FEMALE SURFACE AREA-TO-VOLUME RATIO IS RELATED TO MINIMUM TEMPERATURE IN *CENTROBOLUS* COOK, 1897

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***Abstract*- Surface area-to-volume ratio was tested for a correlation with minimum temperature in forest red millipedes *Centrobolus*. Surface-area-to-volume ratio was not related to minimum temperature in males (Spearman's r=-0.27303561, Z score=-1.18604347, n=22, p=0.11780263) and was related in females (Spearman's r=-0.37298673, Z score=-1.65915079, n=22, p=0.04854269).**

***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, surface-area-to-volume ratio was tested for a correlation with minimum temperature in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Surface-area-to-volume ratio for 22 species of southern African *Centrobolus* were obtained from published material [68]. These were correlated with minimum temperature and generated at https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php.

III. RESULTS

Surface-area-to-volume ratio was not related to minimum temperature in males (Fig. 1: Spearman's r=-0.27303561, Z score=-1.18604347, n=22, p=0.11780263) and was related in females (Fig. 2: Spearman's r=-0.37298673, Z score=-1.65915079, n=22, p=0.04854269).

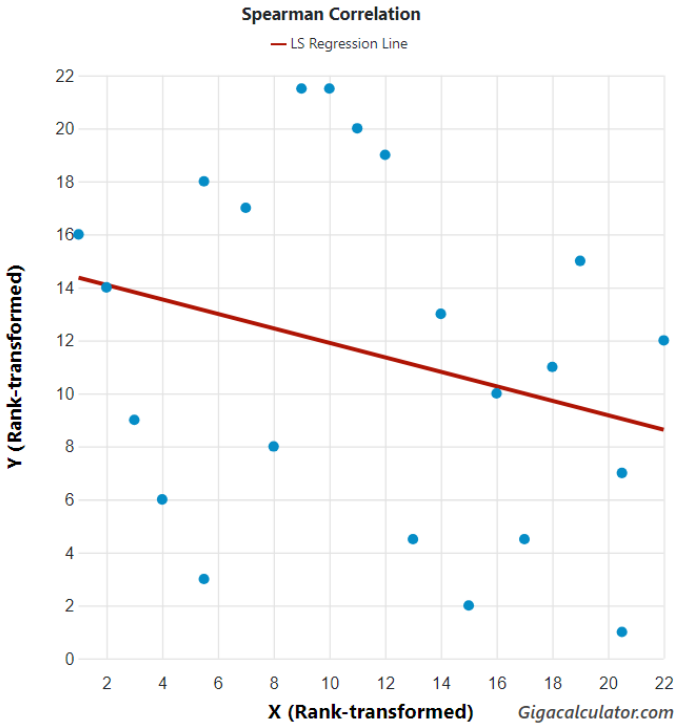

Fig. 1 Surface-area-to-volume ratio marginally correlated with minimum temperature in male *Centrobolus* Cook, 1897.

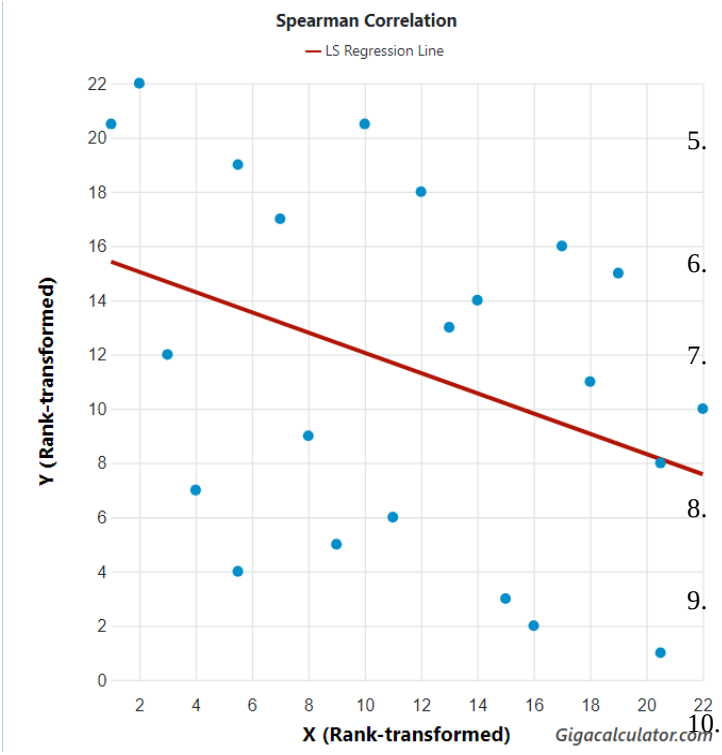

Fig. 2 Surface-area-to-volume ratio correlated to minimum temperature in female *Centrobolus* Cook, 1897.

IV. DISCUSSION

The significant differences between males and females in volumes are known in this genus [68]. There is a correlation between surface-area-to-volume ratios and minimum temperature in female *Centrobolus*. This is an addition to one of the many correlated with body size in millipedes.

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APPENDIX 1. Male surface-area-to-volume ratios preceded by minimum temperature (degrees Celsius) for 22 species of *Centrobolus* Cook, 1897.

14.5, 0.000510
19.9, 0.000486
14.8, 0.000365
11.4, 0.000485
11.5, 0.000245
19.8, 0.000218
21.6, 0.000294
18.7, 0.000136
20.5, 0.000393
15.3, 0.000335
17.7, 0.000156
11.4 0.616435
15.7, 0.000510
19.8, 0.418711
19.7, 0.000220
22.2, 0.000223
16.6, 0.000169
13.6, 0.000357
15.0, 0.559114
19.4, 0.000422
9.5, 0.000349
19.0, 0.000136

APPENDIX 2. Female surface-area-to-volume ratios preceded by minimum temperature (degrees Celsius) for 22 species of *Centrobolus* Cook, 1897.

14.5, 0.000177
19.9, 0.000578
14.8, 0.540690
11.4, 0.000484
11.5, 0.000179
19.8, 0.000132
21.6, 0.000108
18.7, 0.000113
20.5, 0.000274
15.3, 0.000213
17.7, 0.000716
11.4, 0.679931
15.7, 0.000245
19.8, 0.4103607
19.7, 0.000138
22.2, 0.000113
16.6, 0.000135
13.6, 0.000314
15.0, 0.533940
19.4, 0.000335
9.5, 0.000318
19.0, 0.000751