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| **Supplementary Table 3.** Morphometric comparison of Megatrypanum-type *Trypanosoma* spp. recorded from ruminants (cervids and bovids) |
| Species | Host | Locality | Reference | *n* | L | BL | BW | UM | PK | KN | PN | NA | FF | NL | NW | K | NI | KI |
| Sika deer | *Cervus nippon* | Japan | Present study | 4 | 41—47 | 36—43  | 2.6—8.6 | 1.0—2.8 | 7.2—8.9 | 5.8—9.4 | 13.6—16.7 | 20.8—29.2 | 3.6—5.6 | 1.9—3.6  | 1.7—1.9 | 0.7—1.0 | 0.47—0.76 | 1.76—2.33 |
| *T. theileri* | (44) | (40) | (4.8) | (1.6) | (7.9) | (7.1) | (15.0) | (24.4) | (4.5) | (2.7) | (1.9) | (0.8) | (0.63) | (2.16) |
| *T. stefanskii* | *Capreolus capreolus* | Poland | Kingston *et al.* (1992) | 72 | 37—75 | 26—68 | 2—13 | Well developed | 2—24 | 3—15 | 11-30  | 11-42 | 4-17 |  |  |  | 0.41-2.27  | 1-6 |
| (55) | (47) | (6.5) | (13.5) | (6.3) | (19.6) | (27.8) | (7.7) | (0.73) | (3.3) |
| *T. stefanskii* | *Capreolus capreolus, Cervus elaphus, Cervus dama* | Germany | Hoffmann *et al.* (1984) | 286 | (47) | (37) |  |  | (9.6) | (6.5) | (16.0) | (20.5) | (9.7) |  |  |  | (0.78) | (2.58) |
| *T. cervi* | *Cervus canadensis, Odocoileus spp,. Rangifer tarandus, Alces alces* | North America | Kingston *et al.* (1975) | 14 | 40—61 | 32—56 |  |  | 5—20 | 4—9 | 11-32 | 20-30 | 3-11 |  |  |  | 0.5-1.3 | 2.8-3.6 |
| (52) | (45.4) | (12.2) | (7) | (19.4) | (24.8) | (6.6) | (0.78) | (2.77) |
| *T. theileri* | *Bos taurus* | Japan | Saisawa *et al*. (1933) | ? | 67—109 | 61—96 |  | 2.3—6.6 | 17—43 | 4—13 | 21—56 | 30—53 | 7—14 |  |  |  | 0.7—1.1 | 4.4—5 |
|  |  |  |  |  | (84.4) | (75.5) |  | (3.8) | (29.8) | (6.4) | (36.2) | (39.7) | (8.9) |  |  |  | (0.91) | (5.68) |
| *T. theileri* | *Bos taurus* | Canada | Woo *et al.* (1970) | 65 | 31.2—64.9 | 31.2—64.9 | 1.4—5.0 | 2.3—6.6 | 17.0—21.0  | 13.8—22.3 | — | 49.2—68.9 | 3.6—26.5 | 4.6—8.5 | 3.9—4.6 | 1.6—2.3 | 0.47—0.76 | 1.76—2.33 |
|  |  |  |  |  | (47.6) | (47.6) | (11.9) | (3.8) | (18.7) | (16.7) |  | (57.5) | (10.7) | (6.4) | (4.4) | (1.9) | (0.63) | (2.16) |
| *T. theileri* | *Bos taurus* | North America | Kingston *et al*. (1992) | 304 | 16—90 | 13—59 | 1—13 |  | 0—17 | 2—20 | 5—33 | 7—36 | 1—37 |  |  |  | 0.43—1.67 | 1—4 |
| (50.5) | (36.4) | (3.3) | (7.4) | (8.9) | (16.2) | (20.2) | (14.2) | (0.88) | (1.86) |
| *T. ingens* | *Bos taurus,* various antelops, African and Asian chevrotains | Africa & Asia | Hoare (1972) | ? | 72—130 | 72—130 | 5—10 |  |  |  |  |  | 7—24 |  |  |  |  | 2 |
| *T. mazamarum* | *Mazama* spp. | South America | Hoare (1972) | ? | 36—85 | 36—85 | 6.5—7.0 |  |  | 7—12 |  |  | 7—15 |  |  |  |  |  |
| *T. melophagium* | *Ovis aries* | Germany | Büscher and Friedhoff (1984) | 111 | 45±4.1 | — | 2.1—4.6 | — | 14.7±2.9 | 5.1±1.1 | 19.8±3.5 | 19.5±1.9 | 6.0±1.6 | 2.2—3.7 | 1.3—1.7 | 0.9—1.3 | 0.9—1.2 | 3.3—4.9 |
| (3.1) | (2.6) |  (1.7) | (1.1) | (1.1) |  (3.8) |

Abbreviation: Body length (BL), excluding length of the free flagellum (FF); body width (BW), excluding the width of the undulating membrane; width of the undulating membratne (UM); distance of the kinetoplast from the posteior end (PK), distance between the kinetoplast and nucleus (KN); distance of the nucleus from the anterior end (NA); length; Length and width of the nucleus (NL and NW, respectively); diameter of the kinetoplast (K). The nuclear (NI) and kinetoplast (KI) indexes are calculated as follows: NI = PN/NA and KI = PN/KN.

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