Inconsistency in the article “Metal bioaccumulation in common carp and rudd from the Topolnitsa reservoir, Bulgaria”

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Reading the article by Yancheva et al. (1) published in the last issue of Archives of Industrial Hygiene and Toxicology, I found an inconsistency. The authors determined the concentration of various metals in the water and two species of fish in a copper mine and metallurgic industry area. Table 2 (1) showed the concentrations in the water and it could be seen that the concentration of lead in all of the study periods was below the detection limit. Table 3 (1) showed the concentrations of metals in fish, making it clear that the concentration of lead in organs was particularly high.

In my opinion, such high metal concentrations in organs are not possible under the described conditions; however, the authors did not comment on this discrepancy at all. An amount of up to 5,500 ppb of lead in the liver of carp could not accumulate unless the water contained some amount of lead; at least a minimum concentration, which would be 10 ppb (detection limit of the instrument). Therefore, I think there was an error in the measurement of lead in water, which is why I challenge the authors to discuss and explain this discrepancy in their measurements.

REFERENCES


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