

SEXUAL SIZE DIMORPHISM MAY BE RELATED TO SEX RATIOS IN CENTROBOLUS COOK, 1897

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Abstract -In this note I report a correlation between sex ratio and sexual size dimorphism. I retested the relationship between sexual size dimorphism (SSD) and sex ratios in red millipedes *Centrobolus* with Kendall's correlation coefficients. Sex ratios were correlated with SSD (Kendall's $\tau=-0.29417420$, Z score=-60000, n=8, p=0).

I. INTRODUCTION

Centrobolus red millipedes have been studied in South Africa [1-79]. In this note, I report a correlation between sex ratio and sexual dimorphism. I retested the relationship between sexual size dimorphism (SSD) and sex ratios in red millipedes *Centrobolus*. Sex ratios were correlated with SSD when the data were ranked (Figure 1: Kendall's $\tau=-0.29417420$, Z score=-60000, n=8, p=0). This relationship was present late in the season (Figure 2: Kendall's $\tau=-0.35634832$, Z score=-40000, n=6, p=0) and early in the season (Figure 3: Kendall's $\tau=-0.27735010$, Z score=-30000, n=6, p=0).

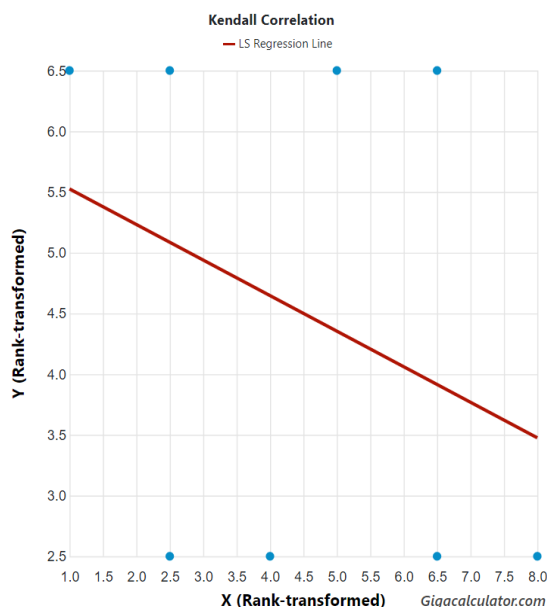


Figure 1. Correlation showing sex ratios were correlated with SSD on ranked data in *Centrobolus*.

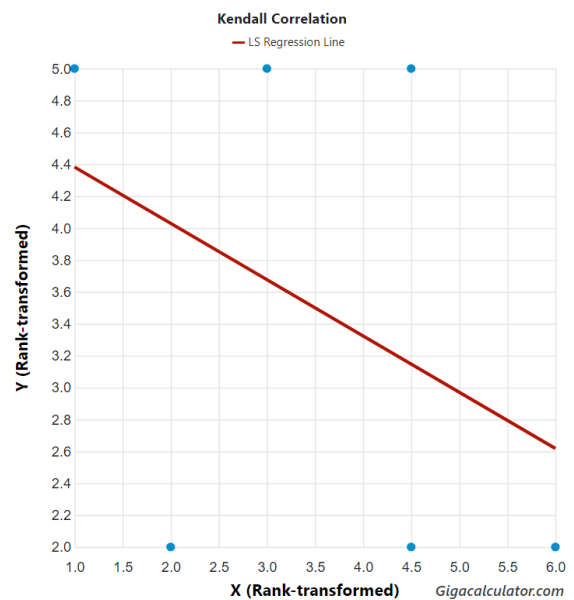


Figure 2. Correlation showing sex ratios were correlated with SSD late in the season on ranked data in *Centrobolus*.

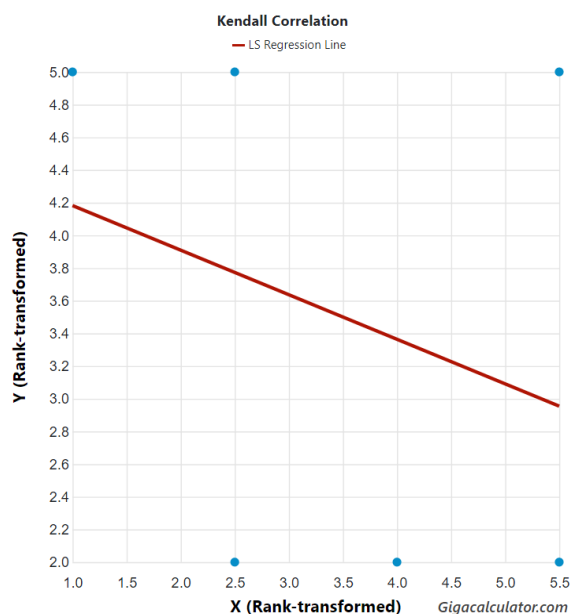


Figure 3. Correlation showing sex ratios were correlated with SSD early in the season on ranked data in *Centrobolus*.

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