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MOMENTS OF INERTIA ARE RELATED TO LENGTH IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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***Abstract*- Moments of inertia were tested for a correlation with length in forest red millipedes *Centrobolus*. Length in females was related to moments of inertia (r=0.7344, r^2=0.5393, n=22, p=0.015571) and length in males was related to moments of inertia (r=0.8305, r^2=0.6897, n=22, p=0.002895).**

***Keywords:* length, moments, 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 [1-376]. 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, moments of inertia are correlated with length 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 (Appendix 1 & 2 respectively). A correlation between moments of inertia and length was generated at https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php.

III. RESULTS

Length in females was related to moments of inertia (Fig. 1: r=0.7344, r^2=0.5393, n=22, p=0.015571) and length in males was related to moments of inertia (Fig. 2: r=0.8305, r^2=0.6897, n=22, p=0.002895).

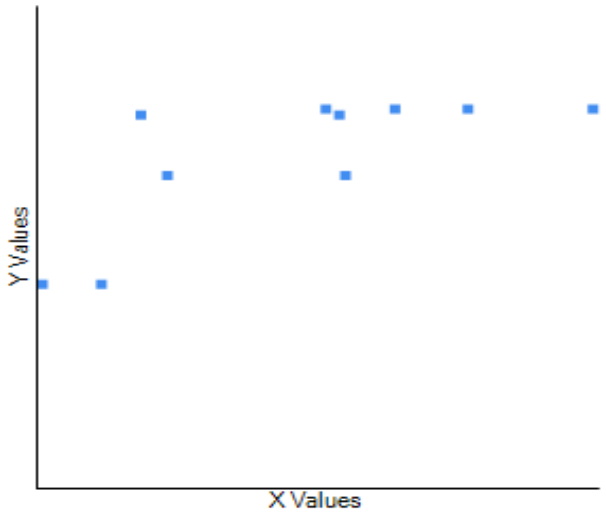

Fig. 1 Length in females correlated to moments of inertia in *Centrobolus* Cook, 1897.

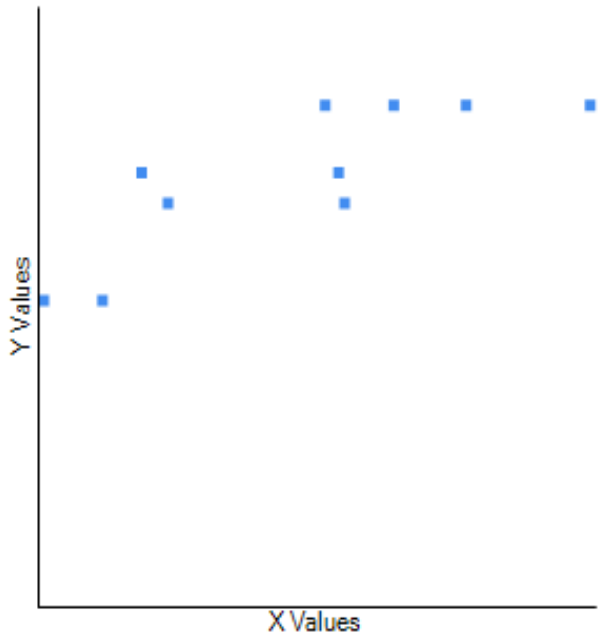

Fig. 2 Length in males correlated to moments of inertia in *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in surface area are known in this genus [68]. There is a correlation between length and moments of inertia in *Centrobolus*. This is an addition to one of the many correlated with body size in millipedes.

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APPENDIX 1. Moments of inertia ($kg.m^{-2}$; three significant figures after the decimal) followed by length (mm) for female *Centrobolus* Cook, 1897.

12.738
10.791
16.0777
8.940
9.466
4.702
9.303
4.000
34
63
52
62

APPENDIX 2. Moments of inertia ($kg.m^{-2}$; three significant figures after the decimal) followed by length (mm) for male *Centrobolus* Cook, 1897.

12.738
10.791
16.0777
8.940
9.466
4.702
9.303
4.000
41
67
54
58