**Supplementary Table 2.** Outputs from Chi-squared tests evaluating the sex-ratio for each rodent population. ‘balanced’ indicates no statistical gender difference in the number of captured individuals within the rodent population; ‘biased (females)’ indicates that the sex-ratio is biased towards female individuals. Results are significant when \( p\)-value < 0.05. df: degrees of freedom.

| Zone          | Mus musculus domesticus | Mastomys erythroleucus |
|---------------|-------------------------|------------------------|
|               | Sites | Chi-squared | df | \( p\)-value | sex-ratio | Chi-squared | df | \( p\)-value | sex-ratio |
| River valley  |       |             |    |              |           |             |    |              |           |
| Aere Lao      |       | 8.3333      | 1  | \( p\)-value = 0.003892 | biased (females) | 1.6667      | 1  | \( p\)-value = 0.1967 | balanced |
| Diomandou Diery |     | 2.3333      | 1  | \( p\)-value = 0.1266 | balanced   | 0.052632    | 1  | \( p\)-value = 0.8185 | balanced |
| Diomandou Walo |       | 0           | 1  | \( p\)-value = 1   | balanced   | 0.021277    | 1  | \( p\)-value = 0.884 | balanced |
| Dodel         |       | 8.0222      | 1  | \( p\)-value = 0.004621 | biased (females) | -           | -  |              |           |
| Gollere       |       | -           | -  |              |           | 0.057143    | 1  | \( p\)-value = 0.8111 | balanced |
| Mboumba       |       | -           | -  |              |           | 2.0833      | 1  | \( p\)-value = 0.1489 | balanced |
| All sites     |       | 10.47       | 1  | \( p\)-value = 0.001213 | biased (females) | 0.07767     | 1  | \( p\)-value = 0.7805 | balanced |
| Central Ferlo |       |             |    |              |           |             |    |              |           |
| Labgar        |       | 0.61538     | 1  | \( p\)-value = 0.4328 | balanced   | -           | -  |              |           |
| Tessekere     |       | 1.6364      | 1  | \( p\)-value = 0.2008 | balanced   | -           | -  |              |           |
| Widou Thiangoly |   | 1.8148      | 1  | \( p\)-value = 0.1779 | balanced   | -           | -  |              |           |
| All sites     |       | 0.33333     | 1  | \( p\)-value = 0.5637 | balanced   | -           | -  |              |           |
| National Road 3 |      |             |    |              |           |             |    |              |           |
| Dendoudi      |       | 6.7209      | 1  | \( p\)-value = 0.009529 | biased (females) | -           | -  |              |           |
| Diagali       |       | -           | -  |              |           | 1.6667      | 1  | \( p\)-value = 0.1967 | balanced |
| Fourdou       |       | -           | -  |              |           | 2.2727      | 1  | \( p\)-value = 0.1317 | balanced |
| Lambago       |       | 0.25714     | 1  | \( p\)-value = 0.6121 | balanced   | -           | -  |              |           |
| Ranerou       |       | -           | -  |              |           | 0.037037    | 1  | \( p\)-value = 0.8474 | balanced |
| Yonofere      |       | 0.3913      | 1  | \( p\)-value = 0.5316 | balanced   | -           | -  |              |           |
| All sites     |       | 2.8058      | 1  | \( p\)-value = 0.09392 | balanced   | 1.6667      | 1  | \( p\)-value = 0.1967 | balanced |
| All zones     |       | 2.6964      | 2  | \( p\)-value = 0.2597 | balanced   | 0.73656     | 1  | \( p\)-value = 0.3908 | balanced |