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COPULATION DURATION IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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***Abstract*- Curved surface area was tested for a correlation with copulation duration in red millipedes *Centrobolus*. Curved surface area was correlated with copulation duration ($r=0.6704$, $r^2=0.4494$, $n=5$, $p=0.03403$).**

***Keywords:* copulation duration, Red Millipedes, surface area.**

I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about -17° latitude S and southern limits being -35° latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-527]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [226]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [225]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, the curved surface area was tested for a correlation with copulation duration in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 22 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The surface areas (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females. A correlation between copulation duration and curved surface area was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2 respectively).

III. RESULTS

Curved surface area was correlated with copulation duration (Fig. 1: $r= 0.6704$, $r^2=0.4494$, $n=5$, $p=0.03403$).

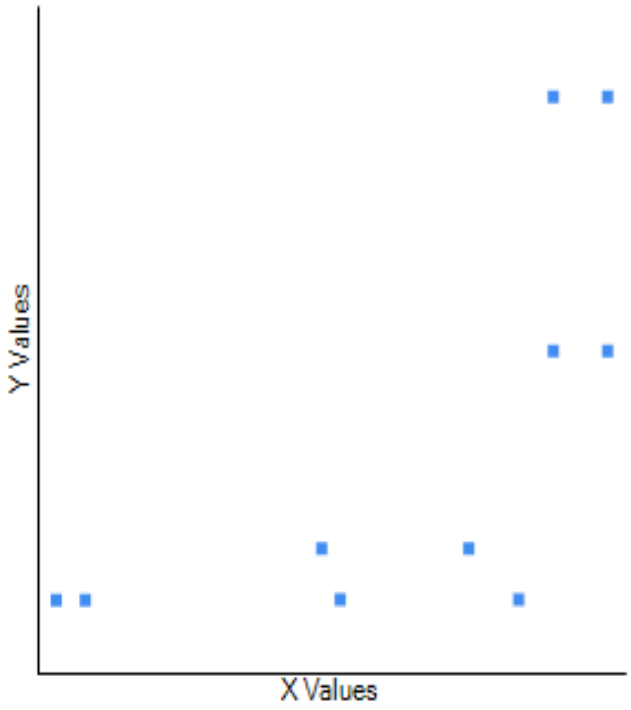

Fig. 1. Correlation between copulation duration (y) and curved surface area (x) across therange of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between copulation duration with curved surface area in *Centrobolus*.

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APPENDIX 1. The copulation durations (minutes) in *Centrobolus* Cook, 1897.

170
66.4
39.8
303
39.4

APPENDIX 2. Curved surface area across four species (male then female) of *Centrobolus* Cook, 1897 for which mass were recorded.

1764.318
2221.734
2483.743
2652.133
2483.743
2652.133
1822.124
2376.301
1030.442
939.965