



MES AMANI COLLEGE
OF VANDALUR

NCIATRI²³ ABSTRACTS²⁰

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**



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A Study of Behavioural Patterns and Effect of Starvation on Fight Success in the Common House Cricket *Acheta Domesticus*

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Ethology is the one of the major fields of research which has made various contributions to ecology. Crickets have been used as a model system in the behavioural studies due to its interesting behaviours like aggression, mate choices etc. Nymphs and adults of *Acheta domesticus* collected from Kalady region of Ernakulam District were used for this study. The crickets were acclimatized and reared in glass tanks, fed regularly and provided with water. The exploratory behaviour in a new environment, general activity in a new environment, aggressive behavioural difference between the wild and captive populations of male adult crickets, effect of starvation on the fight success in male crickets were studied. The latency to emerge into a new environment and the latency to touch the new environment were recorded. The nymphs showed lesser latency period than the adults. The lesser latency to emerge into a novel environment might be because of the domestication syndrome and a chance of developing boldness syndrome, the willingness to take risk in a novel area to explore. The study showed that captivity can change the personality traits in *Acheta domesticus*. The observation of general activity showed that nymphs were more active than the adults in walking and climbing. The reared *Acheta domesticus* were found to be more aggressive than the wild population. This may be due to the fact that the crickets which are captivity reared were subjected to interspecific competition due to high population density in the rearing conditions. The crickets, relatively equally sized, were subjected to three starvation conditions as less, equal and more based on the duration of attacker's starvation. It was found that probability of winning the fight by the attacker increased by the increase in the starvation period. Thus, starvation has a positive correlation in winning the fight.