



CMFRI SPECIAL PUBLICATION

Number 7

**MANUAL OF RESEARCH METHODS FOR
CRUSTACEAN BIOCHEMISTRY AND PHYSIOLOGY**

Issued on the occasion of the **Workshop on
CRUSTACEAN BIOCHEMISTRY AND PHYSIOLOGY**
jointly organised by
the **Department of Zoology, University of Madras** and
the **Centre of Advanced Studies in Mariculture,
Central Marine Fisheries Research Institute,**
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Manual of Research Methods for Crustacean Biochemistry and Physiology

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25.1. 't' REGRESSION

This is a method of testing the significance of regression. Here we test whether the estimated value of slope (b) significantly deviates from zero. The 't' is calculated by the following formula.

$$t = b \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{Sd^2}}$$

25.2. 'F' REGRESSION

The regression slopes of two dependent variables can be compared by F-test. The test for the difference (d) between two regression coefficients is given by the formula.

$$d = \frac{b_1 - b_2}{\sqrt{\frac{s_1^2}{\sum x_1^2 - \frac{(\sum x_1)^2}{n_1}} + \frac{s_2^2}{\sum x_2^2 - \frac{(\sum x_2)^2}{n_2}}}}$$

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For your own notes.

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