

## Study of the activity of neurological cell solutions using complex permittivity measurement

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*M.R. Tofighi and A.S. Daryoush. "Study of the activity of neurological cell solutions using complex permittivity measurement." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1763-1766 vol.3.*

Experimental results of the exposure of neurological cells to radio frequency are presented. The exposure is quantified by the mean of the complex permittivity of cell solutions as a function of frequency. A set-up is used for measurement of complex permittivity of live and dead neurological cell cultures from 20 to 40 GHz. Differences are observed between the two cultures and are compared against the expected measurement error. The statistical significance of these differences is also studied and reported in this paper.

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