

# SURFACE AREA-TO-VOLUME RATIO CORRELATES WITH THE MONTH WITH THE LOWEST DAILY HOURS OF SUNSHINE IN PILL MILLIPEDES *SPHAEROTHERIUM* BRANDT, 1833

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**Abstract-** The male and female surface area-to-volume ratio was correlated with the month with the lowest daily hours of sunshine across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833. There was a correlation between the male and female surface area to volume ratio with the month with the lowest daily hours of sunshine across the distribution of pill millipedes *Sphaerotherium* (Spearman's  $r=0.48385028$ ,  $Z$  score= $1.70089216$ ,  $n=7$ ,  $p=0.04448159$ ; Pearson's  $r=0.40402675$ ,  $Z$  score= $1.42101426$ ,  $n=7$ ,  $p=0.07765635$ ).

**Keywords:** dimorphism, Pill Millipedes.

## I. INTRODUCTION

Diplopoda are underrepresented in allometric analyses of SSD, although sexual differences are known in body mass, length, width and leg dimensions of over half the taxa studied [1-427]. Size differences occur with factors such as color, sexes, species, urbanisation and water relations. Diplopoda resemble the majority of invertebrates where SSD is reversed. SSD has consequences for the outcome of sexual encounters in diplopod mating. The macro-evolutionary patterns are being resolved in the class Diplopoda.

In the present study, a correlation between the male and female surface area-to-volume ratios with the month with the lowest daily hours of sunshine is performed across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833.

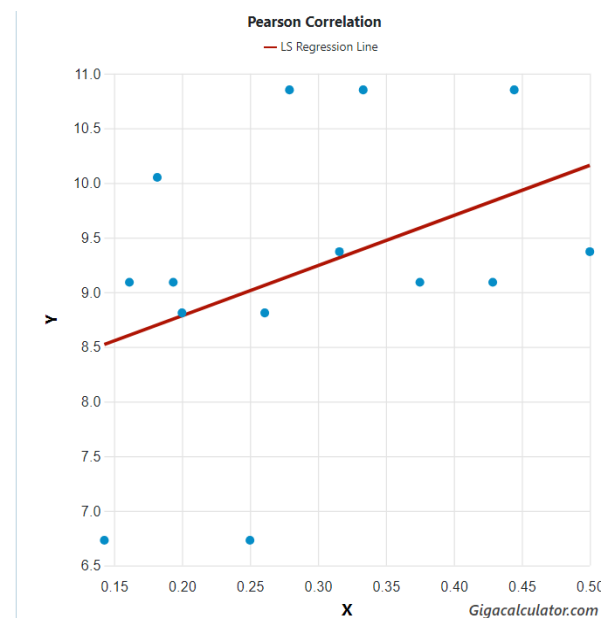
## II. MATERIALS AND METHODS

Male surface area was calculated at <https://www.omnicalculator.com/math/area-of-sphere> from the widths of seven millipede species (<https://www.entomoljournal.com/archives/2018/vol6issue1/PartI/5-6-352-508.pdf>) (Appendix 1 & 2). A correlation between the two factors (surface area-to-volume ratio and the month

with the lowest daily hours of sunshine) was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

## III. RESULTS

There was a correlation between the male and female surface area-to-volume ratio with the month with the lowest daily hours of sunshine across the distribution of pill millipedes *Sphaerotherium* (Fig. 1: Spearman's  $r=0.48385028$ ,  $Z$  score= $1.70089216$ ,  $n=7$ ,  $p=0.04448159$ ).



**Fig. 1** A positive negative correlation between the male surface area-to-volume ratio with month with the lowest daily hours of sunshine across the distribution of pill millipedes *Sphaerotherium*.

## IV. DISCUSSION

The significant effect of weather on males and females in size are known in this genus. There is

a positive correlation between the male and female surface area-to-volume ratio and month with the lowest daily hours of sunshine. This is an addition to one of the many relationships of body size in pill millipedes.

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**APPENDIX 1.** The male and female surface area-to-volume ratios (1/mm) followed by month with the lowest hours of sunshine in seven pill millipedes *Sphaerotherium* Brandt, 1833.

0.19355, 9.09  
0.5, 9.37  
0.27907, 10.85  
0.25, 6.73  
0.26087, 8.81  
0.4286, 9.09  
0.4444, 10.85  
0.1613, 9.09  
0.3158, 9.37  
0.1818, 10.05  
0.14286, 6.73  
0.2, 8.81  
0.375, 9.09  
0.3333, 10.85