

*Sublethal Copper Exposure Induces Respiratory Stress In Common
And Gibel*



Sublethal Copper Exposure Induces Respiratory

Rainbow trout, common carp, and gibel carp were exposed to sublethal Cu levels (1.0 or 1.7 μM) for 1 week. In rainbow trout, arterial oxygen tension (PaO_2) remained normal and there was no indication of anaerobic metabolism. PaO_2 was considerably lower in common and gibel carp and Cu exposure decreased this further.

Sublethal copper exposure induces respiratory stress in ...

Sublethal copper exposure induces respiratory stress in common and gibel carp but not in rainbow trout Article in Comparative Biochemistry and Physiology Part C Toxicology & Pharmacology 144(4 ...

Sublethal copper exposure induces respiratory stress in ...

8 G. De Boeck, K. Van der Ven, W. Meeus, R. Blust, Sublethal copper exposure induces respiratory stress in common and gibel carp but not in rainbow trout, Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology, 2007, 144, 4, 380CrossRef

The further development of ionoregulatory measures as ...

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Effects of Sublethal Copper Exposure on Copper ...

Khalid Haddi, Eugênio E. Oliveira, Lêda R. A. Faroni, Daniela C. Guedes, and Natalie N. S. Miranda "Sublethal Exposure to Clove and Cinnamon Essential Oils Induces Hormetic-Like Responses and Disturbs Behavioral and Respiratory Responses in Sitophilus zeamais (Coleoptera: Curculionidae)," Journal of Economic Entomology 108(6), (1 December 2015).

Sublethal Exposure to Clove and Cinnamon Essential Oils ...

Therefore, as well documented for traditional insecticides (Calabrese and Baldwin 1998, Guedes and Cutler 2014), the aim of current study was to evaluate whether sublethal exposure to clove and cinnamon essential oils would induce stimulatory responses on *S. zeamais* that can compromise the management of insect pests.

Sublethal Exposure to Clove and Cinnamon Essential Oils ...

select article Sublethal copper exposure induces respiratory stress in common and gibel carp but not in rainbow trout. Research article Full text access Sublethal copper exposure induces respiratory stress in common and gibel carp but not in rainbow trout. G. De Boeck, K. Van der Ven, W. Meeus, R. Blust.

Comparative Biochemistry and Physiology Part C: Toxicology ...

Intranasal Delivery of Copper Oxide Nanoparticles Induces Pulmonary Toxicity and Fibrosis in C57BL/6 mice ... the influence of CuO NP exposure on human respiratory systems. ... exposure induced ...

Intranasal Delivery of Copper Oxide Nanoparticles Induces ...

There is a good concentration-response relationship between the heavy metals (Cu, Zn, Cd and Cr) and the sublethal toxicity effect to the nematode *Caenorhabditis elegans*, in terms of physiological, behavioral and enzymatic activity effects. The sensitivities of physiological and behavioral endpoints for four heavy metals are similar.

Sublethal Toxicity Endpoints of Heavy Metals to the ...

Sub-chronic inhalation of high concentrations of manganese sulfate induces lower airway pathology in rhesus monkeys. ... Far less is known about the potential respiratory effects induced by exposure to other inorganic forms of manganese. ... a comparison with the effects of chlorides of nickel, cadmium, cobalt, and copper.

Sub-chronic inhalation of high concentrations of manganese ...

In the past, experiments from our lab have demonstrated increased production of ROI following acute copper exposure. In order to determine if copper causes a reversible effect on macrophage ROI production, we exposed goldfish (*Carassius auratus*) to sublethal concentrations of copper (100 ppb) for 4-25 d then allowed them to recover for 0-21 days.

Modulation of Fish Immune Response Following In Vivo ...

Juvenile *M. nipponense* were exposed to 4 different sublethal levels of antimony (0.1, 0.4, 0.8, and 1.2 mg Sb/l) over a 7-d test period and a 7-d recovery period. After 30 min (acute), there was an increase in the amount of oxygen consumed in all exposed groups.

Sublethal Antimony (III) Exposure of Freshwater Swamp ...

In the present study, juvenile *M. nipponense* showed no recovery at higher exposure level groups (0.8 and 1.2 mg Sb/l) after 1-week period in Sb-free water. Former study indicated that exposure to sublethal toxicant concentrations increases respiratory activity, resulting in increased ventilation and increased uptake of the toxin [18].

Sublethal Antimony (III) Exposure of Freshwater Swamp ...

Combined Effects of Different Food Rations and Sublethal Copper Exposure on Growth and Energy Metabolism in Common Carp ... (2007) Sublethal copper exposure induces respiratory stress in common and gibel carp but not in rainbow trout. ... Hanke W (1985) A comparison of physiological changes in carp, *Cyprinus carpio*, induced by several ...

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