**Table S1 Isotopic composition and quality indicators of animal samples.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample no.** | **Species** | **Dynasty** | **Phase** | **Skeletal element** | **Col wt.%** | **C wt.%** | **N wt.%** | **C: N** | **δ13C ‰** | **δ15N ‰** |
| 2018ZHM16 | *Gallus gallus* | The later period of the mid Western Han Dynasty | 1 | R. Humerus | 8.3 | 43.4  | 16.1  | 3.2  | -14.4  | 8.1  |
| 2018ZHM23 | *Gallus gallus* | The later period of the mid Western Han Dynasty | 1 | R. Femur | 6.7 | 43.2  | 15.9  | 3.2  | -19.3  | 7.7  |
| 2018ZHM23 | *Sus domestica* | The later period of the mid Western Han Dynasty | 1 | R. Humerus | 8.2 | 43.9  | 16.2  | 3.2  | -11.9  | 8.4  |
| 2018ZHM25 | *Sus domestica* | The later period of the mid Western Han Dynasty | 1 | Phalanx Ⅰ | 9.8 | 44.4  | 16.6  | 3.1  | -15.7  | 7.6  |
| 2018ZHM55 | *Sus domestica* | The later period of the mid Western Han Dynasty | 1 | R. Femur | 7.9 | 43.6  | 15.7  | 3.2  | -13.4  | 10.0  |
| 2018ZHM55 | *Gallus gallus* | The later period of the mid Western Han Dynasty | 1 | L. Femur | 2.7 | 41.2  | 15.0  | 3.2  | -14.0  | 7.8  |
| 2018ZHM55 | *Bos domestica* | The later period of the mid Western Han Dynasty | 1 | R. Calcaneus | 7.5 | 43.8  | 16.2  | 3.2  | -19.2  | 8.5  |
| 2018ZHM57 | *Canis familiaris* | The later period of the mid Western Han Dynasty | 1 | Metatarsal | 5.8 | 43.8  | 16.0  | 3.2  | -14.1  | 9.6  |
| 2018ZHM57 | *Sus domestica* | The later period of the mid Western Han Dynasty | 1 | R. Femur | 10.3 | 44.1  | 15.9  | 3.2  | -12.8  | 7.5  |
| 2018ZHM57 | *Gallus gallus* | The later period of the mid Western Han Dynasty | 1 | L. Femur | 11.4 | 43.9  | 15.8  | 3.2  | -14.9  | 5.2  |
| 2018ZHM57 | *Gallus gallus* | The later period of the mid Western Han Dynasty | 1 | R. Tarsometatarsus | 6.9 | 45.1  | 15.8  | 3.3  | -17.4  | 5.8  |
| 2018ZHM57 | *Bos domestica* | The later period of the mid Western Han Dynasty | 1 |  Rib | 3.1 | 43.5  | 16.1  | 3.1  | -19.4  | 5.6  |
| 2018ZHM57 | *Sus domestica* | The later period of the mid Western Han Dynasty | 1 | R. Radius | 11.4 | 43.8  | 15.9  | 3.2  | -15.4  | 10.0  |
| 2018ZHM6 | *Gallus gallus* | The late Western Han Dynasty | 2 | Sternum | 11.7 | 44.7  | 16.5  | 3.2  | -18.4  | 8.2  |
| 2018ZHM15 | *Gallus gallus* | The late Western Han Dynasty | 2 | L. Femur | 7.8 | 44.3  | 16.4  | 3.2  | -15.4  | 6.6  |
| 2018ZHM15 | *Gallus gallus* | The late Western Han Dynasty | 2 | L. Femur | 10.8 | 44.6  | 16.2  | 3.2  | -19.2  | 8.0  |
| 2018ZHM15 | *Sus domestica* | The late Western Han Dynasty | 2 | R. Humerus | 8.8 | 44.0  | 16.0  | 3.2  | -16.5  | 8.5  |
| 2018ZHM18 | *Gallus gallus* | The late Western Han Dynasty | 2 | R. Humerus | 7.5 | 45.1  | 16.4  | 3.2  | -18.8  | 9.1  |
| 2018ZHM19 | *Gallus gallus* | The late Western Han Dynasty | 2 | R. Tibiotarsus | 4.1 | 41.8  | 15.2  | 3.2  | -18.2  | 6.8  |
| 2018ZHM19 | *Sus domestica* | The late Western Han Dynasty | 2 | L. Femur | 7.8 | 42.7  | 15.7  | 3.2  | -14.0  | 8.7  |
| 2018ZHM28 | *Gallus gallus* | The late Western Han Dynasty | 2 | R. Tarsometatarsus | 4.7 | 43.3  | 15.2  | 3.3  | -18.2  | 13.2  |
| 2018ZHM28 | *Sus domestica* | The late Western Han Dynasty | 2 | R. Femur | 11.4 | 44.0  | 16.0  | 3.2  | -16.6  | 8.2  |
| 2018ZHM30 | *Gallus gallus* | The late Western Han Dynasty | 2 | L. Tibiotarsus | 2.7 | 42.6  | 15.8  | 3.1  | -18.2  | 9.5  |
| 2018ZHM54 | *Sus domestica* | The late Western Han Dynasty | 2 | R. Femur | 11.2 | 45.7  | 16.6  | 3.2  | -12.5  | 9.5  |
| 2018ZHM89 | *Gallus gallus* | The late Western Han Dynasty | 2 | L. Tarsometatarsus | 12.0 | 44.0  | 16.2  | 3.2  | -17.7  | 8.9  |
| 2018ZHM101 | *Gallus gallus* | The early Eastern Han Dynasty | 2 | R. Tibiotarsus | 4.1 | 42.6  | 15.5  | 3.2  | -14.1  | 7.3  |
| 2018ZHM101 | *Sus domestica* | The early Eastern Han Dynasty | 2 | L. Femur | 8.2 | 44.5  | 16.2  | 3.2  | -12.3  | 8.8  |
|  2018ZHM5 | *Gallus gallus* | Wangmang to the early Eastern Han Dynasty | 2 | L. Femur | 10.2 | 42.9  | 15.9  | 3.2  | -18.2  | 9.0  |
| 2018ZHM32 | *Ovis aries* | Wangmang to the early Eastern Han Dynasty | 2 | L. Tibia | 6.4 | 44.5  | 16.2  | 3.2  | -19.9  | 4.7  |
| 2018ZHM46 | *Gallus gallus* | Wangmang to the early Eastern Han Dynasty | 2 | L. Tibiotarsus | 10.3 | 43.7  | 16.1  | 3.2  | -17.0  | 7.4  |
| 2018ZHM58 | *Sus domestica* | Wangmang to the early Eastern Han Dynasty | 2 | R. Humerus | 8.1 | 44.1  | 16.1  | 3.2  | -13.4  | 10.2  |
| 2018ZHM115 | *Sus domestica* | Wangmang to the early Eastern Han Dynasty | 2 | R. Humerus | 6.9 | 42.1  | 15.3  | 3.2  | -14.3  | 11.2  |
| 2018ZHM14 | *Gallus gallus* | ？ |  | L. Humerus | 11.1 | 44.2  | 16.3  | 3.2  | -17.0  | 8.2  |