

A Theoretical Basis for Microwave and RF Field Effects on Excitable Cellular Membranes

C.A. Cain. "A Theoretical Basis for Microwave and RF Field Effects on Excitable Cellular Membranes." 1980 *Transactions on Microwave Theory and Techniques* 28.2 (Feb. 1980 [T-MTT]): 142-147.

A model of a mechanism for nonthermal interaction of RF or microwave fields with excitable cellular membranes is presented. It may be possible for an oscillating component of membrane potential to change the conductance of the membrane to all ion species which transverse voltage-dependent membrane channels. Some specific effects on squid giant axon predicted by the model are discussed.

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