



Fig S5.1 Conduction of AP alternans in 2D inhomogeneous tissue with normal  $I_{Na}$  ( $S_{gNa}=1$ ) and time series of APs. (A) Snapshots of excitation waves in an inhomogeneous tissue with PCL = 140ms. (B) Time series of APs recorded from 3 different registration sites, cell A, B and C as marked by black dots in the top-left panel of (A). Red arrow: marking for beginning of re-entry. Inhomogeneous tissue was simulated by assigning 10% cells to dead cells randomly in the tissue as shown by white nodes.