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COPULATION DURATION IS MODELLED TO ALTITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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***Abstract*- Altitude was tested for a correlation with copulation duration in red millipedes *Centrobolus*. Altitude was correlated with copulation duration (Kendall's τ=0.44721360, Z score=40000, p=0).**

***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 [1-395]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [397]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [396]. These worm-like millipedes have female-biased sexual size dimorphism [57].
Here, the altitude 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 altitude area was generated at https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php (Appendix 1 & 2 respectively).

III. RESULTS

Altitude was correlated with copulation duration (Kendall's τ=0.44721360, Z score=40000, p=0).

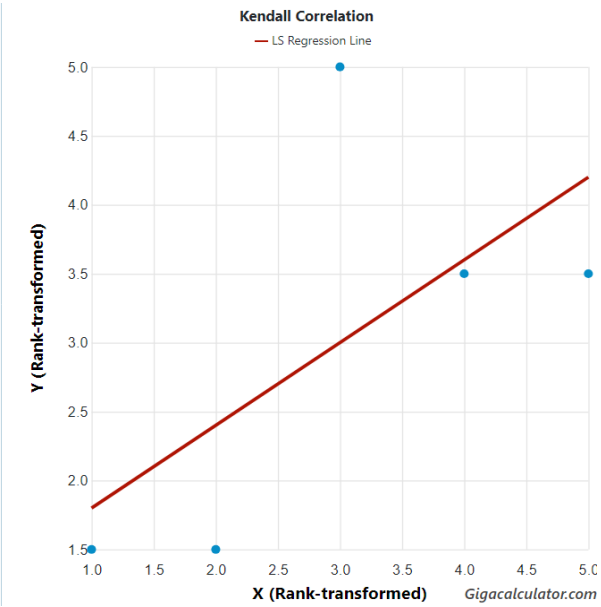

Fig. 1. Correlation between altitude (y) and ccopulation duration (x) across four species of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between copulation duration with altitude 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. Altitude across four species (male then female) of *Centrobolus* Cook, 1897 for which mass were recorded.

38
9
48
38