

Complete Evaluation of Conformational MW Effects on ACH Channels with Parallel Computing

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We present here a parallel implementation and optimization of a Markov model simulating the Acetylcholine-receptor (ACh) channel response to 2.45 GHz fields. It overcomes the limitations of a previous implementation, allowing a complete understanding of the simulated phenomenon. The main experimentally observed effects of microwaves on ACh channels are theoretically explained, and an energetical mapping of ACh conformational changes achieved.

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