

# STERNITE PROMINENCE IS RELATED TO SECOND POLAR MOMENTS OF INERTNESS IN *CENTROBOLUS* COOK, 1897

M. Cooper

University of Johannesburg, South Africa.

**Abstract-** Sternite prominence was tested for a correlation with second polar moments of inertness in forest red millipedes *Centrobolus*. Sternite prominence was related to second polar moments of inertness (Kendall's  $\tau=0.27498597$ , Z score=70000,  $n=8$ ,  $p=0$ ).

**Keywords:** sternite, SSD, Red Millipedes.

## I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-297]. 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, sternite prominence was tested for a correlation with second polar moments of inertness 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 second polar moments of inertness and generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

## III. RESULTS

Sternite prominence was related to second polar moments of inertness (Fig. 1: Kendall's  $\tau=0.27498597$ , Z score=70000,  $n=8$ ,  $p=0$ ).

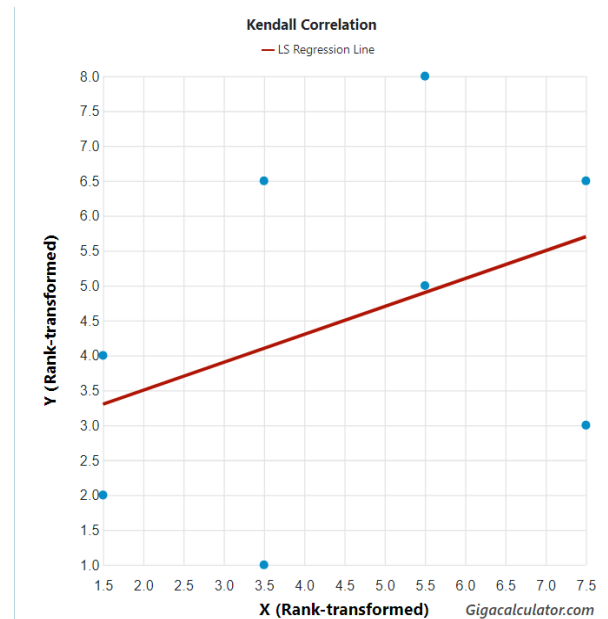


Fig. 1 Sternite prominence correlated to second polar moments of inertness in *Centrobolus* Cook, 1897.

## 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 second polar moments of inertness in *Centrobolus*. This is an addition to one of the many correlated with body size in millipedes.

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20, 2174.89962
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**APPENDIX 1.** Sternite prominence (%) followed by male then female second polar moments of inertness (mm<sup>4</sup>) for four species of *Centrobolus* Cook, 1897.

50, 1903.39062  
30, 1239.43386  
35, 1148.50596  
20, 1148.50596  
50, 3165.33069  
30, 644.12467