Supplementary Table S13: maximum average loading rate (calculated over a window of 0.5% stance during the initial 25% stance)-- MannWhitney U Test outcomes comparing limb and speed effects. \* denotes significant differences between fore- and hind limbs, or between walk and slow run.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  | **p value** | **Total N** | **Mann-Whitney U** | **Z** |
|  |  |  |  |  |  |
| Forelimb walk versus Hindlimb walk | Sheep |  0.003\* | 25 |  24.0 | -2.941 |
| Pig | 0.619 | 35 | 137.0 | -0.497 |
| Addax |  0.001\* | 17 |  0.0 | -3.466 |
| Alpaca | 0.861 | 27 |  60.0 | -0.176 |
| Deer | <0.001\* | 47 |  87.5 | -3.998 |
| Horse | <0.001\* | 56 | 113.5 | -4.564 |
| Bull |  0.002\* | 44 | 110.0 | -3.090 |
| Dromedary |  0.009\* | 32 |  55.0 | -2.628 |
| Giraffe | 0.127 |  8 |  0.0 | -1.528 |
| Elephant | 0.068 | 43 | 155.0 | -1.826 |
| Forelimb run versus Hindlimb run | Sheep | 0.068 |  9 |  2.0 | -1.823 |
| Pig | 0.075 | 17 |  17.5 | -1.782 |
| Alpaca | 0.505  |  8 |  4.0 | -0.667 |
| Deer | 0.021 | 20 |  18.0 | -2.316 |
| Horse |  0.016\* | 14 |  4.5 | -2.408 |
| Dromedary | 0.221 |  3 |  0.0 | -1.225 |
| Elephant | 0.827 |  6 |  4.0 | -0.218 |
| Forelimb run versus Forelimb walk | Antelope |  0.006\* | 24 |  0.0 | -2.750 |
| Sheep |  0.009\* | 15 |  0.0 | -2.614 |
| Pig | <0.001\* | 24 |  0.0 | -3.515 |
| Alpaca | <0.001\* | 27 |  0.0 | -3.686 |
| Deer | <0.001\* | 33 |  0.0 | -4.203 |
| Horse | <0.001\* | 33 |  0.0 | -3.515 |
| Dromedary | 0.099 | 20 |  0.0 | -1.648 |
| Elephant | 0.160 | 26 |  17.0 | -1.405 |
| Hindlimb run versus Hindlimb walk | Sheep | 0.001 | 19 |  0.0 | -3.424 |
| Pig | <0.001\* | 28 |  0.0 | -4.207 |
| Alpaca | 0.046 |  8 |  0.0 | -2.000 |
| Deer | <0.001\* | 34 |  0.0 | -4.758 |
| Horse | <0.001\* | 37 |  0.0 | -4.461 |
| Dromedary | 0.027 | 15 |  0.0 | -2.208 |
| Elephant | 0.068 | 23 |  10.0 | -1.826 |