Evaluation of Stimulation Threshold in Nerve Cells by Exposure to Alternative Magnetic Field in In Vitro						
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International guidelines that aim to protect people from adverse health effect by exposure to magnetic fields (MF) have						
$been\ established\ by\ international\ organizations\ such\ as\ the\ International\ Commission\ on\ Non-Ionizing\ Radiation\ Protection$						
(ICNIRP) or the Institute of Electrical and Electronic Engineers (IEEE). In the guidelines, one of the target effects below						
100 kHz is nerve stimulation based on a few provocation studies. Because of a few studies, the value of basic restriction of						
$the \ guidelines \ adopt \ extrapolation \ widely \ such \ as \ 45Hz \ to \ 400Hz \ and \ 7kHz \ to \ 100kHz. \ Therefore, \ determination \ of \ thresholds \ thresholds \ thresholds \ determination \ of \ th$						
old value among extrapolated frequencies is important for verification and improving of the current basic restriction. Here,						
we report progress of our study to determine threshold value of nerve stimulation by magnetic or electric field in <i>in vitro</i> .						