STERNITE PROMINENCE IS RELATED TO LOWEST RELATIVE HUMIDITY IN *CENTROBOLUS* COOK, 1897

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***Abstract*- Sternite prominence was tested for a correlation with lowest relative humidity in forest red millipedes *Centrobolus*. Sternite prominence was related to lowest relative humidity (r=-0.95548890, Z score=-1.89132851, n=4, p=0.02929019).**

***Keywords:* surface area, SSD, Red Millipedes**

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 [1-326]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [326]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [325]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, sternite prominence was tested for a correlation with lowest relative humidity in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Sternite prominence measurements for 4 species of southern African *Centrobolus* were obtained from published material [7, 18, 28]. These were correlated with lowest relative humidity and generated at https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php.

III. RESULTS

Sternite prominence was related to lowest relative humidity (Fig. 1: r=-0.95548890, Z score=-1.89132851, n=4, p=0.02929019).

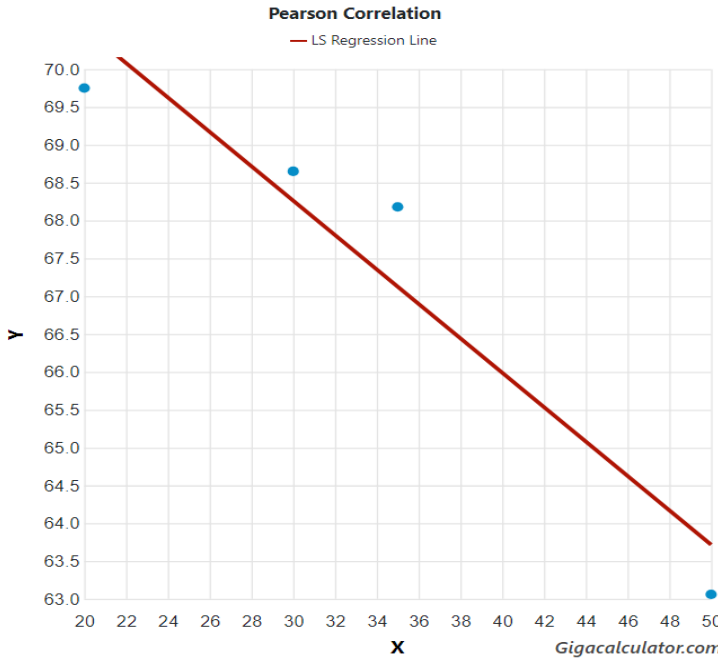

Fig. 1 Sternite prominence (x) correlated to lowest relative humidity (y) in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in structure are known in this genus [7, 18, 28]. There is a negative correlation between sternite prominence and lowest relative humidity in *Centrobolus*. This is an addition to one of the many correlated with body size in millipedes.

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APPENDIX 1. Sternite prominence (%) followed by relative humidity (%; lowest) for four species of *Centrobolus* Cook, 1897.

50, 63.06
30, 68.65
35, 68.18
20, 69.75