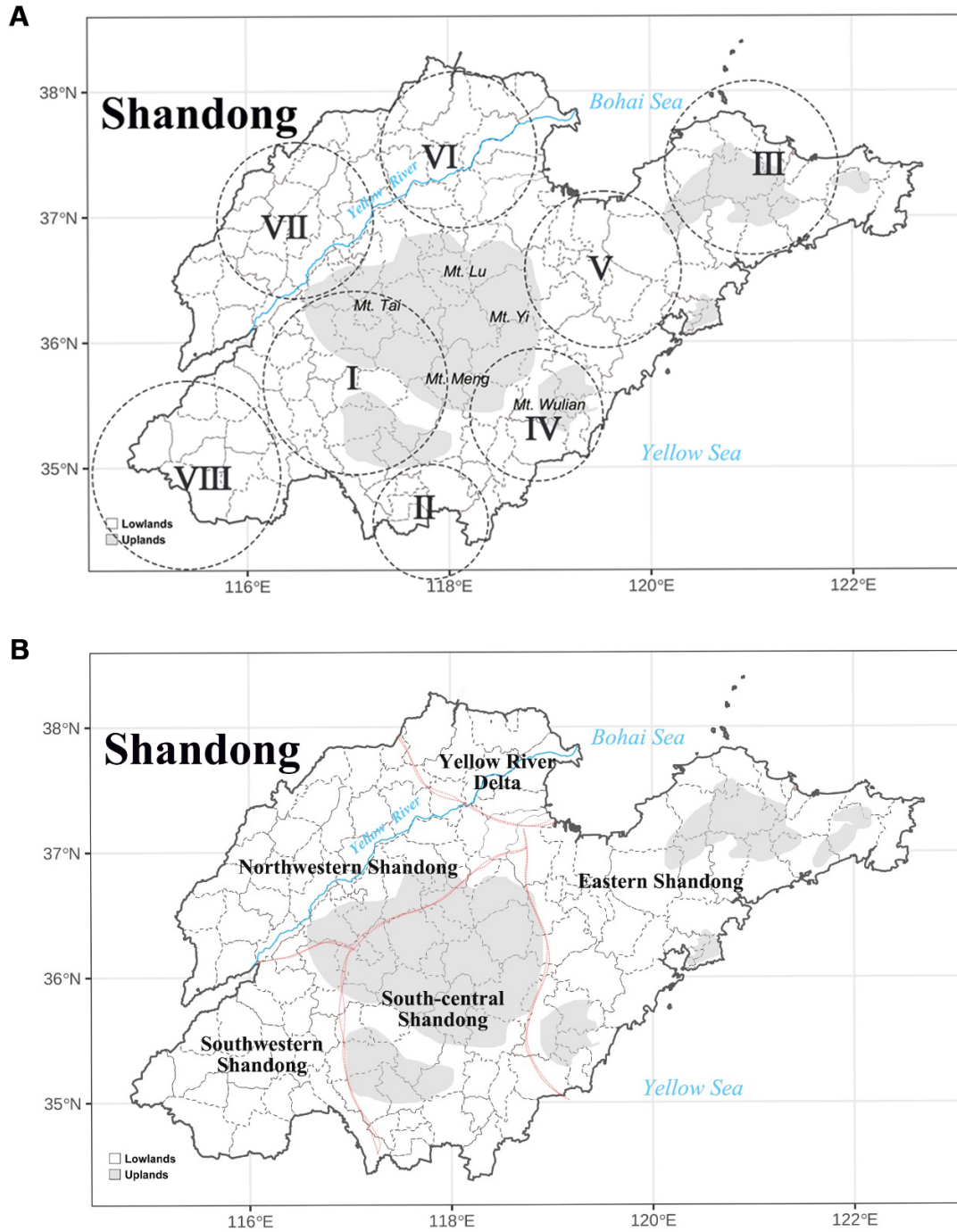


Figure S3. Geographical information of Shandong, related to Figure 1. (A) Eight smaller areas of the Dawenkou cultural sphere. (I: south-central Shandong, II: northern Jiangsu, III: Jiaodong Peninsula, IV: southeastern Shandong, V: Weihe river basin, VI: north-central Shandong, VII: northwestern Shandong, VIII: Southwestern Shandong) (B) Five geographic areas in Shandong.

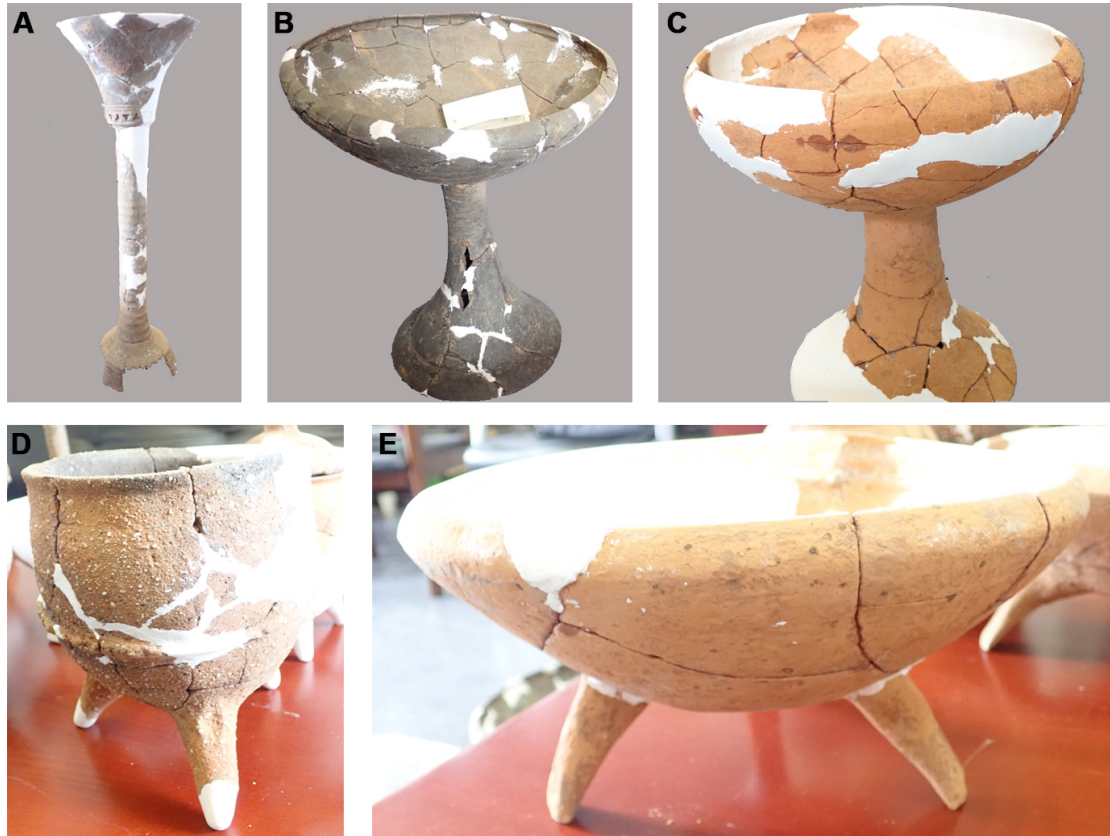


Figure S4. Typical pottery vessels in Andi Ercun Site, related to Figure 1. (A) grey *gu*-shaped cup (B) grey *dou* (C) orange *dou* (D) pot-shaped *ding* (E) tripod bowl. (Photo Credit: Xiaoli Qin, Fudan University).