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Abstract

An estimation of genotoxic effect of insecticide mospilan

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Abstract:

The aim of this study is to determine the genotoxic effect of insecticide Mospilan in peripheral erythrocytes of fish

Concentration of insecticide Mospilan (Chemical Abstracts name 1-[2-(2,4-chlorophenyl) pentyl]-1H-1,2,4-triazole), it was in first aquarium, 15 ml insecticide Mospilan / 40 liter water, in second aquarium 12 ml insecticide Mospilan / 40 liter water, in third aquarium 10 ml insecticide Mospilan / 40 liter water, in fourth aquarium 8 ml insecticide Mospilan / 40 liter water. Fifth aquarium use as a control, without insecticide Mospilan, contains only drinking water. The fish we treated for two days.

We determine a higher number of micronucleus in peripheral erythrocytes of fish treated with insecticide (for each treated group with insecticide), compared with control group 4 micronucleus /2000 erythrocytes).

Based on an investigation we can conclude that insecticide Monspilan damages the chromosome of erythrocytes of fish C. aureus.

Keywords: erythrocyte, fish, insecticide, Monspilan induced, micronucleus.

Biography:

~~Amélie Polrot is a PhD student in the School of Natural Sciences and Psychology at Liverpool John Moores University. Her current research in the field of marine bioremediation involves Microbiology, Chemistry and Sedimentology. Her work focuses on assessing environmental factors controlling tributyltin biodegradation activity in~~

~~sediment in order to optimize the implementation of a sustainable method for sediment management in ports and harbours.~~

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