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[Abstract](#)

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Immunotoxicological investigation of the effects of a pesticide; cypermethrin.

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Abstract

The effects of a synthetic pyrethroid pesticide cypermethrin on the immune system were studied. The effect of a daily oral administration of 1/40, 1/20 and 1/10 of LD50 was studied in rabbits for its influence on the humoral immune response after vaccination with *Salmonella typhi*, as well as on cell-mediated immunity. The two higher doses induced a significant dose-dependent decrease of serum antibody titers. The skin redness measured in the tuberculin skin test showed the same dose-dependent tendency. In subacute experiments with rats, a significant dose-dependent decrease was observed both in the anti-ovalbumin titer of blood sera measured in passive hemagglutination test and in the autologous rosette-formation of T-lymphocytes in groups fed the higher doses.

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