Abstracts

Cytogenetic Observations on Thymidine Synchronized Bovine Lymphocytes Exposed to 7.25 GHz Microwaves

B. Bisceglia, G. D'Ambrosio, D. Di Berardino, M.B. Lioi and M.R. Scarfi. "Cytogenetic Observations on Thymidine Synchronized Bovine Lymphocytes Exposed to 7.25 GHz Microwaves." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 779-781.

Thymidine synchronized bovine lymphocytes were exposed in the S phase to 7.25 GHz microwaves by means of a waveguide system. The exposures were 1 hour long and the temperature rise was less than 1°C. No specific effect of microwaves was evidenced, but chromosome breaks occurred following either microwave or conventional heating. Thymidine alone was found to induce polyploidy and the 1°C heating seems to reduce this effect.

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