

STERNITE PROMINENCE IS RELATED TO ABUNDANCE IN *CENTROBOLUS COOK, 1897*

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Abstract- Sternite prominence was tested for a correlation with abundance in forest red millipedes *Centrobolus*. Sternite prominence was related to abundance (Pearson's $r=0.63046242$, Z score= 1.65957221 , $n=8$, $p=0.04850025$).

Keywords: abundance, prominence, sternite, 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 [1-403]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [405]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [404]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, sternite prominence was tested for a correlation with abundance 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 abundance and generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

III. RESULTS

Sternite prominence was related to abundance (Fig. 1: Pearson's $r=0.63046242$, Z score= 1.65957221 , $n=8$, $p=0.04850025$).

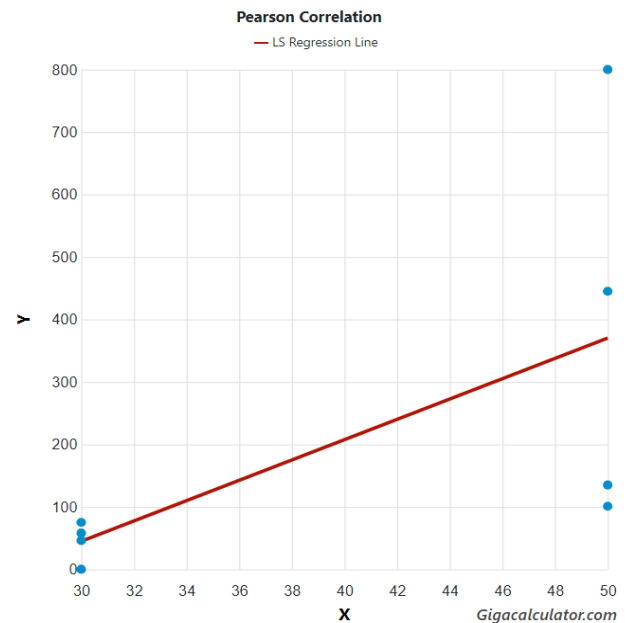


Fig. 1 Sternite prominence correlated to abundance in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in structure are known in this genus [7, 18, 28]. There is a correlation between sternite prominence and abundance in *Centrobolus*.

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APPENDIX 1. Sternite prominence (%) followed by abundance for two species of *Centrobolus* Cook, 1897.

30, 46
30, 75
30, 58
30, 0
50, 101
50, 445

50, 135
50, 800