



Supplementary Figure 1: Frequency-input curves for selected values of c_m for the various models. c_m is altered everywhere. A) The one-compartment Hodgkin-Huxley model, B) The ball-and-stick Hodgkin-Huxley model, C) Allen model 1, D) Allen model 2, E) Allen model 3, G) The relative difference between $1.0c_m$ and $1.5c_m$ at the largest current these curves have in common