

Influence of enriched live prey and other artificial diets on RNA and DNA concentration in the ovary of tiger prawn, *Penaeus monodon*

Abstract

Separate batches of tiger prawn, *Penaeus monodon*, were fed three different diets, and the effect of these nutritional treatments on RNA and DNA concentrations in the ovary was examined. The given diets did not produce any significant difference in the concentrations of the nucleic acids. DNA remained remarkably stable. RNA/DNA ratio varied from 2.18 to 3.62 and largely followed the pattern similar to that of RNA. Differences in the RNA/DNA ratio did not suggest actual quantitative change in DNA per cell. Cause and effect relations need to be differentiated by analysis of nucleic acid contents at cell level for further insights into the possible link between the dynamics of change in the nucleic acids and broodstock nourishment.