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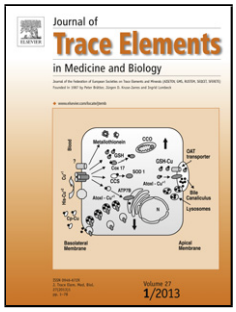

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Cadmium-induced ultrastructural changes in primary target organs of developing chicken embryos (G*allus domesticus*)

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Abstract

The aim of this study was to evaluate ultrastructural changes in kidney and liver tissue of chicken embryos exposed *in ovo* to cadmium. Embryonated eggs were injected on the 4th day of incubation with cadmium at the dose of 0, 2, 4 and 8 µg/egg (80 eggs/group). The samples of kidney and liver tissues were collected from embryos at the 14th and 18th day of incubation (E14 and E18) and at hatching day (D1). The tissue structure was evaluated by transmission electron microscopy (Tecnai G2 Spirit). The results indicate that hepatocytes responded to damage caused by toxic cadmium activity with a significant disturbance in the