

Theoretical evaluation of GSM/UMTS electromagnetic fields on neuronal network response

F. Apollonio, M. Liberti and G. D'Inzeo. "Theoretical evaluation of GSM/UMTS electromagnetic fields on neuronal network response." 2002 Transactions on Microwave Theory and Techniques 50.12 (Dec. 2002 [T-MTT] (Special Issue on 2002 International Microwave Symposium)): 3029-3035.

Understanding the modalities of interaction of electromagnetic (EM) fields with biological material is a key point in the identification of possible induced effects. An integrated approach to model EM field interaction with biological systems is proposed in this paper. Here, a neuronal network is identified as the biological target. In this paper, for the first time, the possible effects of EM signals related to universal mobile telecommunication system and global system for mobile communication standard on the setup model are investigated.

 [Return to main document.](#)