Abstracts

The Absence of Significant Short-Term Electromagnetic Bioeffects in Giant Algal Cells Exposed to CW and Pulse-Modulated X-Band Bursts

A.V. Gokhale, K.M. Brunkard and W.F. Pickard. "The Absence of Significant Short-Term Electromagnetic Bioeffects in Giant Algal Cells Exposed to CW and Pulse-Modulated X-Band Bursts." 1984 Transactions on Microwave Theory and Techniques 32.8 (Aug. 1984 [T-MTT] (Special Issue on Electromagnetic-Wave Interactions with Biological Systems)): 795-797.

Giant cells of the algae Chara brauni and Nitella flexilis were exposed to continuous wave and pulse-modulated bursts of X-band microwaves and the vacuolar potential was monitored for immediate radiation-correlated offsets. No such offsets were observed despite a resolution of approximately 5 in 10/sup 5/, and despite the wide variety of frequencies, power levels, and pulse protocols employed.

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