

Medical/biological Study (observational study)**Assessment of radio-frequency electromagnetic radiation by the micronucleus test in bovine peripheral erythrocytes.**

by Balode Z

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Aim of study (according to author)

Micronucleus assay was used to study chromosome damage in peripheral blood erythrocytes of cows living in Skrunda RLS radiation zone. Cows were used for testing, since they live in uniform conditions and are exposed to the same type of irradiation as humans in the region.

Endpoint

- genotoxicity/mutation: chromosome damage

Exposure

Field characteristics	Parameters
154 - 162 MHz exposure duration: continuous	

Exposed system:

animal (species/strain): cow/Latvian Brown

whole body exposure

Methods

Endpoint/Measurement parameters/Methodology

- genotoxicity/mutation: frequency of micronucleated erythrocytes

investigated material: blood samples

investigated organ system: immune system

time of investigation: during exposure

Main outcome of study (according to author)

Statistically significant differences were found in the frequency distribution of micronucleated erythrocytes between the control and exposed groups.

(Study character: medical/biological study, observational study, full/main study)

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