Abstracts

Exposure of Human Mononuclear Leukocytes to Microwave Energy Pulse-Modulated at 16 or 60 Hz

N.J. Roberts, Jr., S.M. Michaelson and S.-T. Lu. "Exposure of Human Mononuclear Leukocytes to Microwave Energy Pulse-Modulated at 16 or 60 Hz." 1984 Transactions on Microwave Theory and Techniques 32.8 (Aug. 1984 [T-MTT] (Special Issue on Electromagnetic-Wave Interactions with Biological Systems)): 803-808.

Human mononuclear leukocytes were exposed to 2450-MHz microwaves pulse mondulated at 16 or 60 Hz, at specific absorption rates up to 4 mW/ml. Such exposures produced no detectable effects on leukocyte viability, or on unstimulated or mitogen-stimulated DNA synthesis or total protein synthesis. The data provided no evidence that exposure to pulse-modulated microwaves is more Iikely to alter human leukocyte function than is exposure to continuous waves at equivalent energy levels.

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