Editor in chief, Date 25/04/2012

“Recent Research in Science and Technology”

Dear Sir,

 Please find attached herewith an original research article entitled **“Acute toxicity and behavioral responses of a freshwater mussel *Lamellidens marginalis* (Lamarck) to dimethoate exposure”** for publication in your esteemed journal. Dimethoate is commonly used OP pesticide in houses and agricultural fields, from where it flows in adjacent freshwater bodies like river, ponds, reservoirs etc. through accidental discharge, municipal drainage and surface run-off. After mixing in freshwater bodies it adversely affects the life of inhabiting aquatic organisms. One of the economically important, commonly occurring animal in freshwater aquatic bodies are freshwater mussel *Lamellidens marginalis,* which are actively involved in scavenging dead organic matter. The mussels are consumed as food, used in pearl culture practices and its body extract is useful in remedy of gout and arthritis.

To evaluate toxicity of dimethoate a static non-renewal bioassay test was conducted in the laboratory which indicates that freshwater mussel *Lamellidens marginalis* is a hardy animal which protects itself by modifying its physiological and behavioral characteristics. But continuous increasing pesticide in the surroundings destroys the protective measures of the mussels resulting in death.

This is the original research work completed by me and my students. All the mentioned authors have actively participated in the research work and preparation of manuscript in this form.

Thanking you,

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